

SUEZ WATER NEW YORK
WEST NYACK, NEW YORK

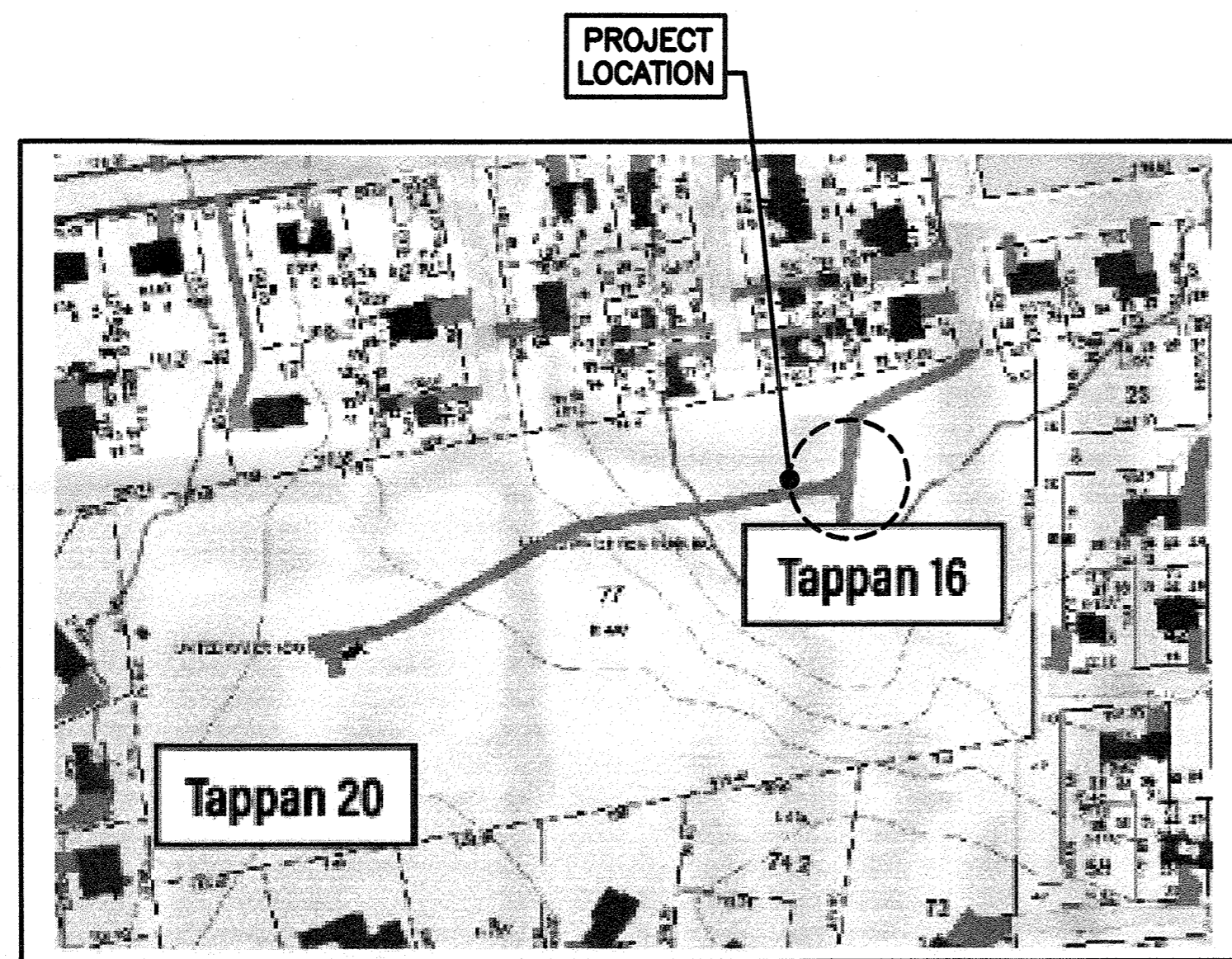
PFAS COMPLIANCE FOR GROUNDWATER WELLS

PROJECT B

CONTRACT NO. 15806

PERMIT SUBMITTAL

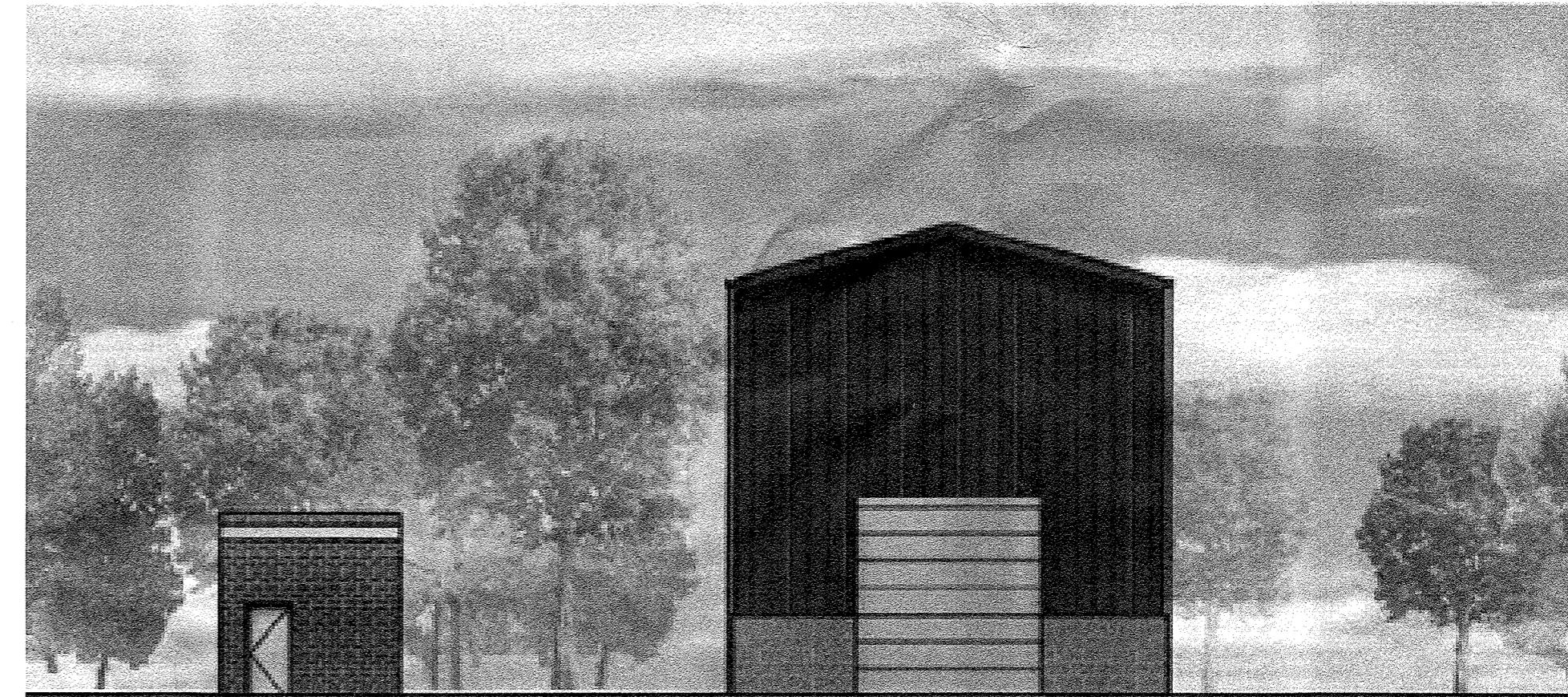
AUGUST 2021



TAPPAN
TOWN OF ORANGETOWN

LOCATION MAP

NOT TO SCALE



EAST ELEVATION



Water



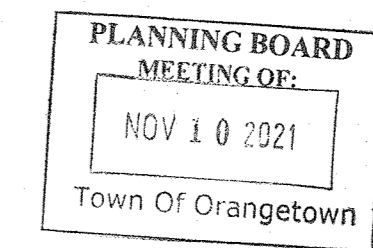
Environment

CAMP DRESSER McKEE & SMITH - LATHAM, NEW YORK

Transportation

Energy

Facilities



WARNING:
IT IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATES OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER OR SURVEYOR HAS BEEN ATTACHED.

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REV. NO.	DATE	DRWN	CHKD	REMARKS

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 DRAWN BY: R. GENCORELLI
 SHEET CHK'D BY: P. CABRAL
 CROSS CHK'D BY: G. STUART
 APPROVED BY: G. STUART
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SUEZ WATER NEW YORK
 WEST NYACK, NY
**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 CONTRACT NO. 15806

PROJECT NO. 250917-257061
 FILE NAME: G001INDX.DWG
 SHEET NO.
G-1

LEGEND

	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENT LINE
	INDEX CONTOUR LINE
	CONTOUR LINE
	EDGE OF WETLANDS
	CHAIN LINK FENCE
	CURB LINE
	EDGE OF CONCRETE
	EDGE OF PAVEMENT
	EDGE OF WATER
	PAINTED TRAFFIC LINES
	OVERHEAD WIRES
	WATER (UNDERGROUND)
	SILT FENCE
	LIMIT OF CLEARING
	WETLAND DELINEATION
	STRUCTURE
	BOTTOM/TOP OF CURB ELEVATION
	DOOR SILL ELEVATION
	SPOT ELEVATION
	MONUMENT FOUND
	GATEPOST
	GUY ANCHOR
	UTILITY POLE
	MANHOLE (SAN. SEWER)
	WATER VALVE
	HYDRANT
	SIGN
	WETLAND FLAG
	BORING
	BOLLARD
	TEST PIT
	NORTH ARROW

ABBREVIATIONS

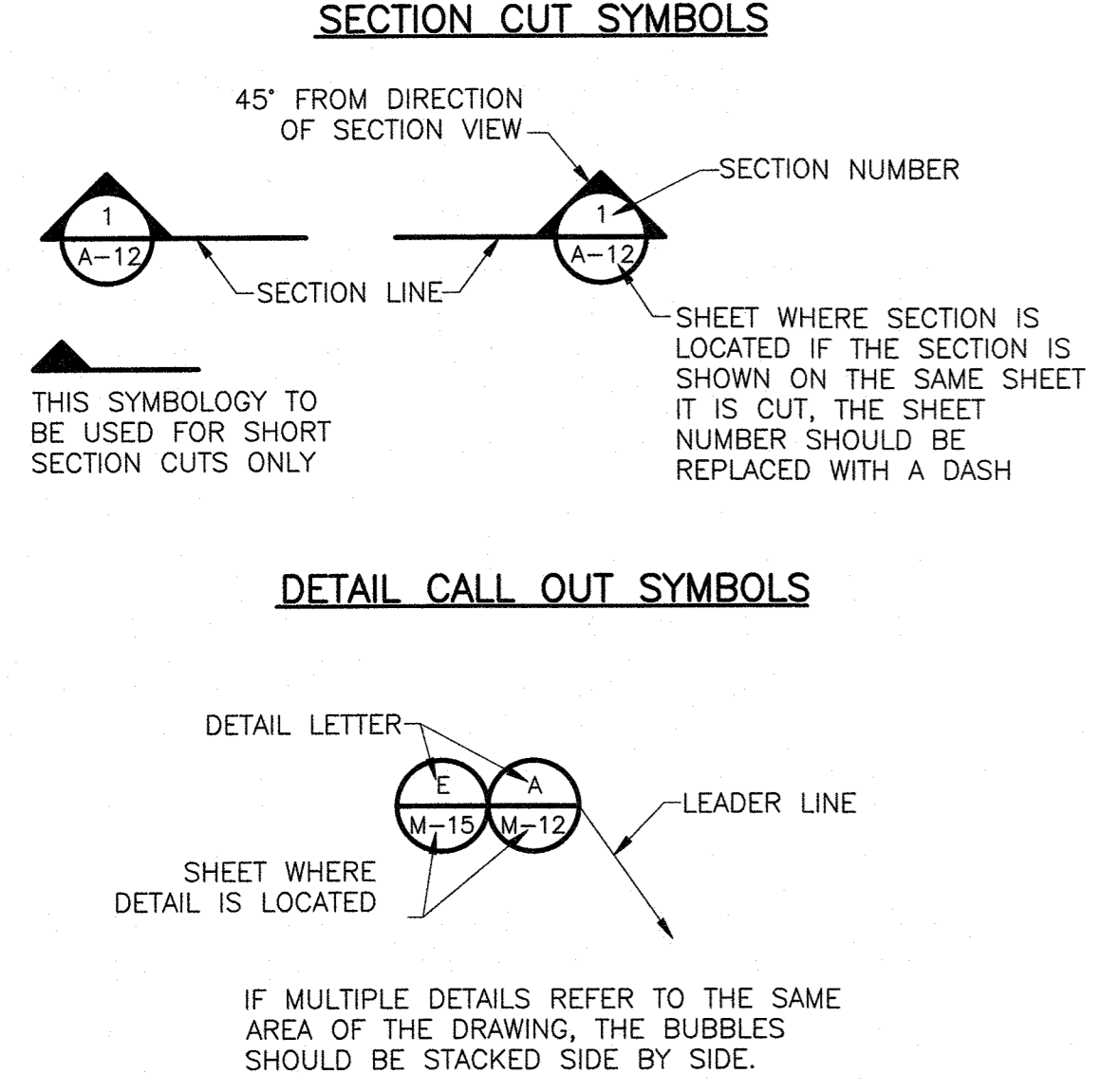
APPROX	APPROXIMATELY	MD	METAL DOOR
BFV	BUTTERFLY VALVE	N	NORTH
C.C.	CONCRETE CURB	NAD	NORTH AMERICAN DATUM
CI	CAST IRON	NAVD	NORTH AMERICAN VERTICAL DATUM
CMP	CORRUGATED METAL PIPE	OD	OUTSIDE DIAMETER
C.N.O	COULD NOT OPEN	PE	PLASTIC
CONC.	CONCRETE	RED	REDUCER
DI	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DOH	DEPARTMENT OF HEALTH	S	SOUTH
E	EAST	SD	STORM DRAIN
EXIST	EXISTING	SS	SANITARY SEWER
G	GAS	ST	STEEL
GIS	GEOGRAPHIC INFORMATION SYSTEM	STA	STATION
GRT	METAL GRATE	TYP	TYPICAL
GV	GATE VALVE	UE	UNDERGROUND ELECTRIC
INV.	INVERT	W	WATER OR WEST
LF	LINEAR FEET	WI	WROUGHT IRON
		WW	WATER VALVE

GENERAL NOTES

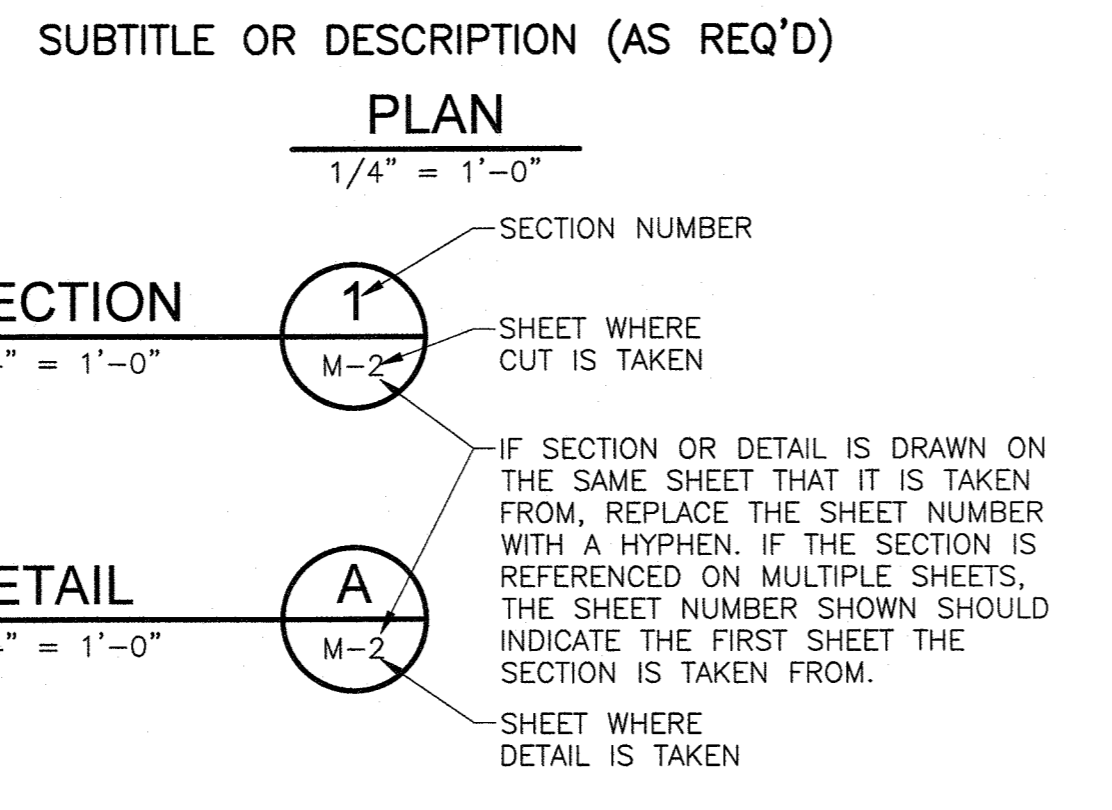
- BASE MAPPING IS BASED ON A FIELD SURVEY COMPLETED BY TECTONIC ENGINEERING CONSULTANTS, GEOLOGISTS & LAND SURVEYORS, D.P.C. COMPLETED ON 3/11/2021 AND 4/01/2021. THE HORIZONTAL DATUM IS NEW YORK STATE PLANE NAD83, NEW YORK EAST ZONE. THE VERTICAL DATUM IS NAVD88.
- CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE WITH PROPOSED WORKING HOURS TO THE OWNER'S FIELD REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ANY CONSTRUCTION AT THE SITE. THE FIELD REPRESENTATIVE SHALL COORDINATE SCHEDULE WITH APPLICABLE REGULATORY AGENCIES AND STAKEHOLDERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK, LANE CLOSURES AND DISRUPTIONS WITH GOVERNING AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A TRAFFIC CONTROL PLAN TO THE MUNICIPALITIES PRIOR TO STARTING WORK. PROPER TRAFFIC CONTROL MUST BE MAINTAINED THROUGHOUT THE PROJECT DURATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SECURING AND REHABILITATING TEMPORARY STAGING, STORAGE AND/OR STOCKPILING AREAS, IF NEEDED, DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, SUEZ WATER, AND ALL UTILITIES PRIOR TO STARTING WORK.
- REGULAR WORKING HOURS FOR THIS PROJECT ARE DEFINED AS MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 7:00 AM AND 5:00 PM UNLESS OTHERWISE STIPULATED BY THE ROAD OWNER.
- FOR ALL WORK NEAR UNDERGROUND UTILITIES, THE CONTRACTOR SHALL FOLLOW PROPER NOTIFICATION PROCEDURES INCLUDING CONTACTING THE STATE "ONE CALL" SYSTEM (DIG SAFE NY) BY CALLING 1-800-962-7962.
- DIG EXPLORATORY TEST PITS AS REQUIRED TO DETERMINE UNDERGROUND CONDITIONS. FIELD ENGINEER AND OWNER SHALL APPROVE OF TEST PITS PRIOR TO EXCAVATION.
- THE LOCATION AND FULL EXTENT OF TRAFFIC SIGNAL LOOPS, CONDUIT, AND WIRING MAY NOT BE SHOWN. THE CONTRACTOR SHALL COORDINATE THE MARK-OUT OF SIGNAL LOOPS AND WIRING WITH THE GOVERNING AGENCY. LOOPS AND WIRING DAMAGES DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE GOVERNING AGENCY AT NO ADDITIONAL COST TO SUEZ WATER.
- ALL SERVICE LOCATIONS ARE INTENDED TO SHOW THE PRESENCE OF A SERVICE AND DO NOT REPRESENT THE EXACT LOCATIONS. EXACT LOCATIONS AND SIZES OF SERVICES TO BE VERIFIED IN THE FIELD.
- THE CONTRACTOR SHALL SUPPORT EXISTING UTILITIES DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER AND THE RESPECTIVE UTILITY.
- SILT FENCES SHALL BE INSTALLED PRIOR TO CLEARING AND TRENCHING WHERE SPECIFIED IN SECTION 01110 AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM.
- ALL TEMPORARY CONCRETE BARRIERS SHALL CONFORM TO NYS DOT M606-21.
- ALL PIPE SHALL BE CLASS 52 CEMENT/MORTAR LINED DUCTILE IRON PIPE CONFORMING TO AWWA STANDARD C151 UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY ON ANY CONFLICTS ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL NOTIFY SUEZ WATER PRIOR TO CONNECTION TO OR RELOCATION OF ANY EXISTING SUEZ WATER-OWNED AND MAINTAINED FACILITIES. ALL CONNECTIONS AND MODIFICATIONS TO EXISTING FACILITIES SHALL BE DONE AT THE CONVENIENCE OF SUEZ WATER.
- THE DRAWINGS INDICATE THE PRESENCE OF BENDS AS PART OF THE NEW INSTALLATION. BENDS ARE SHOWN TO INDICATE THE FACT THAT THE INSTALLATION WILL INCLUDE BENDS, BUT NOT TO INDICATE THE EXACT PLACEMENT OF BENDS. PRECISE LOCATION OF BENDS TO BE DETERMINED IN THE FIELD.
- SANITARY SEWER MAINS AND CROSSINGS TO BE FIELD VERIFIED BY CONTRACTOR. THE CONTRACTOR IS CAUTIONED THAT ALL SANITARY LATERALS AND UTILITY SERVICES HAVE NOT BEEN LOCATED, WHEN THE CONTRACTOR ENCOUNTERS AN OBSTRUCTION AND CANNOT ADJUST THE ALIGNMENT USING ALLOWABLE JOINT DEFLECTION, THE CONTRACTOR SHALL INSTALL FITTINGS PROVIDED BY SUEZ WATER AT NO ADDITIONAL COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROMPT REPAIR OF DAMAGED UTILITIES AND SHALL MAINTAIN ON SITE AN ADEQUATE SUPPLY OF REPAIR MATERIALS.
- CONTRACTOR SHALL MAINTAIN A VERTICAL MINIMUM CLEARANCE OF 18-INCHES BETWEEN THE NEW WATER MAIN AND ALL OTHER EXISTING UTILITIES WHEN POSSIBLE. NEW WATER MAINS SHALL PASS UNDER ALL EXISTING UTILITIES EXCEPT SANITARY SEWERS UNLESS OTHERWISE SHOWN OR DIRECTED BY THE OWNER'S REPRESENTATIVE.
- WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER, WITH PREFERENCE TO THE WATER MAIN LOCATED ABOVE THE SEWER. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
- CONTRACTOR SHALL ENCASE NEW WATER MAIN IN K-CRETE WHEN PIPE IS WITHIN 10 FEET OF SANITARY OR STORM SEWER HORIZONTALLY OR CROSSES WITHIN 18 INCHES VERTICALLY.
- THE CONTRACTOR SHALL BE AWARE THAT THE MAINS AND VALVES TO BE SHUT DOWN ARE OLD. AS SUCH, A WATERTIGHT SHUTDOWN CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE PREPARED TO UNDERTAKE MAIN ABANDONMENT OPERATIONS AND CONNECTIONS TO THE EXISTING MAINS IN WET CONDITIONS. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION IF EXISTING VALVES LEAK. THE CONTRACTOR SHALL PROVIDE THE NECESSARY PUMPING AND DEWATERING EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- ALL NEW WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF 4 FEET OF COVER, UNLESS OTHERWISE NOTED ON THE PLAN SHEETS OR DIRECTED BY THE OWNER'S REPRESENTATIVE.
- THRUST BLOCKS SHALL BE INSTALLED ON ALL FITTINGS. PIPE JOINTS SHOWN TO BE RESTRAINED SHALL HAVE FIELD LOK GASKETS.
- DURING EXCAVATIONS, THE CONTRACTOR SHALL, AS A MINIMUM, COMPLY WITH THE EXCAVATION SAFETY STANDARDS, PROVIDE SPECIAL SHORING (IF REQUIRED), AND PROVIDE COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) EXCAVATION SAFETY STANDARD 29 CFR 1926/650 (SUBPART B AS AMENDED).

- TRENCH EXCAVATIONS NEAR STREAMS AND DRAINAGE SWALES SHALL BE DEWATERED USING SILTATION BAGS OR APPROVED EQUAL. CONTRACTOR SHALL NOT PUMP UNFILTERED WATER INTO STREAMS OR INTO STRUCTURES WHICH DISCHARGE TO A WATER BODY.
- IF ASBESTOS IS ENCOUNTERED, ONLY ASBESTOS-CERTIFIED CONTRACTORS ARE TO PERFORM SERVICE TAPS ON ASBESTOS CEMENT PIPE. CONTRACTOR TO RETAIN AC PIPE TAP COUPON FOR SUEZ WATER RECORD KEEPING PURPOSES.
- CONTROL DENSITY BACKFILL SHALL BE PROVIDED WHEN EXISTING UTILITY LINES ARE UNDERMINED AND SELECTED BACKFILL CAN NOT BE PROPERLY PLACED.
- NEW MAIN SHALL BE INSTALLED COMPLETE BY CONTRACTOR, THEN PRESSURE TESTED IN ACCORDANCE WITH THE LATEST EDITIONS OF AWWA STANDARD C600 AND DISINFECTED PRIOR TO TRANSFERRING SERVICE TO THE NEW MAINS BY SUEZ WATER.
- THE CONTRACTOR SHALL INSTALL A 2" CORPORATION STOP, A SECTION OF 2" COPPER TO GRADE WITH A 2" CURB STOP OR 2" BALL VALVE WITH A SECTION OF 2" COPPER WITH A COUPLING NUT AND FLARED END FOR BLEEDING, FLUSHING, PRESSURE TESTING, DISINFECTING, AND DE-CHLORINATING THE WATER MAIN. THE CORPORATION STOP TESTING ASSEMBLY SHALL BE INSTALLED AT THE BEGINNING AND END OF A SEGMENT TO BE TESTED AND DISINFECTED AND SHALL NOT EXCEED A MAXIMUM LENGTH OF 1,200 FEET AND THE CONTRACTOR SHALL INSTALL ADDITIONAL CORPORATION STOPS AS ARE REQUIRED FOR PROPER TESTING, FLUSHING, AIR BLEEDING, AND DISINFECTION.
- DURING FLUSHING AND PRESSURE TESTING OF THE MAIN, THE CONTRACTOR SHALL NOT OPERATE VALVES WITHOUT THE DIRECT SUPERVISION OF SUEZ WATER, INCLUDING NEW VALVES INSTALLED.
- AFTER THE MAIN HAS BEEN PLACED INTO SERVICE, THE CONTRACTOR SHALL REMOVE THE TESTING ASSEMBLY AND ABANDON THE CORPORATION STOP OR THE CURB STOP. THE CORPORATION STOP OR THE CURB STOP SHALL BE IN THE CLOSED POSITION AND THE END OF THE COPPER PIPE SHALL BE CRIMPED BELOW GRADE PRIOR TO BACKFILL AND PAVE IN ACCORDANCE WITH THE APPLICABLE TRENCH DETAIL.
- REGARDLESS OF THE SOURCE OF POTABLE WATER, ALL WATER USED FOR TESTING AND DISINFECTING PURPOSES SHALL BE PROPERLY DISPOSED OF (INCLUDING DE-CHLORINATION) BY THE CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, LOCAL AND SUEZ WATER STANDARDS.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH HAVE OCCURRED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK. ITEMS SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED OR DAMAGED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
- SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- IF CONTRACTOR UNNECESSARILY DAMAGES CURBS AND SIDEWALKS DUE TO NEGLIGENCE OR UNSUITABLE CONSTRUCTION TECHNIQUES, THE CONTRACTOR SHALL RESTORE THOSE ITEMS IN KIND AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, WALLS, WALKS, CURBS, FENCES, ETC. TO A CONDITION AT LEAST AS GOOD AS THEY WERE BEFORE BEING DISTURBED. MAILBOXES, POSTS, ETC. SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. THE COST OF THIS WORK SHALL BE PAID FOR UNDER THE BID ITEM FOR MISCELLANEOUS WORK AND CLEANUP. ITEMS DAMAGED THROUGH CONTRACTOR NEGLIGENCE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXCESS EXCAVATED MATERIAL TO AN APPROVED OFF-SITE LOCATION AT NO ADDITIONAL COST TO THE OWNER.
- RESTORATION, INCLUDING THE REMOVAL OF EXCESS EXCAVATED MATERIAL AND PLACEMENT OF TEMPORARY PAVEMENT, SHALL BE PERFORMED AND COMPLETED ON A DAILY BASIS. ALL ROADS SHALL BE PASSABLE TO VEHICULAR TRAFFIC AT THE END OF EACH WORK DAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED. THESE SHALL BE PROVIDED TO SUEZ WATER.

SYMBOLS



DRAWING, SECTION AND DETAIL TITLES



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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	D. ROSENTHAL
DRAWN BY:	R. HAINES
SHEET CHK'D BY:	P. CABRAL
CROSS CHK'D BY:	G. STUART
APPROVED BY:	G. STUART
DATE:	JULY 2021

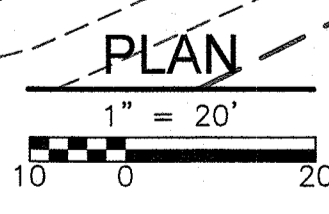
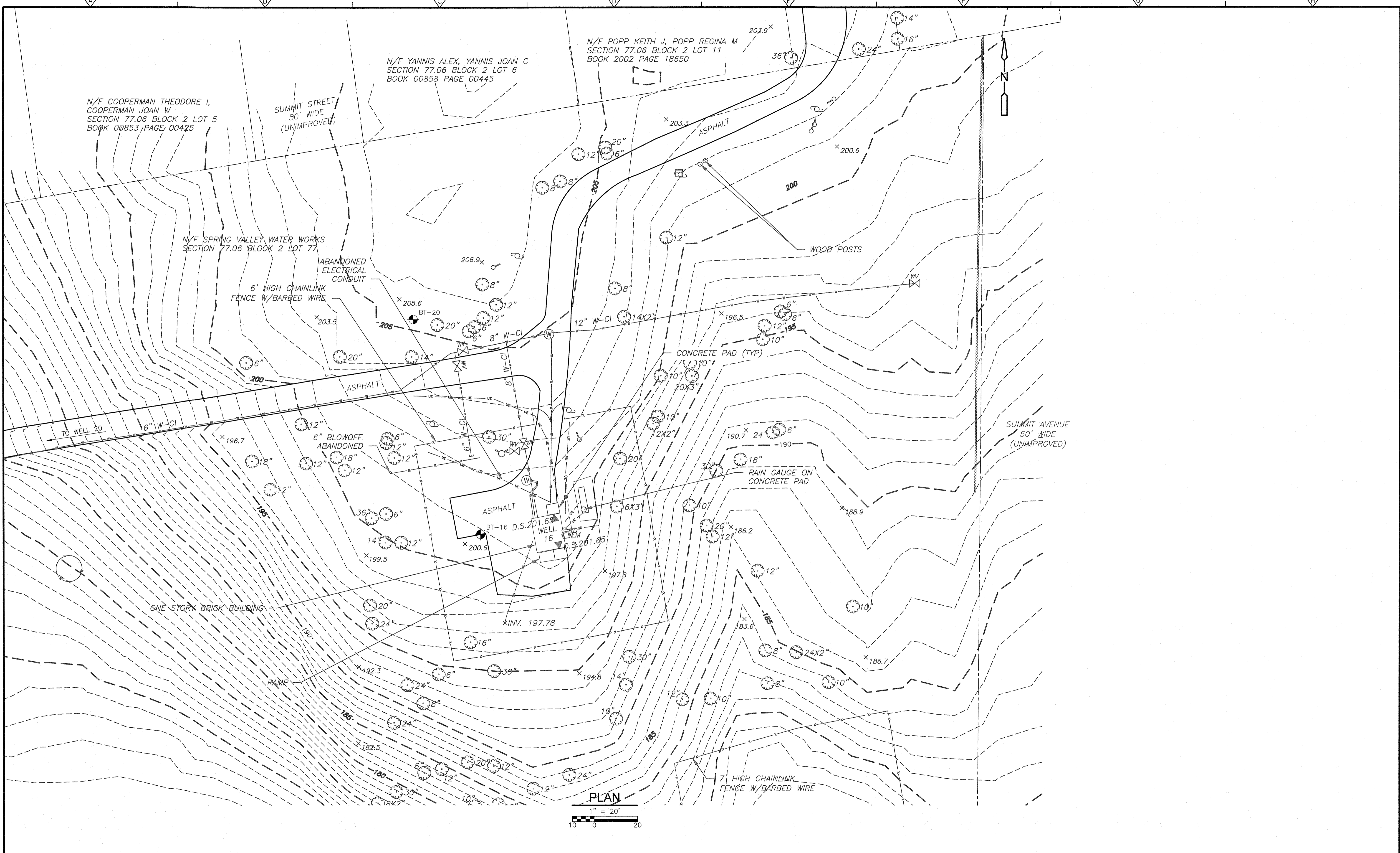
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GROUNDWATER WELLS PROJECT B
 CONTRACT NO. 15806

CIVIL
GENERAL NOTES, ABBREVIATIONS,
LEGEND AND SYMBOLS

PROJECT NO. 250917-257061
FILE NAME: C100NFLG.DWG
SHEET NO.
C-100

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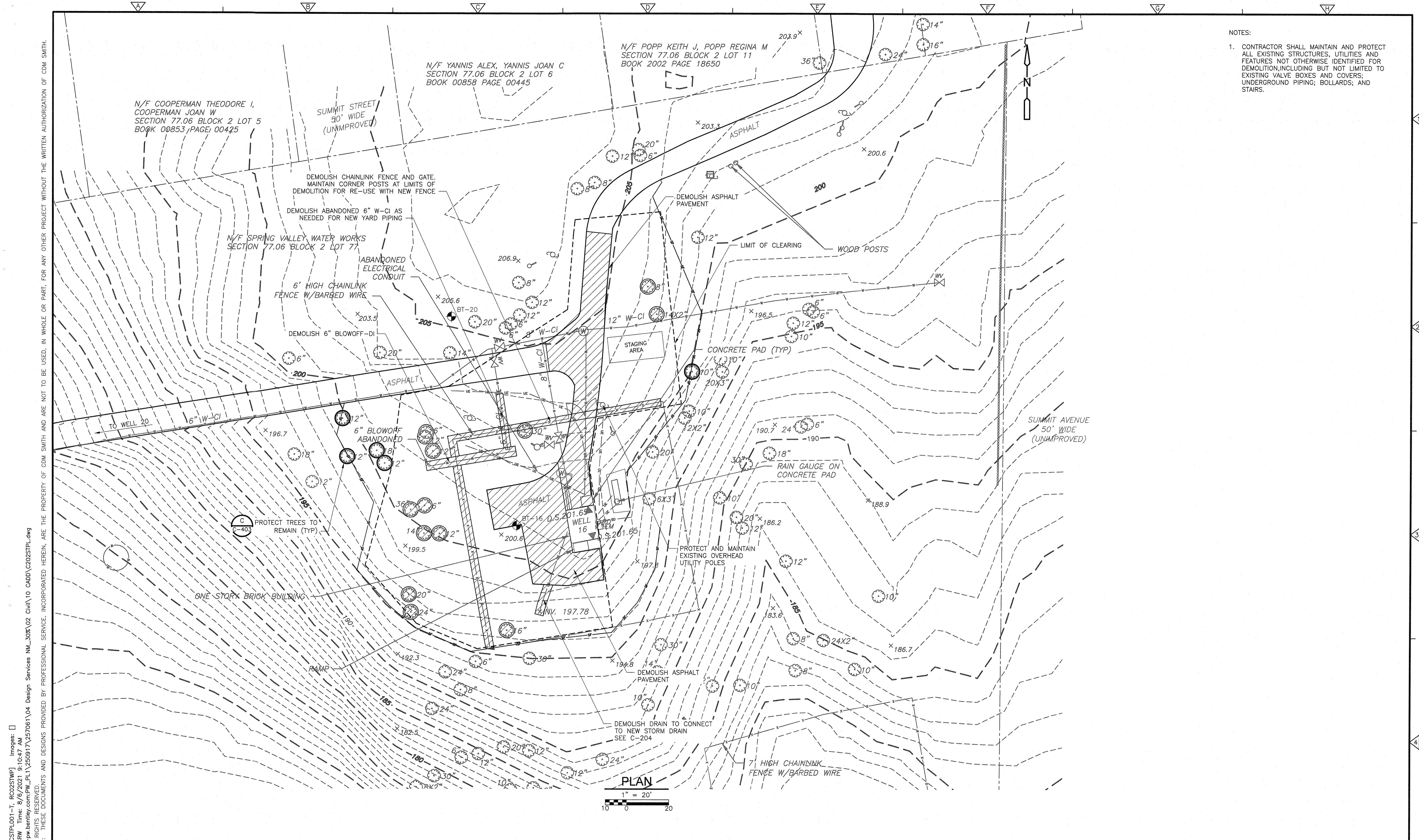
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CIVIL
 EXISTING CONDITIONS/BORING PLAN
 TAPPAN

PROJECT NO. 250917-257061
 FILE NAME: C201STPL.DWG
 SHEET NO.
C-201



NOTES:
 1. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING STRUCTURES, UTILITIES AND FEATURES NOT OTHERWISE IDENTIFIED FOR DEMOLITION, INCLUDING BUT NOT LIMITED TO EXISTING VALVE BOXES AND COVERS; UNDERGROUND PIPING; BOLLARDS; AND STAIRS.

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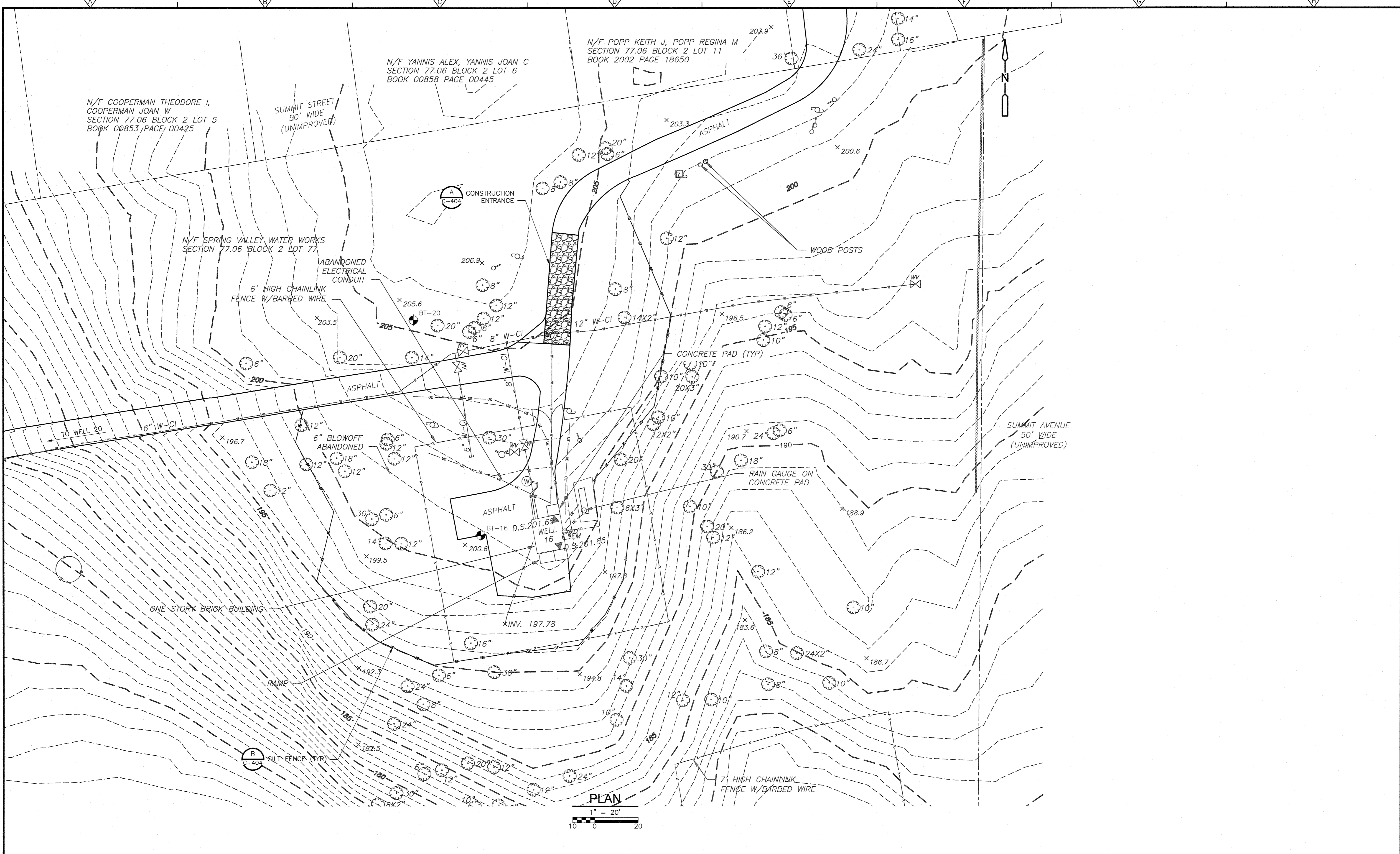
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**CIVIL
 SITE CLEARING, DEMOLITION AND STAGING
 TAPPAN**

PROJECT NO. 250917-257061
 FILE NAME: C202STPL.DWG
 SHEET NO.
C-202

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PLAN
 1" = 20'
 10 0 20

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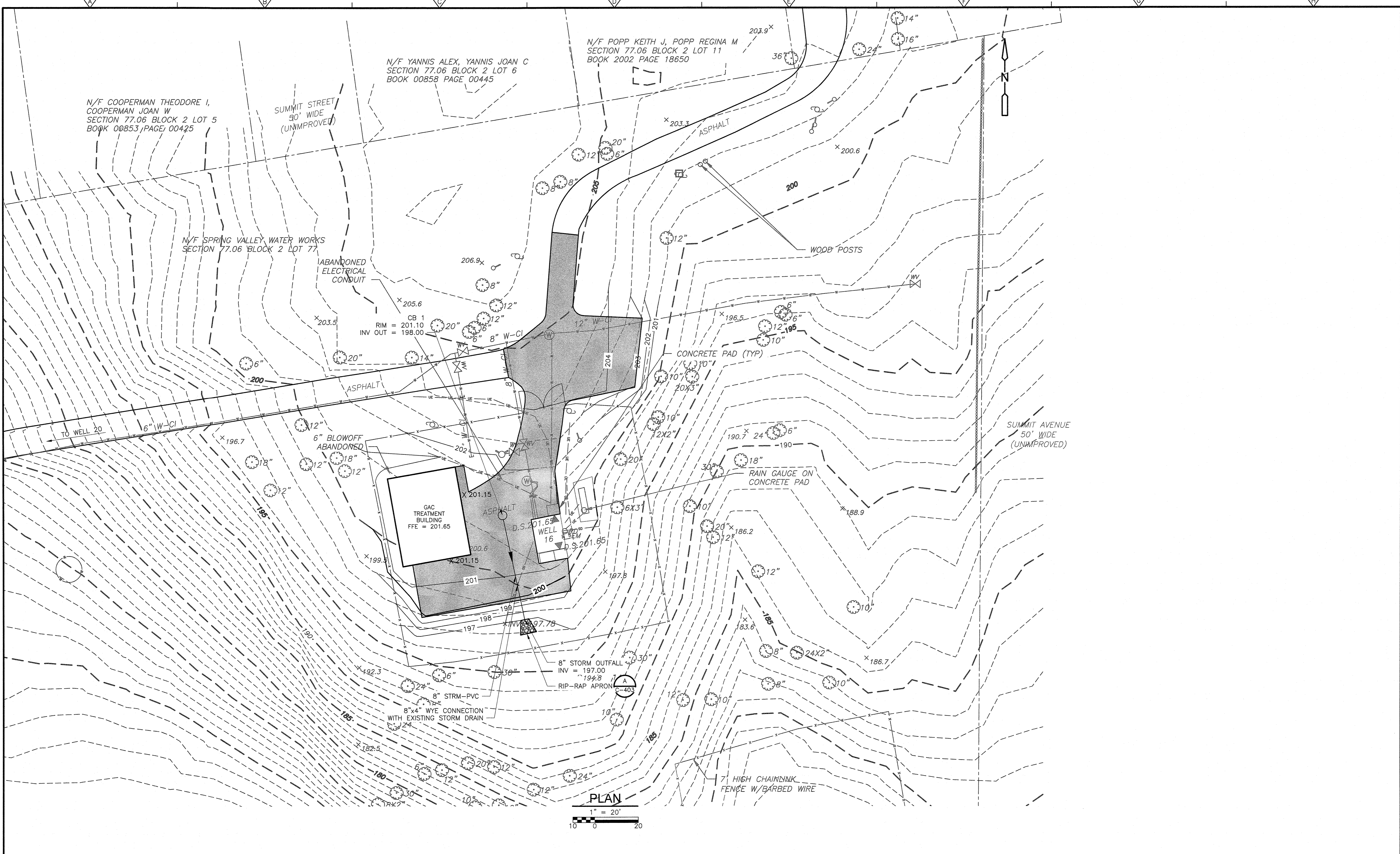
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**PFAS COMPLIANCE FOR
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**CIVIL
 SEDIMENTATION AND EROSION CONTROLS PLAN
 TAPPAN**

PROJECT NO. 250917-257061
 FILE NAME: C203STPL.DWG
 SHEET NO.
C-203

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PLAN
 1" = 20'
 10' 0' 20'

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 DATE: JULY 2021

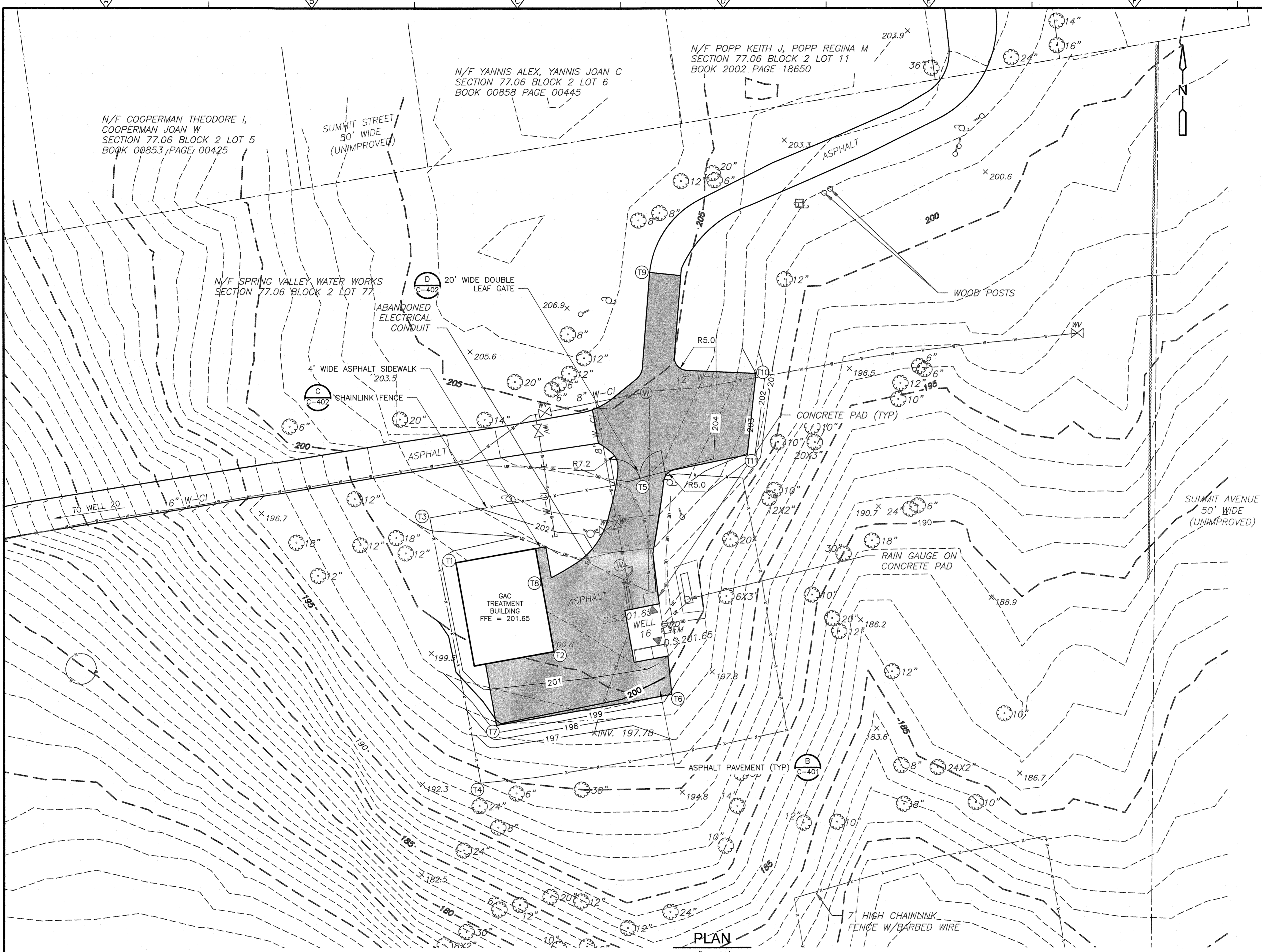
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 Camp Dresser McKee & Smith
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 Latham, NY 12110
 Tel: (518) 782-4500

SUEZ WATER NEW YORK
 WEST NYACK, NY
**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 CONTRACT NO. 15806

CIVIL
 GRADING AND DRAINAGE PLAN
 TAPPAN
 C-204

PROJECT NO. 250917-257061
 FILE NAME: C204STPL.DWG
 SHEET NO.
 C-204

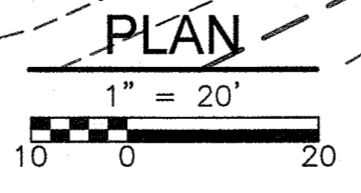
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NOTES:
 1. ALL DISTURBED AREAS NOT OTHERWISE RESTORED WITH PAVEMENT OR RIP-RAP, SHALL BE RESTORED WITH 6-INCHES TOPSOIL AND SEEDING IN ACCORDANCE WITH THE SPECIFICATIONS.

SITE IMPROVEMENT COORDINATE LOCATION TABLE		
LOCATION	NORTHING	EASTING
T1	799653.60	641539.65
T2	799618.94	641577.74
T3	799671.11	641529.49
T4	799567.94	641549.23
T5	799685.74	641609.16
T6	799602.27	641623.48
T7	799590.35	641555.31
T8	799645.83	641573.00
T9	799766.17	641614.97
T10	799726.83	641656.27
T11	799695.28	641652.83

ZONING BULK REQUIREMENTS			
ZONE	R-15/R-80		
GROUP	D		
USE	PUMP STATIONS		
	REQUIRED	EXISTING	PROPOSED
FOOR AREA RATIO	0.1	0.0006	0.003
LOT AREA	160,000 SQFT	377,373 SQFT	377,373 SQFT
LOT WIDTH	300'	953'	953'
STREET FRONTAGE	150'	48'	48'
FRONT YARD SETBACK	100'	155'	155'
SIDE YARD SETBACK	100'	230'	230'
TOTAL SIDE YARD SETBACK	200'	900'	900'
REAR YARD SETBACK	100'	207'	207'
MAXIMUM BUILDING HEIGHT	NONE	NONE	32'
NUMBER OF STORIES	1		
CONSTRUCTION TYPE	IIB NON-COMBUSTABLE		
OCCUPANCY CLASS	U-UTILITY		



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. ROSENTHAL
 DRAWN BY: R. HAINES
 SHEET CHK'D BY: G. CAPOBIANCO
 CROSS CHK'D BY: P. CABRAL
 APPROVED BY: G. STUART
 DATE: JULY 2021

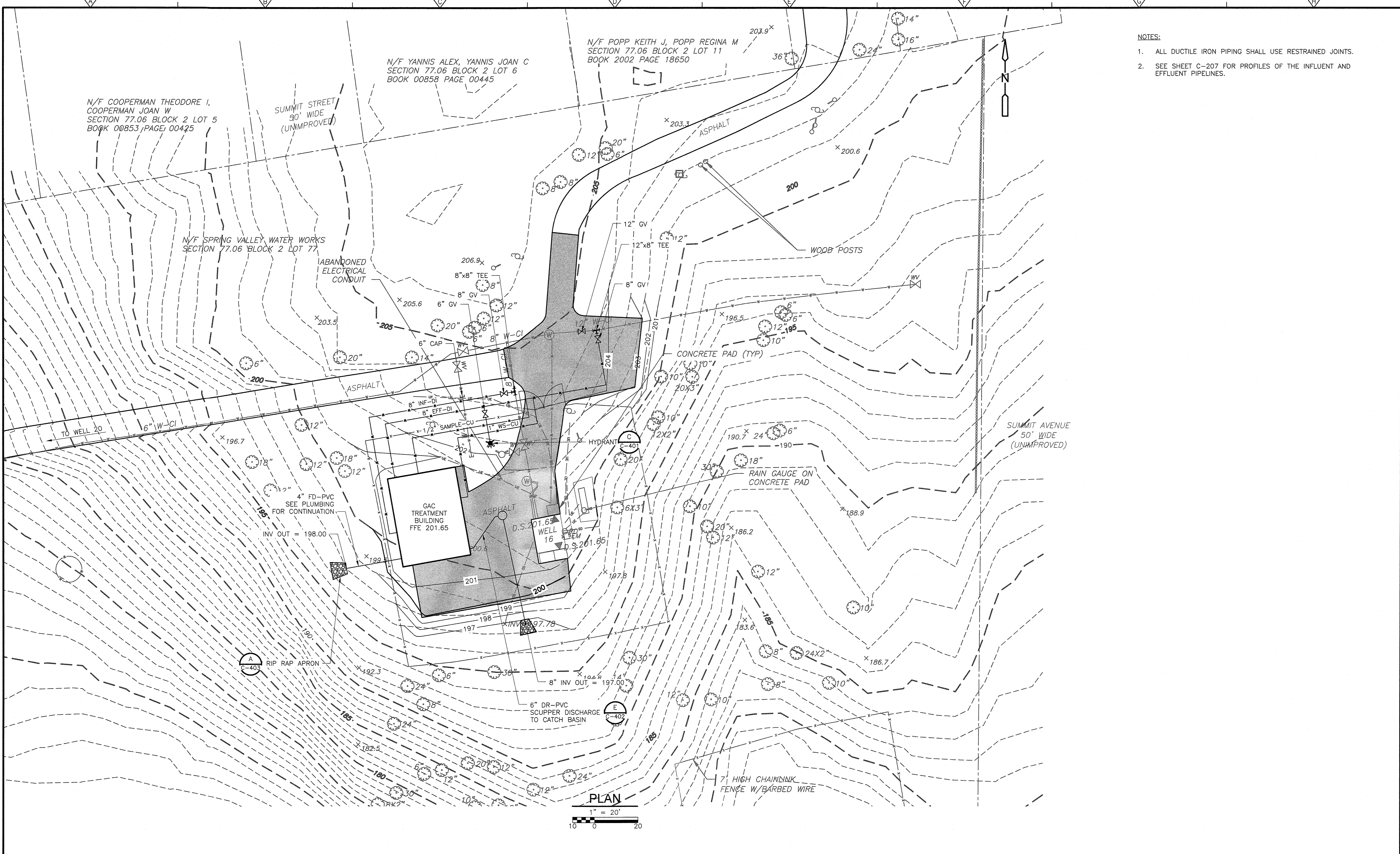
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**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 CONTRACT NO. 15806

CIVIL
**SITE IMPROVEMENT PLAN
 TAPPAN**

PROJECT NO. 250917-257061
 FILE NAME: C205STPL.DWG
 SHEET NO.
C-205

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- NOTES:**
1. ALL DUCTILE IRON PIPING SHALL USE RESTRAINED JOINTS.
 2. SEE SHEET C-207 FOR PROFILES OF THE INFLUENT AND EFFLUENT PIPELINES.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. ROSENTHAL
 DRAWN BY: R. HAINES
 SHEET CHK'D BY: G. CAPOBIANCO
 CROSS CHK'D BY: P. CABRAL
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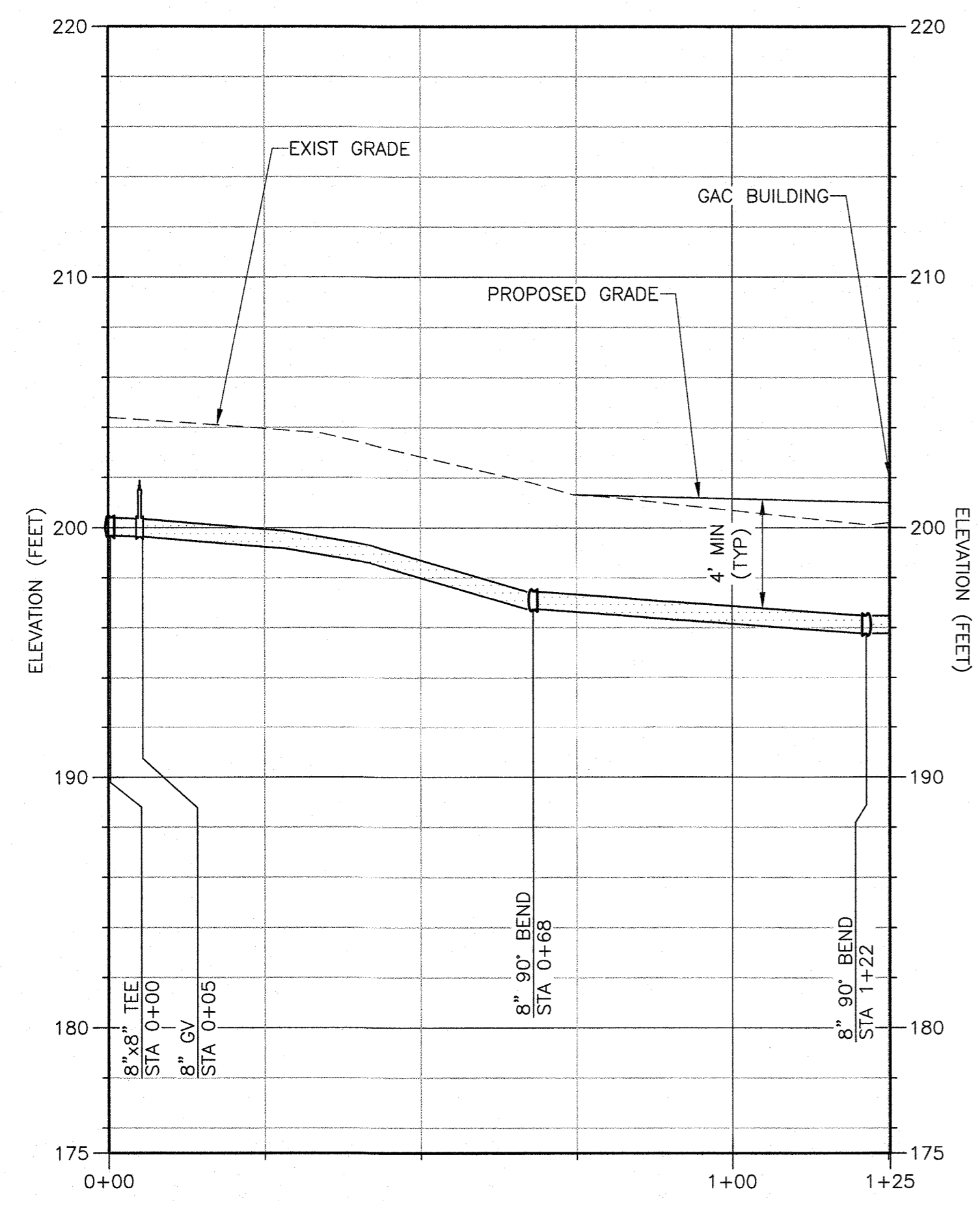
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 CONTRACT NO. 15806

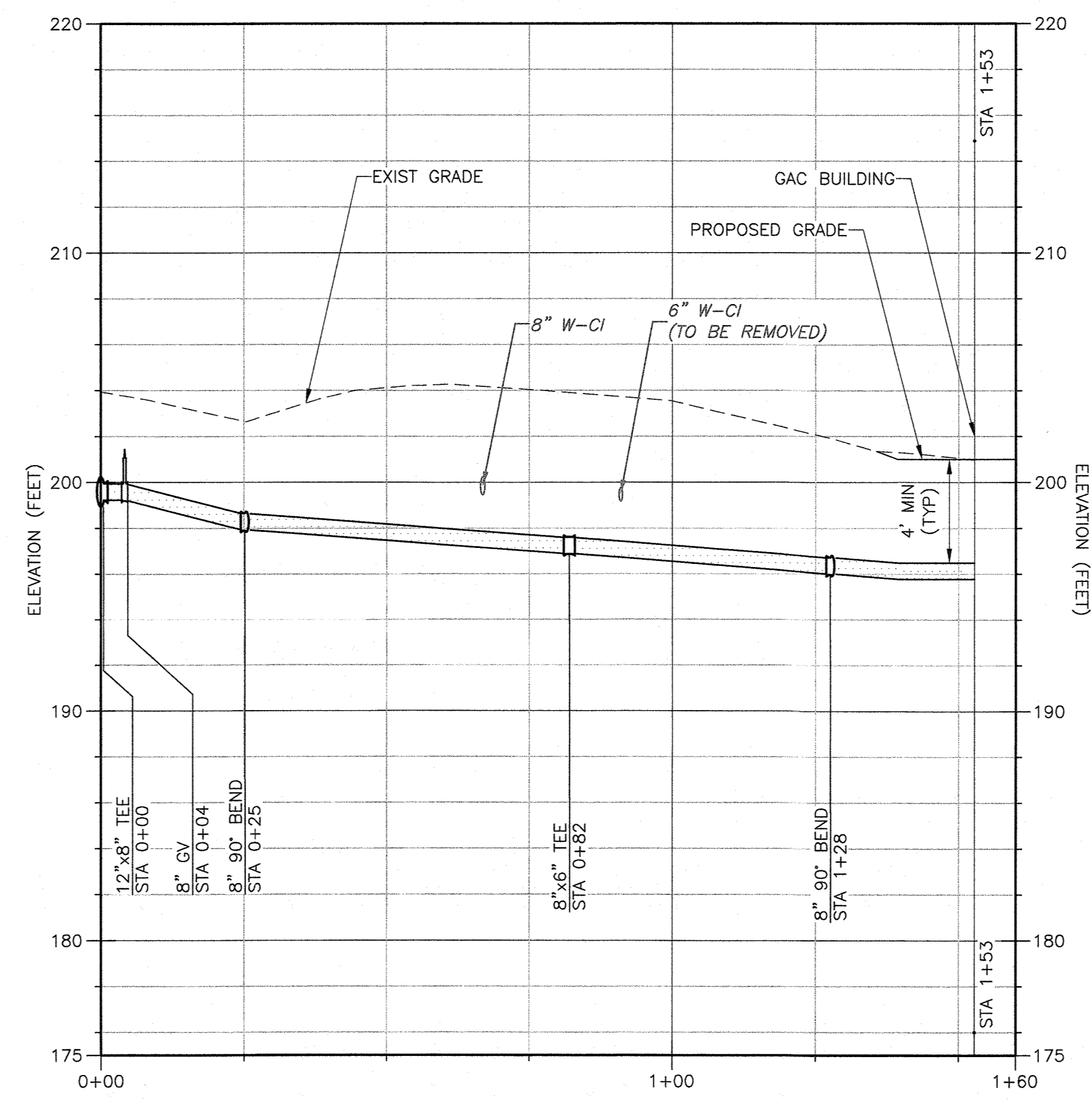
**CIVIL
 YARD PIPING PLAN
 TAPPAN**

PROJECT NO. 250917-257061
 FILE NAME: C206STPL.DWG
 SHEET NO.
C-206

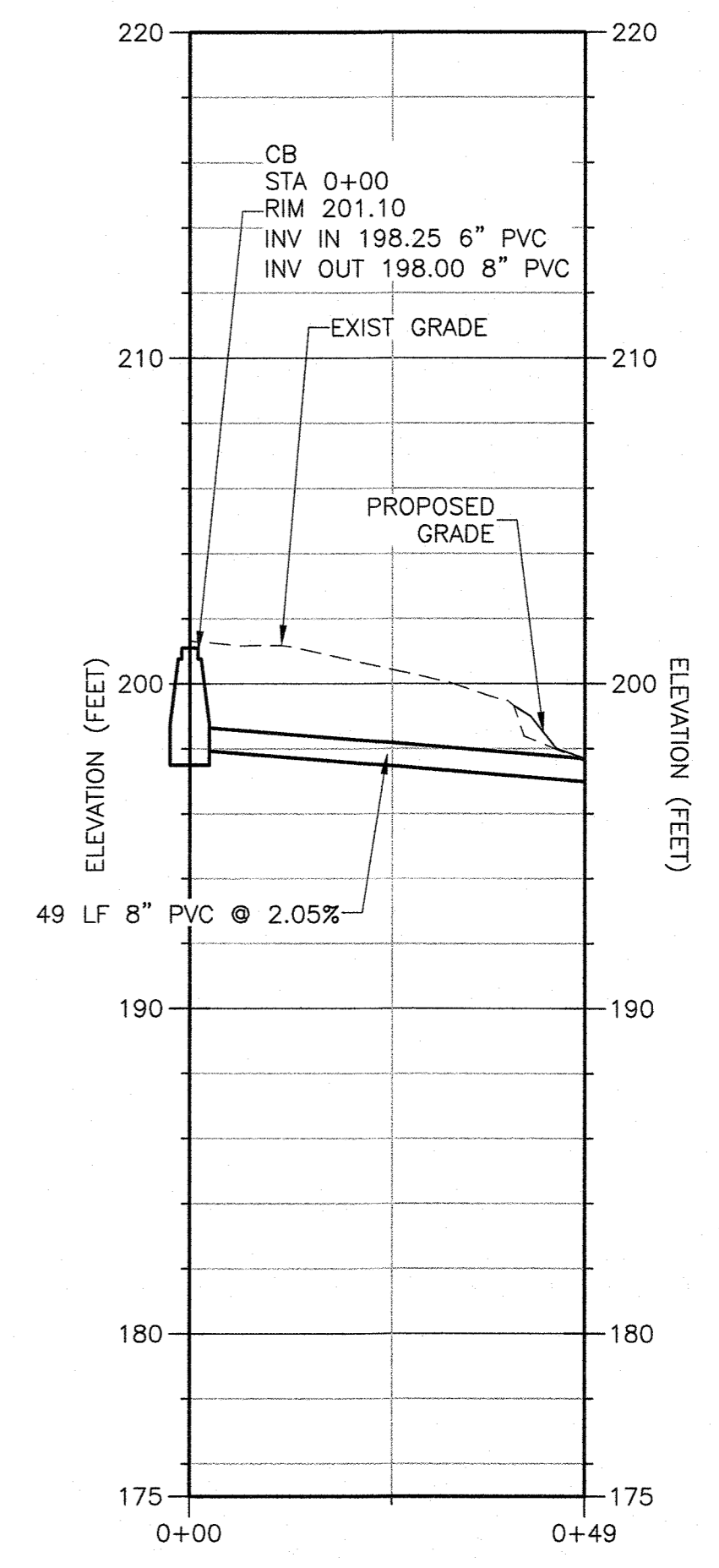
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8" INFLUENT PROFILE
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 5'



8" EFFLUENT PROFILE
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 5'



8" STORM DRAIN PROFILE
 HORIZONTAL: 1" = 20'
 VERTICAL: 1" = 5'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. ROSENTHAL
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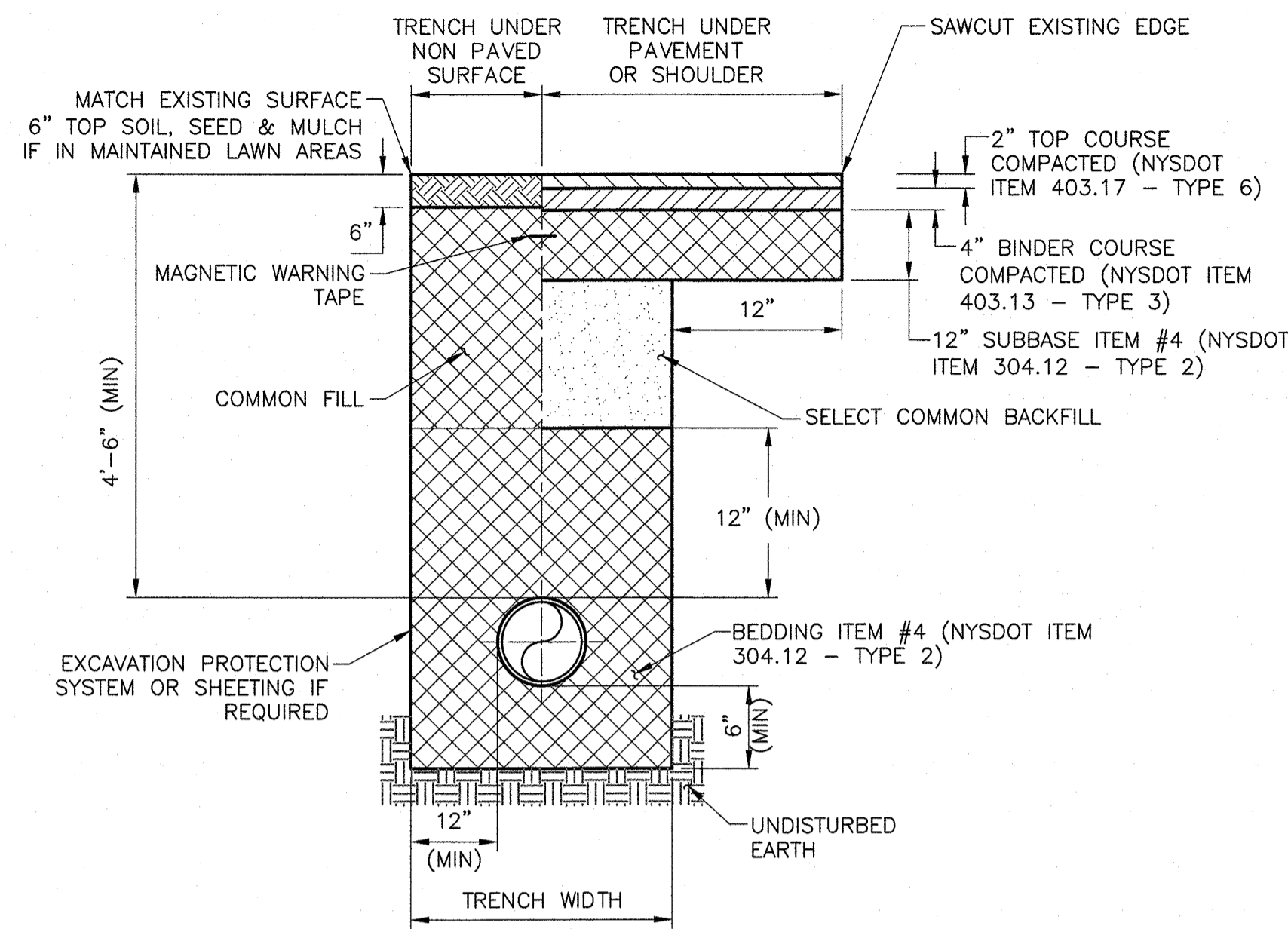
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**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 CONTRACT NO. 15806

**CIVIL
 PIPING PROFILES
 TAPPAN**

PROJECT NO. 250917-257061
 FILE NAME: C207STPP.DWG
 SHEET NO.
C-207

CIVIL DETAIL NOTES:

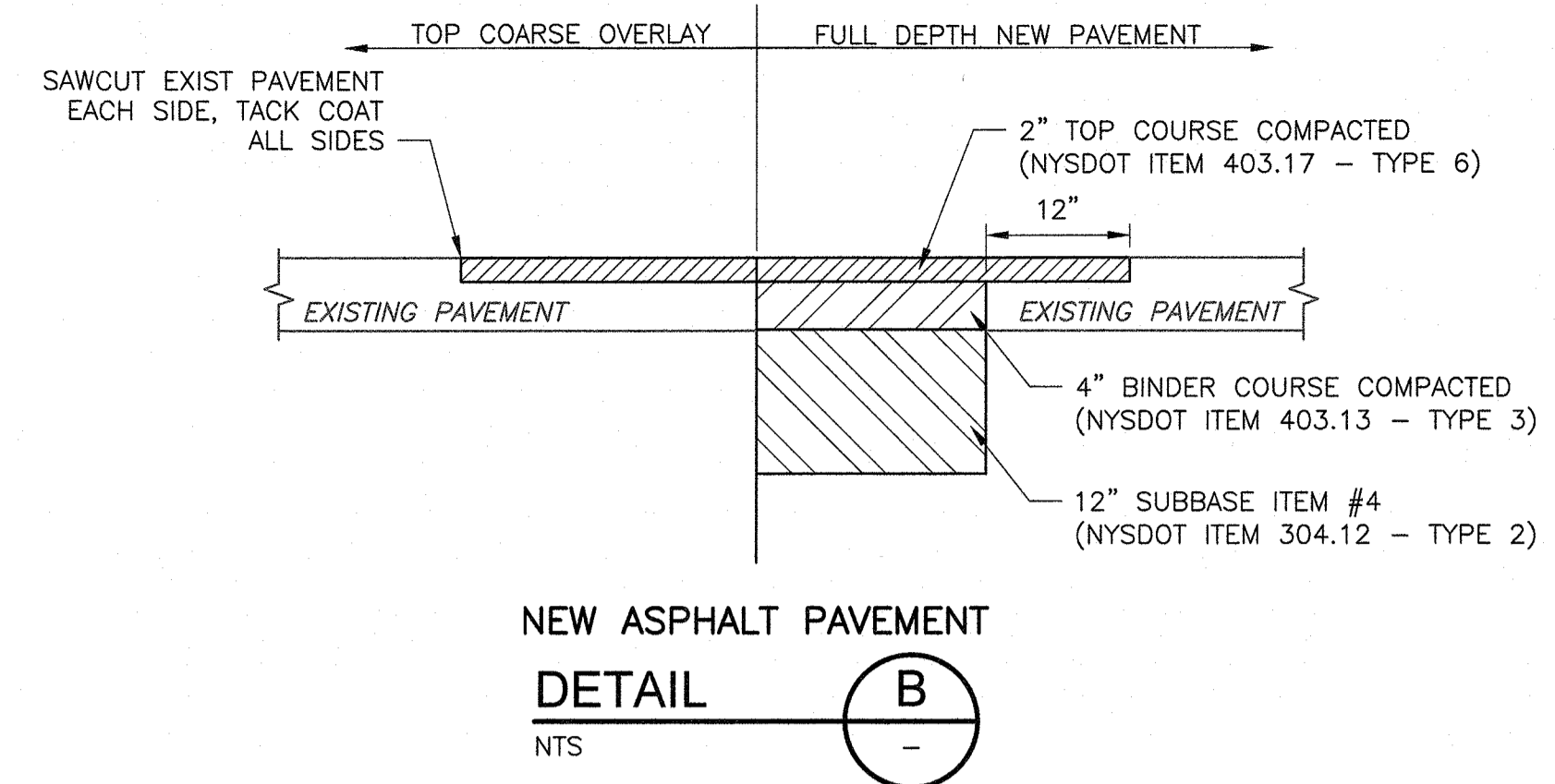
- ALL DUCTILE IRON WATER MAIN SHALL CONFORM TO AWWA SPECIFICATION, C151/A21.51-91, OR LATEST REVISION.
- THE INSTALLATION OF ALL DUCTILE IRON WATER MAIN SHALL CONFORM TO AWWA SPECIFICATION C600-05, OR LATEST REVISION.
- ALL WATER MAIN FITTINGS SHALL MEET AWWA SPECIFICATION C153/A21.53-06, OR LATEST REVISION.
- ALL WATER MAIN SHALL BE SUBJECTED TO MINIMUM HYDROSTATIC TEST OF 150 PERCENT OF THE WORKING PRESSURE IN THE PROJECT AREA FOR A PERIOD OF 2 HOURS AND IN ACCORDANCE WITH AWWA SPECIFICATION C600-05, OR LATEST REVISION. THE PRESSURE TEST SHALL BE MADE IN THE PRESENCE OF A SUEZ WATER REPRESENTATIVE AND A REPRESENTATIVE OF THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH, 48 HOURS NOTICE SHALL BE GIVEN TO THE WESTCHESTER COUNTY DEPARTMENT OF HEALTH SO ARRANGEMENTS CAN BE MADE FOR THE REPRESENTATIVE TO WITNESS THE TEST.
- ALL WATER MAIN SHALL BE DISINFECTED AND SHALL CONFORM TO AWWA C-651-05 OR LATEST REVISION, EXCEPT THAT C-651: SECTION 4.4.2; THE TABLET METHOD SHALL NOT BE UTILIZED, DISINFECTION WILL BE ACCOMPLISHED BY MEANS OF A POSITIVE DISPLACEMENT HYPOCHLORITE PUMP OR A GAS CHLORINATOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING 2" CORPORATION VALVES AS FOLLOWS:
 - AT A LOCATION LESS THAN 10 FEET FROM THE BEGINNING OF THE NEW MAIN FOR DISINFECTION PURPOSES, AND
 - AS REQUIRED FOR PROPER DISINFECTION AND PRESSURE TESTING BASED UPON SUEZ WATER WESTCHESTER AND WESTCHESTER COUNTY DEPARTMENT OF HEALTH REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF BRASS WEDGES AT EACH JOINT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FOR THE DURATION OF THE PROJECT: FLAGMEN, BARRICADES, SIGNS, ETC., FOR THE SAFE AND SMOOTH PASSAGE OF TRAFFIC IN THE PROJECT AREA.
- IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE EXISTENCE OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES IN THE PROJECT AREA.
- SUEZ WATER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE ROCKLAND COUNTY DEPARTMENT OF HEALTH, UNLESS OTHERWISE SPECIFIED.
- NO POTENTIALLY SUBSTANTIAL LARGE (15 FEET TALL OR 6 IN DIAMETER) TREES SHALL BE PLANTED WITHIN FIFTEEN (15) FEET OF ANY WATER MAIN OR FIRE HYDRANT AND NO ORNAMENTAL TREES SHALL BE PLANTED WITHIN TEN (10) FEET OF ANY WATER MAIN OR FIRE HYDRANT.
- THE CONTRACTOR SHALL NOT PLACE ANY JOINTS WITHIN 10' OF ANY STORM OR SANITARY SEWER CROSSINGS.



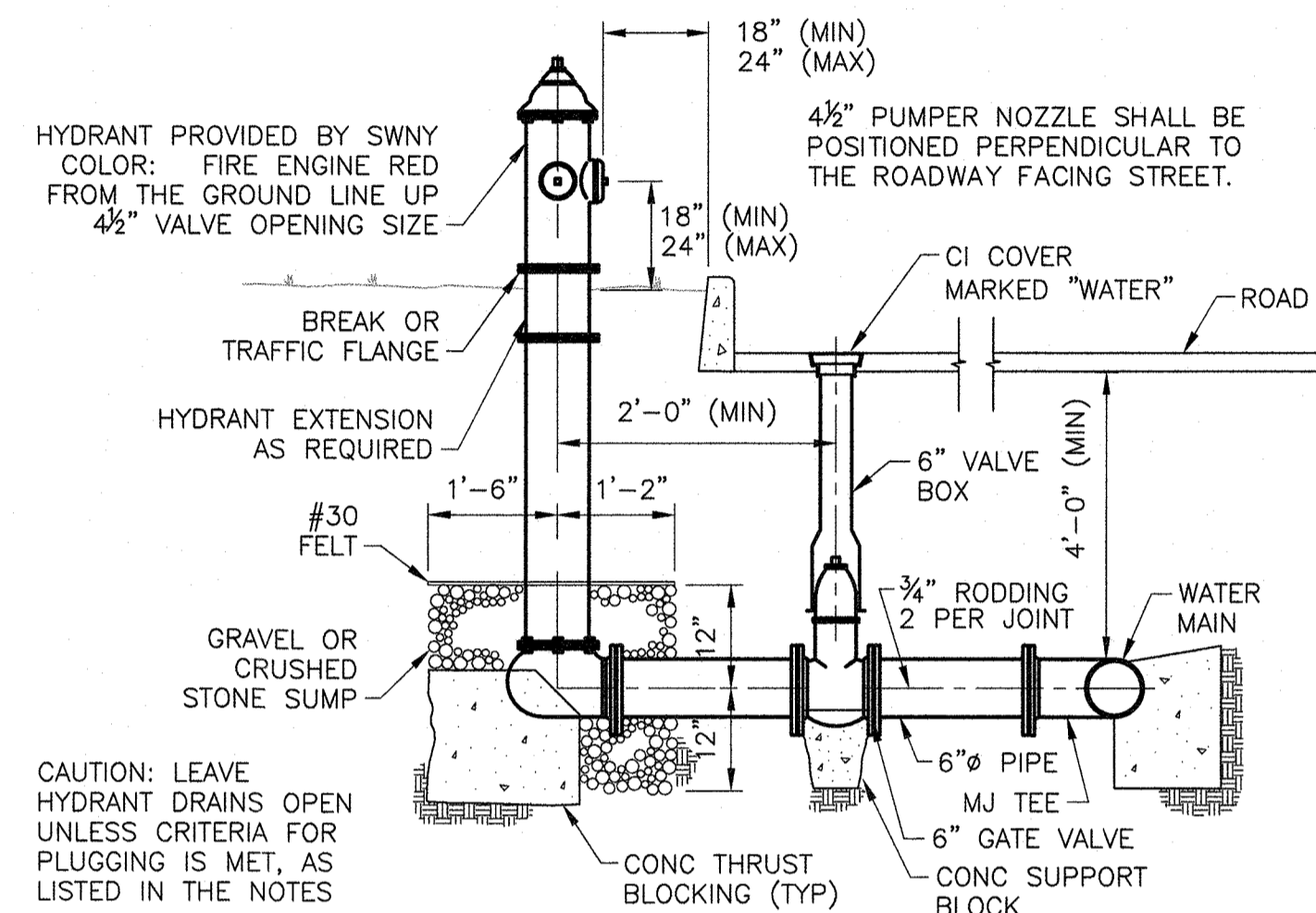
TRENCH (TOWN ROAD) NOTES:

- TRIM LOOSE EDGES OF PAVEMENT BETWEEN COURSES. BROOM AND TACK COAT ALL EDGES WITH EMULSIFIER.
- WHERE CONCRETE BASE COURSE IS IDENTIFIED, IT WILL BE REPLACED WITH CLASS A CONCRETE (3,000 PSI AT 28 DAYS) TO ITS ORIGINAL DEPTH.
- STEEL PLATES MUST BE MAINTAINED AT ALL TIMES OVER THE TRENCHES UNTIL BACKFILL HAS BEEN COMPLETED; INCLUDING WHEN THE EXCAVATION IS MADE FOR THE CONCRETE PLUG.
- PAY LIMITS FOR PAVEMENT RESTORATION ARE FROM CURB TO CURB.
- ALL EXPOSED EDGES, SUCH AS DRIVEWAYS INTERSECTIONS, ETC. SHALL BE TACK COATED WITH RC-250 TO EXISTING ASPHALT.

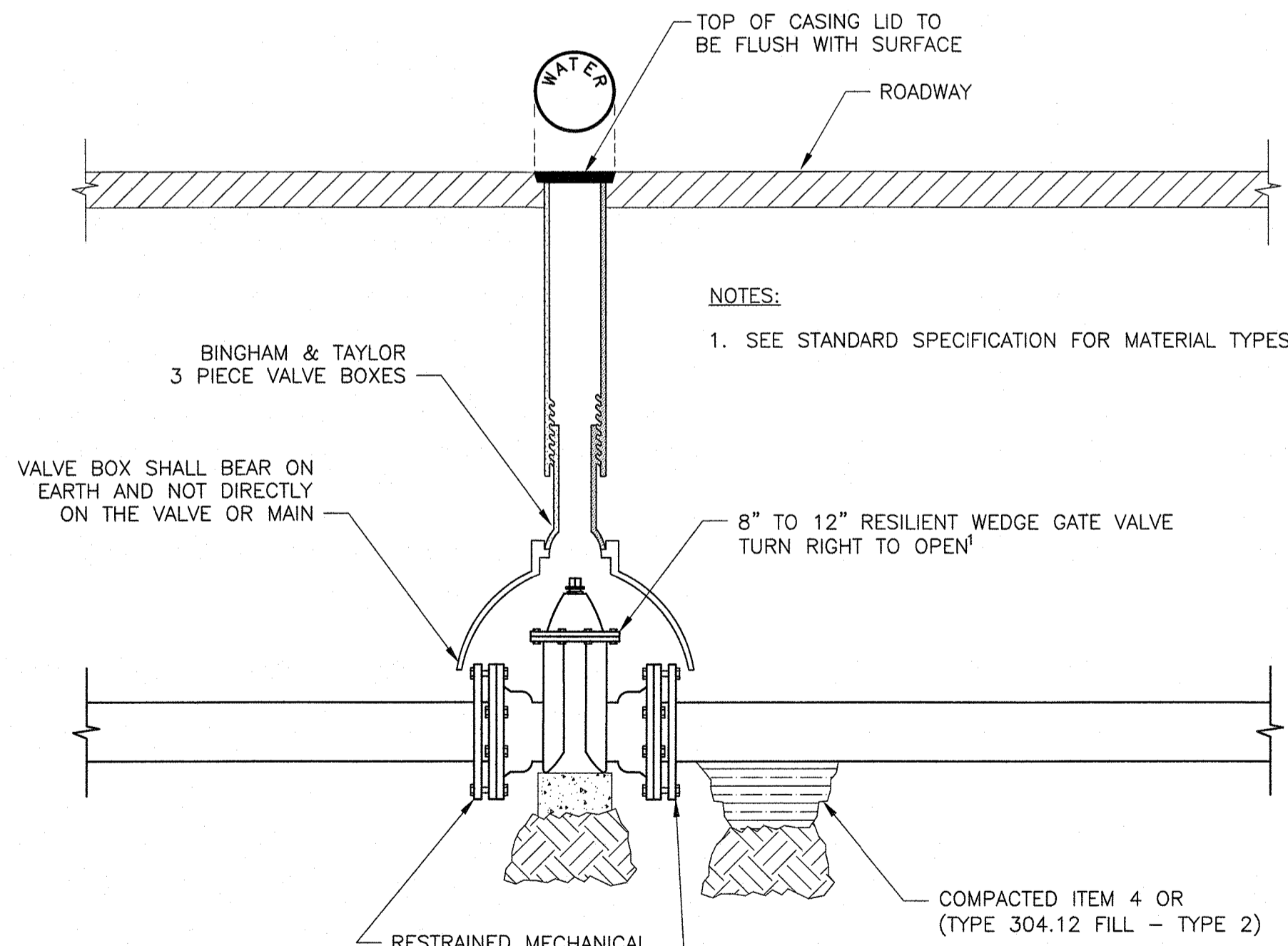
TRENCH (TOWN ROAD)
DETAIL A
NTS



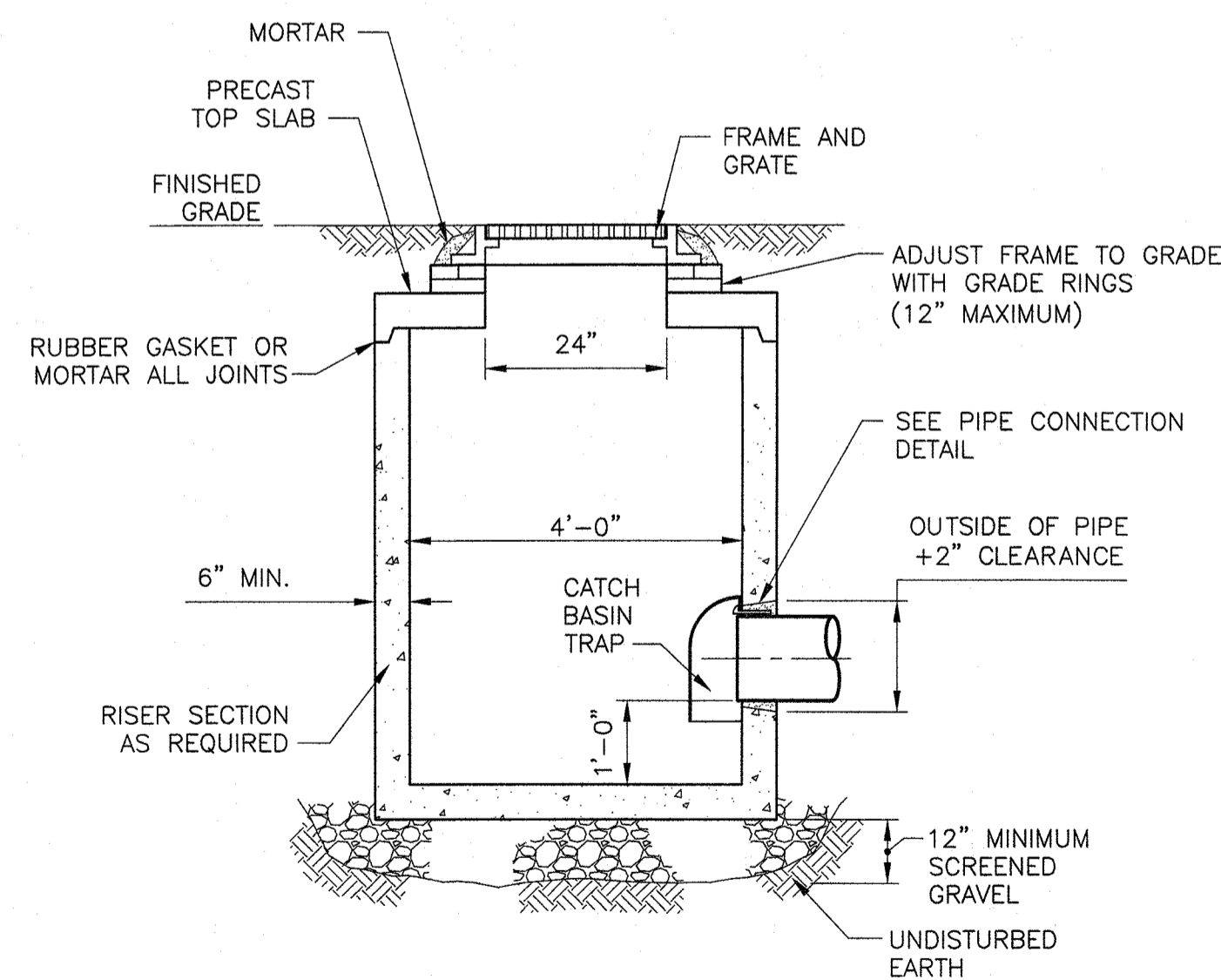
NEW ASPHALT PAVEMENT
DETAIL B
NTS



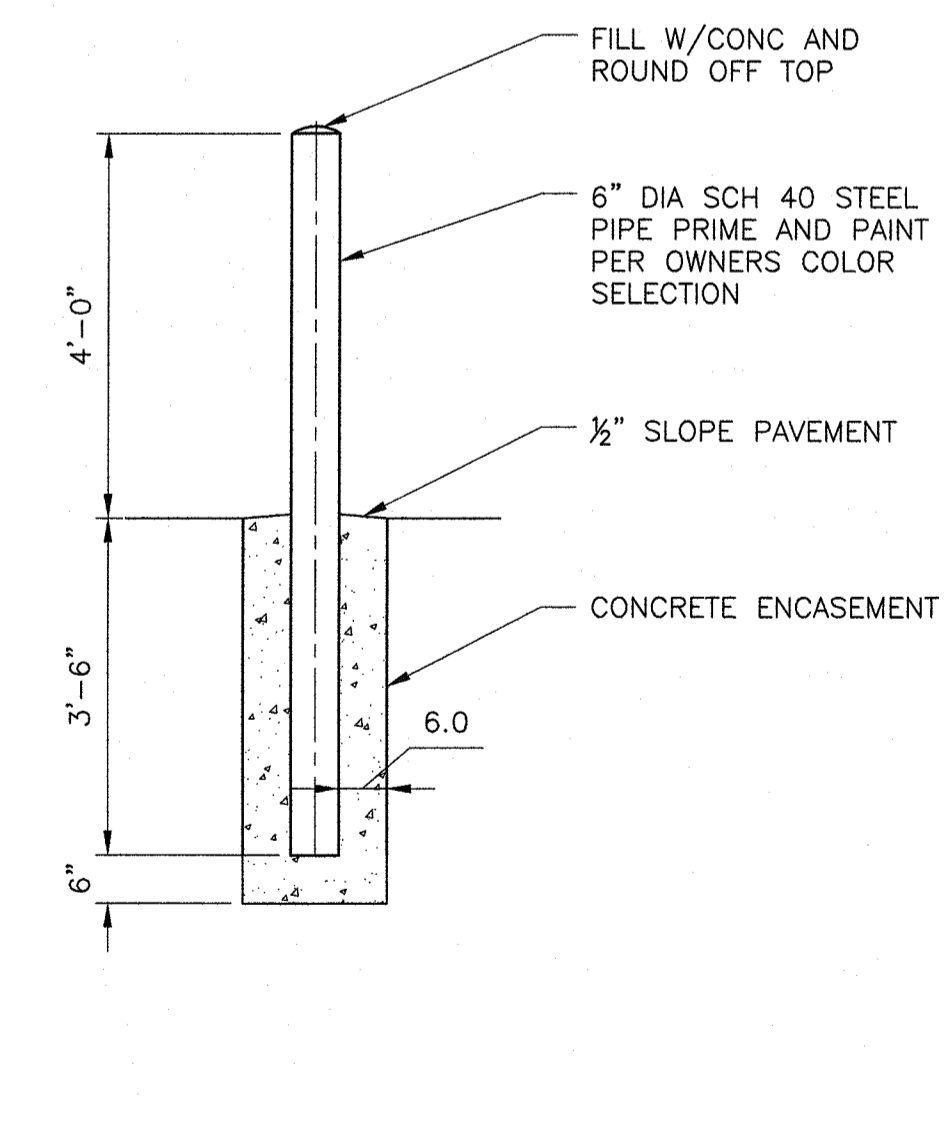
GATE VALVE, VALVE BOX AND FIRE HYDRANT
DETAIL C
NTS



IN-LINE GATE VALVE INSTALLATION
DETAIL D
NTS



PRECAST CATCH BASIN
DETAIL E
NTS



BOLLARD POST
DETAIL G
1/2" = 1'-0"

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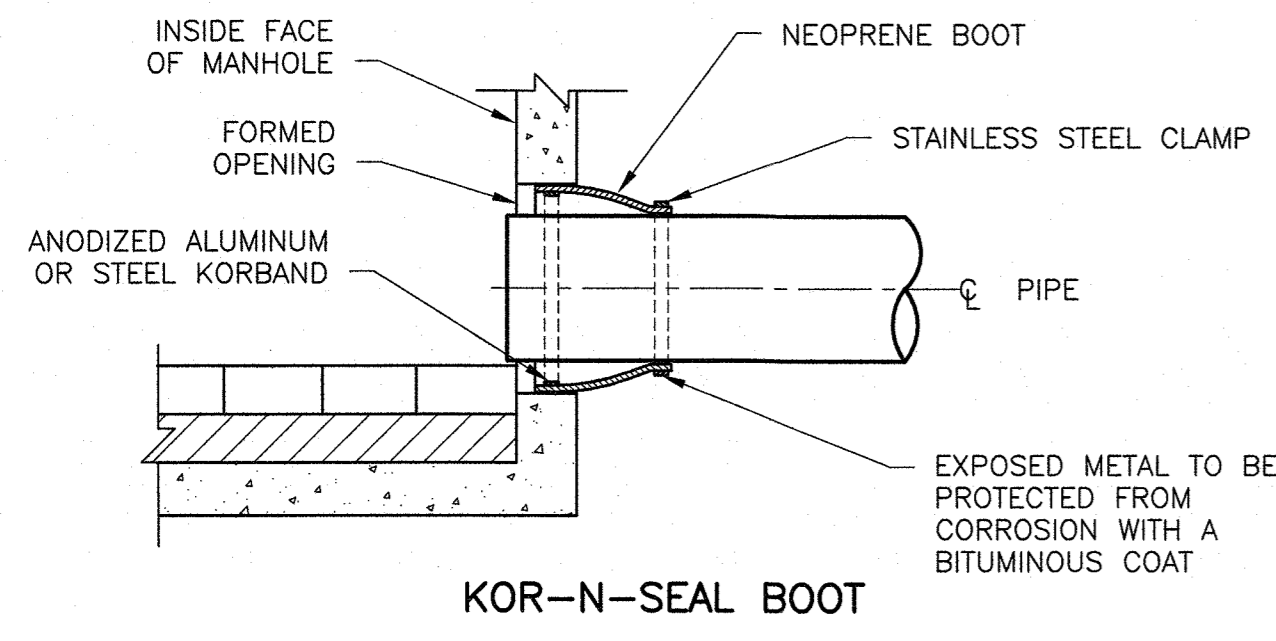
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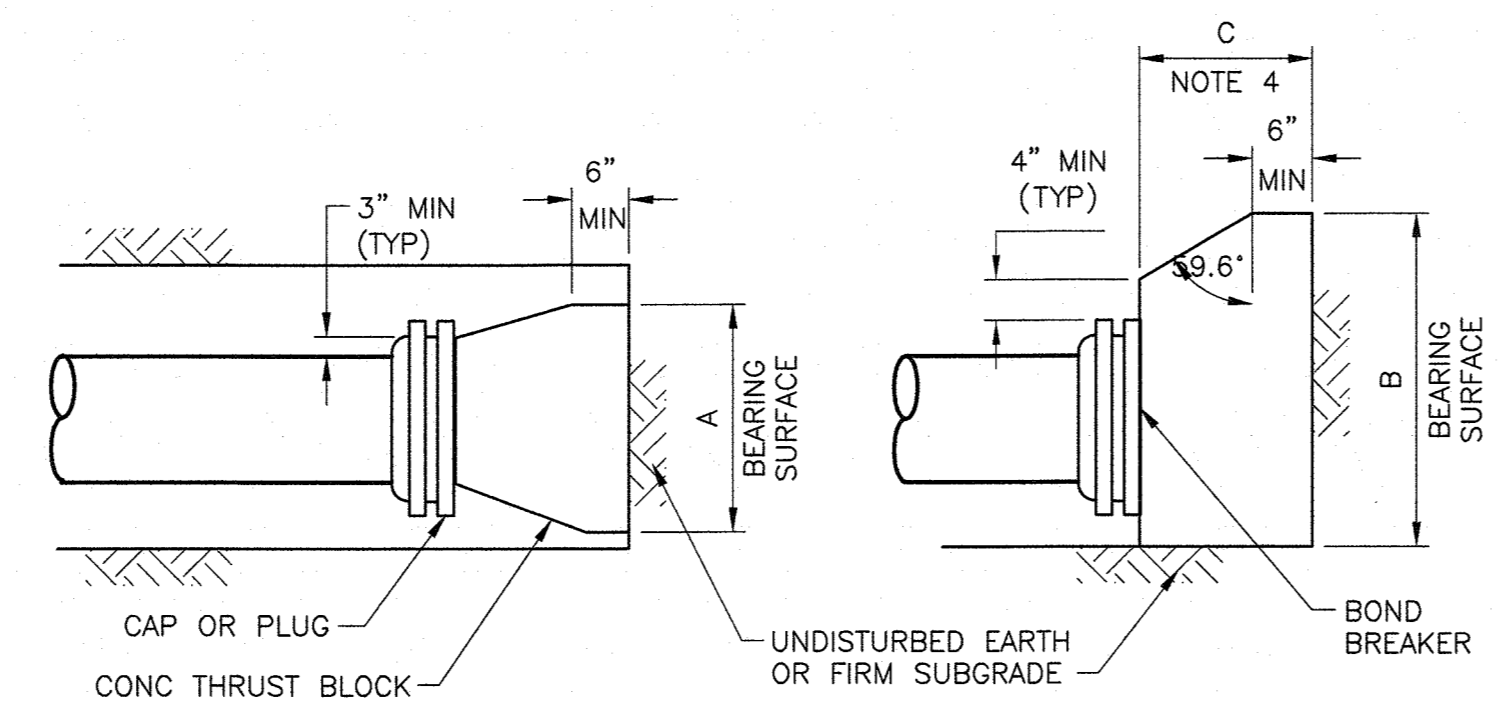
SUEZ WATER NEW YORK
 WEST NYACK, NY
**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 CONTRACT NO. 15806

CIVIL
MISCELLANEOUS SITE DETAILS I

PROJECT NO. 250917-257061
 FILE NAME: C401STD1.DWG
 SHEET NO.
C-401



KOR-N-SEAL BOOT



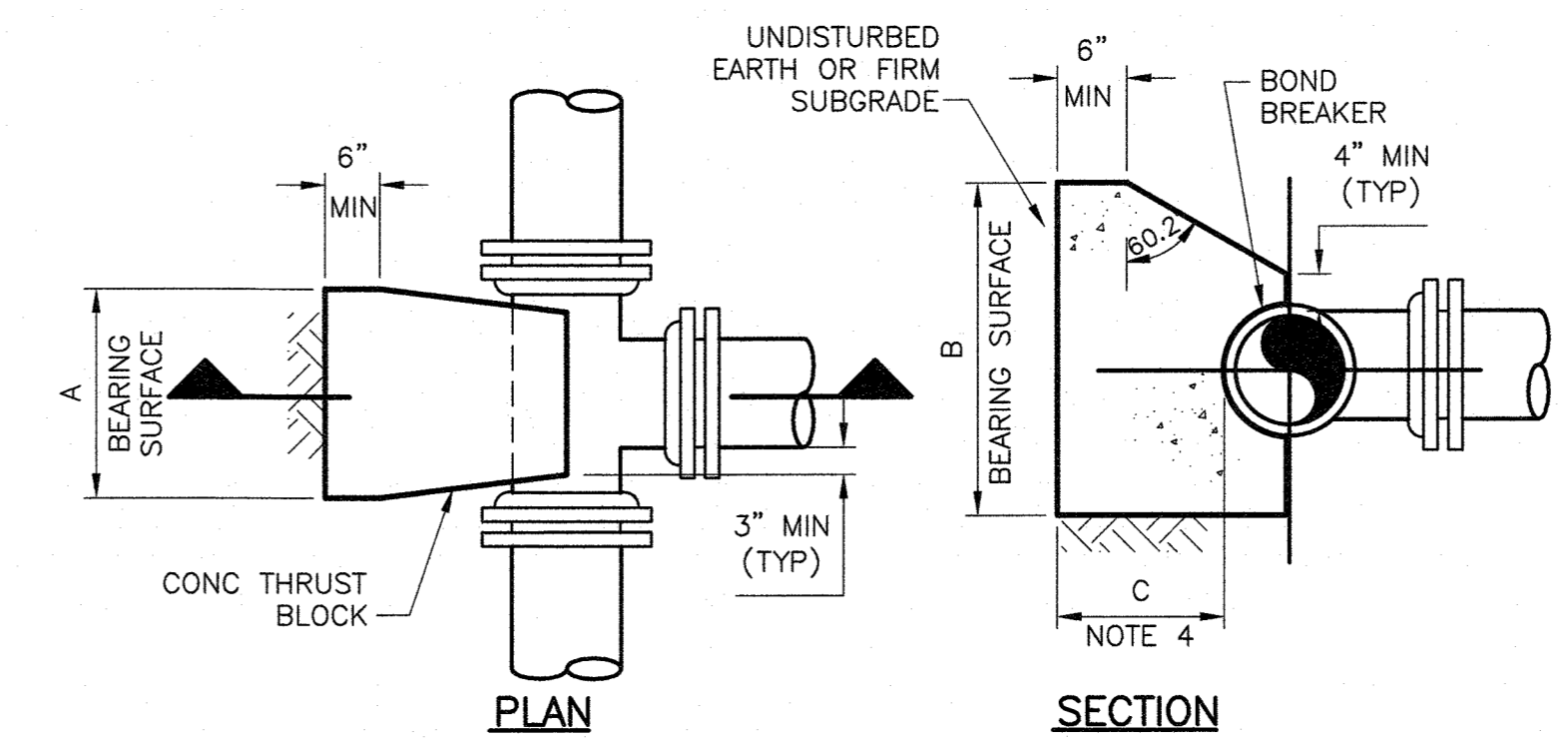
DETAIL FOR CAPS OR PLUGS

NOMINAL CAP PIPE SIZE (IN)	MAXIMUM PIPE OD (IN)	REQUIRED BEARING AREA (SQ FT)
6	6.90	4

- THRUST BLOCK FOR TEES, CAPS AND PLUGS NOTES:**
1. MAXIMUM TEST PRESSURE = 1.50 x 150 PSF
 2. MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
 3. BEARING AREA = A x B
 4. C SHALL BE GREATER THAN A/2 AND B/2.
 5. WHEN POSSIBLE JOINTS TO BE TIED WITH 3 - 3/4" RODS TO RESTRAINER ON STRAIGHT PIPE IN LIEU OF THRUST BLOCKING.

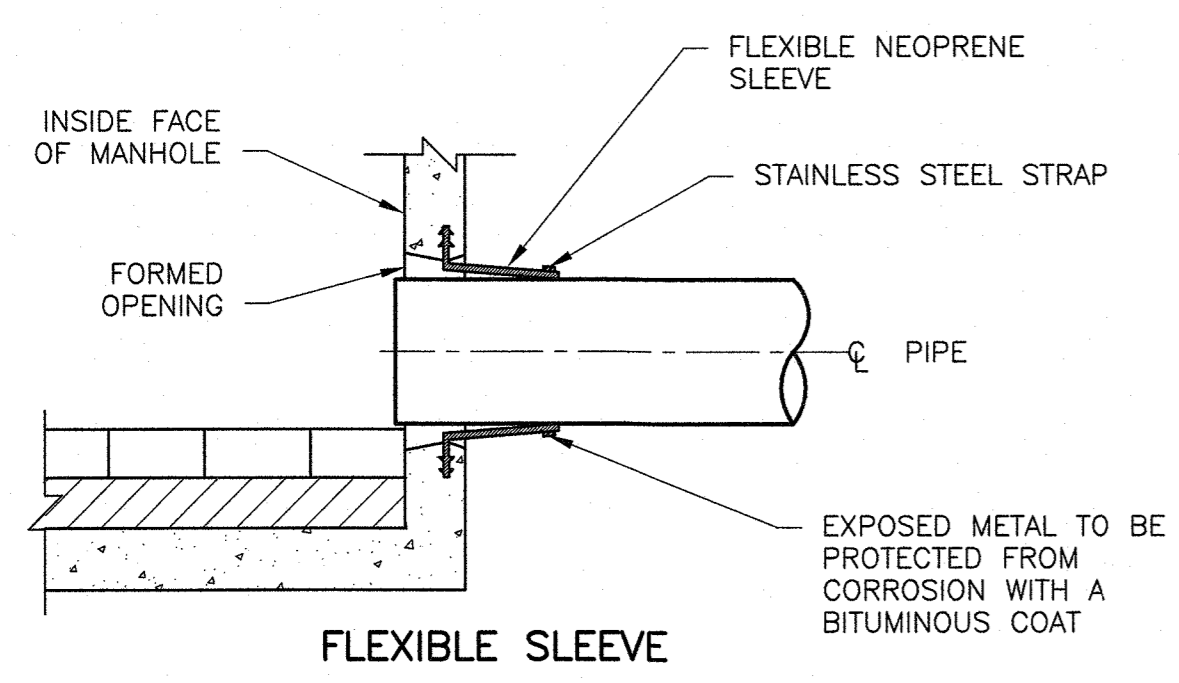
THRUST BLOCK FOR TEES, CAPS AND PLUGS

DETAIL B
NTS



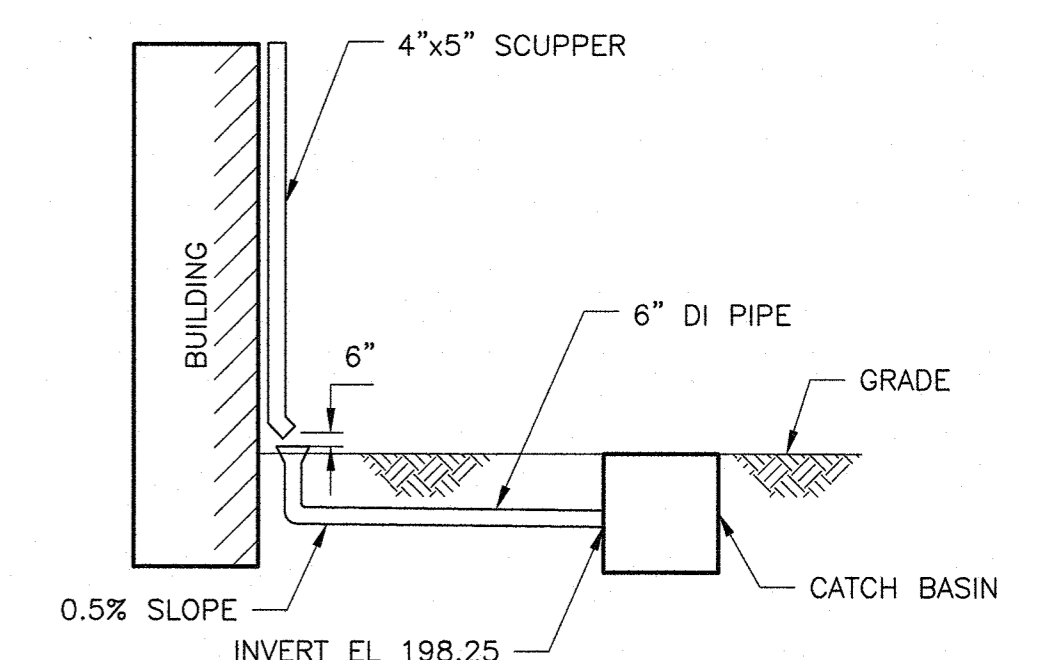
DETAIL FOR TEES

SIZE OF TEE	REQUIRED BEARING AREA (SQ FT)
8"x6"	4.20
12"x6"	4.20



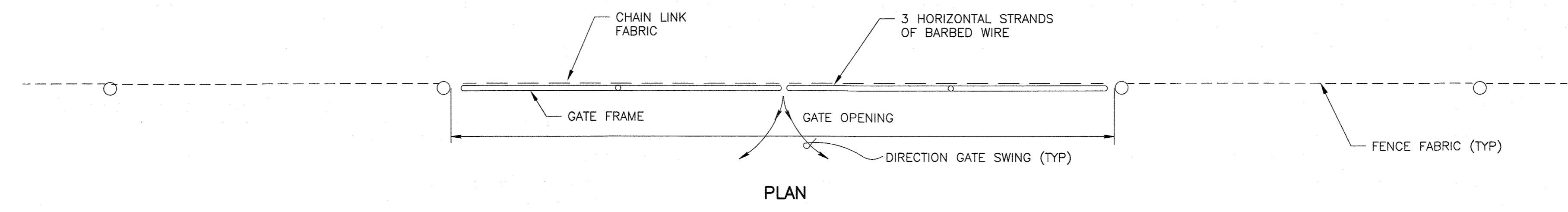
FLEXIBLE SLEEVE

PIPE CONNECTIONS
DETAIL A
NTS

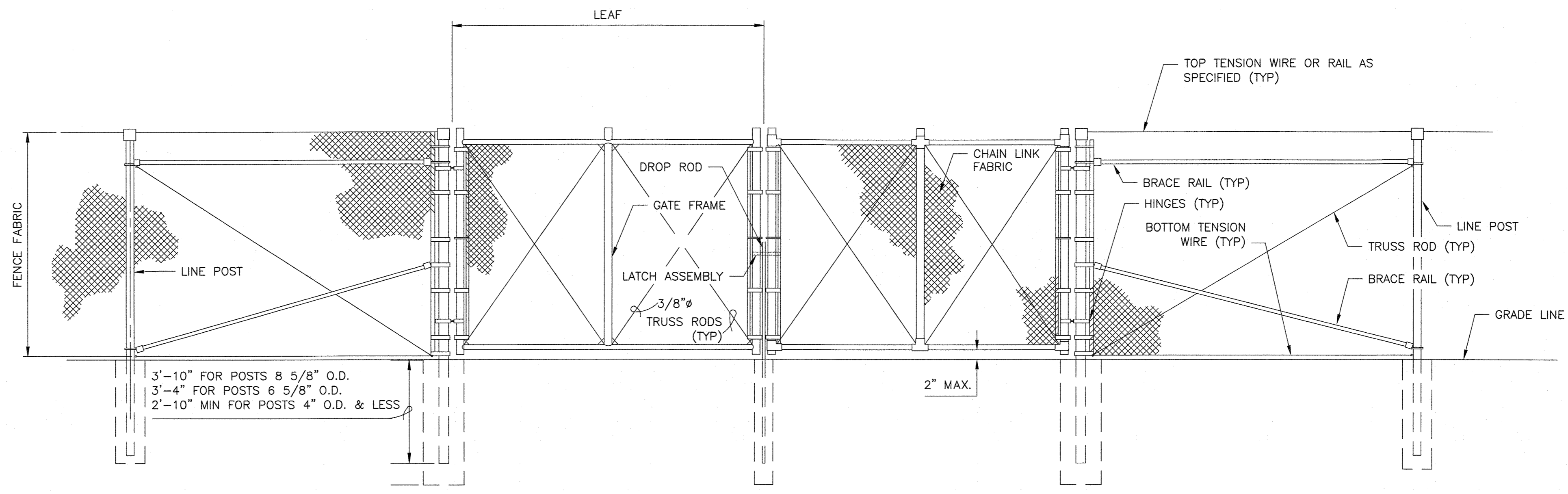


SCUPPER DISCHARGE TO CATCH BASIN

DETAIL E
NTS



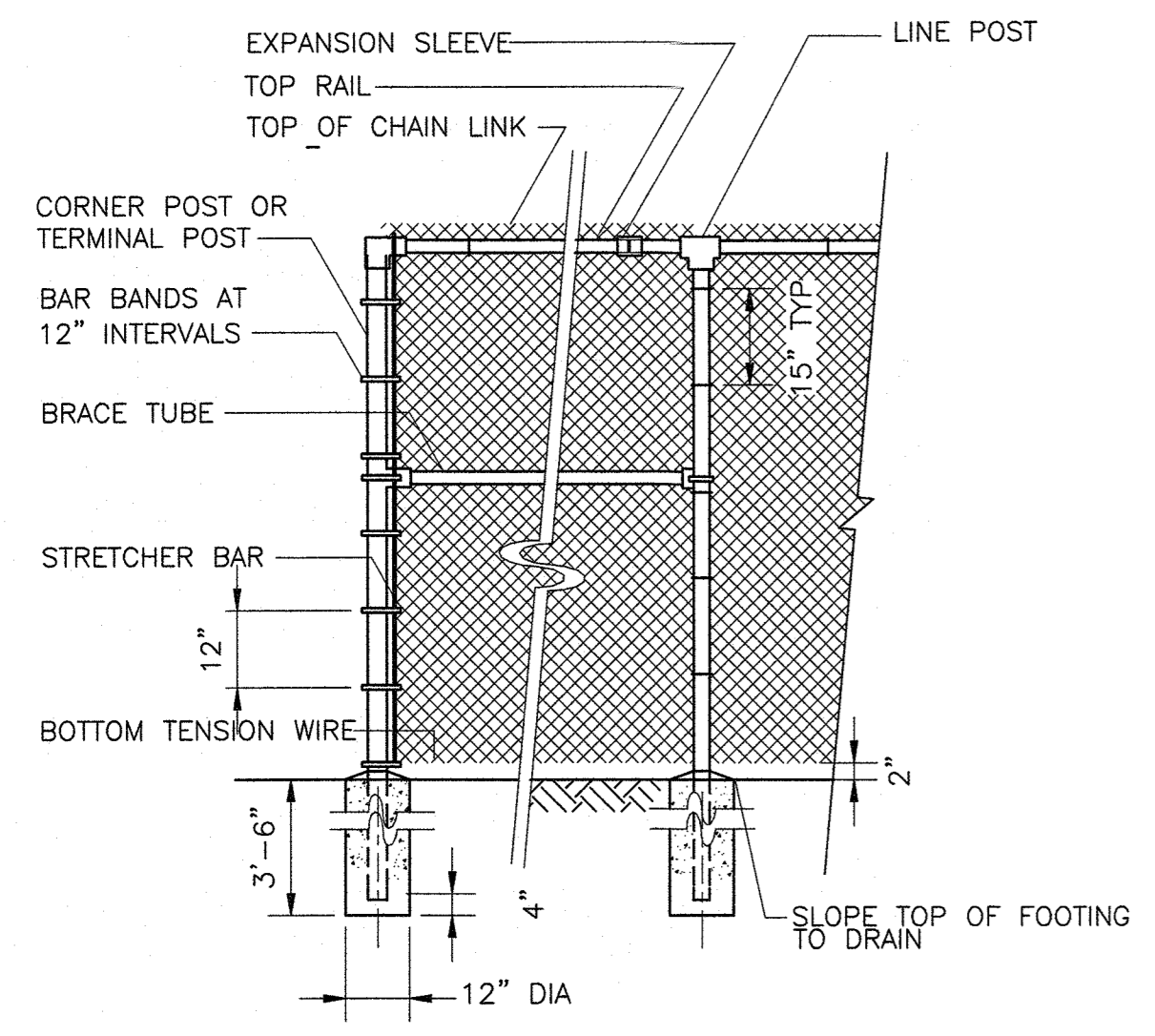
PLAN



ELEVATION

CHAIN LINK FENCE VEHICLE GATE

DETAIL D
NTS



CHAIN LINK FENCE

DETAIL C
NTS

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REV. NO.	DATE	DRWN	CHKD	REMARKS

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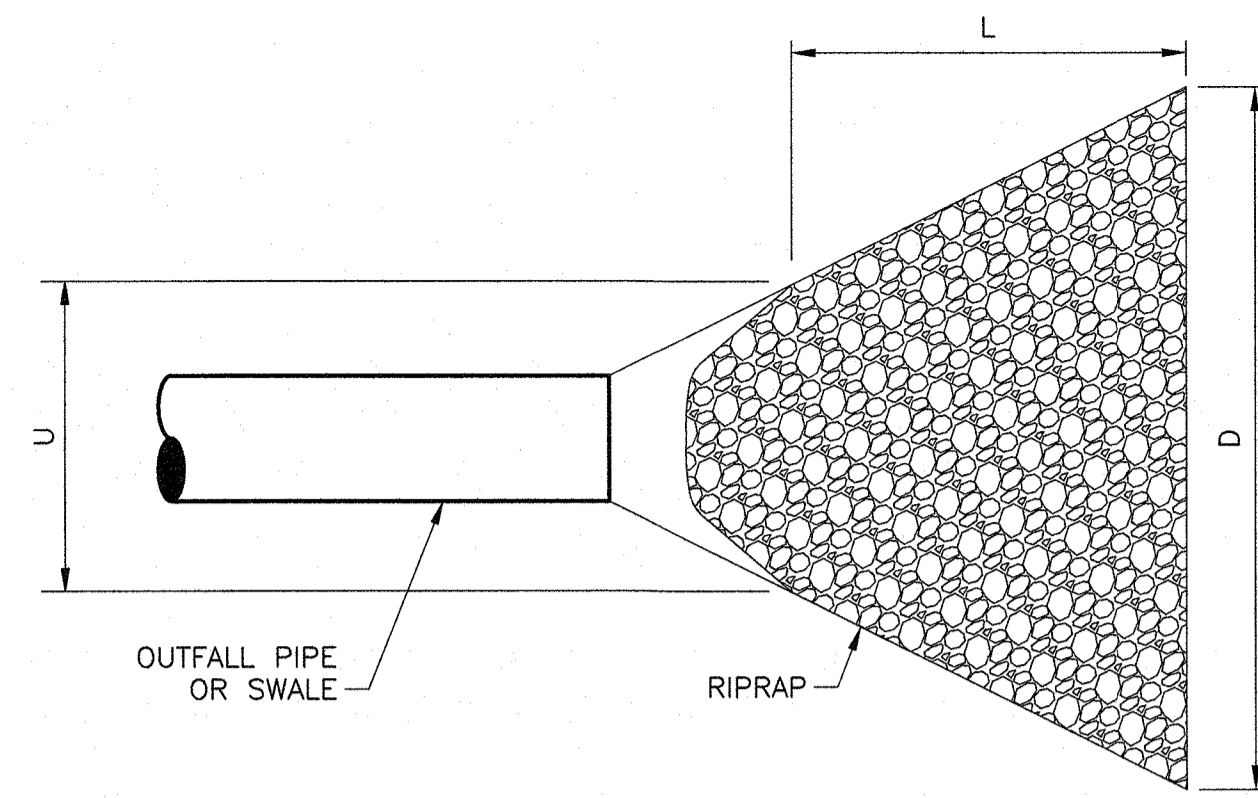
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**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 CONTRACT NO. 15806

CIVIL
MISCELLANEOUS SITE DETAILS II

PROJECT NO. 250917-257061
 FILE NAME: C402STDT.DWG
 SHEET NO.
C-402

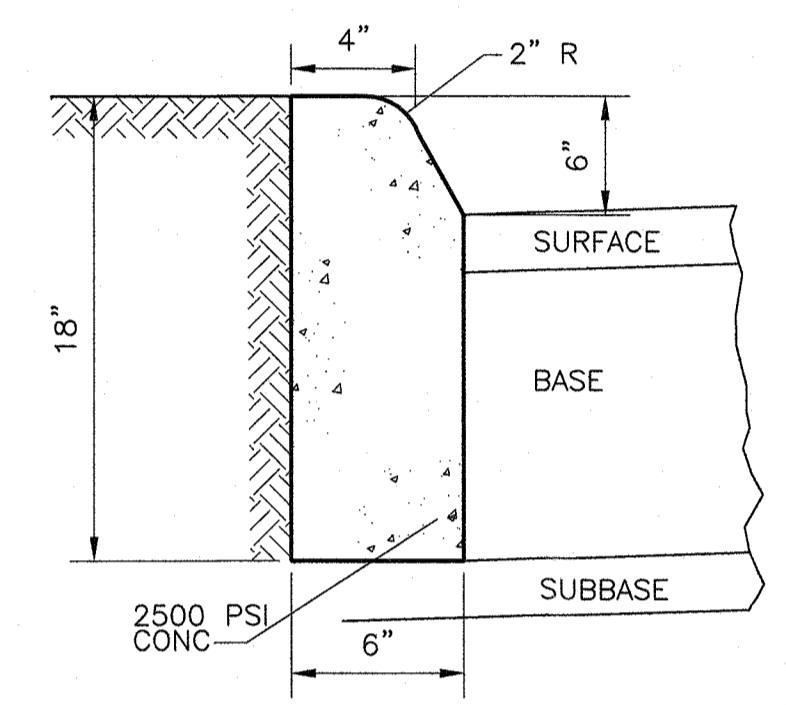
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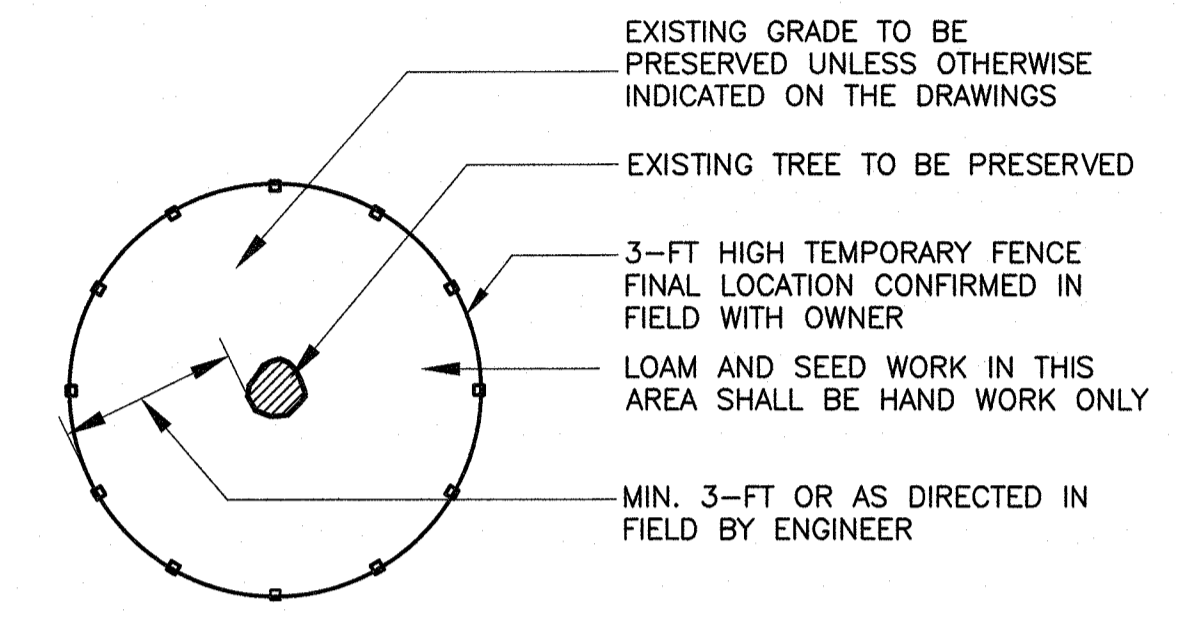
NOTE: PLACE FILTER FABRIC UNDER RIPRAP

OUTFALL NO.	LENGTH L = (FT)	DEPTH (IN)	UPSTREAM WIDTH = (FT) U	DOWNSTREAM WIDTH (FT) D = d ₅₀	(IN)	d _{max} (IN)
NEW HEMPSTEAD	4	6	1.5	4.5	3	4
TAPPAN	6	6	1.5	6.5	3	4
VIOLA	4	6	1.5	4.5	3	4
FLOOR DRAINS (ALL SITES)	2	6	1.0	2.0	3	4

RIPRAP APRON
 DETAIL A
 NTS



STANDARD CURB
 DETAIL B
 NTS



NOTES:
 1. FENCING SHALL BE INSTALLED AROUND PERIMETER OF EXISTING TREE TO BE PROTECTED AS SHOWN ON PLANS.
 2. FENCING SHALL REMAIN IN PLACE AND BE MAINTAINED THROUGHOUT CONSTRUCTION AND THEN REMOVED COMPLETELY AS DIRECTED BY OWNER TO COMPLETE LOAMING AND SEEDING ACTIVITIES.

TREE PROTECTION
 DETAIL C
 NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS

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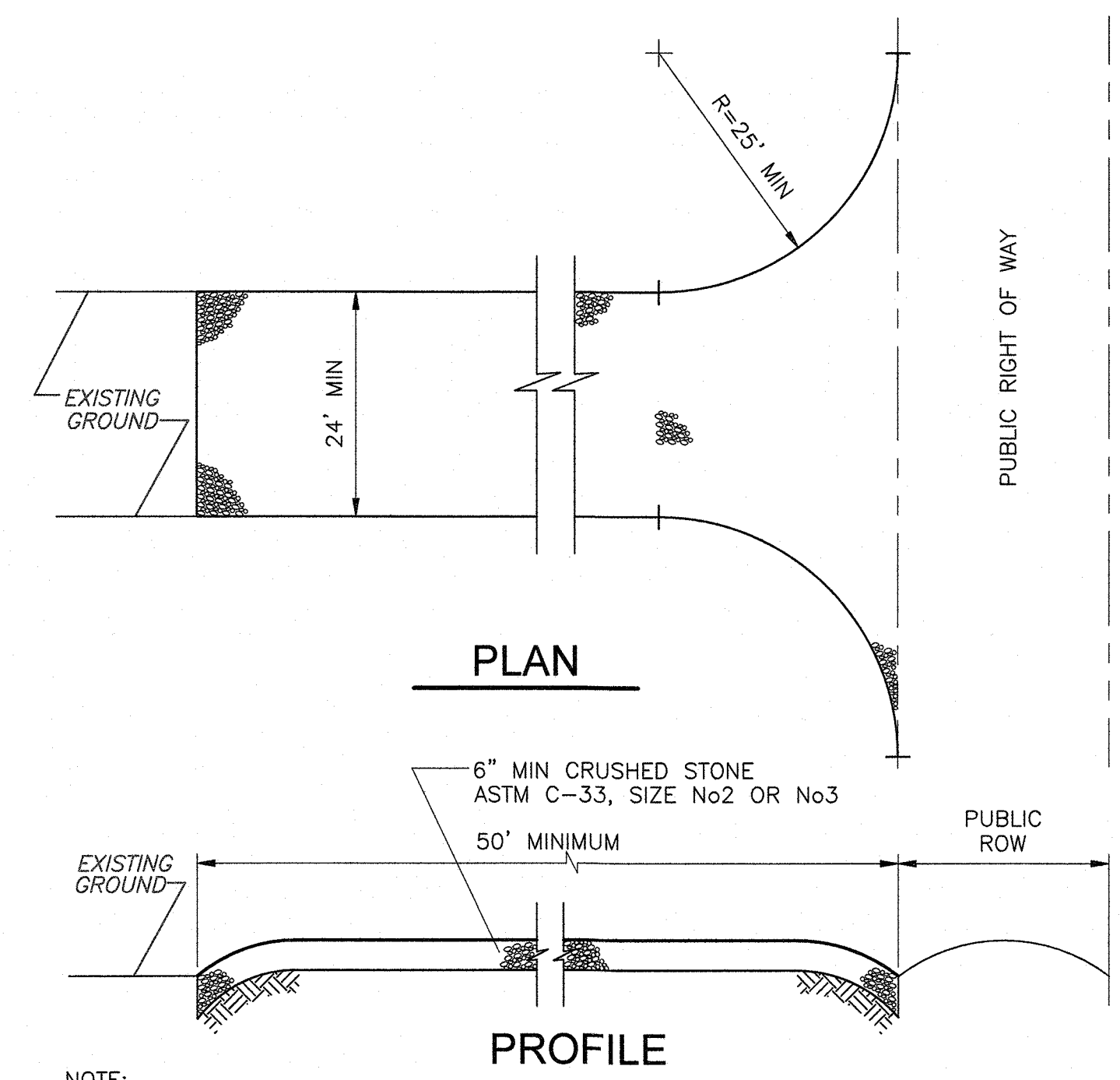
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 GROUNDWATER WELLS PROJECT B
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CIVIL
 MISCELLANEOUS SITE DETAILS III

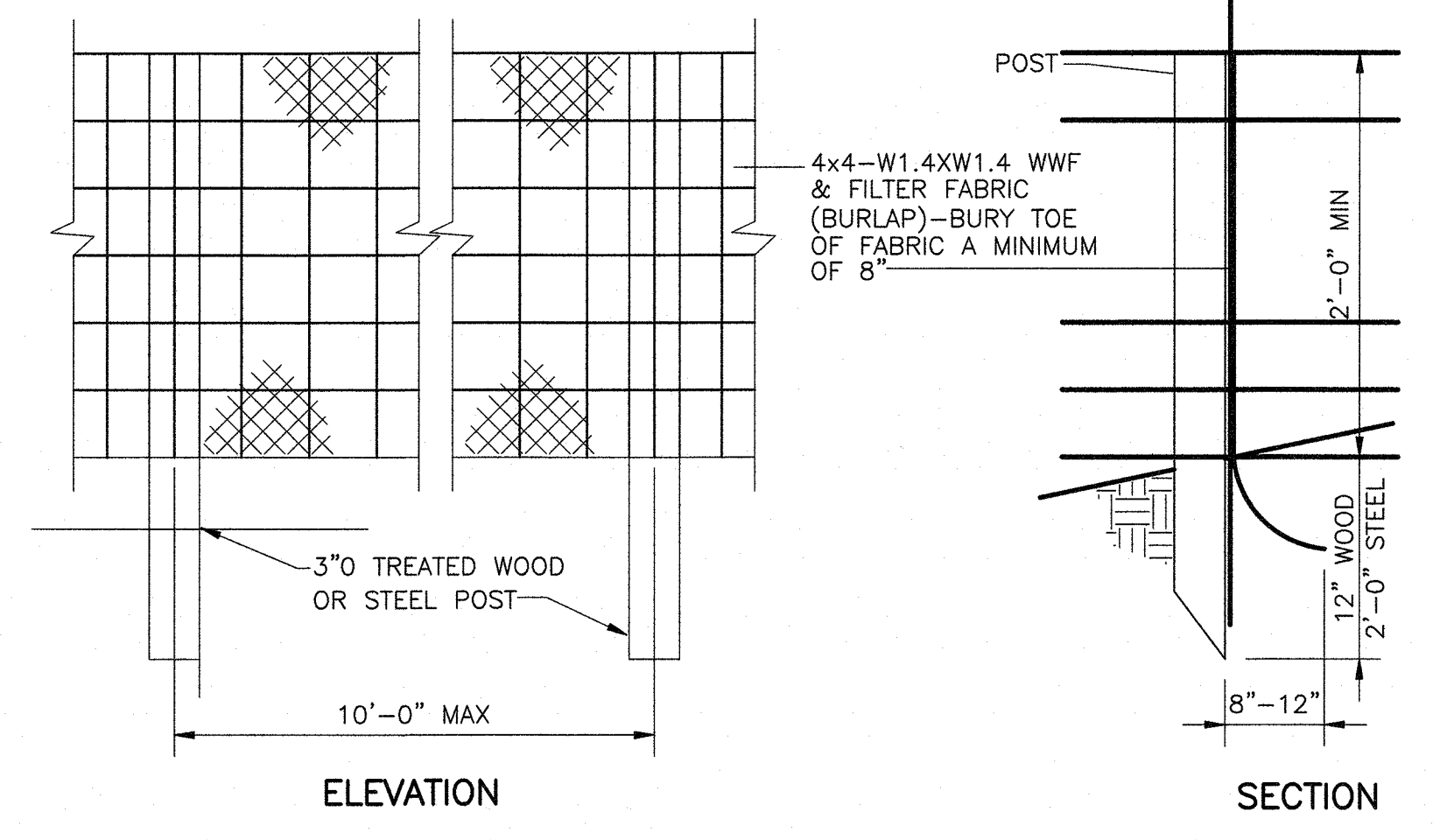
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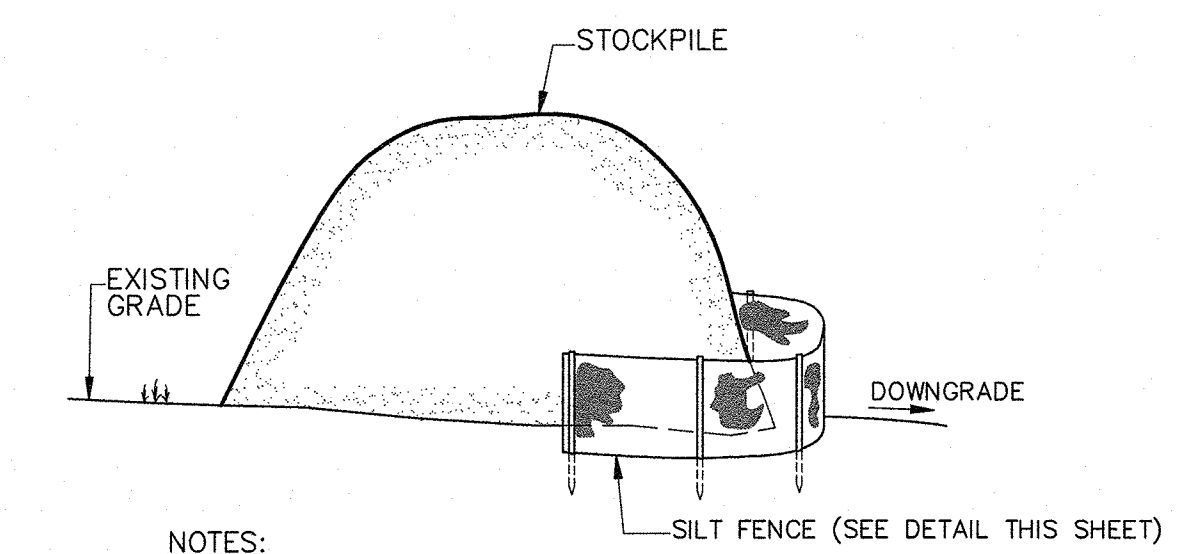


NOTE:
 PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT-OF-WAY
 THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY

STABILIZED CONSTRUCTION ENTRANCE
DETAIL A
 NTS

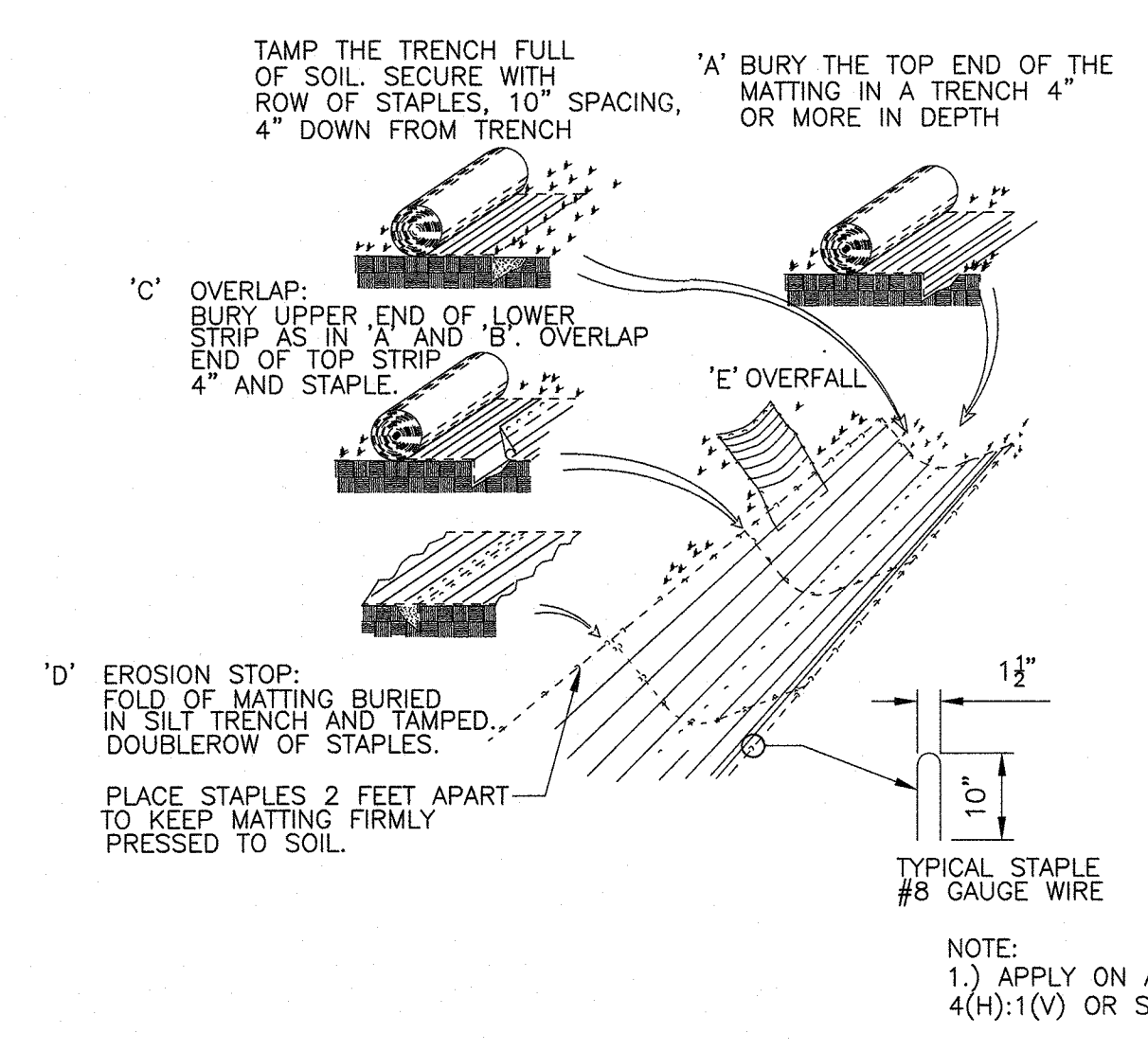


SILT FENCE
DETAIL B
 NTS

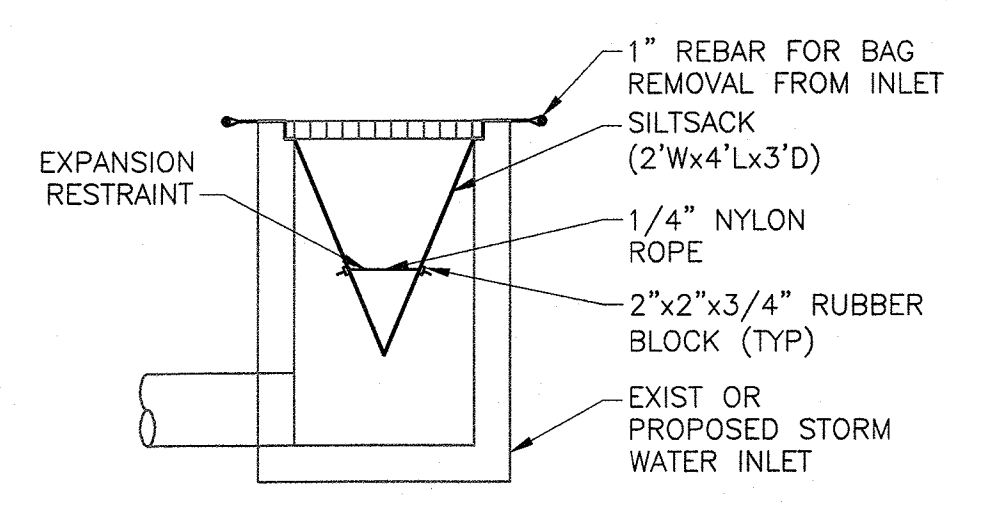


NOTES:
 1. CLEAN SOIL SHALL BE SEEDED IMMEDIATELY AFTER STOCKPILING.

TEMPORARY STOCK PILE
DETAIL C
 NTS



EROSION BLANKET
DETAIL D
 NTS



INLET SEDIMENT CONTROL DEVICE NOTE:

1. GEOTEXTILE SEDIMENT COLLECTION SACKS OR BAGS THAT ARE MADE TO FIT INSIDE A STORM INLET MAY BE USED FOR STORM INLET PROTECTION. THE GEOTEXTILE SHOULD BE ABLE TO TRAP FINE SAND OR LARGER SEDIMENT. WHEN INSTALLED, THE GEOTEXTILE SACKS OR BAGS SHOULD BE SECURELY HELD IN THE STORM INLET AND THE INLET GRATE SHOULD BE IN PLACE. THE ITEMS NEEDED FOR REMOVAL OF THE GEOTEXTILE SACKS OR BAGS SHOULD BE PROVIDED AND THE SACKS OR BAGS SHOULD BE REMOVED AND CLEANED OUT OR REPLACED BEFORE THEY BECOME 1/3 FULL OF SEDIMENT. GEOTEXTILE SEDIMENT COLLECTION DEVICES MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. BERMS MAY BE NECESSARY TO DIRECT WATER INTO INLET AND TO PREVENT SEDIMENT LADEN WATER FROM BYPASSING THE INLET SEDIMENT CONTROL DEVICE.

INLET SEDIMENT CONTROL DEVICE
DETAIL E
 NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. ROSENTHAL
 DRAWN BY: R. HAINES
 SHEET CHK'D BY: D. ROSENTHAL
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SUEZ WATER NEW YORK
 WEST NYACK, NY
**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 CONTRACT NO. 15806

**CIVIL
 SEDIMENTATION AND EROSION DETAILS**

PROJECT NO. 250917-257061
 FILE NAME: C404STDT.DWG
 SHEET NO.
C-404

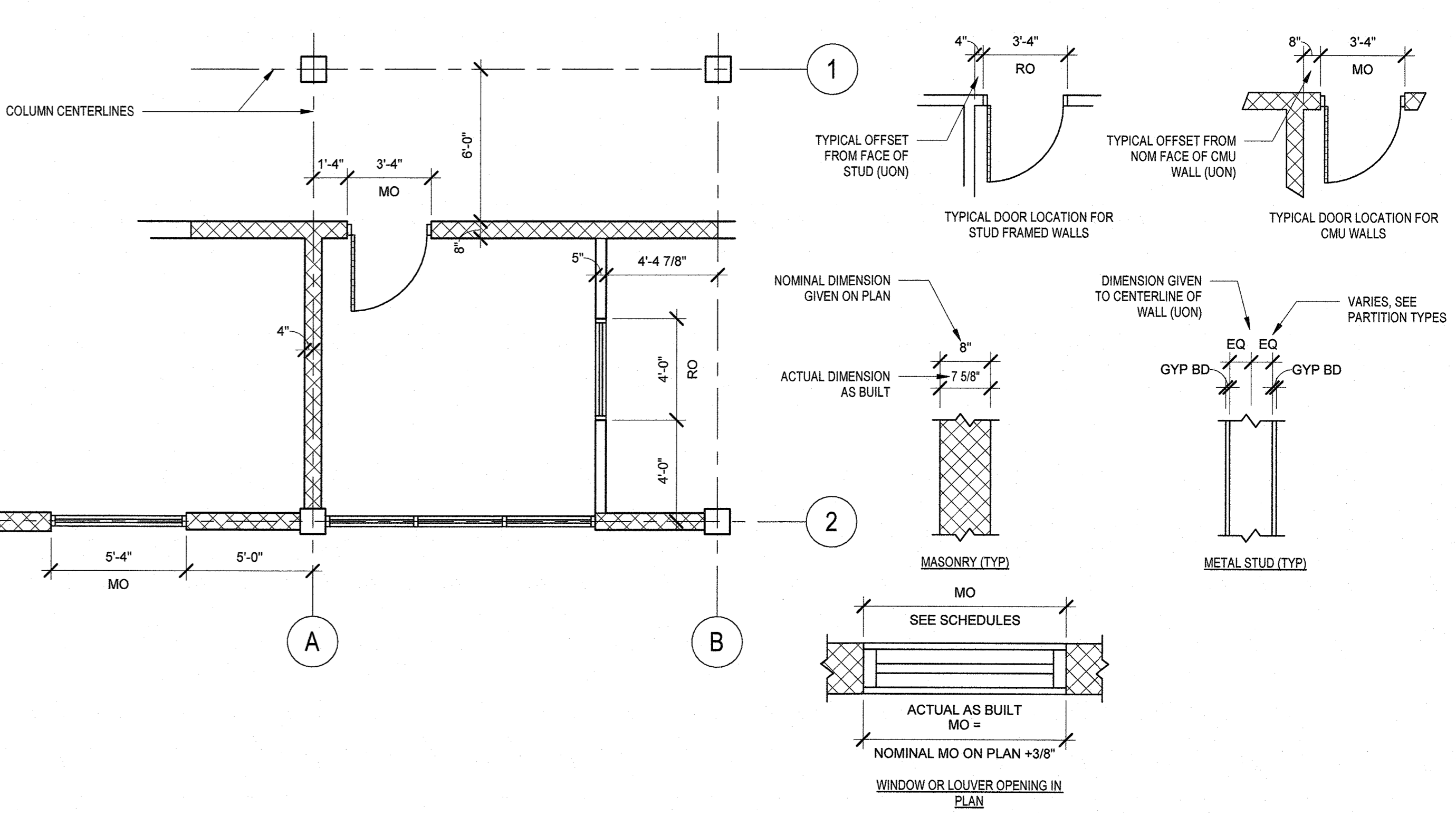
ABBREVIATIONS

&	AND	GB	GLASS BLOCK	REF	ROOF EXHAUST FAN
<	ANGLE	GRT	GRATING	REINF	REINFORCE (D, ING)
@	ANCHOR BOLT	GYP	GYPSUM	REQ'D	REQUIRED
AB	ABOVE	GWB	GYPSUM WALL BOARD	REV	REVISED
ACMU	ACOUSTICAL CONCRETE MASONRY UNIT	HARD	HARDENER	RF	ROOF FAN
AFF	ABOVE FINISHED FLOOR	HD	HEAVY DUTY	RFNG	ROOFING
AFG	ABOVE FINISHED GRADE	HDWD	HARDWOOD	RGH	ROUGH
AL, ALUM	ALUMINUM	HDWR	HARDWARE	RJ	REVEAL/RUSTICATION JOINT
AMP	ACOUSTICAL METAL PANELS	HGR	HANGER	RL	RAIN LEADER
ANOD	ANODIZE(D)	HGT	HEIGHT	RLG	RAILING
ASSY	ASSEMBLY	HM	HOLLOW METAL	RM	ROOM
BBT	BIBOBASED TILE	HOR	HORIZONTAL	RO	ROUGH OPENING
BD	BOARD	HP	HIGH POINT	RT	RUBBER TILE
BEV	BEVEL(ED)	HR	HANDRAIL	RWL	RAIN WATER LEADER
BLDG	BUILDING	IN	INCH	S	STEEL S-SHAPED DESIGNATION
BLK	BLOCK	INST	INSTRUMENTATION	SAT	SUSPENDED ACOUSTICAL TILE
BLKG	BLOCKING	INSUL	INSULATION	SB	SEAMLESS BASE
BRG	BEARING	JC	JANITOR'S CLOSET	SCHD	SCHEDULE
BRK	BRICK	JT	JOINT	SCRN	SCREEN(ED, ING)
BRS	BRASS	JT FLR	JOINT FILLER	SECT	SECTION
BRZ	BRONZE	L	LINE OF STRUCTURAL ANGLE DESIGNATION	SF	SEAMLESS FLOORING
BTM	BOTTOM	LAB	LABORATORY	SGFT	STRUCTURAL GLAZED FACING TILE
C TO C	CENTER TO CENTER	LAD	LADDER	SHT	SHEET
CAB	CABINET	LAM	LAMINATED	SIM	SIMILAR
CEM	CEMENT	LAV	LAVATORY	SK	SINK
CF	COMPRESSIBLE FILLER	LG	LAMINATED GLASS	SL	SLOPE
CGFB	CEMENTITIOUS GLASS FIBER BOARD	LINO	LINOLEUM	SLNT	SEALANT
CH	CONCRETE HARDENER	LKR	LOCKER	SPEC	SPECIFICATION SPECIFIED
CHAM	CHAMFER	LNTL	LINTEL	SST	STAINLESS STEEL
CHAN	CHANNEL	LP	LOW POINT	STD	STANDARD
CIP	CAST IN PLACE	LT	LIGHT(S)	STL	STEEL
CJ	CONTROL JOINT	MAS	MASONRY	STOR	STORAGE
CL OR C	CENTERLINE	MATL	MATERIAL	STRU	STRUCTURE(S, URAL)
CLG	CEILING	MAX	MAXIMUM	STWY	STAIRWAY
CLKG	CAULKING	MEMB	MEMBRANE	SUPT	SUPERPENDENT
CMU	CONCRETE MASONRY UNIT	MFR	MANUFACTURER	SUSP	SUSPENDED
COL	COLUMN	MIN	MINIMUM	TREAD(S)	TREAD(S)
COMP	COMPRESSIBLE	MISC	MISCELLANEOUS	TBM	TRAFFIC BEARING MEMBRANE
CONC	CONCRETE	MO	MOISTURE RESISTANT	T&G	TONGUE AND GROOVE
CONT	CONTINUOUS	MR	MOISTURE RESISTANT	TEMP	TEMPERATURE
CRPT	CARPET, CARPET TILE	MRAT	MOISTURE RESISTANT ACOUSTICAL TILE	TEMP	TEMPERED
CRS	COURSE(S)	MTD	MOUNTED	TEMP	TEMPORARY
CT	CERAMIC TILE	MTG	MOUNTING	TER	TERRAZZO
CET	DETAIL	MTL	METAL	TERB	TERRAZZO BASE
DIA	DIAMETER	NIC	NOT IN CONTRACT	THK	THICKNESS
DIAG	DIAGONAL	NOM	NOMINAL	THR	THRESHOLD
DIM	DIMENSION	NTS	NOT TO SCALE	TKBD	TACKBOARD
DISP	DISPENSER	OC	ON CENTER	TOB	TOP OF BRICK
DN	DOWN	OH	OVERHANG	TOC	TOP OF CONCRETE
DP	DAMP-PROOFING	OPNG	OPENING	TOIL	TOILET
DR	DRAIN	OPP HD	OPPOSITE HAND	TOM	TOP OF MASONRY
ELEC	ELECTRICAL	ORD	OVERFLOW ROOF DRAIN	TOPG	TOPPING
ELEV	ELEVATION	OSB	ORIENTED STRAND BOARD	TOS	TOP OF STEEL
EQ	EQUAL(LY)	OV	OVER	TS	TOP OF SLAB
EQPT	EQUIPMENT	OVHD	OVERHEAD	TSL	TOP OF SLAB
EWC	ELECTRICAL WATER COOLER	PERIM	PERIMETER	TWF	THROUGH WALL FLASHING
EXP	EXPOSED	PL	PROPERTY LINE	TYP	TYPICAL
EX	EXISTING	PLAS	PLASTER	UC	UNDERCUT
EXIST. (E)	EXISTING	PLK	PLANK	UON	UNLESS OTHERWISE NOTED
FD	FLOOR DRAIN	PLYWD	PLYWOOD	URNL	URNAL
FE	FIRE EXTINGUISHER	PM	PRESSED METAL	VB	VAPOR BARRIER
FF	FACTORY FINISH	PR	PAIR	VCT	VINYL COMPOSITE TILE
FGL	FIBERGLASS	PRD	PROMENADE ROOF DRAIN	VERT	VERTICAL
FIN	FINISH(ED)	PRCST	PRECAST	VEST	VESTIBULE
FLG	FLASHING	PREFAB	PRE-FABRICATED	VTR	VENT THRU ROOF
FL	FLOOR(ING)	PT	PRESSURE TREATED	W	WITH
FLR	FILLER	PRMLD	PREMOLDED	W/A	WHERE APPLICABLE
FR	FRAME	PSP	POUNDS PER SQUARE FOOT	W/O	WITHOUT
FRP	FIBERGLASS REINFORCED PLASTIC	PTD	PAINTED	WC	WATER CLOSET
FO	FRAME OPENING	QT	QUARRY TILE	WD	WOOD
FV	FIELD VERIFY	QTB	QUARRY TILE BASE	WDW	WINDOW
FXD	FIXED	R	RISER(S)	WF	WIDE FLANGE
GA	GAGE, GAUGE	R+S	BACKER ROD & SEALANT	WPG	WATERPROOFING
GALV	GALVANIZED	RB	RUBBER BASE	WT	STEEL TEE-SHAPE DESIGNATION
GL	GLASS	RD	ROOF DRAIN	WWF	WELDED WIRE FABRIC
		RECT	RECEPTACLE		

LINE TYPES

- CONTINUOUS - NEW CONSTRUCTION
- - - DASHED ON CONSTRUCTION PLAN/SHEETS - HIDDEN ELEMENTS BEYOND, ABOVE OR BELOW

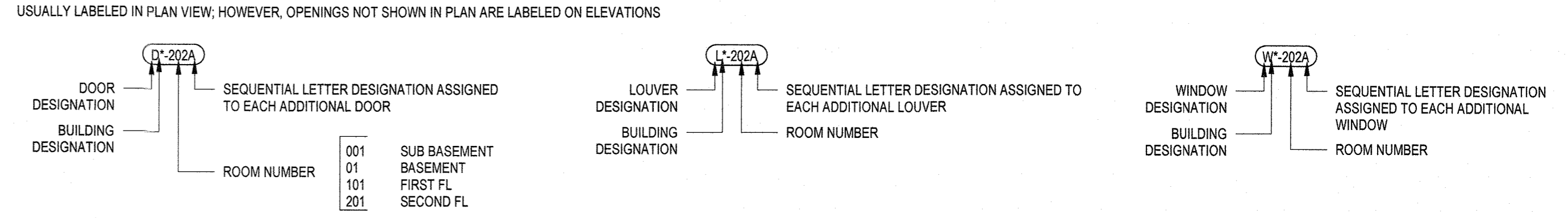
DIMENSIONING SYSTEM



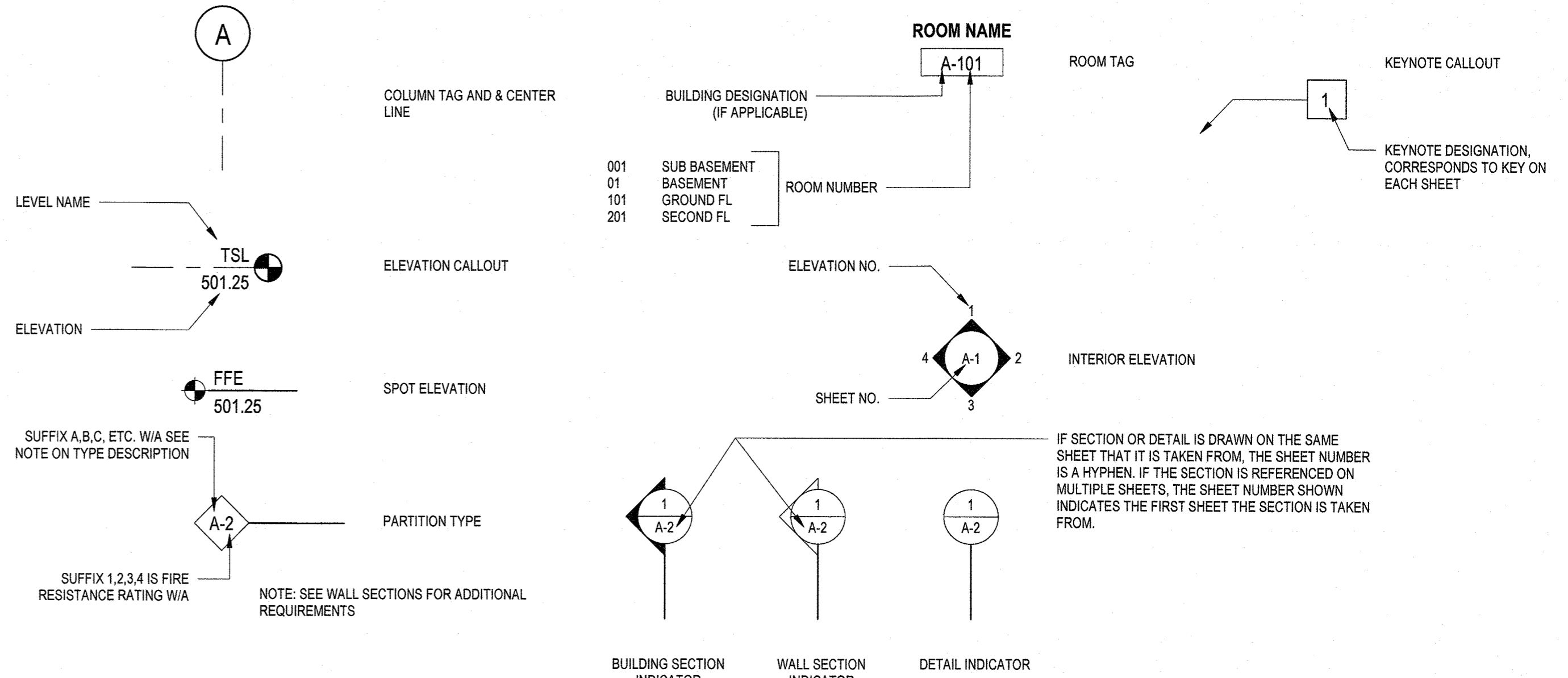
MATERIAL SYMBOLS

	EARTH		GRAVEL		BRICK		CONCRETE MASONRY UNIT (CMU)
	PRECAST CONCRETE		CAST-IN-PLACE CONCRETE		WOOD BLOCKING		WOOD FINISH
	PLYWOOD		RIGID INSULATION		BLANKET INSULATION		STEEL
	ALUMINUM		STUCCO / GROUT		CAULK		

OPENINGS



SYMBOLS



GENERAL NOTES

- NOT ALL EQUIPMENT IS SHOWN FOR CLARITY. REFER TO THE APPROPRIATE DISCIPLINE SHEETS FOR SPECIFIC EQUIPMENT LAYOUT AND OTHER REQUIREMENTS.
- SEE CIVIL SHEETS FOR SIDEWALK, ROAD PAVING AND FINISH GRADE ELEVATIONS.
- SEE STRUCTURAL SHEETS FOR SIZE AND LOCATION OF CONCRETE PADS, TRENCHES, VAULTS, SUMPS, ETC.
- SEE STRUCTURAL SHEETS FOR CONCRETE AND MASONRY REINFORCEMENT.
- PRE-ENGINEERED METAL BUILDING (PEMB) IS A DELEGATED DESIGN ITEM, AND AS SUCH, THE MANUFACTURER SHALL PROVIDE SHOP DRAWINGS OF PEMB MAJOR AND MINOR STRUCTURE, ROOF & WALL CLADDING, ROOF INSULATION, AND ALL ASSOCIATED ATTACHMENTS AND ACCESSORIES SIGNED & SEALED BY A NYS LICENSED ENGINEER FOR EOR REVIEW & APPROVAL. THE ARCHITECTURAL DESIGN DRAWINGS SHOW PEMB ELEMENTS FOR REFERENCE & COORDINATION ONLY.
- PATCH AND REPAIR ANY MATERIALS OR SURFACES DAMAGED DURING THE CONSTRUCTION PROCESS TO MATCH THE EXISTING ADJACENT SURFACES.
- ALL ITEMS TO BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL JOINTS, VOIDS AND PENETRATIONS THROUGH FIRE-RATED WALL SYSTEMS ARE TO BE FILLED/SEALED WITH UL APPROVED FIRESAFING/FIRESTOPPING MATERIALS TO ACHIEVE THE REQUIRED FIRE-RATING (REFER TO CODE DRAWINGS FOR LOCATIONS).
- DO NOT SCALE FROM THE DRAWINGS.
- NOTIFY ARCHITECT IF CONSTRUCTION DOCUMENTS DIFFER FROM ACTUAL FIELD CONDITIONS PRIOR TO FABRICATION OR NEW CONSTRUCTION.
- THIS DRAWING CONTAINS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS. NOT ALL ITEMS SHOWN HERE APPEAR ON THE CONTRACT DRAWINGS.

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 DRAWN BY: HK
 SHEET CHK'D BY:
 CROSS CHK'D BY:
 APPROVED BY: KS
 DATE: JULY 2021

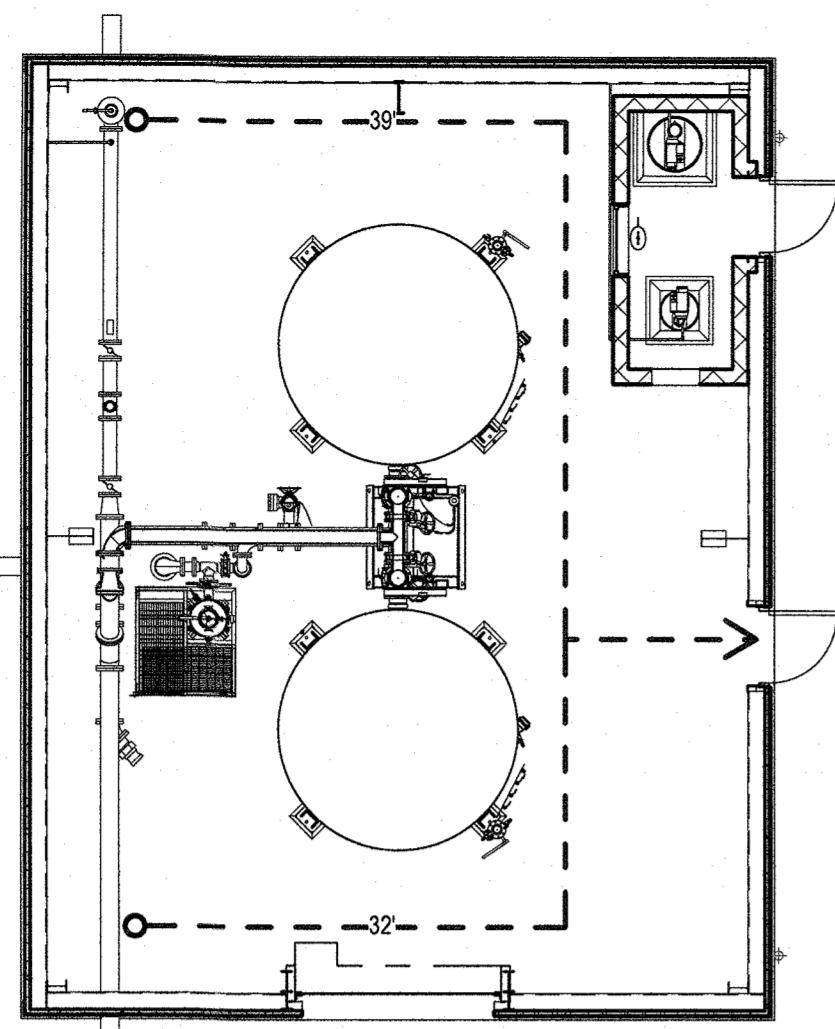
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MACAN DEVE

SUEZ WATER NEW YORK INC.
 WEST NYACK, NY
**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 AGREEMENT NO. 15806

ARCHITECTURAL
**GENERAL NOTES
 ABBREVIATIONS AND SYMBOLS**

PROJECT NO. 250917-257061
 FILE NAME:
 SHEET NO.
A-001



EGRESS PLAN
1/8" = 1'-0"

GOVERNING CODES AND STANDARDS

- The new building is subject to all applicable Federal, State, and Local Codes and Standards including, but not limited to the following:
 - 2020 Building Code of New York State (2020 NYBC; adopts with amendments 2018 IBC)
 - 2020 Fire Code of NYS (2020 NYSFC; adopts with amendments 2018 IFC)
 - 2020 New York State Energy Conservation Code (2020 NYSECC; adopts with amendments 2018 IECC)
 - National Fire Protection Association Life Safety Code (NFPA 101)
 - Underwriters Laboratory Inc.
 - Factory Mutual Approval
- OSHA exists to ensure safe and healthful working conditions for workers by setting and enforcing standards and by providing training, outreach, education, and assistance. OSHA is part of the United States Department of Labor. Work areas of the new building are subject to the current version of the standards:
- OSHA 29 CFR 1910-Occupational Safety and Health Standards
- SUEZ Water New York Policies and Procedures
 - THE PROPOSED BUILDINGS SHALL HAVE AN OCCUPANCY CLASSIFICATION OF U - UTILITY, IN ACCORDANCE WITH THE 2020 NYBC.

APPLICABLE STANDARDS

- INTERNATIONAL BUILDING CODE 2018
- NYS 2020 UNIFORM CODE
- NYS 2020 ENERGY CODE ANSI A117.1-2009
- NFPA 70-2014 (NATIONAL ELECTRICAL CODE)
- ACI-318-2014

Code Compliance Summary SWNY PFAS Compliance Project B New York State Building Code			
NS=BUILDING NOT SPRINKLERED, NA=NOT APPLICABLE, HR=HOURS, [F]=FIRE CODE REQUIREMENT ALSO, OL=OCCUPANCY LOAD, MAX=MAXIMUM, MIN=MINIMUM, SF=SQUARE FOOT, GSF=GROSS SQUARE FOOT			
CODE ITEM	CODE REFERENCE	PROPOSED GAC BUILDING	
OCCUPANCY CLASSIFICATION AND USE	SECTION 312	GROUP U - UTILITY	
CONSTRUCTION TYPE	TABLE 601	TYPE IIB	
BUILDING HEIGHT AND AREA	SECTION 503 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS ABOVE GRADE PLANE, TABLE 504.3, 504.4, 506.2	ALLOWED	PROPOSED
		2 STORIES 55'-0" HEIGHT 8,500 SF	1 STORY 29'-0" HEIGHT 1,120 SF
FIRE RESISTANCE RATING REQUIREMENTS			
BUILDING ELEMENTS	TABLE 601 FIRE RESISTANCE RATINGS :	FIRE RATING (HOUR)	
		IIB	
	PRIMARY STRUCTURAL FRAME	0	0
	BEARING WALLS (EXTERIOR AND INTERIOR)	0	0
	FLOOR CONSTRUCTION	0	0
	ROOF CONSTRUCTION	0	0
	NON BEARING WALLS (INTERIOR)	0	0
	EXTERIOR WALL TABLE 602 FIRE SEPARATION DISTANCE (FT) 10 < X < 30	0	0
OPENING PROTECTIVES	SECTION 715.4	REQUIRED	PROPOSED
		None	None
SEPARATION OF OCCUPANCIES	TABLE 508.4 (SINGLE OCCUPANCY)	REQUIRED	PROPOSED
		None	None
PARAPETS	SECTION 705.11 EXCEPTIONS 1 : WALLS NOT REQUIRING FIRE RATING PER TABLE 602 FIRE SEPARATION DISTANCE	NOT REQUIRED	PROPOSED
		NO	NO (PROVIDING GUARDRAILS FOR FALL PREVENTION)
PENETRAION	SECTION 713.3.1	REQUIRED	PROPOSED
		NA	NA
MEANS OF EGRESS REQUIREMENTS			
OCCUPANT LOAD	CHAPTER 10 TABLE 1004.1.1. - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT: INDUSTRIAL AREA = 100 GROSS SQUARE FOOT	ALLOWED	PROPOSED ACTUAL
		GROSS FL AREA= 1,120 GSF 1120/100=11.2 ->12 OCCUPANTS	12 OCCUPANTS DURING MAINTENANCE SERVICE ONLY. BUILDING IS NON-OCCUPABLE AND IS UNMANNED.
OPENING PROTECTIVES	1009.1 STAIRWAY WIDTH = 36" WHEN OCCUPANT LOAD < 50	ALLOWED	PROPOSED
	505.5 EQUIPMENT PLATFORMS 22" STAIR WIDTH	YES	YES
	1011.5.2 RISER HEIGHT AND TREAD DEPTH RISER = 7" MAX, TREAD DEPTH = 11" MIN.	YES	YES
STAGE MEANS OF EGRESS	1015.6.1 GALLERY, GRIDIRON AND CATWALK MEANS OF EGRESS, WIDTH = 22" MIN STAIRS DEDICATED FOR ACCESS TO EQUIPMENT IN PITS AND PLATFORMS SHALL BE 22" MIN AND COMPLIANT WITH OSHA 1910 Subpart D REQUIREMENT.	22" MIN	32" MIN
ONE EXIT	TABLE 1021.2 STORIES WITH ON EXIT WHEN OCCUPANT LOAD < 50	YES	YES
EXIT ACCESS TRAVLE DISTANCE	TABLE 1015.1 EXIT ACCESS TRAVEL DISTANCE OCCUPANCY U = 75 FT, NS	YES	YES
DOORS	1008.2 SIZE OF DOORS	REQUIRED	PROPOSED
		32" MIN	36" MIN
CORRIDOR	1018.2 CORRIDOR WIDTH 36" MIN WHEN OCCUPANT LOAD < 50	NA	NA
HANDRAIL	1012.2 HANDRAIL HEIGHT	REQUIRED	PROPOSED
		34" MIN, 38" MAX	34"
GUARDS	1013 GUARDS HEIGHT	REQUIRED	PROPOSED
		42"	42"
ACCESSIBILITY	1103.2.9 EQUIPMENT SPACES SPACES FREQUENTED ONLY BY PERSONNEL FOR MAINTENANCE, REPAIR OR MONITORING OF EQUIPMENT ARE NOT REQUIRED TO BE ACCESSIBLE. SUCH SPACES INCLUDE WATER TREATMENT AREAS.	NO	NO

LIFE SAFETY SYSTEM REQUIREMENTS			
EMERGENCY LIGHTING	SECTION 1006 MEANS OF EGRESS ILLUMINATION 1006.1 ILLUMINATION REQUIRED	ALLOWED YES	PROPOSED YES
EXIT SIGNS	SECTION 1011 1011.1 WHERE REQUIRED	YES	YES
AUTOMATIC SPRINKLERS	903.2.11.1 ABOVE - OR BELOW - GRADE STORIES. OPENINGS ENTIRELY ABOVE THE ADJOINING GROUND LEVEL TOTALING AT LEAST 20 SF IN EACH 50 LINEAR FEET, OR FRACTION THEREOF, OF EXTERIOR WALLS FACING ONTO A STREET, PUBLIC WAY OR FRONTAGE SPACE.	NO	NO
	903.2.11.1.3 BELOW - GRADE STORIES. WHERE ANY PORTION OF A BELOW -GRADE STORY IS LOCATED MORE THAN 75 FEET (22M 860 MM) FROM OPENINGS REQUIRED BY SECTION 903.2.11.1	- OPENINGS PROVIDED PER 903.2.11.1 - NO SPACES BELOW GRADE	
PORTABLE FIRE EXTINGUISHER	SECTION 906	YES	YES
FIRE ALARM	SECTION 907 FIRE ALARM AND DETECTION SYSTEMS OCCUPANCY GROUP U IS NOT LISTED IN THIS CODE SECTION.	NO	NO
PANIC HARDWARE	1008.1.10 PANIC AND FIRE EXIT HARDWARE	NO	NO
STRUCTURAL AND SEISMIC DESIGN LOADS			
SEE STRUCTURAL DRAWINGS			

NEW YORK STATE ENERGY CODE 2020 (EQUIPMENT BUILDING EXCEPTION UNDER EVALUATION)			
CODE REFERENCE	CLIMATE ZONE	REQUIRED	PROPOSED
TABLE C402.1.3	ZONE 5		
ROOF	INSULATED UNDERSIDE OF ROOF DECK	R-19+R11LS	R-19+R11LS
WALLS, ABOVE GRADE	MASS (FIRST 4'), METAL (UPPER)	R-11.4ci, R-13+13ci	R-11.4ci, R-13+13ci
WALLS, BELOW GRADE	BELOW-GRADE WALL	R-7.5 ci	R-7.5 ci
TABLE C402.2 VERTICAL FENESTRATION	ENTRANCE DOOR	U-0.77	U-0.77

C402.1.1 LOW-ENERGY BUILDINGS

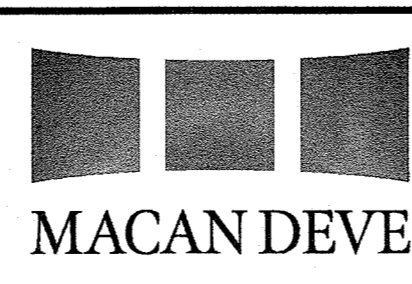
THE FOLLOWING LOW-ENERGY BUILDINGS, OR PORTIONS THEREOF SEPARATED FROM THE REMAINDER OF THE BUILDING BY BUILDING THERMAL ENVELOPE ASSEMBLIES COMPLYING WITH THIS SECTION, SHALL BE EXEMPT FROM THE BUILDING THERMAL ENVELOPE PROVISIONS OF SECTION C402.

- THOSE WITH A PEAK DESIGN RATE OF ENERGY USAGE LESS THAN 3.4 BTU/H * FT2(10.7W/M2) OR 1.0 WATT PER SQUARE FOOT (10.7 W/M2) OF FLOOR AREA FOR SPACE CONDITIONING PURPOSES.
- THOSE THAT DO NOT CONTAIN CONDITIONED SPACE.
- GREENHOUSES.

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DESIGNED BY: JL	DRWN	CHKD	REMARKS
DRAWN BY: HK			
SHEET CHKD BY:			
CROSS CHKD BY:			
APPROVED BY: KS			
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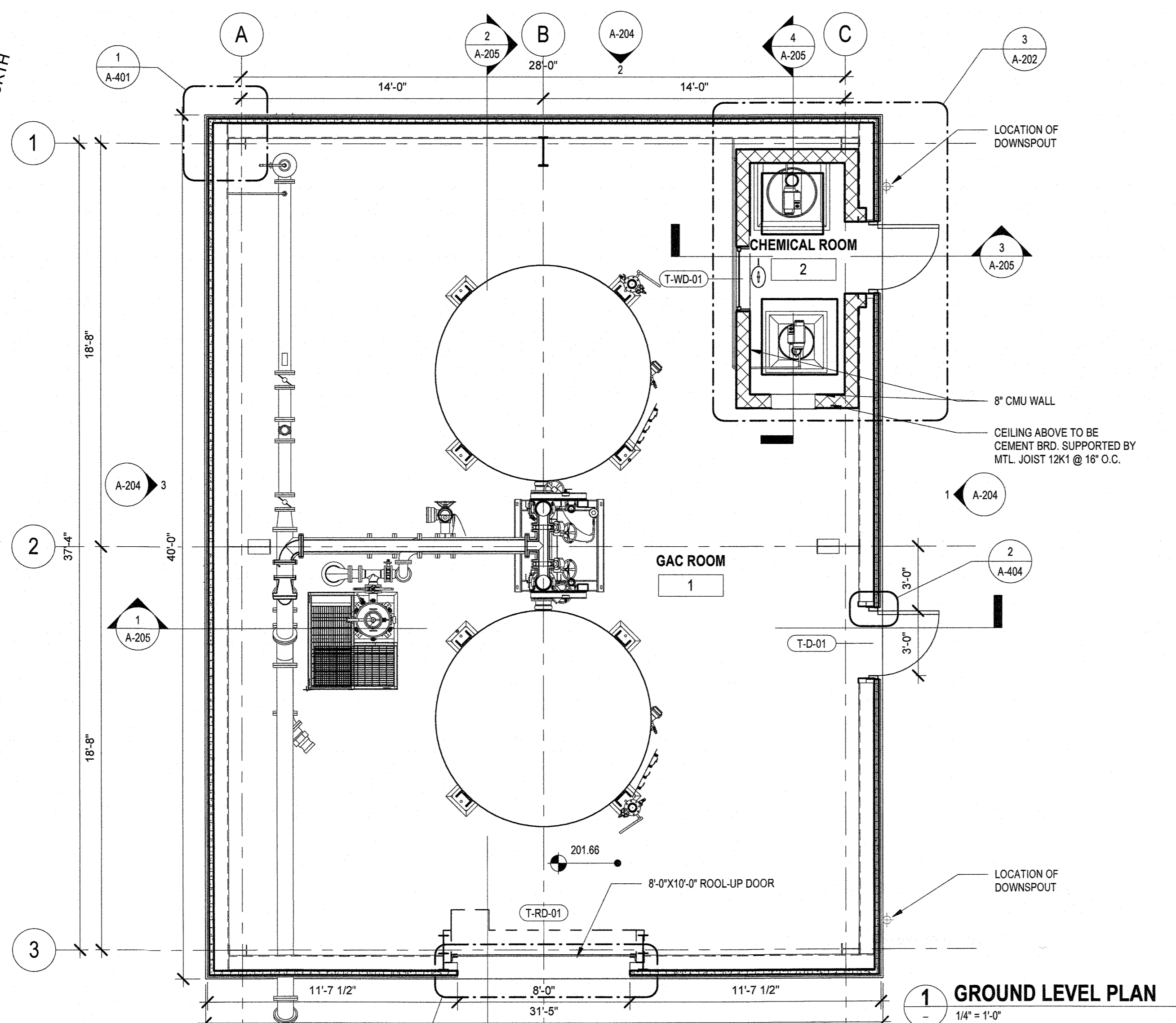


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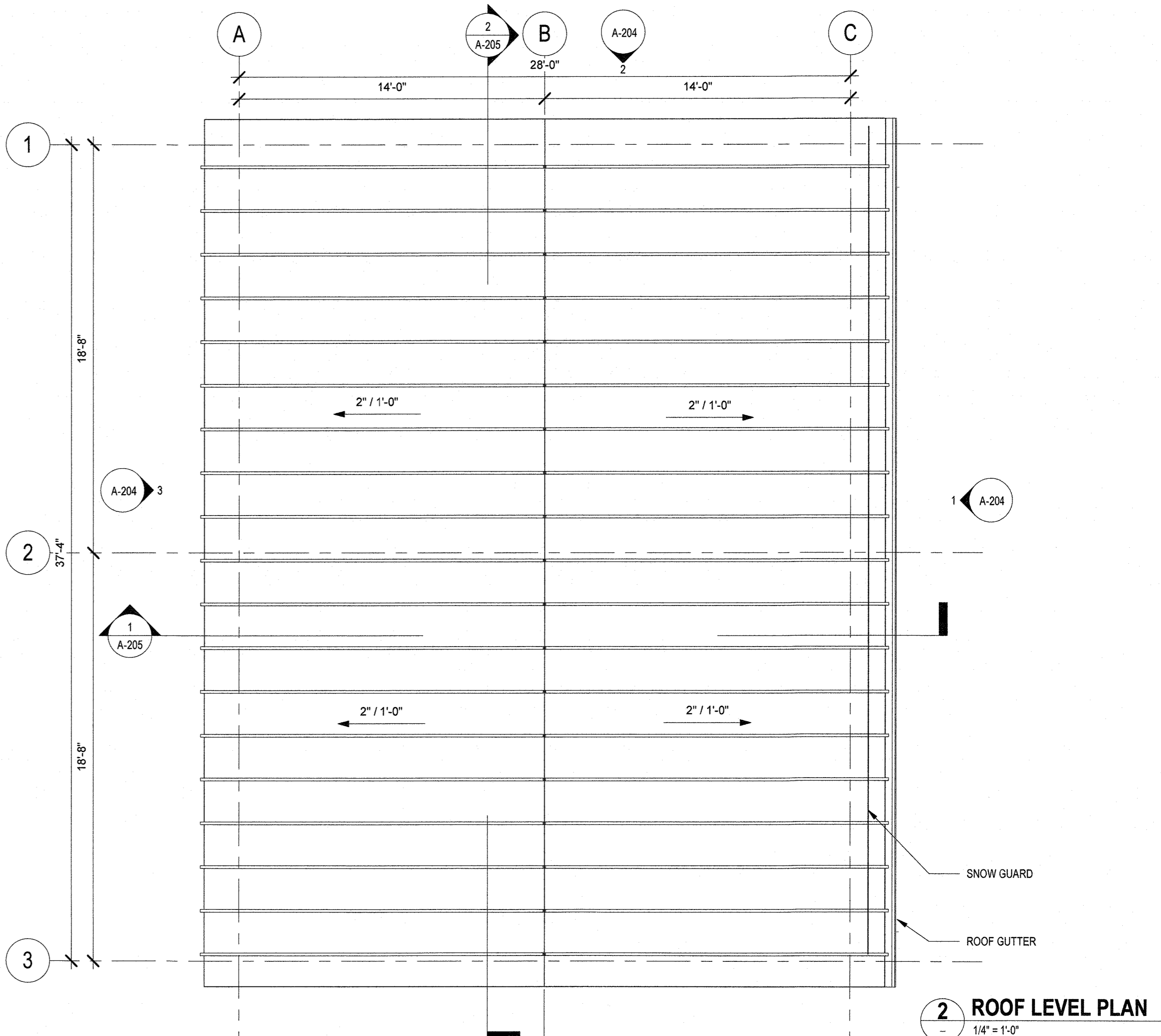
ARCHITECTURAL
CODE COMPLIANCE AND EGRESS PLAN
TAPPAN

PROJECT NO. 250917-257061
FILE NAME:
SHEET NO. A-201

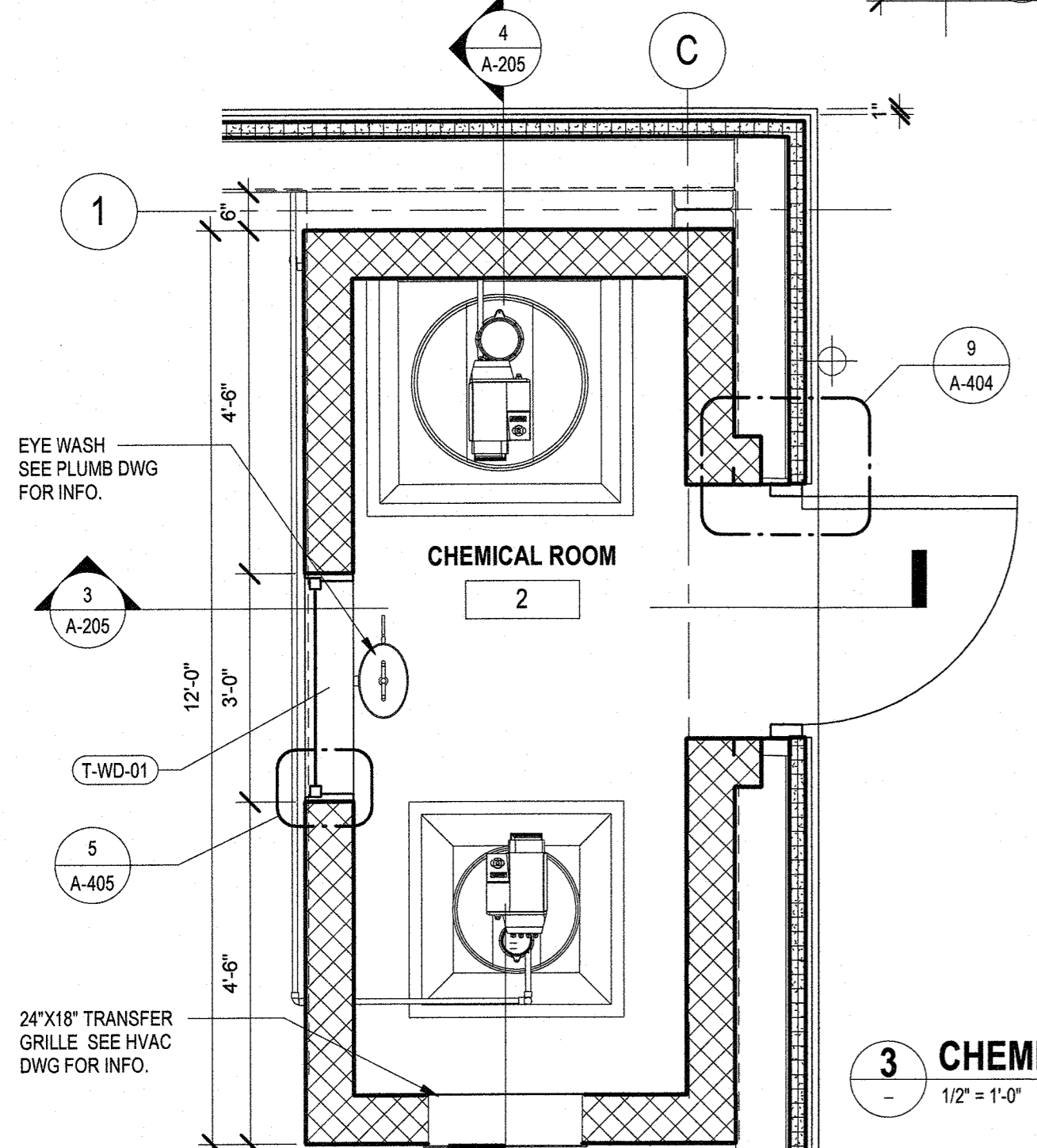
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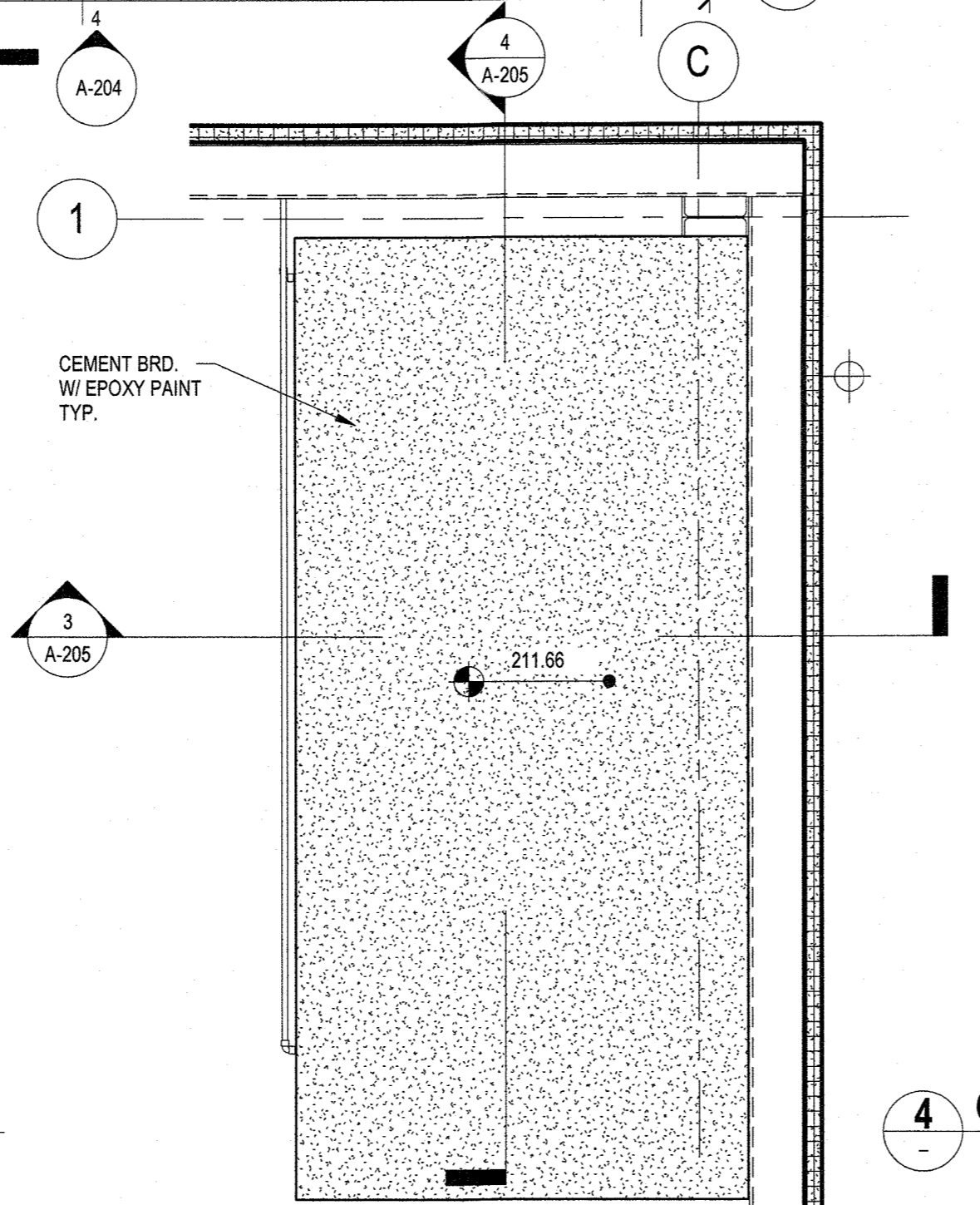
1 GROUND LEVEL PLAN
1/4" = 1'-0"



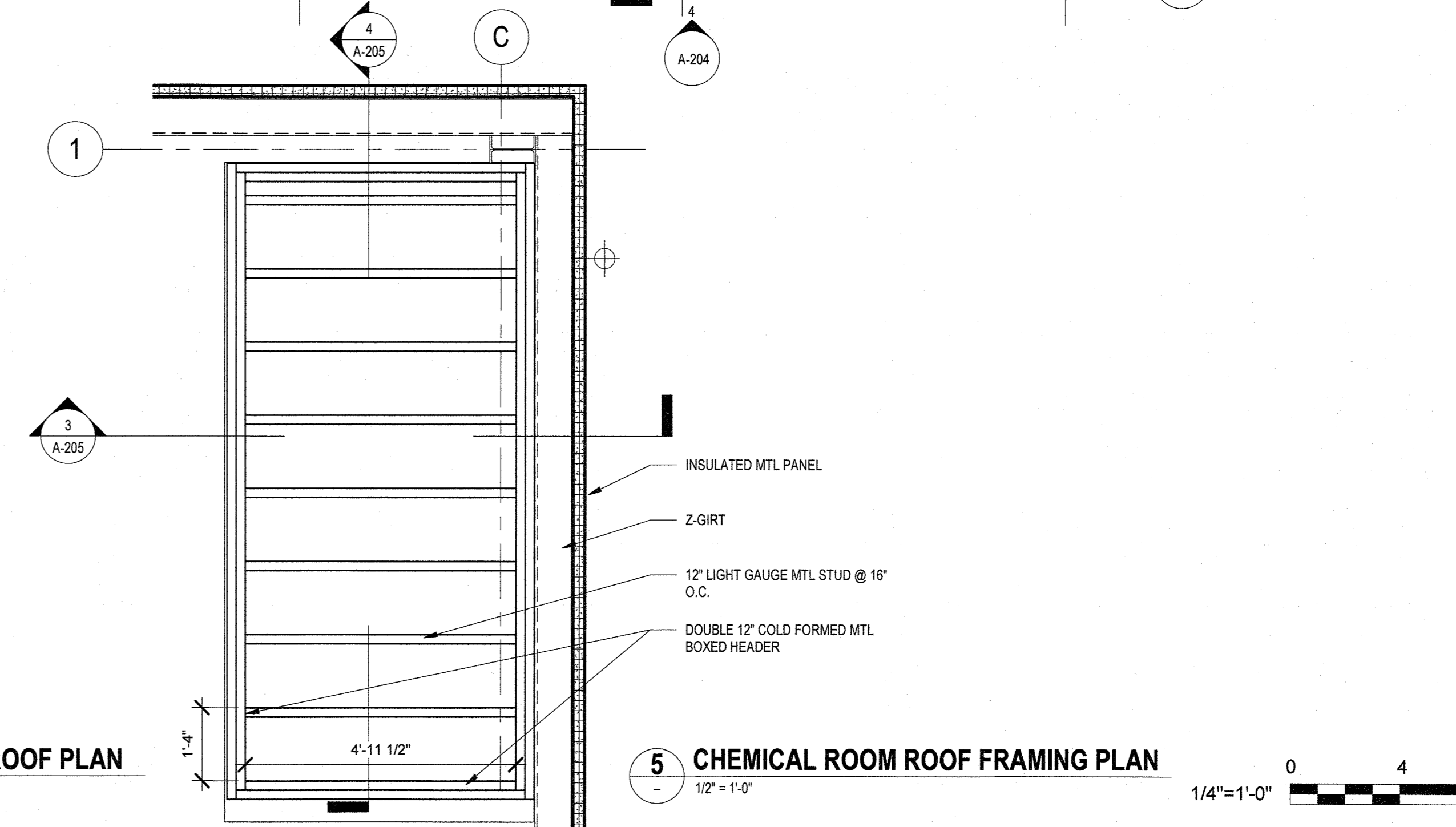
2 ROOF LEVEL PLAN
1/4" = 1'-0"



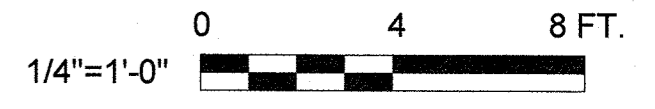
3 CHEMICAL ROOM PLAN
1/2" = 1'-0"



4 CHEMICAL ROOM ROOF PLAN
1/2" = 1'-0"



5 CHEMICAL ROOM ROOF FRAMING PLAN
1/2" = 1'-0"



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: **JL**
 DRAWN BY: **HK**
 SHEET CHK'D BY:
 CROSS CHK'D BY:
 APPROVED BY: **KS**
 DATE: **JULY 2021**

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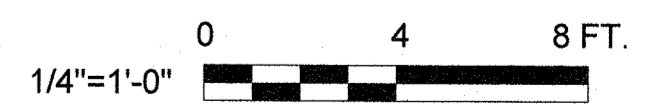
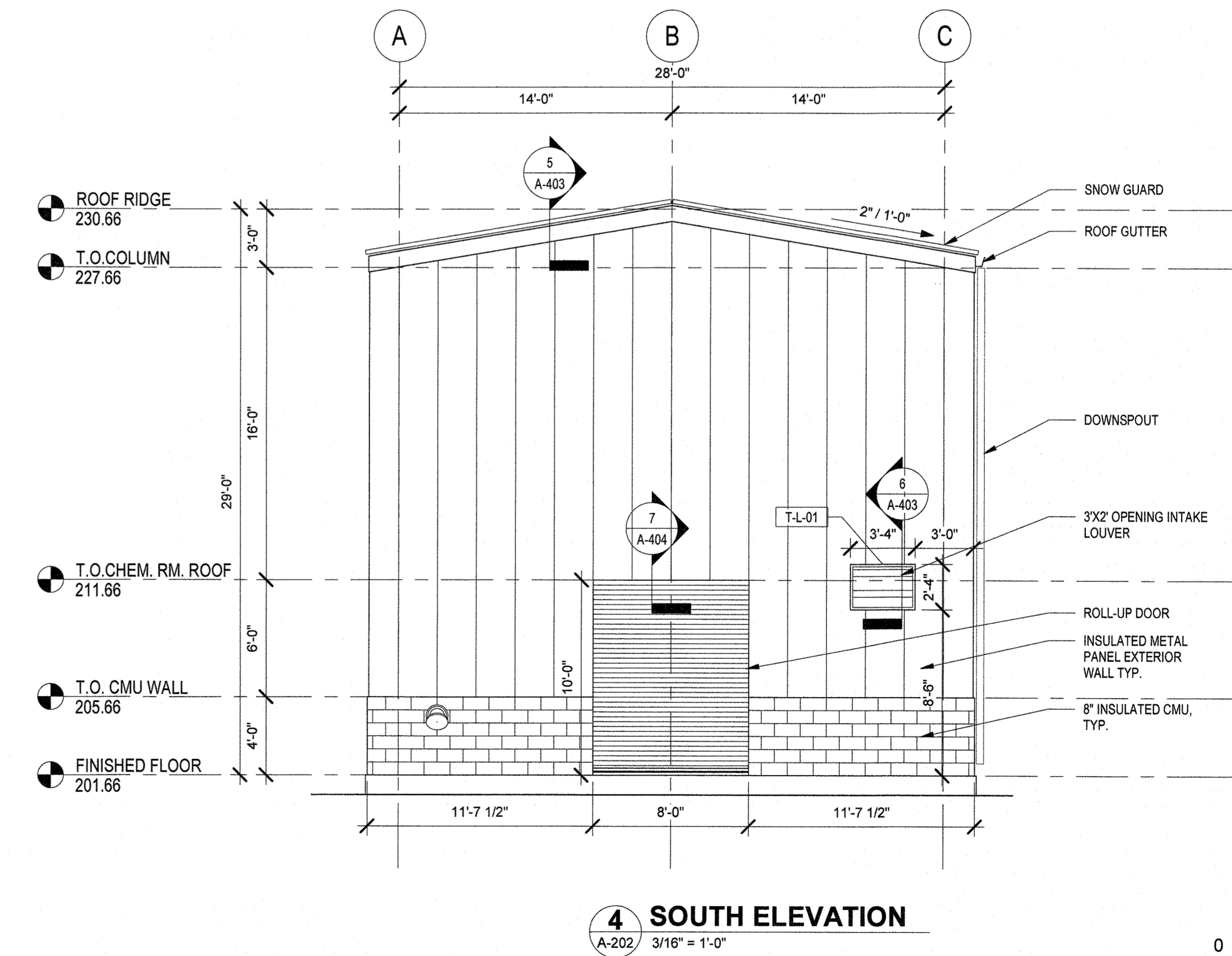
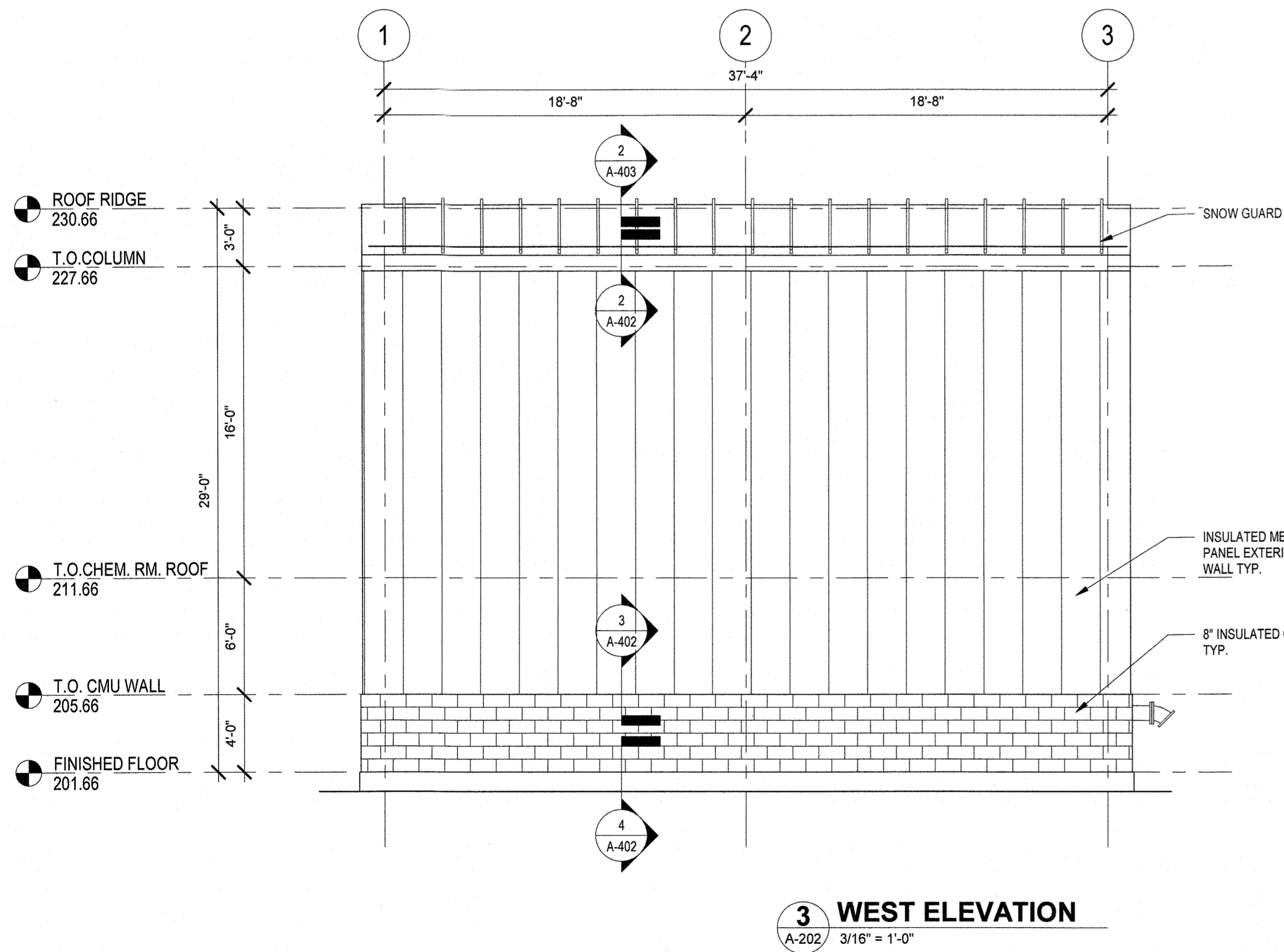
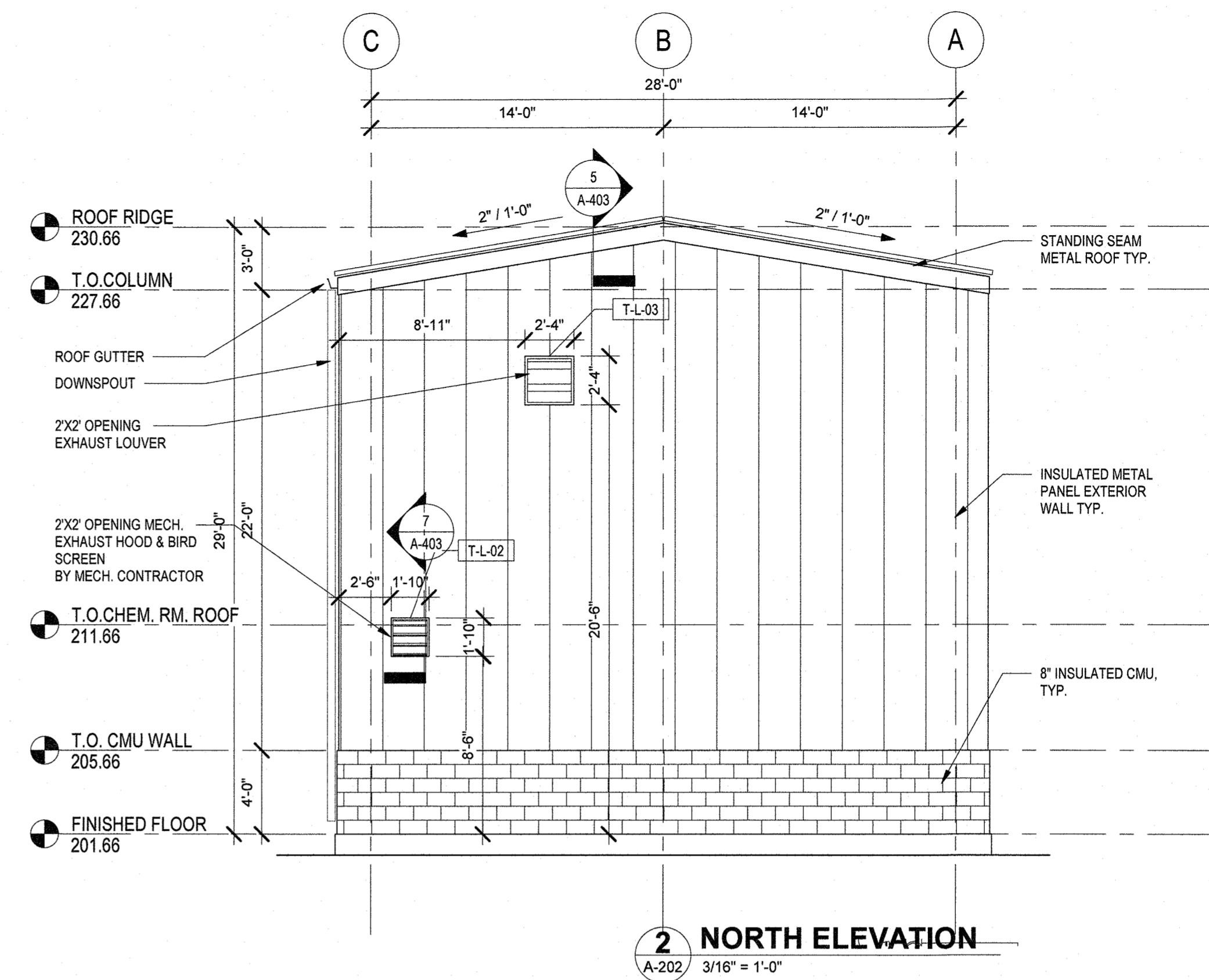
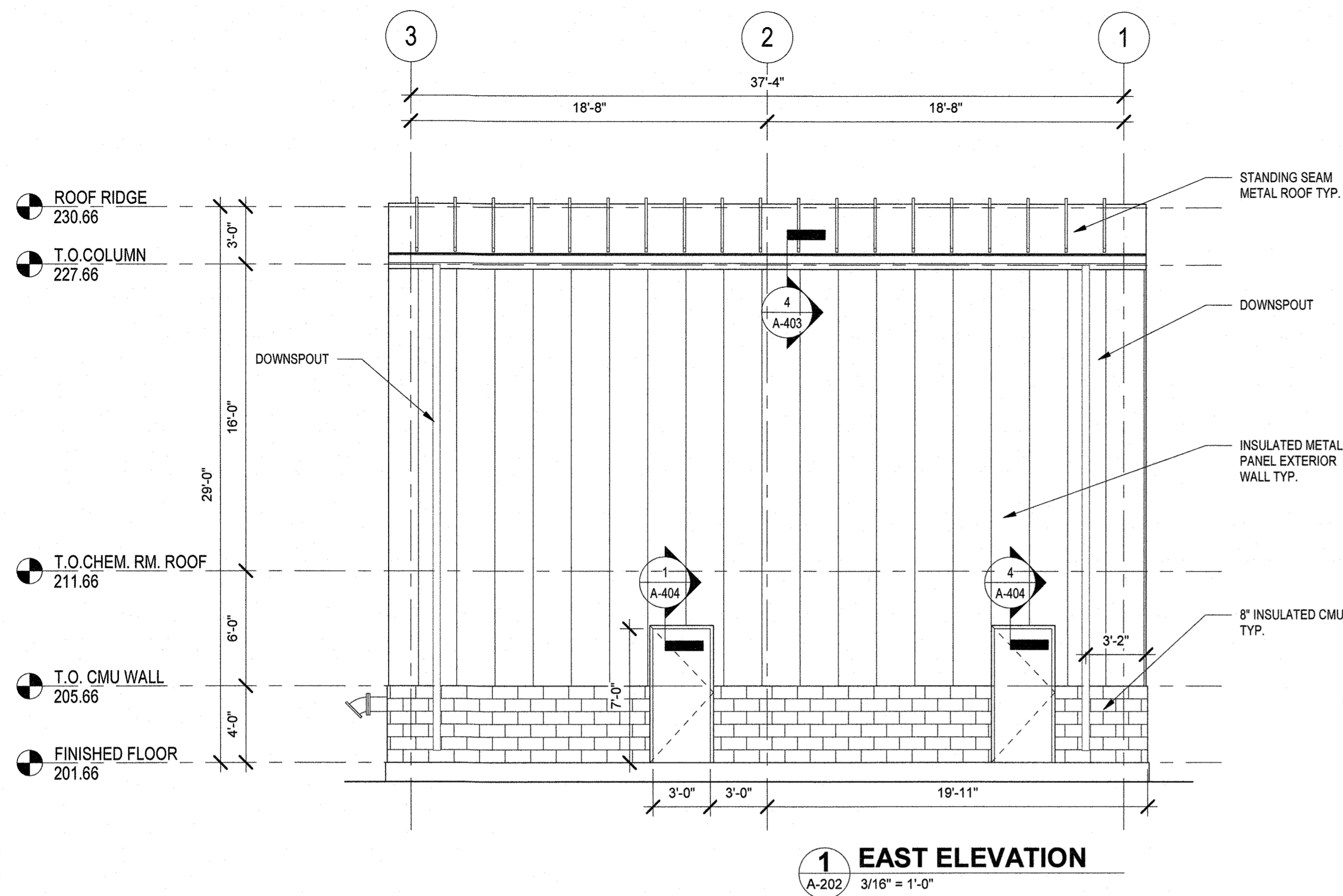
MACAN DEVE

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ARCHITECTURAL
GROUND AND ROOF LEVEL PLANS
 TAPPAN

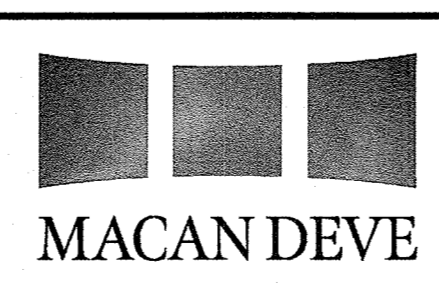
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 SHEET CHK'D BY:
 CROSS CHK'D BY:
 APPROVED BY: KS
 DATE: JULY 2021

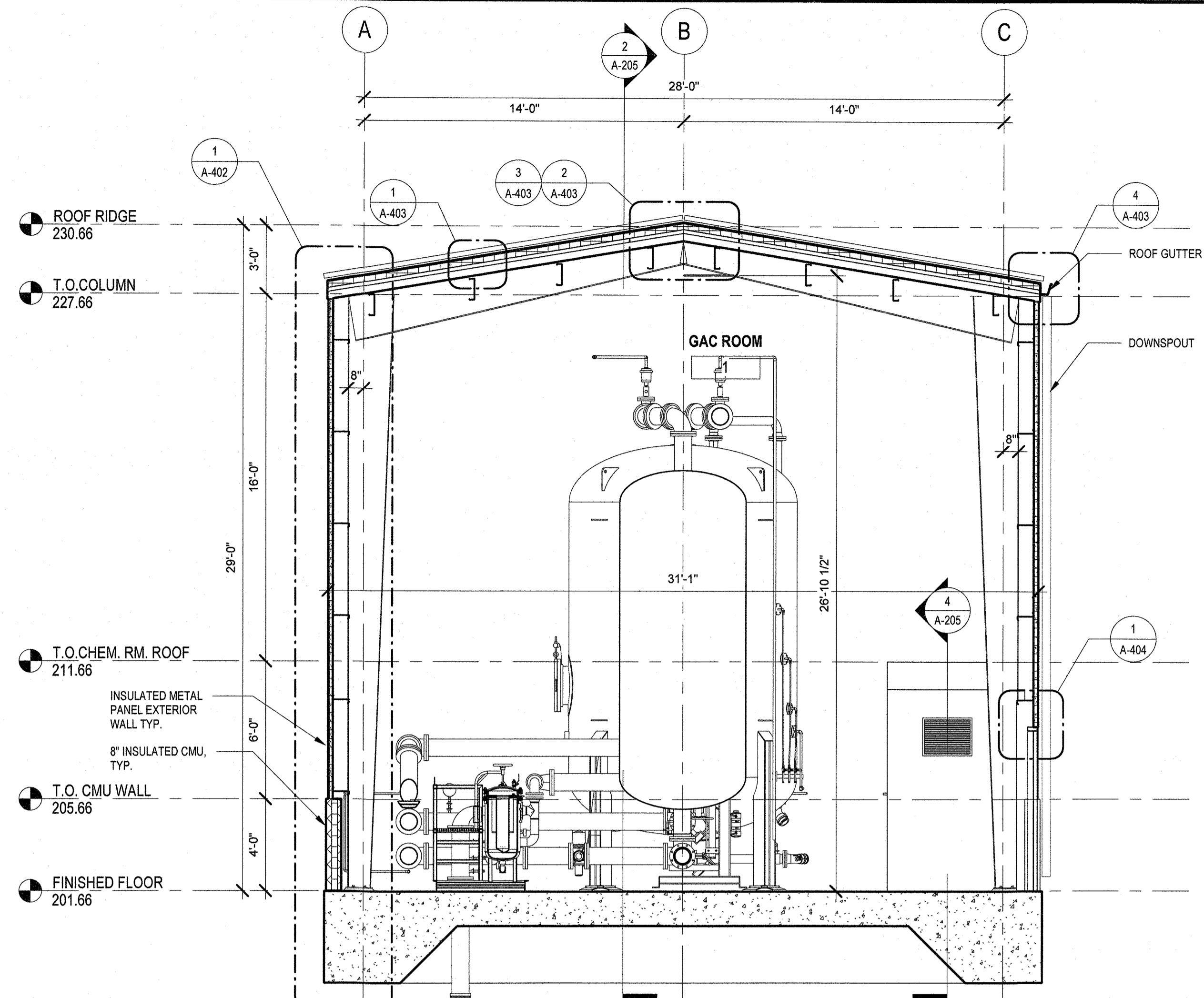


SUEZ WATER NEW YORK INC.
 WEST NYACK, NY
**PFAS COMPLIANCE FOR
 GROUNDWATER PROJECT B**
 AGREEMENT NO. 15806

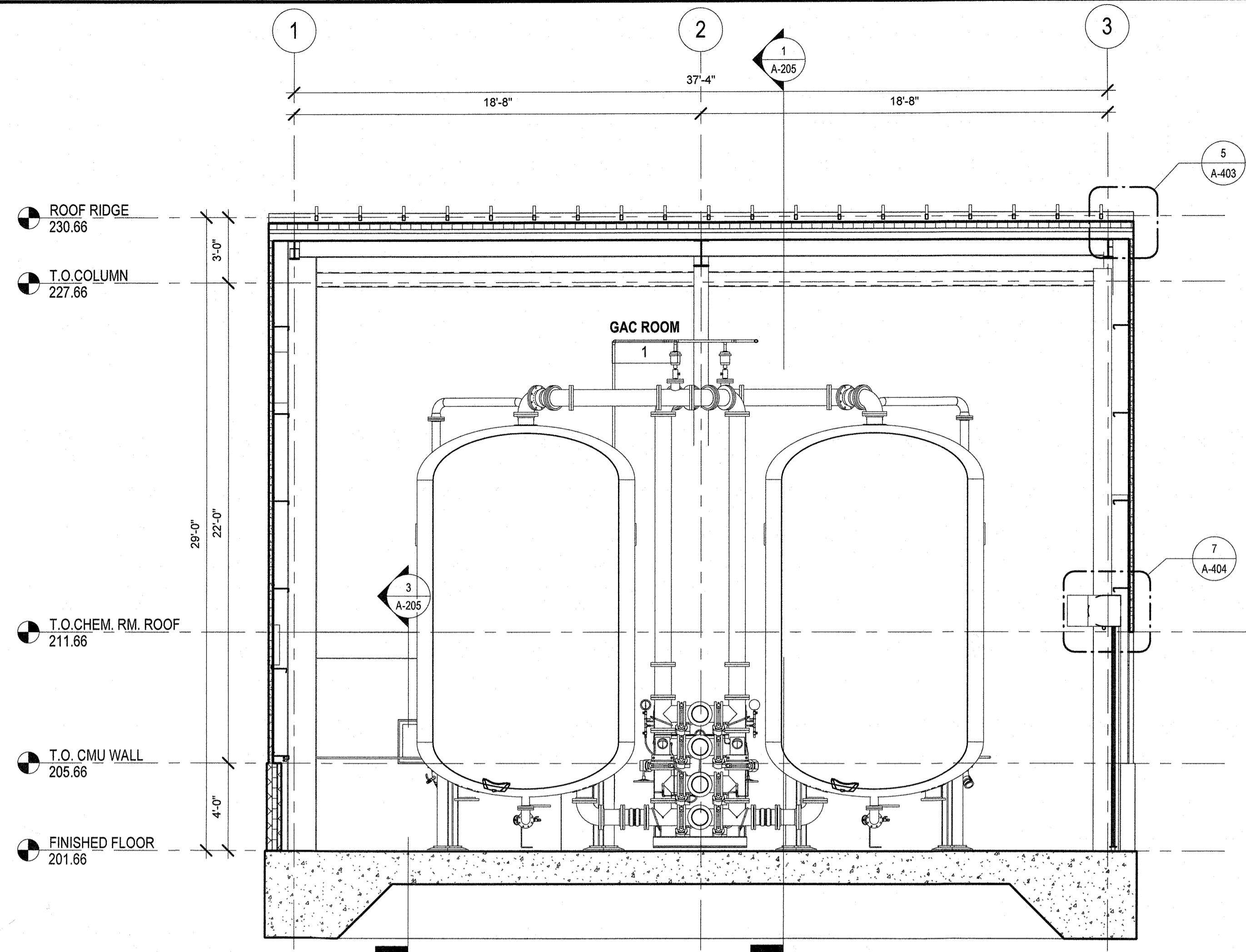
ARCHITECTURAL
BUILDING ELEVATIONS
 TAPPAN

PROJECT NO. 250917-257061
 FILE NAME:
 SHEET NO.
A-204

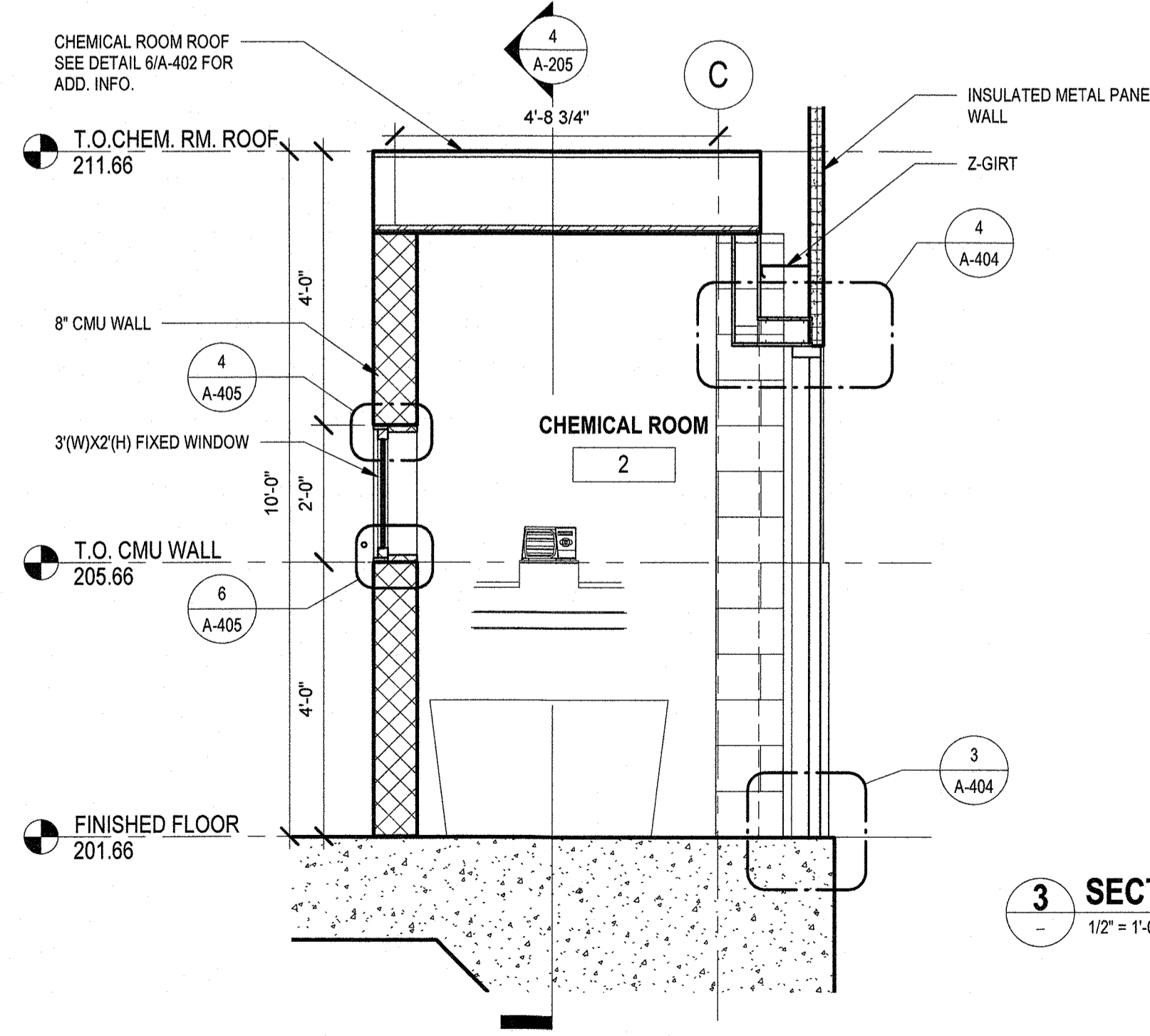
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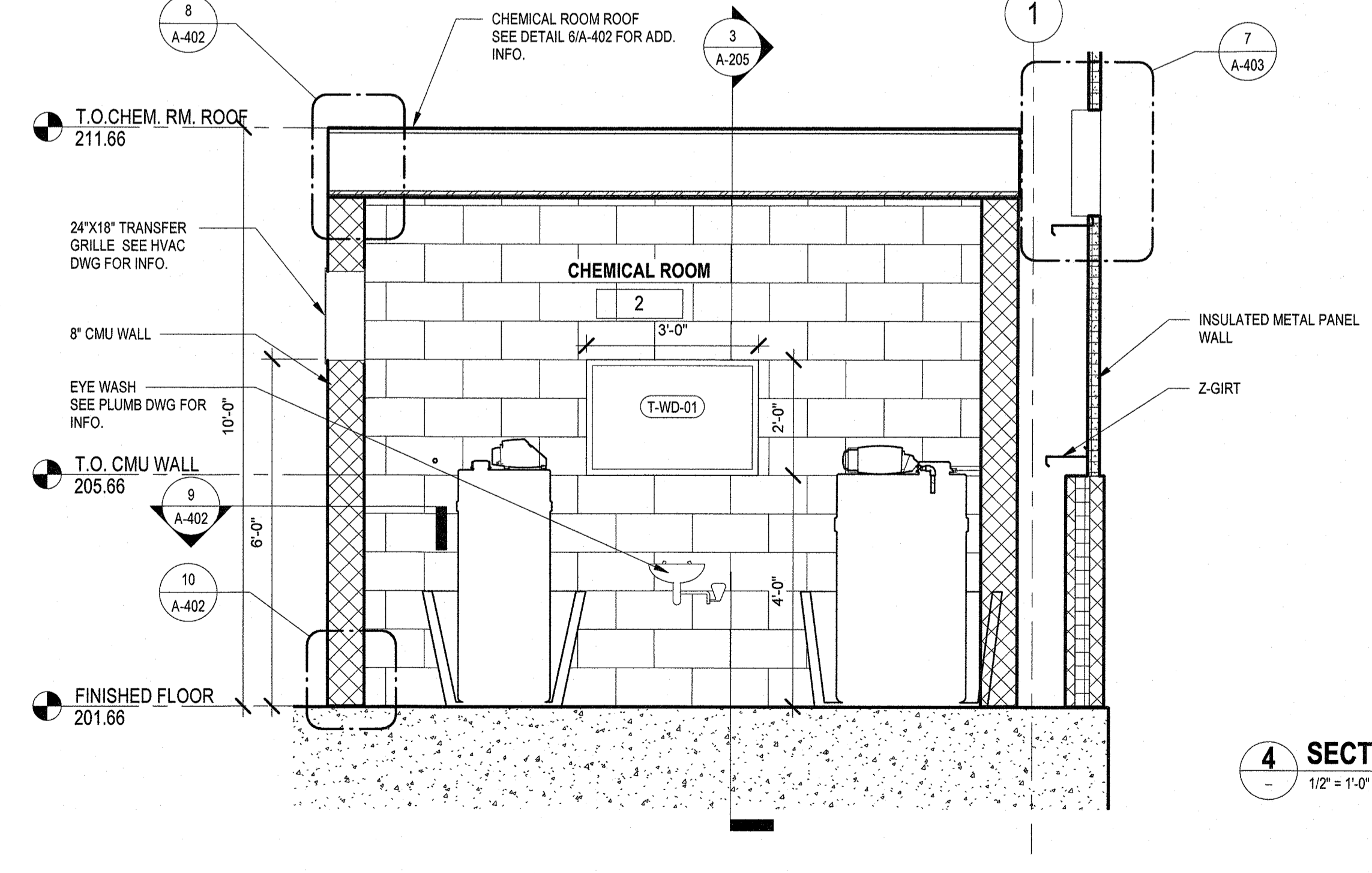
1 SECTION 1
A-202 1/4" = 1'-0"



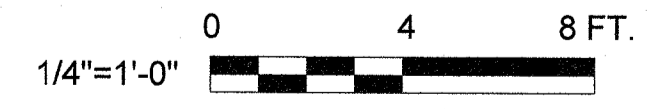
2 SECTION 2
A-202 1/4" = 1'-0"



3 SECTION 3
1/2" = 1'-0"

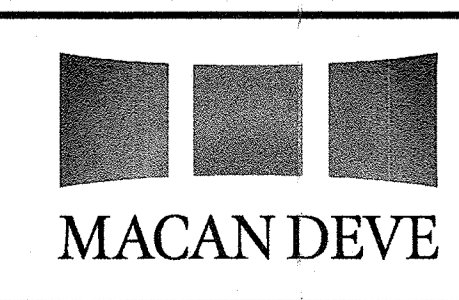


4 SECTION 4
1/2" = 1'-0"



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: JL
 DRAWN BY: HK
 SHEET CHK'D BY:
 CROSS CHK'D BY:
 APPROVED BY: KS
 DATE: JULY 2021



SUEZ WATER NEW YORK INC.
 WEST NYACK, NY
**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 AGREEMENT NO. 15806

ARCHITECTURAL
BUILDING SECTION
 TAPPAN

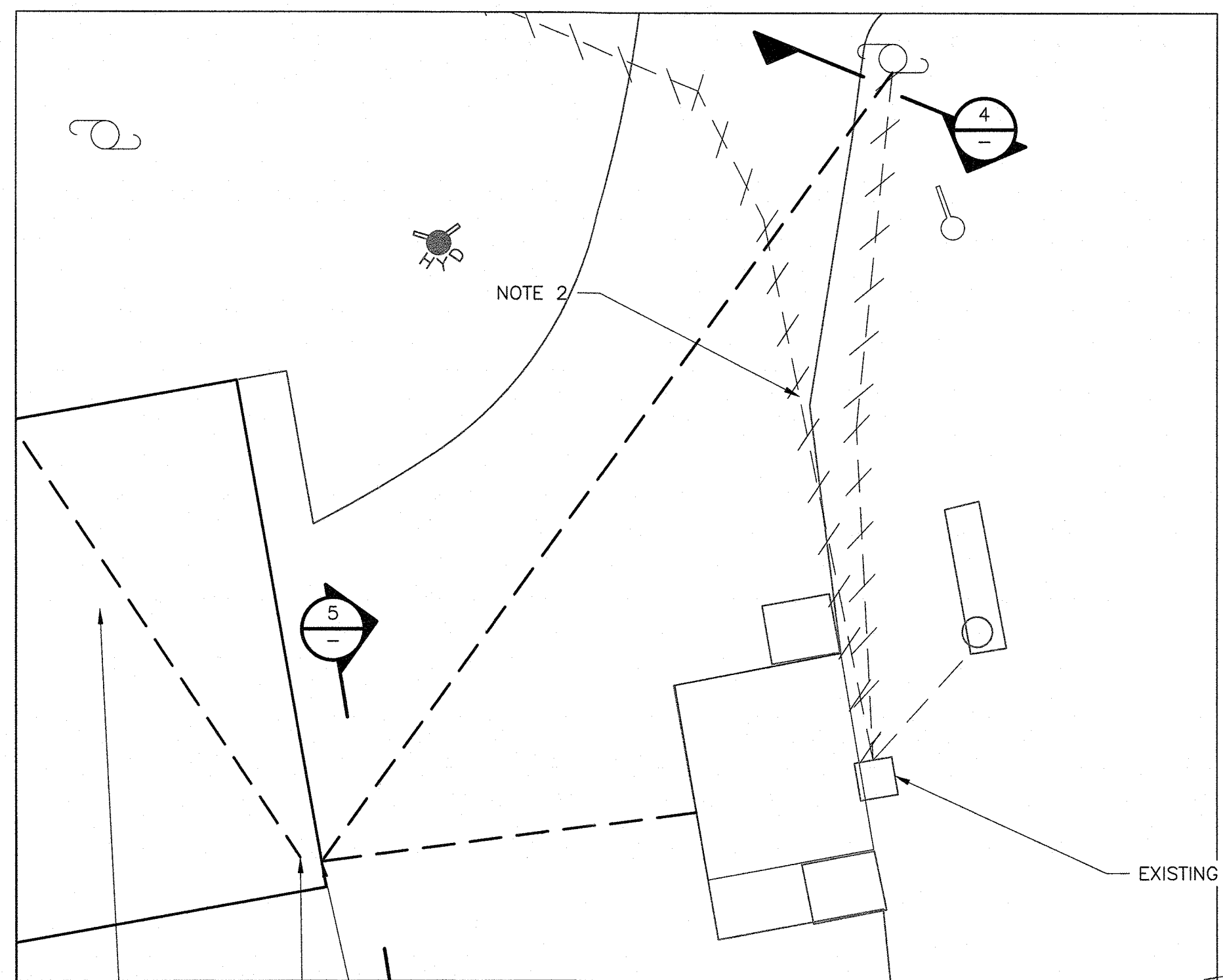
PROJECT NO. 250817-257061
 FILE NAME:
 SHEET NO. **A-205**

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UNDERGROUND RACEWAY SCHEDULE

CONDUIT NUMBER	FROM	TO	RACEWAY SIZE	CONDUCTORS		VIA	REMARKS
				QTY	WIRE SIZE		
U1	RISER POLE	UTILITY METER ON GAC FACILITY	4" C	SEE E-203 FOR ONE LINE DIAGRAM		-	PROVIDE RACEWAY IN ACCORDANCE WITH O&R STANDARDS
P1	GAC FACILITY	WELL 20	2" C	SEE E-203 FOR ONE LINE DIAGRAM		EHH-1	WELL 20 POWER FEEDER
P2	GAC FACILITY	WELL 16	2" C	SEE E-203 FOR ONE LINE DIAGRAM		-	WELL 16 POWER FEEDER
C1	GAC FACILITY	WELL 16	2" C	1	12 STRAND FO	-	WIRE PROVIDED BY DIV. 27 AND INSTALLED BY DIV. 26

- GENERAL NOTES:**
- SEE E-203 FOR ONE-LINE DIAGRAM MODIFICATIONS AND E-401 FOR INSTRUMENTATION RISER DIAGRAM.
 - DEMOLISH EXISTING WIRING FROM WELL 16 TO WELL 20, CONDUIT TO PARTIALLY REMAIN AS SHOWN FOR REUSE.
 - PROVIDE SEPARATION FROM UTILITY RACEWAY AS REQUIRED BY ORANGE & ROCKLAND.
 - EXISTING CONDUIT TO BE REUSED SHALL BE MANDRELED AND SWABBED PRIOR TO REUSE.
 - INTERCEPT RACEWAY FOR POWERING OF WELL 20 FROM GAC FACILITY. INSTALL NEW HANDHOLE.



N/F SPRING VALLEY WATER WORKS SECTION 77.06 BLOCK 2 LOT 77

EHH-2 (NOTE 5)

EXISTING RISER POLE #25K

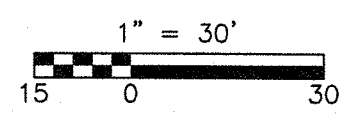
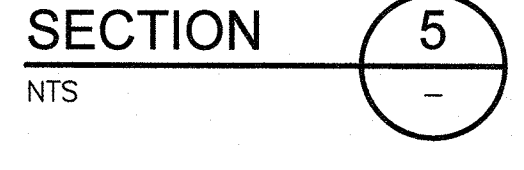
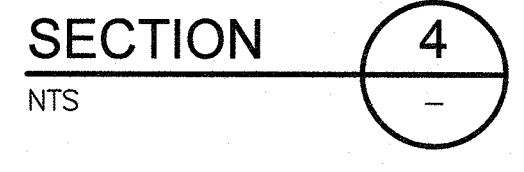
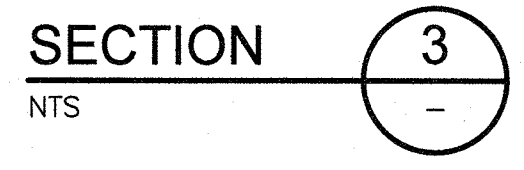
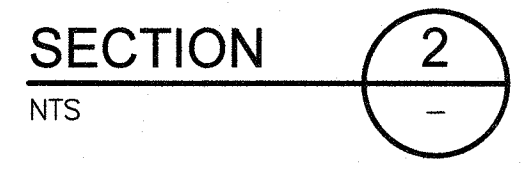
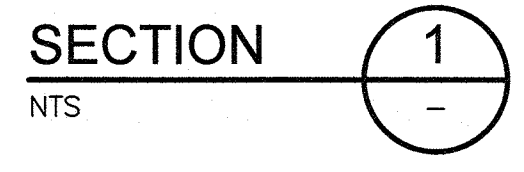
VIA EXISTING RISER POLE #25K

NOTE 3

GAC FACILITY

WELL 16

SEE TOP LEFT FOR ENLARGED PLAN IN THIS AREA



PLAN
1" = 30'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: A. ROWE
 DRAWN BY: A. ROWE
 SHEET CHK'D BY: W. RYAN
 CROSS CHK'D BY: P. CABRAL
 APPROVED BY: G. STUART
 DATE: JULY 2021

CDM Smith
 Camp Dresser McKee & Smith
 11 British American Boulevard, Airport Park, Suite 200
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 Tel: (518) 782-4500

SUEZ WATER NEW YORK
 WEST NYACK, NY
**PFAS COMPLIANCE FOR
 GROUNDWATER WELLS PROJECT B**
 CONTRACT NO. 15806

**ELECTRICAL SITE PLAN,
 DUCT BANKS AND SECTION DETAILS
 TAPPAN**

PROJECT NO. 250917-257061
 FILE NAME: E201TPPL.DWG
 SHEET NO.
E-201