August 30, 2024

TO ALL BIDDERS OF RECORD:

This Addendum forms a part of the Contract Documents and modifies the Drawings and Project Manual as hereinafter indicated.

1) BIDDER QUESTIONS

1. *Can you confirm the estimated value of this project is 2,900,000?*

   Response: Yes.

2. *What is the project schedule for this project?*

   Response: Per the legal advertisement, construction is expected to begin in October 2024, and substantial completion is expected by April 2025. Per section 00 80 00 - SUPPLEMENTARY CONDITIONS, under 9.12 Liquidated Damages, total project completion is no later than May 30, 2025.

3. *Can you provide a plan holder's list for the project?*

   Response: Enclosed is the list of companies who have viewed and downloaded the drawings and specifications.

4. *Will the five Addenda from the initial IFB still be relevant moving forward?*

   Response: No.

5. *Have the specs and plans been updated to reflect this?*

   Response: Yes.

6. *Is Division 11 a Filed Sub Bid? Please clarify?*

   Response: No. Omit (FILED SUB-BID) dedication on 11 12 00 PARKING CONTROL EQUIPMENT on the Table on Contents.

2) PROJECT MANUAL

1. In section 00 00 10 TABLE OF CONTENTS, omit (FILED SUB-BID) from 11 12 00 PARKING CONTROL EQUIPMENT.

2. In section 00 00 10 TABLE OF CONTENTS, add the following after Section 05 52 00 HANDRAILS AND RAILING:
   05 99 95 .....PREFABRICATED CANOPY 3

3. In the project manual, replace 00 04 10 FORM FOR GENERAL BID with the updated attachment.

4. In 26 00 00 ELECTRICAL, under section 1.4.B., DESCRIPTION OF WORK, add the following sheets: C003, C004C C005, A101.

3) DRAWINGS

1. Replace the construction document set with the stamped 100% construction document set.

2. Addendum #1 updates (clouded and marked as addendum #1) are on the following sheets in the stamped set:

C003 SITE LAYOUT PLAN
C004 GRADING, DRAINAGE, AND UTILITY PLAN
C006 DETAIL SHEET (1 OF 3)

4) ATTACHMENTS

1. 8/28/2024 Bidder Sign-In Sheet
2. Plan holder's list
3. 00 04 10 FORM FOR GENERAL BID
4. 05 99 95 PREFABRICATED CANOPY
5. STAMPED 100% CONSTRUCTION DOCUMENTS (FULL DRAWING SET)

(THIS COMPLETES ADDENDUM NO. 1)

RGB architects

Dedham-Westwood Water District
Storage Facility and Site Improvements

RGB #6790
Date: August 28, 2024
Time: 10:00 AM

Name	Firm	Tel #	Email
Ashley Carrig	RGB	401-272-1730	acarrig@rgb.net
AVNI PATEL	H.J. RUSSELL & CO.	774-217-1135	apatel@hjrussell.com
Julia Clarke	Gage Construction	781.230.9446	jclarke@gagebuilds.com
Tim Bakker	King Painting, Inc	978-534-5215	TBakker@KingPaintingInc.com
Chris Sidoti	Integrated Elec. Sys	617-471-2900	csidoti@integratedelectric.com
ANDREW BISBEE	CRANSHAW	617-559-5282	ABISBEE@CRANSHAW.COM
Randy Cheyne	TCD CONSTRUCTION, INC	6039243003	rcheyne@tcdbuild.com
ANTITONY FINOCCHIARO	SITE IMPROVEMENTS INC	9786851030	ANTHONYC SITEIMPROVEMENTSINC.com
Alex Reed	South Coast Improvement	508-827-0323	alex.reed@southcoastimprovement.com
Stephen Locke	D.W.W.D	339-222-1831	slocke@dwwd.org
Siddhant Singh	Boston Roofing / Boston Panels	781-985-4077	Estimating@BostonPanelsSales.com
Nicholas Michelunsen	Vantage Builders	978-221-7095	nmichelunsen@VB-inc.com

#6790	Dedham Westwood Water District Storage Facility and Site Improvements
	Plan Holder List
#	**Company Name**
1	Ace Restoration Co. Inc.
2	Araujo Bros Plumbing and Heating, Inc.
3	Asphalt engineering
4	Beacon Building Supply
5	Brite-Lite Electrical Co., Inc.
6	CAM HVAC & CONSTRUCTION INC.
7	CDS Contracting Services, LLC
8	Cenedella Masonry Inc.
9	Collins Construction
10	Commercial Masonry Corporation
11	Costa Brothers Masonry
12	Cranshaw Construction
13	Custom Iron Works
14	Dagle Electrical Construction Corp
15	D&C Construction Co., Inc.
16	EDM Construction, Inc.
17	EJ Prescott
18	Enterprise Equipment Co. Inc.
19	Fall River Electrical Associates
20	Fernandes Masonry
21	Folan Waterproofing
22	Geldart Associates
23	GenCon
24	G&H Heating and Cooling, llc.
25	Glionna Plumbing & Heating Services, Inc
26	H.J. Russell
27	Houle Welding & Fabrication Inc.
28	Integrated Electrical Systems Inc.
29	Jasco Electric Inc.
30	JF White Contracting
31	JJ Cardosi, Inc.
32	JM's Painting Corp
33	K5
34	King Painting, Inc.
35	Kneeland Plumbing & Heating, Inc.
36	laPan mechanical
37	Losorodo Electric
38	Macura Excavating
39	Marmelo Bros Construction
40	M-V Electrical Contractors, Inc.
41	Nadeau Corporation
42	N.B. KENNEY COMPANY, INC.
43	Needham Certified Welding Corp.
44	NEL Corporation
45	New England Builders & Contractors Inc.
46	New England Specialty Services Inc
47	Northern Contracting Corp
48	Northstar Refrigeration Inc.
49	Performance Plumbing and Heating
50	Phillips Electric, Inc
51	PJ Dionne Company, Inc.
52	Poulin Construction Inc.

53	Quinn Bros.of Essex
54	Richard T Losordo Electrical Services Inc
55	Robert W. Irvine & Sons, Inc.
56	Seaver Construction
57	Site Improvements Inc
58	South Coast Improvement
59	Systems Contracting Inc.
60	TCD Construction, Inc.
61	Tim's Fabricators Inc
62	Tower Construction
63	United Steel, Inc
64	Vantage Builders, Inc.
65	VG Iron
66	Veterans Development Corporation, Inc.
67	Wayne J. Griffin Electric, Inc.
68	WES Construction Corp.

SECTION 00 04 10 - FORM FOR GENERAL BID MGL C.149 OVER $150K

DATE:

TO THE AWARDING AUTHORITY: Dedham-Westwood Water District
50 Elm Street
Dedham, MA 02026

CARE OF: Mr. Blake Lukis, Executive Director

A. The Undersigned proposes to furnish all labor and materials required for completing, for the **Dedham-Westwood Water District located in Dedham, Massachusetts**, in accordance with the accompanying plans, specifications, and addenda prepared by RGB Architects for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

B. This bid includes addenda numbered:

_____

C. The proposed contract price is:

_____ dollars $_____._____
(Bid Amount in Words Bid Amount in Numbers)

For alternate No. _____ Add $_____ Subtract $_____

D. The subdivision of the proposed contract price is as follows:

ITEM 1. The work of the general contractor, being all work other than that covered by ITEM 2.

TOTAL OF ITEM 1 ..... $_____

Sub-trade Name of Filed Sub-bidder Sub-bid Amount Bond Required

Yes No (check one)

Sub-trade	Name of Filed Sub-bidder	Sub-bid Amount	Bond Required
_____	_____	_____	_____
_____	_____	_____	_____

_____ _____ _____ _____

_____ _____ _____ _____

_____ _____ _____ _____

_____ _____ _____ _____

TOTAL OF ITEM 2 ..... $_____

The undersigned agrees that each of the above named sub-bidders will be used for the work indicated at the amount stated, unless a substitution is made. The undersigned further agrees to pay the premiums for the performance and payment bonds furnished by sub-bidders as requested herein and that all of the cost of all such premiums is included in the amount set forth in ITEM 1 of this bid.

The undersigned agrees that if he is selected as general contractor, he will promptly confer with the awarding authority on the question of sub-bidders; and that the awarding authority may substitute for any sub-bid listed above a sub-bid filed with the awarding authority by another sub-bidder for the sub-trade against whose standing and ability the undersigned makes no objection; and that the undersigned will use all such finally selected sub-bidders at the amounts named in their respective sub-bids and be in every way as responsible for them and their work as if they had been originally named in this general bid, the total contract price being adjusted to conform thereto.

E. The undersigned agrees that, if he is selected as general contractor, he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this bid and furnish a performance bond and also a labor and materials or payment bond, each of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority and each in the sum of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price; provided, however, that if there is more than 1 surety company, the surety companies shall be jointly and severally liable.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to section 44A. The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the commonwealth under the provisions of section

twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

F. The undersigned agrees that the unit prices Work described under Division 01 22 00 UNIT PRICES are applicable for additional or deductive work from that as specified or shown on the Contract Documents. Include Section 01 22 00 with Bid Form.

_____

NAME OF BIDDER

_____

SIGNATURE AND TITLE OF PERSON SIGNING BID

Date: _____

BUSINESS ADDRESS

_____

END OF SECTION 00 04 10

SECTION 05 99 95 - PREFABRICATED CANOPY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes: Furnishing and installing an extruded aluminum overhead hanger rod style canopy.

B. Related Items and Considerations

1. Flashing as required. Supplied by the installer.
2. Determine wall construction, make-up and thickness.
3. Ensure adequate wall condition structural support to carry canopy loads required.
4. Consider water drainage away from canopy where necessary.
5. Coordinate canopy details with wall panel manufacturer and installer. General Contractor to coordinate.
6. Where penetrating the exterior envelop, provide weathertight penetrations. Coordinate penetrations with the wall panel manufacturer and installer. General Contractor to coordinate.

1.3 QUALITY ASSURANCE

A. Basis of Design: Products meeting these specifications established standard of quality required as manufactured by Mapes Industries, Inc. Lincoln, Nebraska 1-888-273-1132.

1.4 FIELD MEASUREMENT

A. Confirm dimensions prior to preparation of shop drawings when possible.

B. If requested, supply manufacturer’s standard literature and specifications for canopies.

C. Submit shop drawings showing structural component locations/positions, material dimensions and details of construction and assembly.

1.5 PERFORMANCE REQUIREMENTS

A. Canopy must conform to state building codes for wind and snow loadings.

B. Provide project specific shop drawings detailing a weathertight installation; and provide professional engineer, licensed in the state of project, stamped calculations for the location in which canopy is installed.

1.6 DELIVER, STORAGE, HANDLING

A. Deliver and store all canopy components in protected areas.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Basis of Design: 3 Canopy Types; 1.Super Lumideck HR Hanger Rod Supported Canopy, 2. Super Shade HR Hanger Rod Supported Canopy, 3. Lumishade as manufactured by Mapes Industries, Inc., Lincoln, Nebraska, Phone: 1-888-273-1132, Fax: 1-877-455-6572.

B. Substitutions: Substitutions may be submitted for approval in accordance with Instructions to Bidders and Division 1.

2.2 MATERIALS

A. Decking and fascia shall be extruded aluminum, alloy 6063-T6, in profile and thickness shown.

B. Decking Shall be 2 3/4” Extruded .078” Decking

C. Hanger rods and attachment hardware shall be powder coated to match canopy.

D. Fascia shall be standard 8” extruded “GM” style (minimum .125 aluminum)

2.3 FINISHES

A. Provide Powder Coating standard two-coat Kynar® colors, as selected.

2.4 FABRICATION

A. All connections shall be mechanically assembled utilizing 3/16” fasteners with a minimum shear stress of 350 lb. Pre-welded or factory-welded connections are not acceptable.

B. Decking shall be designed with interlocking extruded aluminum members with mechanical fasteners field applied to provide structural integrity for the completed assembly.

C. Concealed drainage. Water shall drain from covered surfaces into integral fascia gutter and directed to either the front for front drainage or to the rear for ground level discharge via one or more designated downspouts.

PART 3 - EXECUTION

3.1 INSPECTION

A. Confirm that surrounding area is ready for the canopy installation.

B. Installer shall confirm dimensions and elevations to be as shown on drawings provided by canopy manufacturer.

C. Erection shall be performed by an approved installer and scheduled after all concrete, masonry and roofing in the area is completed

3.2 INSTALLATION

A. Installation shall be in strict accordance with manufacturer's shop drawings. Particular attention should be given to protecting the finish during handling and erection.

B. After installation, entire system shall be left in a clean condition.

C. Provide sealant and backer rod at all exterior masonry wall and backup masonry walls were required for installation penetrations to maintain air barrier and eliminate water infiltration into the exterior wall envelop.

END OF SECTION 05 99 95

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY AND SITE IMPROVEMENTS

50 ELM STREET
DEDHAM, MA 02026

50 Holden Street · Providence, Rhode Island 02908
(401) 272-1730 · www.rgb.net

Architecture · Project Management · Interior Design

THE ROBINSON GREEN BERETTA CORPORATION — ARCHITECTURE

CONSULTANTS:

INSITE ENGINEERING SERVICES, LLC — CIVIL ENGINEERING

DIANE C. SOULE & ASSOCIATES, ASLA — LANDSCAPE ARCHITECTURE

C.A. PRETZER ASSOCIATES — STRUCTURAL ENGINEERING

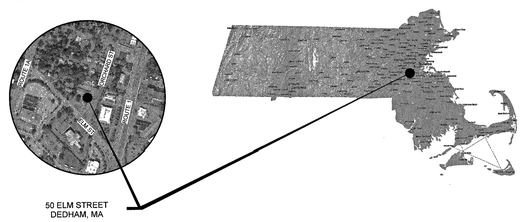
BUILDING ENGINEERING RESOURCES, INC. (BER) — PLUMBING, MECHANICAL, & ELECTRICAL ENGINEERING

LIST OF DRAWINGS

REGISTERED ARCHITECT JOHN T. PARONE No. 30755 BOSTON, MA

STORAGE FACILITY AND SITE IMPROVEMENTS - 6790

LOCATION MAP



VICINITY MAP

STATUS: 100% CONSTRUCTION DOCUMENTS

DATE: 8/20/2024

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AF	ABOVE FLOOR
ACP	ACCESS PANEL
ACC	ACCESSORY, ACCESSORIES
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
ADH	ADHESIVE
ADJ	ADJUSTABLE
AGG	AGGREGATE (S)
A/C	AIR CONDITIONING
AVB	AIR/VAPOR BARRIER
AC	ALTERNATING CURRENT
ALT	ALTERNATE
ALUM	ALUMINUM
AT	ALUMINUM THRESHOLD
ANC	ANCHOR (S) ANCHORAGE (S)
AB	ANCHOR BOLTS
∠	ANGLE
ANOD	ANODIZED
ANT	ANTENNA (E)
APP	APPROVED, APPROVAL
APPROX	APPROXIMATE
APRT	ACOUSTICAL PARTITION
AD	AREA DRAIN
@	AT
ATT	ATTACH, ATTACHMENT
ALD	AUTOMATIC LOUVER DAMPER
AVE	AVENUE
AVG	AVERAGE
BTB	BACK TO BACK
BM	BEAM
BMK	BENCH MARK
BG	BEARING
BPL	BEARING PLATE
BIT	BITUMINOUS
BC	BOTTOM OF CURB
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BF	BOTTOM OF FOOTING
BO	BOTTOM OF
BOC	BOTTOM OF CURB
BS	BOTH SIDES
BW	BOTH WAYS
BOT	BOTTOM
BKT	BRACKET
BK	BRICK
BRG	BRIDGING, BRIDGE (D)
BTU	BRITISH THERMAL UNIT
BLDG	BUILDING
BUR	BUILT-UP ROOFING
CK	CHALK
CBT, CAB	CABINET
CPT	CARPET
CI	CAST IRON
CB	CATCH BASIN
CLG	CEILING
CTR	CENTER
CL, ℄	CENTERLINE
CTC	CENTER TO CENTER
C	CENTIGRADE (CELSIUS)
CT	CERAMIC TILE
CLF	CHAIN-LINK FENCE
CB	CHALKBOARD
CH, I	CHANNEL
CM	CENTIMETER
CV	CHECK VALVE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CKT	CIRCUIT
CO	CLEANOUT
CLR	CLEAR, CLEARANCES
CLS	CLOSURE
CW	COLD WATER
C,COL	COLUMN
COMP	COMPRESS (ED),((ON),(IBLE)
CONC	CONCRETE (PORTLAND CEMENT)
CMU	CONCRETE MASONRY UNITS
COND	CONDUIT
CX	CONNECTION
CONT	CONTINUOUS
CLL	CONTRACT LIMIT LINE
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CFL	COUNTERFLASHING (S)
CS	COUNTERSINK, COUNTERSUNK
CU	CUBIC
CU	COPPER
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CF	CUBIC FEET
CU IN	CUBIC INCH
CY	CUBIC YARD
CYL	CYLINDER, CYLINDRICAL
DPR	DAMPER
DP	DAMPPROOF (ED),(ING)
DL	DEAD LOAD
DB	DECIBEL
DEG	DEGREE
DEM	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DET	DETAIL
DIA or Ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DC	DIRECT CURRENT
DCX	DISCONNECT (ION)
DPN	DISPENSER
DPL	DISPOSAL, DISPOSABLE
DR	DOOR
DBL	DOUBLE
DH	DOUBLE-HUNG
DTA	DOVETAIL ANCHOR
DTS	DOVETAIL ANCHOR SLOT
DN	DOWN
DS	DOWNSPOUT
D	DRAIN, DRAINAGE LINE
DI	DRAIN INLET
DT	DRAIN TILE
DWG,DRWG	DRAWING (S)
DF	DRINKING FOUNTAIN
DMH	DROP MANHOLE
EIFS	EXT. INSUL FINISH SYSTEM
EW	EACH WAY
EA	EACH
EFF	EFFICIENCY
E. ELECT.	ELECTRIC, ELECTRICAL
EP	ELECTRIC PANEL
EWC	ELECTRIC WATER COOLER
EL, ELEV	ELEVATION
ENC	ENCLOSE, ENCLOSURE
EQ, =	EQUAL (TO)
EQP, EQUIP	EQUIPMENT
EXH	EXHAUST
ED	EXHAUST DUCT
EF	EXHAUST FAN
EH	EXHAUST HOOD
EXIST.	EXISTING
EXP	EXPANSION
EXP	EXPOSED
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
ET	EXTENDED, EXTENSION
EPS	EXTRUDED POLYSTYRENE
EXT	EXTERIOR
FAB	FABRICATE
FO	FACE OF
FS, FOS	FACE OF STUD
FAS	FASTEN, FASTENER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FNDR	FEMININE NAPKIN DISPENSER UNIT
FNDP	FEMININE NAPKIN DISPOSAL UNIT
FF	FINISH FLOOR
FBD	FIBERBOARD
FGL	FIBERGLASS
FIL	FILLER (S)
FIN	FINISH
FFE	FINISH FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FTR	FINNED TUBE RADIATION
FA	FIRE ALARM STATION
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC, FXC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FH	FIRE HYDRANT
FMN	FIRE MAIN
FP	FIREPROOF (ING)
FR	FIRE RESISTANT
FRC	FIRE-RESISTANT COATING
FRT	FIRE-RETARDANT TREATMENT
FSP	FIRE STANDPIPE
FXD	FIXED
FXT	FIXTURE
FLG	FLASHING
FHCS	FLAT HEAD COUNTERSUNK SCREW
FHWS	FLAT HEAD WOOD SCREW
FLX	FLEXIBLE
FLR	FLOOR, FLOORING
FD	FLOOR DRAIN
FGR	FLOOR GRILLE (REGISTER)
FLU	FLUORESCENT
FL	FLOW LINE
FT	FOOT, FEET
FC	FOOTCANDLES
FTG	FOOTING
FWK	FORMWORK
FND, FDW	FOUNDATION (WALL)
FR	FRAME (D),(ING)
FBO	FURNISHED BY OTHERS
F & I	FURNISH & INSTALL
FURR	FURRING
FUT	FUTURE
FAI	FRESH AIR INTAKE
FRP	FIBER REINFORCED PLASTIC
FSL	FUSIBLE LINK
GAL	GALLON (S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GALV	GALVANIZED
GI	GALVANIZED IRON
GST	GALVANIZED STEEL
G	GAS
GKT	GASKET (ED)
GAV	GATE VALVE
GA	GAUGE
GLB	GLASS BLOCK
GMU	GLAZED MASONRY UNITS
GB	GRAB BARS
GRD	GRADE, GRADING
GRT	GRANITE
GVL	GRAVEL
GR	GRILLE
GD	GROUND (ED)
GT	GROUT (ED)
GYP. BD.	GYPSUM WALLBOARD
GWB	GYPSUM WALLBOARD
GYL	GYPSUM LATH
GFRC	GLASS FIBER REINF. CONC.
GPL	GYPSUM PLASTER
HH	HAND HOLD
HA	HANGER
HBD	HARDBOARD
HC	HANDICAP(PED)
HDN	HARDENER (ED)
HDW	HARDWARE
HWD	HARDWOOD
HD	HEAD
HDR	HEADER
HDE	HEAT DETECTOR
HTG	HEATING
HAC	HEATING & AIR CONDITIONING
H & V	HEATING & VENTILATING
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HVC	HEATING, VENTILATING, COOLING
Hz	HERTZ (CYCLES PER SECOND)
HPL	HIGH PRESSURE LAMINATE
HV	HIGH VOLTAGE
HWY	HIGHWAY
HO	HOLD OPEN
HCWD	HOLLOW CORE WOOD
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HK	HOOK (S)
HR	HOUR
HOR, HORZ	HORIZONTAL
HP	HORSEPOWER
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
HWC	HOT WATER, CIRCULATOR
HWF	HOT WATER FAUCET
HWH	HOT WATER HEATING
HWT	HOT WATER TANK
HYD	HYDRANT
IN	INCH
INCL	INCLUDING (ED),(SIVE)
INFO	INFORMATION
ID	INSIDE DIAMETER
INSL	INSULATE (D),(ATION)
IMC	INSULATED METAL CLAD
INT	INTERIOR, INTERNAL
INV	INVERT
IE	INVERT ELEVATION
IDM	ISOLATE DISC. METALS
JAN	JANITOR
JT	JOINT
JF	JOINT FILLER
JS	JOINT SEALER
J	JOIST
JCT	JUNCTION
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
K	KIP
KD	KNOCK DOWN
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE (D)
LAT	LATERAL
LAV	LAVATORY
LB	LAG BOLT
LBL	LABEL
LBS, #	POUND'S
LCC	LEAD COATED COPPER
LDR	LEADER
LH	LEFT-HAND
LWOD	LESS WIDTH OF DOOR
LIN	LINEN
LP	LIGHT PROOF
LS	LIMESTONE
LTL	LINTEL
LL	LIVE LOAD
LW	LIGHT WEIGHT
LP	LOW PRESSURE
LOC	LOCATION
LKR	LOCKER
LG	LONG, LENGTH
LONG	LONGITUDINAL
L or LH	LONG SPAN STEEL JOIST
LVR	LOUVER
LV	LOW VOLTAGE
LVT	LUXURY VINYL TILE
MB	MACHINE BOLT
MH	MANHOLE
MFD,MFR'D	MANUFACTURED
MFR	MANUFACTURER
MFG	MANUFACTURING
MBL	MARBLE
MK	MARK
MAS	MASONRY
MCJ	MASONRY CONTROL JOINT
MJ	MASONRY JOINT
MO	MASONRY OPENING
MTL	MATERIAL (S)
MAX	MAXIMUM
MC	MEDICINE CABINETS
MED	MEDIUM
MDF	MEDIUM DENSITY FIBERBOARD
MBR	MEMBER
MMB,MEMB	MEMBRANE
MTL	METAL
METC	METAL CLAD
ME	METAL EDGE
MRE	METAL ROOF DECK(ING)
M	METER (S)
MEZZ	MEZZANINE
MIC	MICROPHONE
MM	MILLIMETER
MWK	MILLWORK
MIN	MINIMUM
MIR	MIRROR
MIS	MISCELLANEOUS
MXV	MIXING VALVE
MOD	MODULAR
MLD	MOLDING
MDO	MEDIUM DENSITY OVERLAY
MT	MOUNT (ED), (ING)
MHT	MOUNTING HEIGHT
MUL	MULLION
NL	NAILABLE
NAT	NATURAL (FINISH)
NRC	NOISE-REDUCTION CO-EFFICIENT
NOM	NOMINAL
NC	NON-CORROSIVE
NIC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
NO.#	NUMBER
OC	ON-CENTER
K,L,H	OPEN-WEB STEEL JOIST
OPG, OPNG	OPENING
OPR	OPERATOR
OPP	OPPOSITE
O.H.,OPH	OPPOSITE HAND
OHS	OPPOSITE HAND SIMILAR
OSB	ORIENTED STRAND BOARD
OAE	OR APPROVED EQUAL
OZ	OUNCE (S)
OD	OUTSIDE DIAMETER
OA	OVERALL
OH	OVERHEAD
OHB	OVERHEAD BRACED
OHD	OVERHEAD DOOR
OF	OWNER FURNISHED
OFI	OWNER FURNISHED & INSTALLED
OFCI	OWNER FURNISH-CONTRACTOR INSTALL
OX	OXYGEN
PT	PRESSURE TREATED
PNT, PTD	PAINT, PAINTED
PR	PAIR
PNL	PANEL
PAR, //	*PARALLEL*
PBD	PARTICLE BOARD
PTN	PARTITION
PCT or %	PERCENT (AGE)
PF	PERFORATED (D)
PERIM	PERIMETER
PERP, ⊥	PERPENDICULAR
P	PHASE
P&I	PROVIDE & INSTALL
PLAS	PLASTER
PL	PLASTIC LAMINATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNU	PNEUMATIC
POL	POLISH (ED)
PE	PORCELAIN ENAMEL
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PIC	POURED INPLACE CONCRETE
PDF	POWER DRIVEN FASTENER (ING)
PCC	PRECAST CONCRETE
PREFAB	PREFABRICATED
PRN	PREFINISH (ED)
PRF	PREFORMED
PM	PREMOLDED
PMTL	PRESSED METAL
PVT	PRIVATE
PROJ	PROJECT
PRTYL, ⊮	PROPERTY LINE
PUB	PUBLIC
PA	PUBLIC ADDRESS SYSTEM
PB	PULL BOX
PU	PULL, PULL CHAIN
PP	PUMP
PD	PUMP DISCHARGE
PIV	POST INDICATOR VALUE
PC	PHYSICALLY CHALLENGED
PVC	POLY VINYL CHLORIDE
QT	QUARRY TILE
RW	RACEWAY
RAD	RADIATOR, RADIATION
RA, R	RADIUS
R	RISER
RL	RAIL, RAILING
RR	RAILROAD
RECP	RECEPTACLE
REF	REFERENCE
RFL	REFLECTIVE
RE	REFER TO
REG	REGISTER
RFC	REINFORCE (D) (ING)
RC	REINFORCED CONCRETE
REQ,REQ'D	REQUIRE(ED), REQUIREMENTS
R & S	REMOVE AND SALVAGE
R & D	REMOVE AND DISPOSE
R & R	REMOVE AND REINSTALL
RESIL	RESILIENT
RTN	RETAIN (ED) (ER) (ING)
RVS, REV	REVERSE (SIDE)
REV	REVISE (ED), REVISION
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RH	RIGHT HAND
ROW	RIGHT-OF-WAY
RD	ROOF DRAIN
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RU	RUBBER
RP	RUSTPROOF (ING)
SDL	SADDLE
SAN	SANITARY (SEWER)
SCN	SCREEN
SLT	SEALANT
SLR	SEALER
STG	SEATING
SEC	SECTION
SEL	SELECT (OR)
SPT	SEPTIC TANK
SVC	SERVICE
SSK	SERVICE SINK
STH	SHEATHING
SHT	SHEET
SH	SHELF, SHELVING
S & R	SHELF & ROD
SHR	SHOWER RECEPTOR
SIM	SIMILAR (TO)
SH	SINGLE HUNG
SK	SINK
SKL	SKYLIGHT
SL	SLEEVE
SDE, SD	SMOKE DETECTOR
SMV	SMOKE-VENTING HATCH
SCWD	SOLID CORE WOOD
SSM	SOLID SURFACE MATERIAL
SP	SOUNDPROOF
SPK	SPEAKER
SPEC	SPECIFICATIONS
SPF	SPECIFIED
SPR	SPRINKLER
SQ.	SQUARE
SF	SQUARE FOOT (FEET)
SY	SQUARE YARD
STAG	STAGGER
SS	STAINLESS STEEL
STD	STANDARD
ST	STEEL
STIFF	STIFFENER
STN	STONE
STO	STORAGE
SD	STORM DRAIN
ST	STREET
S	STRUCTURAL
SIP	STRUCTURAL INSULATED PANEL
SUP	SUPPORT
SUSP	SUSPENDED
SAT	SUSPENDED ACOUSTIC TILE
SUSP CEIL	SUSPENDED CEILING
SYM	SYMMETRY (ICAL)
SYS	SYSTEM
TB	TACKBOARD
TEL	TELEPHONE
TV	TELEVISION
TMP, TEMP	TEMPER (ED)
TCV	TEMPERATURE CONTROL VALVE
TP	TEST PIT
TZ	TERRAZZO
THM	THERMOMETER
THS	THERMOSTAT
TH	THICK, THICKNESS
THR	THRESHOLD
TCL	TIME CLOCK
TOL	TOLERANCE
TG, T & G	TONGUE AND GROOVE
TO	TOP OF
TOC	TOP OF CONCRETE / CURB
TOS, TS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSFORMER
TR	TRANSOM
TJI	TRUSS JOIST 'I' SECTION
TP	TURNING POINT
TYP	TYPICAL
TOM	TOP OF MASONRY
UHF	ULTRAHIGH FREQUENCY
UF	UNDERFLOOR (DUCT)
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UH	UNIT HEATER
UK	UNIT KITCHEN
UV	UNIT VENTILATOR
UAS	UPWARD ACTING SECTIONAL
VJ	V-JOINTED
VA	VACUUM
VAB	VACUUM BREAKER
VB	VAPOR BARRIER
VP	VAPORPROOF
VNR	VENEER
VE	VENT
VR, VTR	VENT THROUGH ROOF
VTR	VENTILATOR
VER, VERT	VERTICAL
VHF	VERY HIGH FREQUENCY
VLF	VERY LOW FREQUENCY
VI	VIBRATION ISOLATOR
VIF	VERIFY IN FIELD
VNL	VINYL
VCT	VINYL COMPOSITION TILE
VB	VINYL BASE
VF	VINYL FABRIC
VQT	VINYL QUARTZ TILE
VS	VINYL SHEET
VT	VINYL TILE
VIT	VITREOUS
VC	VITRIFIED CLAY
V	VOLT (AGE)
VWC	VINYL WALLCOVERING
WN	WAINSCOT
WH	WALL-HUNG
WHY	WALL HYDRANT
WTW	*WALL TO WALL*
W	WASTE
WR	WASTE RECEPTACLES
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WP	WATERPROOF (ED), (ING)
WPT (WP)	WORK (ING) POINT
WST	WEATHERSTRIPPING
WE	WEEPHOLE
WWF	WELDED WIRE FABRIC
WID	WIDE, WIDTH
WF,WF	WIDE-FLANGE BEAM
WG	WIRE GLASS
WM	WIRE MESH
W, W/	WITH
WIN	WITHIN
WO, W/O	WITHOUT
WD	WOOD
WB	WOOD BASE
WBM	WOOD BEAM
WBO	WORK BY OTHERS
WBOR	WORK BY OWNER
WBT	WORK BY TENANT
WK	WORK
WKRM	WORKROOM
WI	WROUGHT IRON
XR	X-RAY
Y	WYE FITTING
Z	ZONE
ZC	ZINC COATED
ZS	ZEE STUD

GRAPHIC SYMBOLS

CROSS REFERENCE TAGS

DETAIL # 1 — DRAWING # A101 — VIEW TITLE — DRAWING TITLE — SCALE: 1/8" = 1'-0" — DRAWING SCALE

EXTERIOR ELEVATION IDENTIFICATION TAG: DETAIL # 1, DRAWING # A101

DETAIL REFERENCE (ENLARGED & DETAIL VIEW): DETAIL # 1, DRAWING # A101

SECTION REFERENCE: DETAIL # 1, DRAWING # A101

SECTION DETAIL IDENTIFICATION TAG: DETAIL # 1, DRAWING # A101

CONSTRUCTION SYMBOLS

WALL TAG - WALL TYPE 1t, FIRE RATING 1hr

FLOOR TAG - FLOOR TYPE 1t, FIRE RATING 1hr

ROOF TAG - ROOF TYPE 1t, FIRE RATING 1hr

PLAN WORK NOTES: NOTE WITHOUT ARROW INDICATE ENTIRE SPACE or AREA — A1; NOTE WITH ARROWS INDICATE A SPECIFIC AREA or ITEM — A1

ELEVATION WORK NOTES: NOTES WITHOUT ARROW INDICATE ENTIRE SPACE/AREA — A1; NOTES WITH ARROWS INDICATE SPECIFIC AREAS &/OR ITEMS — A1

DOOR TAG

101.2 — DOOR # FIRST 3 NUMBERS DENOTES ROOM WHERE DOOR IS LOCATED, DECIMAL # INDICATES DOORS IN ROOM

WINDOW TAG

A — LETTER INDICATES WINDOW

ROOM IDENTIFICATION TAG: ROOM NAME — NAME; ROOM # — 101

PHYSICALLY CHALLENGED AND/OR HANDICAPPED ACCESSIBLE — HANDICAPPED TURNING RADIUS; HANDICAPPED CLEAR FLOOR AREA

DIMENSIONS

DIMENSIONS ARE TO FOS UNO — 1 1/4"

CENTERLINE — 1 1/4" — ℄ BM

CENTERLINE BM — 1 1/4" — ℄ COL

CENTERLINE COL — 1 1/4"

F.O. CMU — F.O. CMU — 1 1/4" — F.O. CMU

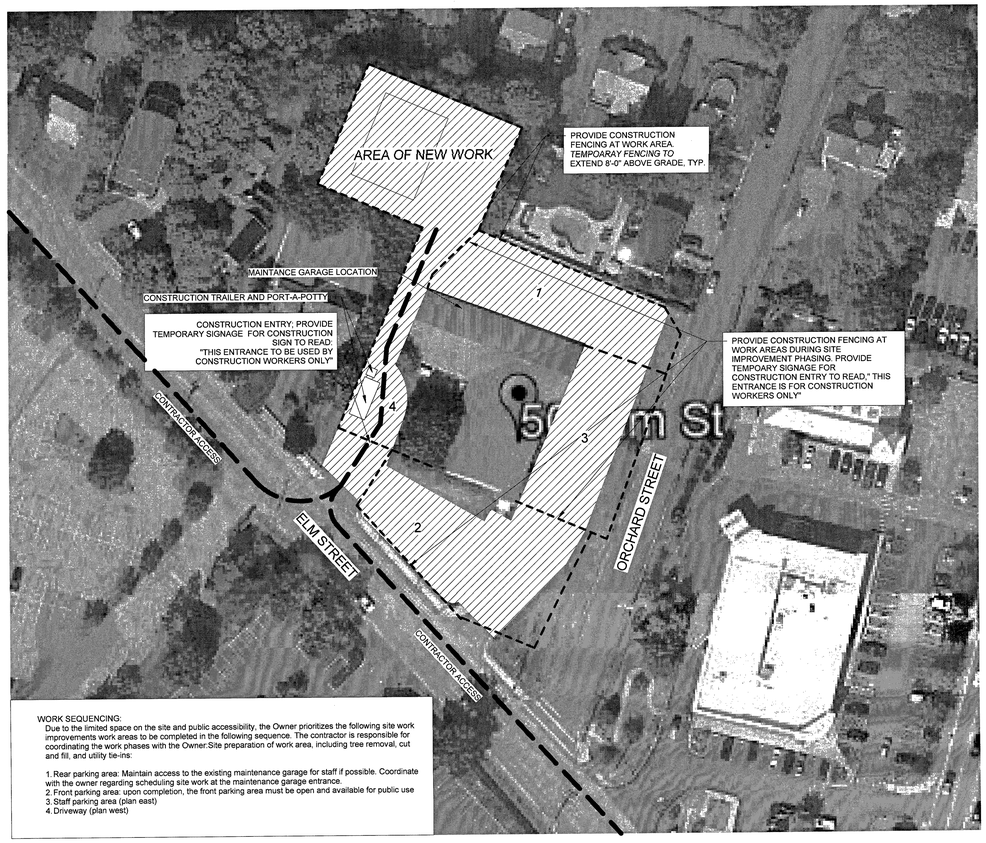
F.O. BRICK F.O. CONC — F.O. BRICK F.O. CONC — 1 1/4" — F.O. BRICK F.O. CONC

ALIGN SYMBOL — ALIGN

CENTERLINE SYMBOL — ℄

FINISH FLOOR ELEVATION / DATUM IN PLAN — 100'-0"

PROJECT NORTH ARROWS — NORTH; REFERENCE NORTH



WORK SEQUENCING:
Due to the limited space on the site and public accessibility, the Owner prioritizes the following site work improvements work areas to be completed in the following sequence. The contractor is responsible for coordinating the work phases with the Owner.Site preparation of work area, including tree removal, cut and fill, and utility tie-ins:

1. Rear parking area: Maintain access to the existing maintenance garage for staff if possible. Coordinate with the owner regarding scheduling site work at the maintenance garage entrance.
2. Front parking area: upon completion, the front parking area must be open and available for public use
3. Staff parking area (plan east)
4. Driveway (plan west)

TRUE NORTH

1 / G001 SITE ACCESS CONTROL
Scale: NTS

GENERAL NOTES

1. SCOPE: WORK TO INCLUDE DEMOLITION & CONSTRUCTION AS INDICATED ON THE DRAWINGS & SPECIFIED HEREIN. EACH CONTRACTOR TO FURNISH ALL LABOR & MATERIALS NECESSARY FOR A COMPLETE INSTALLATION. EACH CONTRACTOR SHALL RESPECT THE WORK OF OTHER SUBCONTRACTORS & ARE TO BE RESPONSIBLE & LIABLE TO REPAIR OR REPLACE ANY DAMAGE CAUSED BY THEIR WORK.
2. CODES: ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL & STATE CODES. VARIATIONS MAY BE ACCEPTABLE BASED ON DIRECTION OF THE AUTHORITY HAVING JURISDICTION.
3. EXAMINATION OF THE SITE & DOCUMENTS: THE CONTRACTOR, PRIOR TO SUBMITTING A PROPOSAL, SHALL VISIT THE SITE & EXAMINE CONDITIONS & LIMITATIONS WHICH EFFECT THE CONTRACT. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS.
4. TRASH REMOVAL: THE GENERAL CONTRACTOR IS RESPONSABLE FOR DUMPSTER & PICKUP SERVICE FOR ALL CONSTRUCTION DEBRIS (DUMPSTER LOCATION TO BE COORDINATED WITH CONSTRUCTION THE OWNER), AT END OF EACH DAY, THE GC SHALL REMOVE TRASH & DEBRIS FROM THE SITE OR THE BUILDING. IF TRASH & DEBRIS ARE NOT REMOVED, THE OWNER MAY (AT HIS OPTION) PAY FOR THIS REMOVAL & BACK CHARGE THE CONTRACTOR.

ADDITIVE ALTERNATE

ADD ALTERNATE NO. 1:

PROVIDE AND INSTALL ADA-COMPLIANT SINGLE-USER TOILET ROOM AND REQUIRED PLUMBING FIXTURES PER STATE PLUMBING CODE. CONSTRUCT METAL STUD AND GYPSUM WALL ASSEMBLIES TO THE UNDERSIDE OF THE STRUCTURE, PARTIAL CEILING ENCLOSURE, VERTICAL CHASE ON THE MEZZANINE LEVEL FOR ROOF PENETRATIONS, AND METAL DOOR, FRAME, AND ASSOCIATED HARDWARE. FINISHES INCLUDE ACT CEILING, WALL PAINT, EPOXY PAINT FOR FLOORING, 4" RUBBER WALL BASE, 4'-0" RFP WAINSCOTTING, AND TOILET ACCESSORIES. PROVIDE AND INSTALL FLASHING BOOT &/OR SHEET METAL FLASHING FOR PLUMBING AND MECHANICAL PENETRATIONS ON THE ROOF.

CIVIL WORK TO INCLUDE A SEPARATE SANITARY LINE TO TIE IN FROM THE EXISTING SEWER CONNECTION ON SITE.

PLUMBING WORK INCLUDES SUPPLY AND INSTALLATION OF PLUMBING FIXTURES, INCLUDING AN ADA-COMPLIANT TOILET, LAVATORY, AND UNDERSINK PROTECTIVE BOOT. WORK INCLUDES A UTILITY MOP SINK, DRINKING FOUNTAIN/BOTTLE FILLING STATION. ALL SANITARY LINES AND CONNECTIONS TO PLUMBING FIXTURES WILL BE PROVIDED AND INSTALLED. PROVIDE VENTILATION PLUMING STACK UP WALL AND ROOF PENETRATION. PROVIDE AN EXTENSION OF DOMESTIC WATER LINES FROM THE PROPOSED TIE-IN, AND A SEPARATE SANITARY LINE IN THE BUILDING.

MECHANICAL WORK WILL INCLUDE PROVIDING AND INSTALLATION AN EXHAUST FAN AND DUCTWORK THROUGH OF THE ROOF, INCLUDING ROOF PENETRATION.

ELECTRICAL WORK TO INCLUDE PROVIDING AND INSTALLING A 2X2 TROFFER LIGHT FIXTURE, A BATTERY-POWERED SMOKE DETECTOR, AN EMERGENCY BACKUP LIGHT FIXTURE, OCCUPANCY SENSOR, ALL POWER FOR ASSOCIATED MECHANICAL AND PLUMBING SENSOR ITEMS.

Certification

JOHN R. RADFORD — REGISTERED ARCHITECT — No.30758 — BOSTON, MA — COMMONWEALTH OF MASSACHUSETTS — 8-22-24

Drawn by ADC

Checked by AHB, JJR

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Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY AND SITE IMPROVEMENTS

50 ELM STREET
DEDHAM, MA 02026

Drawing Status

100% CONSTRUCTION DOCUMENTS

Issued On 8/20/2024

Sheet Contents

ABBREVIATIONS, SYMBOLS, & GENERAL NOTES

Project Number. 6790

Drawing No. G001

Sheet of

General Notes:

1. LOT SHOWN IS DESIGNATED AS LOT 1 ON DEDHAM ASSESSORS MAP 148

2. ZONING DISTRICT: SINGLE RESIDENCE B

3. OWNER OF RECORD: - DEDHAM WESTWOOD WATER DISTRICT
   50 ELM STREET
   DEDHAM, MA 02026
   BOOK 10454 PAGE 193

4. SITE IS NOT LOCATED IN FEMA FLOOD ZONE AS SHOWN ON FIRM PANEL 25021 C 0181 E EFFECTIVE ON JULY 17, 2012.

5. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.

Plan Reference:

1. TOPOGRAPHIC PLAN OF LAND - 50 ELM STREET DEDHAM, MASSACHUSETTS; BY BRENNAN CONSULTING; DATED FEBRUARY 25, 2022.

Dimensional Zoning Requirements:

Residential/Agricultural Zoning District

MINIMUM AREA	= 12,500 S.F.
MINIMUM FRONTAGE	= 95'
MINIMUM FRONT YARD SETBACK	= 25'
MINIMUM SIDE YARD SETBACK	= 15'
MINIMUM SIDE YARD SETBACK (1ST DET. ACCESSORY BLDG.)	= 5
MINIMUM REAR YARD SETBACK	= 25'
MINIMUM REAR YARD SETBACK (1ST DET. ACCESSORY BLDG.)	= 5
MAXIMUM HEIGHT	= 30 / 38'
MAXIMUM % BUILDING COVERAGE	= 30%

Construction Procedures and Sequencing

- THE CONTRACTOR SHALL ORGANIZE SITE CONSTRUCTION IN A MANNER WHICH WILL ENSURE THE IMMEDIATE STABILIZATION OF SURFACES. PERIMETER CONTROLS EQUAL APPROVED PROJECT LIMITS.
- PRIOR TO ANY CONSTRUCTION ON SITE, THE CONTRACTOR SHALL SETUP PRE-CONSTRUCTION MEETING WITH OWNER.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, A LINE STRAW WATTLES, WILL BE PLACED AT ALL CONSTRUCTION TOE OF SLOPES IN THE AREA OF ROADWAY, PONDS, LANDSCAPED AREAS, AND ALONG PERIMETER OF PROJECT LIMIT OF DISTURBANCE WHERE INDICATED ON PROJECT PLANS.
- RESERVE EROSION CONTROL DEVICES SHALL BE STOCKPILED ON SITE IN THE EVENT OF EMERGENCIES. AND SHALL BE LOCATED 100' FROM REGULATED WETLAND RESOURCE AREAS.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS FOR THE PROPER STORAGE AND/OR REMOVAL OF DEBRIS ON SITE TO AVOID UNNECESSARY ACCUMULATION ON SITE.
- DRAINAGE STRUCTURES SHALL BE CONSTRUCTED FROM DOWNSTREAM UP AND CONSTRUCTION SHALL INCLUDE THE PLACEMENT OF STONE AT THE FLARED PIPE ENDS AND OUTLET STRUCTURE INLETS AND OUTLETS AS SHOWN ON PROJECT PLANS.
- IN STREAM CONTROLS SUCH AS HAY BALE CHECK DAMS SHALL BE ESTABLISHED PRIOR TO CONSTRUCTION IF NEEDED.

INFILTRATION SURFACE PROTECTION

TO PROTECT THE INFILTRATION SURFACES (BENEATH AND ADJACENT TO THE RECHARGE SYSTEMS) FROM DEGRADATION BY CONSTRUCTION ACTIVITIES INCLUDE:

1. PROVIDE DEEP ROTOTILLING OF VAIN FLOOR 1 WITH NO SUBSEQUENT TRAFFICKING ON SURFACE.

2. PREVENTION OF CONTAMINATION OF THE EXPOSED SUBGRADE BY CONSTRUCTION VEHICLES.

3. PREVENTION OF EXCESSIVE COMPACTION BY CONSTRUCTION VEHICLES.

4. PREVENTION OF THE DISCHARGE OF WATER FROM CONSTRUCTION DEWATERING ACTIVITIES INTO THESE FACILITIES.

CONSTRUCTION INSPECTION

THE ENGINEER SHALL BE CALLED ON SITE DURING THE CONSTRUCTION OF THE INFILTRATION BASIN.

THE ENGINEER SHALL BE ON SITE DURING THE CONSTRUCTION AND LAYOUT OF ALL OUTLET STRUCTURES.

THE ENGINEER SHALL PERFORM FREQUENT INSPECTION OF THE STORMWATER SYSTEM DURING CONSTRUCTION, WITH CLEANING AND MAINTENANCE AS WARRANTED. DURING ACTIVE CONSTRUCTION PERIODS, WEEKLY INSPECTION IS REQUIRED.

IF CONSTRUCTION IS SUSPENDED (E.G., OVER THE WINTER), THEN MONTHLY INSPECTIONS ARE REQUIRED. IN ADDITION, THE SYSTEM SHOULD BE CHECKED AFTER ANY SIGNIFICANT RAINFALL, TO INSURE IT IS FUNCTIONING CORRECTLY AND TO MONITOR SEDIMENT ACCUMULATION FROM THE DISTURBED AREAS OF THE SITE.

ROUGH GRADING

DURING GRADING, THE POTENTIAL FOR EROSION IS HIGH. DURING GRADING OPERATIONS, DISTURBED SLOPES WILL BE MULCHED AND VEGETATION ESTABLISHED TO PREVENT SEDIMENT EROSION TO THE SATISFACTION OF THE ENGINEER.

Operation & Maintenance Plan Notes:

THE MAINTENANCE AND UPKEEP ON THE EXISTING ROADWAY WILL INCLUDE THE FOLLOWING ELEMENTS:

CONSTRUCTION VEHICLES SHALL BE LIMITED TO ONE ACCESS POINT ON EACH LOT WHERE A CRUSHED-STONE CONSTRUCTION PAD ENTRANCE SHALL BE INSTALLED IN THE AREA OF THE PERMANENT DRIVEWAY TO ENSURE THAT MUD AND DEBRIS ARE NOT TRACKED ONTO THE ROADWAY. IF MUD IS INADVERTENTLY TRACKED ONTO THE ROAD, IT SHOULD BE REMOVED PROMPTLY.

GENERAL MAINTENANCE OF EROSION CONTROL ELEMENTS INCLUDING REGRADING, REVEGETATION, REPLACING RIPRAP, ETC., ON AN AS NEEDED BASIS.

INFILTRATION FACILITY AND CATCH BASINS WILL BE INSPECTED SEMI-ANNUALLY BY THE OWNER AND WILL BE MAINTAINED AS REQUIRED.

BUILD UP OF SEDIMENTATION AND DEBRIS SHALL BE MONITORED AND REMOVED ON A SEMI-ANNUALLY BASIS IN ORDER TO KEEP THE DISCHARGES AND FLOWS INTO THE INFILTRATION FACILITY FUNCTIONING PROPERLY.

ALL STORMWATER MANAGEMENT SYSTEMS MUST HAVE AN OPERATION AND MAINTENANCE PLAN TO ENSURE THAT SYSTEMS FUNCTION AS DESIGNED.

THE OWNER WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM AND ALL OF ITS APPURTENANCES. THE FOLLOWING MAINTENANCE PROGRAM SHALL BE IMPLEMENTED:

A. CATCH BASIN INLETS

1. THE CATCH BASINS SHALL BE INSPECTED MONTHLY TO ASSURE THEY ARE FUNCTIONING PROPERLY, AND CLEANED BY REMOVING SEDIMENT AND DEBRIS FOUR TIMES PER YEAR. CLEANING SHALL BE PERFORMED BY USE OF A VACUUM TRUCK OR OTHER METHOD AS RECOMMENDED BY THE CATCH BASIN MANUFACTURER.
2. ALL SEDIMENT AND HYDROCARBONS (PETROLEUM PRODUCTS) SHALL BE PROPERLY HANDLED AND DISPOSED IN ACCORDANCE WITH APPLICABLE GUIDELINES.
3. ALL DRAINAGE SYSTEM OUTLETS SHALL ALSO BE INSPECTED FOR DEBRIS AND MAINTAINED ACCORDINGLY. INSPECTION AND MAINTENANCE SHALL OCCUR IN MAY AND DECEMBER OF EACH YEAR.
4. ALL INSPECTIONS AND MAINTENANCE SHALL BE PERFORMED BY QUALIFIED INDIVIDUALS. RECORDS OF THE INSPECTIONS AND MAINTENANCE SHALL BE KEPT FOR A PERIOD OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST.

B. UNDERGROUND INFILTRATION SYSTEM

1. THE INFILTRATION SYSTEMS SHALL BE INSPECTED AT LEAST EVERY SIX MONTHS AND AFTER EVERY MAJOR STORM DURING THE FIRST YEAR TO ASSURE THEY ARE FUNCTIONING PROPERLY,
2. ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY.
3. CLEANING SHALL BE PERFORMED BY USE OF A VACUUM TRUCK OR OTHER METHOD AS RECOMMENDED BY THE PIPING MANUFACTURE
4. ALL DRAINAGE SYSTEM OUTLETS SHALL ALSO BE INSPECTED FOR DEBRIS AND MAINTAINED ACCORDINGLY. INSPECTION AND MAINTENANCE SHALL OCCUR IN MAY AND DECEMBER OF EACH YEAR.
5. IF THE INFILTRATION FACILITY FAILS TO DRAIN WITHIN 72 HOURS THEN A QUALIFIED PROFESSIONAL SHOULD ACCESS THE DEVICES AND PROVIDE RECOMMENDATIONS FOR CORRECTIVE ACTIONS, AND THE OWNER SHOULD TAKE IMMEDIATE ACTION TO IMPLEMENT THESE RECOMMENDATIONS TO RESTORE THE INFILTRATION FUNCTION.
6. ALL INSPECTIONS AND MAINTENANCE SHALL BE PERFORMED BY QUALIFIED INDIVIDUALS. RECORDS OF THE INSPECTIONS AND MAINTENANCE SHALL BE KEPT FOR A PERIOD OF FIVE (5) YEARS AND SHALL BE MADE AVAILABLE UPON REQUEST.

THE OWNER SHALL KEEP A WRITTEN RECORD OF INSPECTION DATES AND FINDINGS, MAINTENANCE OPERATIONS, AND ALL REPAIRS. AN INSPECTION/MAINTENANCE CHECKLIST SHALL BE USED IN THE SPECIFIED INSPECTIONS. RECORDS OF INSPECTIONS AND MAINTENANCE SHALL BE KEPT FOR AT LEAST THREE YEARS, AND AVAILABLE ON REASONABLE NOTICE FOR INSPECTION BY THE APPROPRIATE TOWN AGENCY.

Erosion & Sediment Control Notes:

1. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. GRAVEL CONSTRUCTION ENTRANCE WILL BE INSTALLED BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF PROJECT AREA BEGINS. STABILIZATION OF ALL REGRADED AND SOIL STOCKPILE AREAS WILL BE INITIATED AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL MUNICIPALITIES REGULATIONS. ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL DURING CONSTRUCTION.
3. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION PERIOD, IF DEEMED NECESSARY BY THE ENGINEER OR TOWN AGENCIES.
4. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION. ADDITIONAL MEASURES WILL BE REQUIRED TO PREVENT SEDIMENT DISCHARGE INTO THE STREET. AND DRAINAGE SYSTEMS.
5. SEEDING MIXTURE FOR FINISHED GRASSED AREAS WILL BE AS FOLLOWS:
   KENTUCKY BLUE GRASS = 45
   CREEPING RED FESCUE = 45
   PERENNIAL RYE GRASS = 10
   SEED TO APPLIED AT A RATE OF 4 LBS / 1000 S.F. FERTILIZER SHALL BE APPLIED AT A RATE OF 2 LBS / 1000 S.F. PLANTING SEASON SHALL BE APRIL 1 TO OCTOBER 15. AFTER OCTOBER 15 AREAS NOT SEEDED SHALL BE STABILIZED WITH STRAW WATTLES, HAY BALE CHECK DAMS, FILTER FABRIC OR WOODEN MULCH AS REQUIRED TO CONTROL EROSION.
6. AREAS LEFT BARE BEFORE FINISH GRADING AND SEEDING IS ACHIEVED, SHALL RECEIVE A TEMPORARY SEEDING OF PERENNIAL RYE GRASS APPLIED TO A RATE OF 2 LBS / 1000 S.F. AT A DEPTH OF 1/2". LIMESTONE (EQUIVALENT TO BE 50 % CALCIUM PLUS MAGNESIUM OXIDE) SHALL BE APPLIED AS SEEDBED PREPARATION AT A RATE OF 120 LBS / 1000 S.F.. WHERE GRASS PREDOMINATES, FERTILIZE ACCORDING TO A SOIL TEST AT A MINIMUM APPLICATION RATE OF 1 LB OF NITROGEN PER 1000 S.F. AREAS TO BE LEFT BARE BEFORE FINISH GRADING AND SEEDING OUTSIDE OF PLANTING SEASONS SHALL RECEIVE AN AIR-DRIED WOOD CHIP MULCH, FREE OF COURSE MATTER, TREATED WITH 12 LBS NITROGEN PER TON, APPLIED AT A RATE OF 185-275 LBS / 1000 S.F.
7. CONTRACTOR SHALL BE ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFY THE PROPER TOWN AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY. THE OWNER SHALL BE RESPONSIBLY FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
8. THE CONTRACTOR SHALL REQUEST THE APPROPRIATE TOWNS AGENCIES TO INSPECT AND APPROVE THE INSTALLATION OF ALL EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION. PERIODIC INSPECTIONS OF EROSION CONTROL MEASURES MAY BE PERFORMED BY THE AGENCIES, THE CONTRACTOR SHALL REPAIR, UPGRADE OR REPAIR ANY MEASURES THE AGENT MAY FEEL ARE IN NEED OF SUCH.
9. STOCKPILES OF SOIL SHALL BE SURROUNDED BY A SEDIMENT BARRIER. SOIL STOCKPILES TO BE LEFT BARE FOR MORE THAN FIFTEEN (15) DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH, IF STOCKPILES ARE TO REMAIN FOR MORE THAN SIXTY (60) DAYS, FILTER FABRIC SHALL BE USED IN PLACE OF HAY BALES. SIDE SLOPES SHALL NOT EXCEED 2:1.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE LIFE OF HIS CONTRACT. DUST CONTROL SHALL INCLUDE BUT NOT LIMITED TO SPRINKLING WATER ON EXPOSED SOILS AND HAUL ROADS. CONTRACTOR SHALL CONTROL DUST TO PREVENT A HAZARD TO TRAFFIC ON ADJACENT ROADWAYS.
11. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES ¼ TO ½ THE HEIGHT OF THE SILT FENCE OR HAY BALE, OR SILT SOCK.
12. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.
13. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED.
14. ALL FACILITIES USED AS TEMPORARY MEASURES SHALL BE CLEANED PRIOR TO BEING PUT INTO FINAL OPERATION.
15. PER THE MA DEP, BMP'S ARE NOT TO BE USED FOR TEMPORARY STORMWATER RUNOFF COLLECTION DURING THE PROJECTS CONSTRUCTION.

Observation Test Hole TH1

DEPTH	HORIZON	TEXTURE	COLOR	REDOX	OTHER g-gravel, c-cobbles, s-stone, b-boulders
0" - 48"	FILL/HTM	-	-	-	mix, sandy loam, loamy sand, g, c, s, b, loose
48" - 60"	bAp	gls	10YR3/2	-	p-plowed, gls, gravelly loamy sand, c, loose
60" - 72"	bBw	gls	10YR5/8	-	gls, c, loose
72" - 144"	bC	gls	10YR7/2	-	gls, c, loose

GWT OBSERVATIONS: NO STANDING / NO WEEPING — DATE: 2-9-2024
ESTIMATED SEASONAL HIGH WATER: > 144" — BY: MICHAEL S. FARIA

Observation Test Hole TH2

DEPTH	HORIZON	TEXTURE	COLOR	REDOX	OTHER g-gravel, c-cobbles, s-stone, b-boulders
0" - 48"	FILL/HTM	-	-	-	mix, sandy loam, loamy sand, g, c, s, b, loose
48" - 60"	bAp	gls	10YR3/2	-	p-plowed, gls, gravelly loamy sand, c, loose
60" - 72"	bBw	gls	10YR5/8	-	gls, c, loose
72" - 144"	bC	gls	10YR7/2	-	gls, c, loose

GWT OBSERVATIONS: NO STANDING / NO WEEPING — DATE: 2-9-2024
ESTIMATED SEASONAL HIGH WATER: > 144" — BY: MICHAEL S. FARIA

Observation Test Hole TH3

DEPTH	HORIZON	TEXTURE	COLOR	REDOX	OTHER g-gravel, c-cobbles, s-stone, b-boulders
0" - 6"	Ao	gls	10YR3/2	-	o-organic, gls, gravelly loamy sand, c, loose
6" - 24"	Bw	gls	10YR5/8	-	gls, c, loose
24" - 144"	C	gls	10YR7/2	-	gls, c, loose

GWT OBSERVATIONS: NO STANDING / NO WEEPING — DATE: 2-9-2024
ESTIMATED SEASONAL HIGH WATER: > 144" — BY: MICHAEL S. FARIA

Certification

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PAUL D. CARLSON
CIVIL
NO. 40995
REGISTERED PROFESSIONAL ENGINEER

Drawn by LJG

Checked by PDC

Revised on
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STORAGE FACILITY

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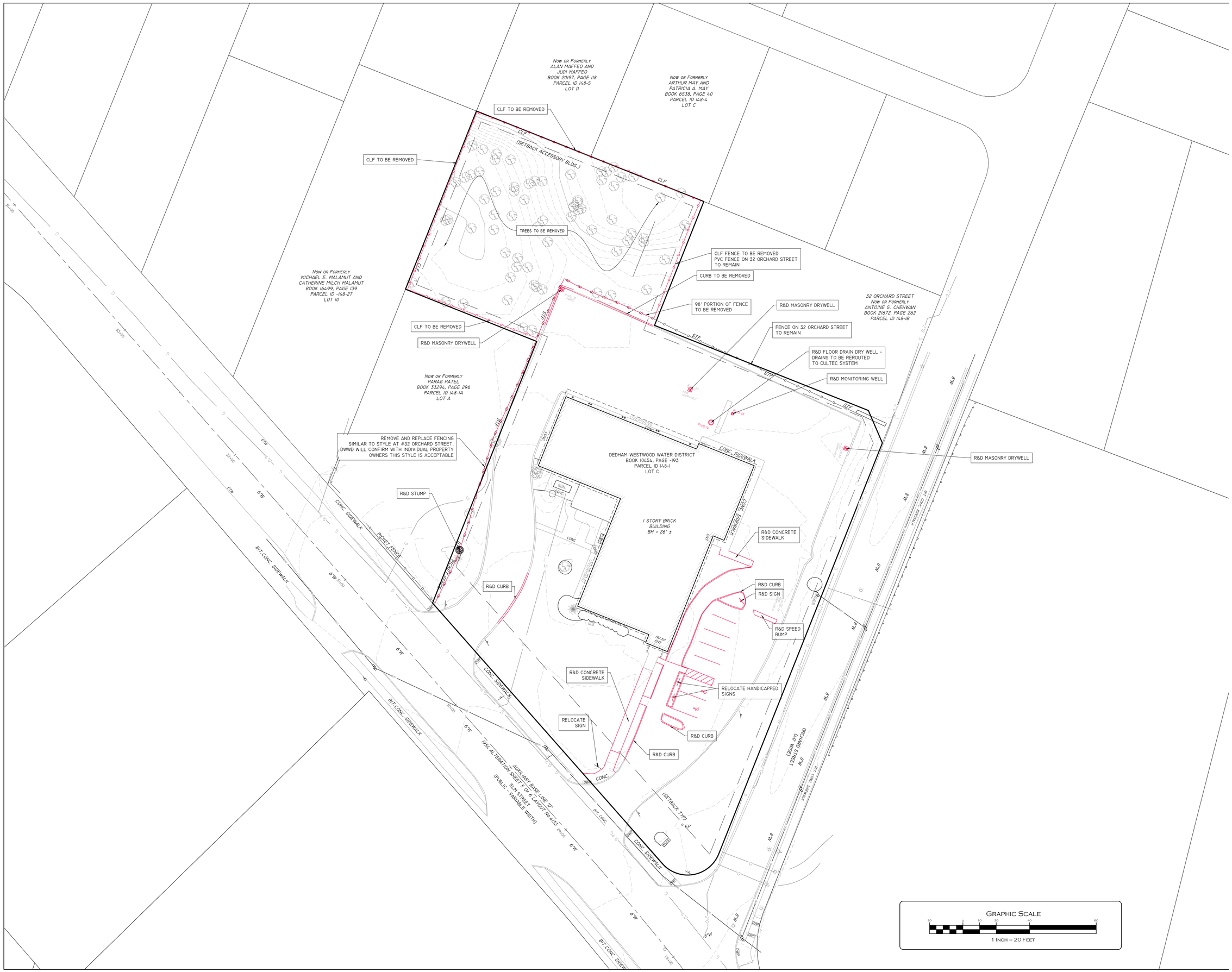
Sheet Contents
PROJECT NOTES

Project Number. 6790

Drawing No. C001

Sheet 1 of 8



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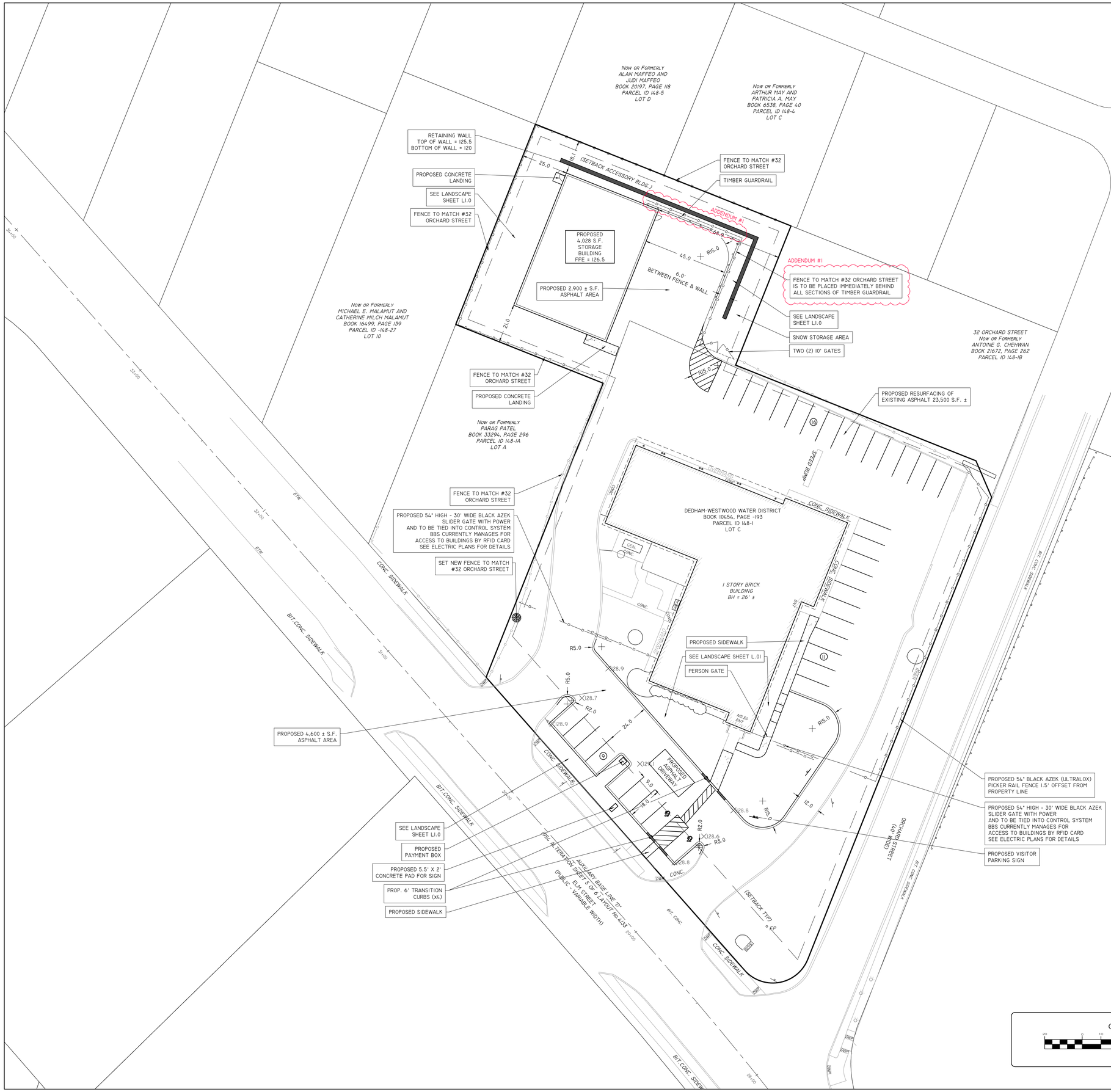
Sheet Contents
DEMOLITION PLAN

Project Number. 6790

Drawing No.
C002

Sheet 2 of 8



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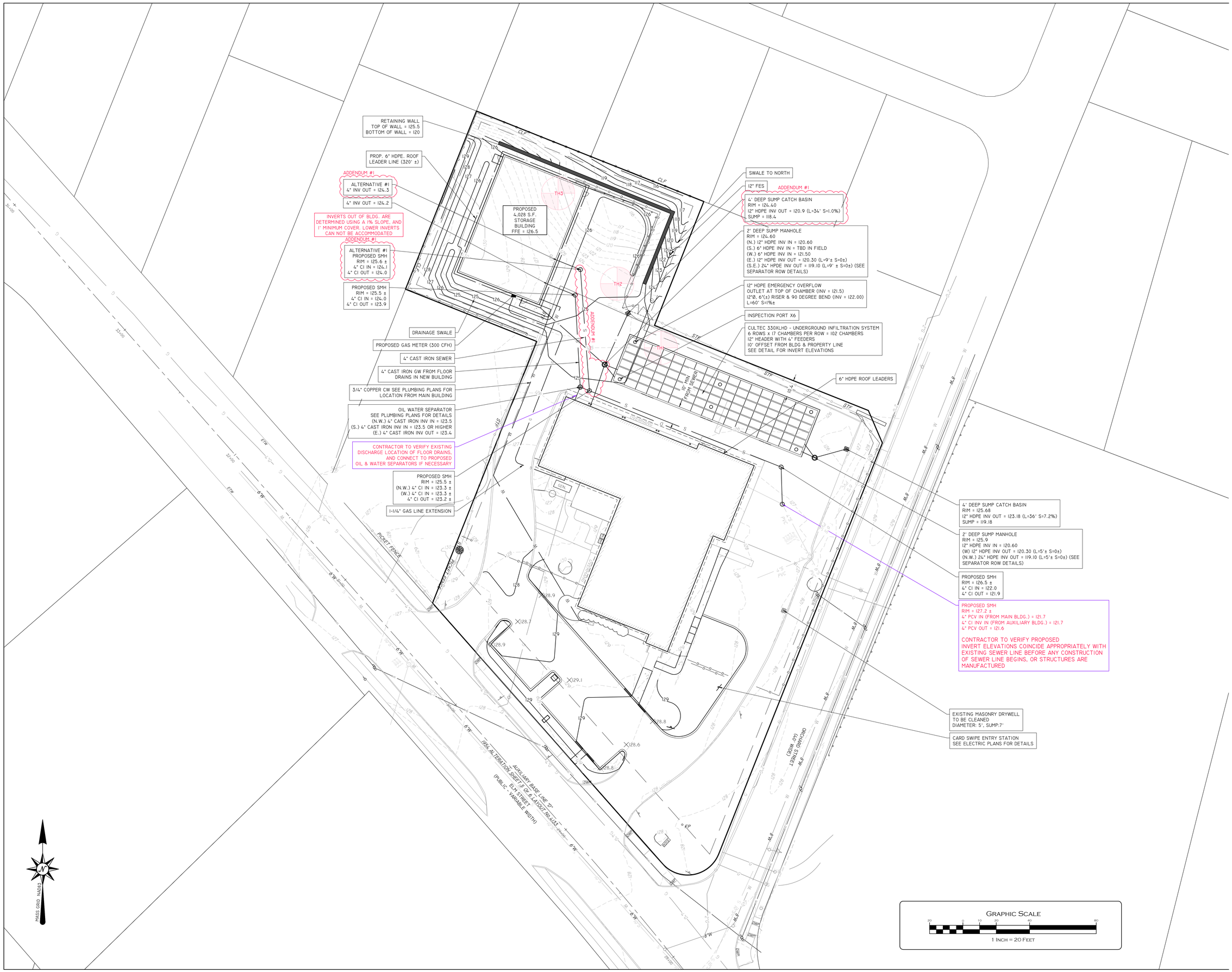
Sheet Contents
SITE LAYOUT PLAN

Project Number. 6790

Drawing No.
C003

Sheet 3 of 8



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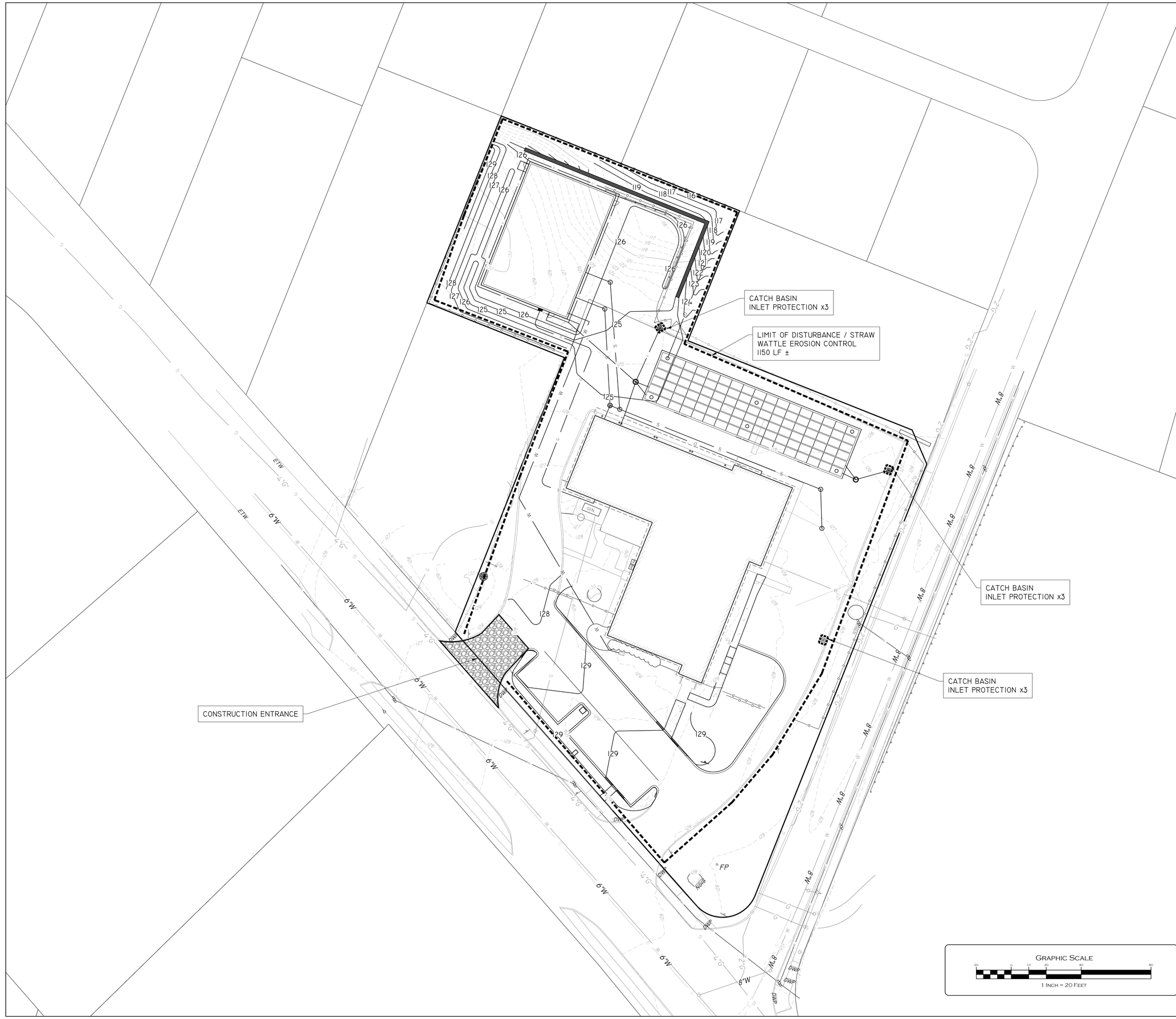
Sheet Contents
GRADING, DRAINAGE, AND UTILITY PLAN

Project Number. 6790

Drawing No.
C004

Sheet 4 of 8



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Sheet Contents

EROSION & SEDIMENT CONTROL PLAN

Project Number. 6790

Drawing No.

C005

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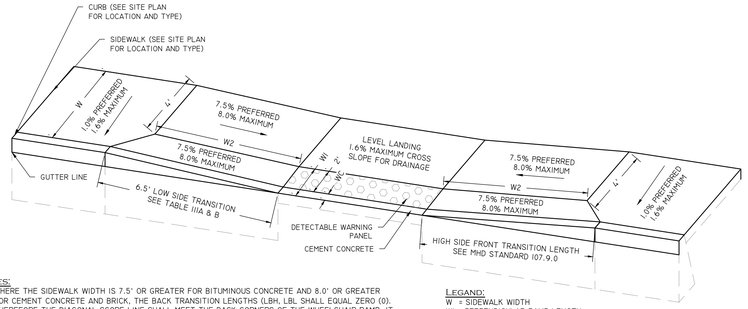
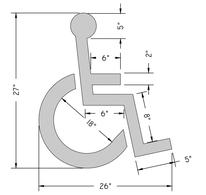


NOTES:
1. WHERE THE SIDEWALK WIDTH IS 7.5' OR GREATER FOR BITUMINOUS CONCRETE AND 8.0' OR GREATER FOR CEMENT CONCRETE AND BRICK, THE BACK TRANSITION LENGTHS (LBH, LBL SHALL EQUAL ZERO (0). THEREFORE THE DIAGONAL SCORE LINE SHALL MEET THE BACK CORNERS OF THE WHEELCHAIR RAMP. IT SHOULD BE NOTED THAT THE RAMP SLOPE SHALL BE LESS THAN 11.0' FOR BITUMINOUS CONCRETE AND GREATER THAN 8.0' TO LESS THAN 11.0' FOR CEMENT CONCRETE AND BRICK.
2. TRANSITION CURB SHALL BE PART OF THE HANDICAP RAMP WORK.

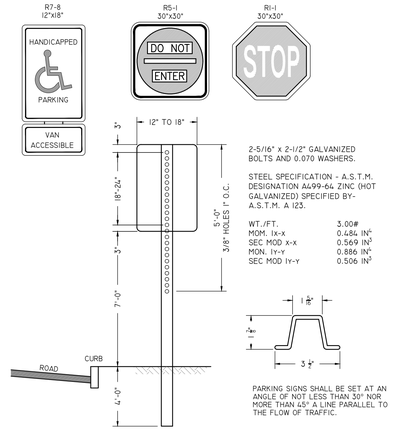
LEGEND:
W = SIDEWALK WIDTH
WI = PERPENDICULAR RAMP LENGTH
W2 = PARALLEL RAMP LENGTH
WC = CURB WIDTH

WHEELCHAIR RAMP DETAIL
NOT TO SCALE



NOTES:
1. ALL HANDICAP PARKING AND SIGNALS SHALL BE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECTURAL BARRIERS BOARD

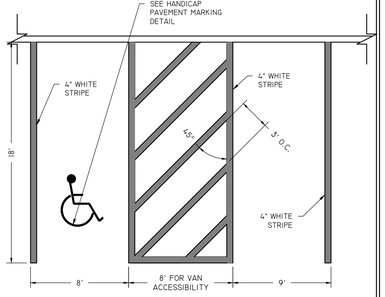
HANDICAP PAVEMENT MARKING
NOT TO SCALE



SIGN MOUNTING NOTES:
1. ALL LAG SCREWS, BOLTS AND WASHERS SHALL BE GALVANIZED 5/16"X2 1/2" LONG UNLESS OTHERWISE NOTED.
2. WASHERS SHALL BE 0.07" THICK.
3. ALL SIGN COLORS, RADII AND BORDERS AS SPECIFIED IN MANUAL ON "UNIFORM TRAFFIC CONTROL DEVICES" OR AS SPECIFIED BY MHD

HANDICAP SIGN NOTES:
1. ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE ARCHITECTURAL BARRIERS BOARD.
2. SIGN(S) SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
3. FOR HANDICAPPED VAN SPACE USE SIGN AS DETAILED
4. FOR HANDICAPPED SPACE FOR AUTOMOBILES USE ONLY HANDICAPPED PARKING SIGN.

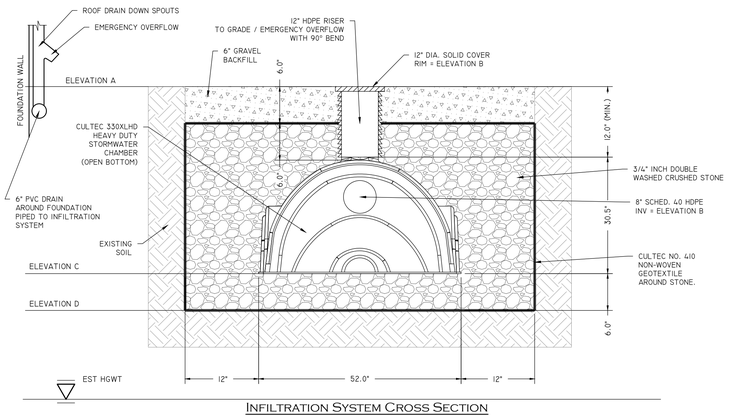
SIGN MOUNTING
NOT TO SCALE



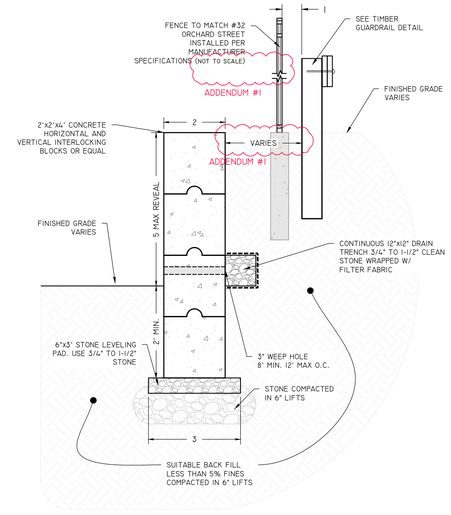
NOTES:
1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.

HANDICAP PARKING AND STANDARD STALLS
NOT TO SCALE

INFILTRATOR INVERT ELEVATIONS	
ELEVATION A	126.20-124.80
ELEVATION B	120.30
ELEVATION C	119.00
ELEVATION D	118.50
SHWT	113.00

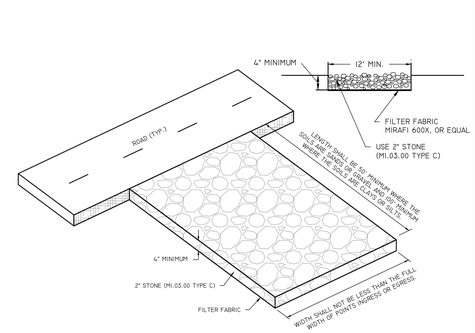


INFILTRATION SYSTEM CROSS SECTION
NOT TO SCALE



NOTES:
1. BOTTOM BLOCK TO BE 24" MIN. BELOW GRADE PLACED ON A 6" THICK x3' WIDE STONE LEVELING PAD. CONSTRUCTED WITH 3/4" TO 1-1/2" STONE.
2. REMOVE UNSUITABLE SOIL BELOW WALL AND REPLACE WITH STONE COMPACTED IN 6" LIFTS.
3. A 5' MAXIMUM WALL REVEAL SHALL BE MAINTAINED.
4. REFERENCE METHOD OF SETTING VERTICAL CURB, TIMBER GUARDRAIL, AND 4' ORNAMENTAL FENCE, AND LANDSCAPE DETAILS AND NOTES WHILE INSTALLING RELEVANT COMPONENTS.

INTERLOCKING BLOCK WALL DETAIL
SCALE: N.T.S.

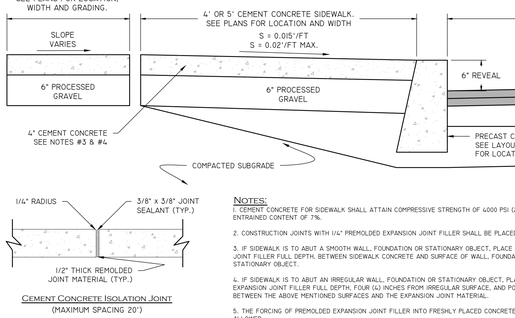


INSTALLATION:
THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS, AS NOTED ABOVE.

MAINTENANCE:
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT- OF-WAYS THIS WILL 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-WAYS MUST BE REMOVED IMMEDIATELY.

LOCATION:
SEE OVERALL SHEET FOR LOCATION OF CONSTRUCTION ENTRANCE.

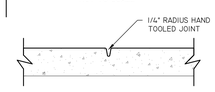
CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



CEMENT CONCRETE ISOLATION JOINT
(MAXIMUM SPACING 20')

NOTES:
6. THE MAXIMUM TOLERANCE FOR THE 6" CONCRETE THICKNESS IS ±1/2".
7. GRAVEL BORROW SHALL CONFORM TO DOT STD. SPECIFICATION MATERIALS SECTION
8. BITUMINOUS CONCRETE BERM SHALL BE MONOLITHIC PLACE WITH TOP COURSE OF BITUMINOUS PAVEMENT.
9. USE 75° FOR TYPE A BITUMINOUS CONCRETE BERM WHEN USED WITH ADJACENT LOAM AREA FOR APPLICATION WITH SIDEWALK USE 90° ANGLE FOR BACK OF BERM.
10. PROCESSED GRAVEL FOR SUBBASE COURSE SHALL CONFORM TO DOT STD. SPECIFICATION MATERIALS SECTION
11. MACHINE APPLIED TACK COAT SHALL BE APPLIED ON TOP OF BINDER COURSE BEFORE FINAL PAVEMENT. TACK COAT SHALL CONFORM TO DOT. STD. SPECIFICATIONS MATERIALS SECTION

BITUMINOUS CONCRETE PAVEMENT
NOT TO SCALE



CEMENT CONCRETE CONTROL JOINT
(MINIMUM SPACING 4' OR AS INDICATED ON THE PLANS)

PAVEMENT, SIDEWALK AND WALKWAY DETAIL
NOT TO SCALE

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Project Number. 6790

Drawing No.
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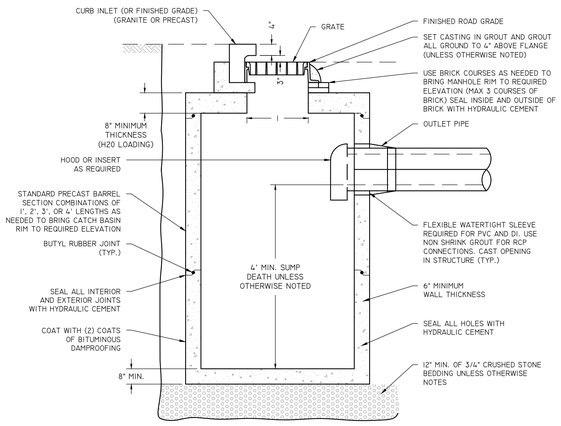
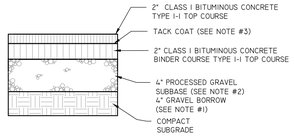


Precast Concrete Catch Basin or Manhole With Oil And Water Separator Detail

NOT TO SCALE



Notes:

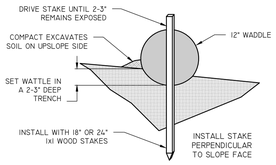
1. GRAVEL BORROW SHALL CONFORM TO DOT STD. SPECIFICATION MATERIALS SECTION
2. PROCESSED GRAVEL FOR SUBBASE COURSE SHALL CONFORM TO DOT STD. SPECIFICATION MATERIALS SECTION
3. MACHINE APPLIED TACK COAT SHALL BE APPLIED ON TOP OF BINDER COURSE BEFORE FINAL PAVEMENT. TACK COAT SHALL CONFORM TO DOT. STD. SPECIFICATIONS MATERIALS SECTION

Bituminous Concrete Pavement Detail

NOT TO SCALE

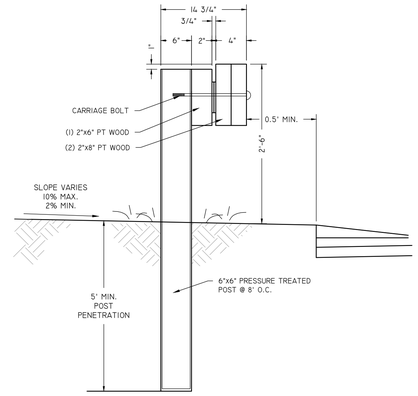
Erosion & Sedimentation Control:

1. BEGIN AT THE LOCATION WHERE WATTLE IS TO BE INSTALLED BY EXCAVATING 2-3" DEEP x 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18-24" STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
4. CONTRACTOR IS RESPONSIBLE TO MAINTAIN INTEGRITY OF STRAW WATTLE FOR DURATION OF CONSTRUCTION.
5. EROSION CONTROLS TO REMAIN UNTIL SOIL CONDITIONS STABILIZE.
6. LOOSE HAY TO BE SPREAD ON AREAS OF EXPOSED LOAM & SEED UNTIL GERMINATION AND STABILIZATION OCCURS.



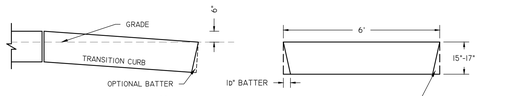
Straw Wattle (Or Silt Sock) Detail

NOT TO SCALE



Timber Guardrail Detail

NOT TO SCALE

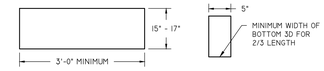


Notes:

1. TOP SURFACE TO BE DRESSED BY SAW OR TOOL.

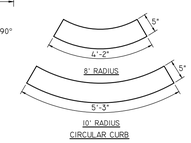
6' Precast Transition Curb

NOT TO SCALE



Notes:

1. MAXIMUM LENGTHS USING 8' & 10' RADII, WITH 90° ANGLE, ARE 4'-2" AND 5'-3" RESPECTIVELY.
2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
3. TOP SURFACE TO BE DRESSED BY SAW.
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 100' OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 100' RADIUS.



Precast Concrete Curb

NOT TO SCALE

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Project Number. 6790

Drawing No.

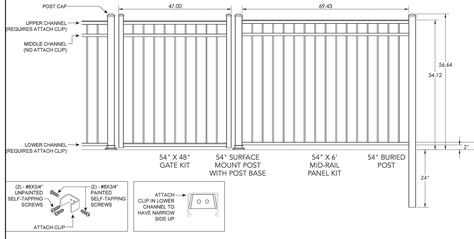
C007

Sheet 7 of 8

ALUMINUM FENCE INSTALLATION INSTRUCTIONS

FENCE ASSEMBLY OVERVIEW

- 6' X 54" PANELS WITH MIDRAIL SHOWN
- POST AND PANEL HEIGHTS VARY BY FENCE SYSTEM
- BURIED POST DEPTHS AND PANEL WIDTHS ARE CONSISTENT BETWEEN SYSTEMS



ITEMS REQUIRED FOR INSTALLATION

SAFETY GLASSES, TAPE MEASURE, PENCIL, LEVEL, MITER SAW WITH NON-FERROUS BLADE, IMPACT DRIVER (OR CORDLESS DRILL), 4 CLAMPS, 3/16" DRILL BIT, CONCRETE DRILL BIT (SURFACE MOUNT POSTS), 6" #2 SQUARE DRIVE BIT

ITEMS REQUIRED FOR BURIED POSTS

WOOD STAKES, HAMMER/MALLET FOR WOOD STAKES, MASONRY STRING, POWER AUGER OR POST HOLE DIGGER, SHOVEL, CONCRETE MIX

IMPORTANT NOTES:

- Actual fence panel widths: 6' Panels = 69.43"
- 3" posts are required to reach 6' lengths.
- Panel attach kits are included with panel kits. If panels are cut down and used as two pieces, additional panel attach kits may be purchased separately.
- Fence Panels are slightly adjustable and will accommodate sloped ground surfaces up to an 8° angle, but will reduce the distance allowed between posts. CAUTION: Over adjusting panels will cause loose and rattling pickets.
- 45° fence angles require 22.5° clips applied to each side of the post. The 22.5° clip kit is sold SEPARATELY.
- These Instructions cover installation of Aluminum Fence. Please visit Manufacturer's website for other instructions and products.
- These instructions cover installation of 6' W x 48" H panels and 6' W x 54" Mid-Rail Panels. Most illustrations are based on the 6' W x 54" H panels.
- It is the responsibility of the installer to meet all local code requirements and obtain all required building permits. The installer should determine and implement appropriate installation techniques for each installation situation. The manufacturer or its reseller shall not be held responsible for improper or unsafe installation.

BEFORE YOU BEGIN:

- Check your local zoning laws.
- Local zoning laws and Home Owners Associations may regulate the location, style and height of your fence or even require a permit signoff beforehand.
- Check local codes for frost line depth and regulations.
- Contact your local utilities companies.
- You must have the utility companies clearly mark your property for electrical, gas or water lines to avoid puncturing any unseen underground utilities.
- Check for pool equipment and utility lines. Typically, a utility company does not mark private underground lines. If you are not 100% certain, contact your pool installer for assistance and ask them to mark all underground lines.

WARNINGS:

- Improper installation of this product can result in personal injury. Always wear safety goggles when cutting, drilling and assembling the product.
- Incorrect installation may cause harm to the product or individual.
- DO NOT attempt to assemble products if parts are missing or damaged.

ALUMINUM FENCE INSTALLATION INSTRUCTIONS

A LAY OUT THE PERIMETER

FOR BURIED POSTS:

1. Establish your fence line by staking out the area you wish to enclose. Place a stake at all corners, then stretch a masonry string between them to provide straight guide lines. (Dia.1) TIP: Set the string at exactly 3 1/16" above the ground surface. This will help later to set posts and clips to the correct height.
2. Locate each point in which you will need an end, corner or gate post and mark it with a stake (Dia. 1). The maximum gap between end posts and a wall or other structure should be less than a 4".
3. Mark the location of all inline posts with stakes. For 6' sections using 3" posts, measure 72" between centers (Dia. 1). Actual fence panel widths: 6' Panels = 69.43". 3" posts are required to reach 6' lengths. TIP: Fence panels will allow for a MAXIMUM of 72.43" on center. It is easier to cut a panel to a shorter width than to relocate post(s) which are too far apart.

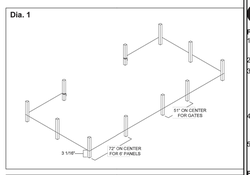
IMPORTANT NOTE: Installing on sloped terrain will reduce distance between posts. Panels can be racked up to 8°. Over adjusting panels can cause loose and rattling pickets. On sloped terrain, it is recommended to test fit and measure panels by setting them on the ground, adjusting for level and measuring the horizontal width from end to end. Be sure to compensate for the angle as panels should be cut at an angle to align with the posts. (Dia. 2)

4. Mark the location of gate(s) by placing a stake at each post. Fence gates are 47" wide and require a space of 48" between posts, so 3" posts should measure 51" from center to center. Fence gates cannot be racked and hinges must align, so the posts on each side of gates must be plum and level with each other. (Dia. 3)
5. The maximum gap between end posts and a wall or other structure should be less than a 4".

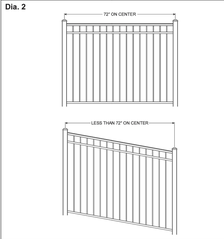
FOR SURFACE MOUNT POSTS:

1. Establish your fence line by marking each point in which you will need an end, corner or gate post. The maximum gap between end posts and a wall or other structure should be less than a 4".
2. Mark the location of all inline posts. For 6' sections using 3" posts, measure 72" between centers (Dia. 2). Actual fence panel widths: 6' Panels =69.43". 3" posts are required to reach 6' lengths. TIP: Fence panels will allow for a MAXIMUM of 72.43" on center. It is easier to cut a panel to a shorter width than to relocate post(s) which are too far apart.
3. Mark the location of gate(s). Fence gates are 47" wide and require a space of 48" between posts, so 3" posts should measure 51" from center to center. Fence gates cannot be racked and hinges must align, so the posts on each side of gates must be plum and level with each other. (Dia. 3)

Dia. 1



Dia. 2



Dia. 3

ALUMINUM FENCE INSTALLATION INSTRUCTIONS

B INSTALL POSTS

FOR BURIED POSTS:

1. Dig a post hole 6" in diameter and down to your specified frost line. Ideally, holes will have a mushroom shape so they are flared out near the bottom.
2. Pour mixed concrete into the hole to bring the depth to 12" below grade.
3. Align the post centered with staked/marked location and slide the post into the hole about 12" into the mixed concrete, checking to make sure it sits at exactly 24" deep. Post height varies by fence system, so it may be helpful to pre-measure and mark posts or to measure exposed portion of post. Use a level on adjacent sides to bring the post to plumb.
4. Add mixed concrete to fill the hole to 3-4" below grade while keeping the post centered and plumb. Place some dirt on top of the hole and pack it tight. This will help hold the post in place.
5. Repeat this process for all additional posts. TIP: It may be helpful to install corner posts, then stretch another masonry string between the tops of them after concrete sets. This is helps to align inline posts.

FOR SURFACE MOUNT POSTS:

1. For residential deck applications, install proper post blocking as per (Dia. 5). Use proper attachment screws or anchors as directed. (post-to-surface screws are not included with kits).
2. For residential deck applications, pre-drill through deck boards and into blocking with a 3/16" drill bit. For residential concrete applications, pre-drill and secure with concrete anchors. For all other surfaces, check local zoning and/or building codes or consult a licensed professional.
3. Level and plumb post using shims.
4. Secure posts to surface with suggested screws. (Dia. 5)
5. Do not install post caps until all fence panels are installed.

C PREPARE POSTS

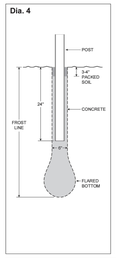
1. For all sides of posts which will hold a fence panel, measure 3 1/16" from ground/surface and place a pencil mark for location of the top edge of the lower attach clip. (Dia. 6) This measurement provides a 2" gap between the lower channel and the ground/surface and this may be adjusted. NOTE: Ensure panel will fit below post caps if adjusting for larger bottom gap.
2. Center the lower attach clip with narrow side up on post and secure with (2) - #8x3/4" Unpainted Self-tapping Screws.
3. Repeat this for all sides of posts which will support a fence panel.

D INSTALL GATE(S)

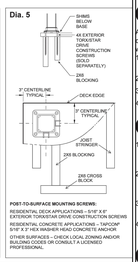
After concrete has set, start the installation of fence panels at an end or corner post. If installing a gate, it is recommended to install the gate first and then install panels next. If you're not installing a gate, skip this section.

1. Confirm posts on both sides of gate are centered with staked/marked locations, level with each other, and measure 51" from center to center (or 48" inside measurement). (Dia. 3)
2. The tops of the gate frame may be cut down to match the height of the fence posts (Optional). (Dia. 7)
3. Install the gate hinges following the instructions provided in hinge package. Gate kits include hinges with 16 self-tapping screws. It is recommended to use (also included) (8) 10-32 x 3.5" bolts for the 3" fence posts, and (8) 10-32 x 2.5" bolts for the 2" gate frame. These also include a flat washer, split lock washer, and nut for use on the backside. When using this hardware, mark and pre-drill all holes. When installing 54" gates with the open mid-rail, the top hinge MUST be placed between the top rail and midrail to be able to access the bolts. (Dia. 7)
4. Install the gate latch following the instructions provided in latch package.

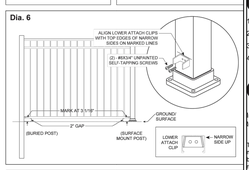
Dia. 4



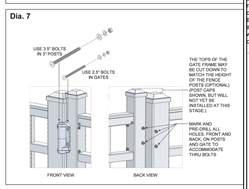
Dia. 5



Dia. 6



Dia. 7



ALUMINUM FENCE INSTALLATION INSTRUCTIONS

E MARK AND CUT FENCE PANELS

After concrete has set, start the installation of fence panels at an end or corner post. If installing a gate, it is recommended to install that first, then work out from there.

1. Clamp or hold fence panel against post and adjust for equal end spacing. (Dia. 8)
2. Mark the upper and lower channels.
3. Cut fence panel 1/16" less than opening size.
4. Clean cut areas and apply touch-up paint on exposed ends.

F INSTALL FENCE PANELS

1. Insert upper attach clips into upper channel of panel on each end. (Dia. 9) Upper attach clips may be placed in either orientation with the narrow side up or down.
2. Slide lower channel of pre-cut panel down onto lower attach clips (Dia. 9). TIP: Set the panel in at a slight angle, reach through the pickets and pull open up the bottom channel by hand and slide it onto the lower attach clips.
3. Using (4) - #8x3/4" Unpainted Self-tapping Screws, attach the upper two clips to the post.
4. Using (8) - #8x3/4" Painted Self-tapping Screws, secure the upper and lower attach clips to the panel.

G INSTALL FENCE CAPS (UPPER CHANNEL COVERS)

1. Measure between posts at the upper channel. (Dia. 10)
2. Cut Fence Caps 1/16" less than opening.
3. Clean cut areas and apply touch-up paint on all exposed metal.
4. Snap each Fence Cap over the upper fence channel until properly seated. (Dia. 10)

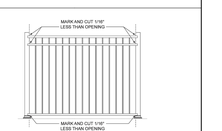
H INSTALL POST CAPS AND POST HOLE PLUGS

Install post caps and post hole disks. It is recommended to use silicone caulk to hold these in place. (Dia. 11)

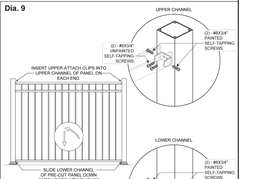
The diagrams and instructions in this brochure are for illustration purposes only and are not meant to replace a licensed professional . Any construction or use of the product must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction or use of this product. The consumer or contractor should take all necessary steps to ensure the safety of everyone involved in the project, including, but not limited to, wearing the appropriate safety equipment. Except as contained in the written limited warranty, The manufacturer does not provide any other warranty, either express or implied, and shall not be liable for any damages, including consequential damages.

3/22 - Version 1.1 - part #WWP401000

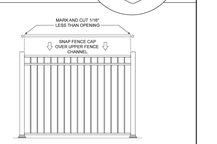
Dia. 8



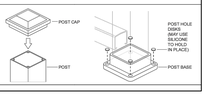
Dia. 9



Dia. 10



Dia. 11



SR 1.0

SEPARATOR ROW™ SPECIFICATIONS:

GENERAL:

1. CULTEC'S SEPARATOR ROW IS USED AS AN INEXPENSIVE MEANS OF REMOVING TOTAL SUSPENDED SOLIDS FROM THE CHAMBER SYSTEM, AS WELL AS PROVIDING EASIER ACCESS FOR INSPECTION AND MAINTENANCE.

2. THE SEPARATOR ROW PERFORMANCE SHALL BE TESTED AND VERIFIED TO THE PROTOCOLS AND PROCEDURES AS DEFINED BY ENVIRONMENTAL TECHNOLOGY VERIFICATION (ETV) CANADA TO ACHIEVE 80% TSS REMOVAL.

INSTALLATION INSTRUCTIONS:

A SEPARATOR ROW IS INSTALLED ON A 1-2 INCH [25-51 MM] WASHED, CRUSHED STONE BASE. TYPICALLY, THE CULTEC CHAMBER MODEL USED FOR THE SEPARATOR ROW IS THE SAME CHAMBER USED THROUGHOUT THE ENTIRE CHAMBER BED.

STORMWATER IS DISTRIBUTED TO THE SEPARATOR ROW BY A PRIMARY FEED SYSTEM THAT DIVERTS FLOW TO THE SEPARATOR ROW AND A SECONDARY BYPASS FEED SYSTEM THAT DIVERTS THE FLOW OF CLEAN WATER TO THE OTHER PARTS OF THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM. THE DISTRIBUTION SYSTEM MAY BE BY PIPES SET AT A LOWER ELEVATION THAT PERMIT THE FIRST FLUSH TO THE SEPARATOR ROW VERSUS OTHER PARTS OF THE UNDERGROUND STORMWATER SYSTEM. THIS INITIAL FLOW MAY BE MANAGED BY A BAFFLE OR WEIR. THE SIZING OF THE PIPE(S) THAT PROVIDE STORM WATER TO THE SEPARATOR ROW IS TO BE DETERMINED BY THE DESIGN ENGINEER AND IS BASED UPON THE REQUIREMENT TO ACCOMMODATE THE DESIGN FLOW AND SERVICE CONVENIENCE.

THE CHAMBERS UTILIZED IN THE SEPARATOR ROW ARE TO BE COMPLETELY WRAPPED WITH CULTEC NO. 410 NON-WOVEN GEOTEXTILE. THIS CREATES A PASS-THROUGH FILTER ARRANGEMENT TO SEPARATE TOTAL SUSPENDED SOLIDS IN THE TRANSFER OF STORM WATER TO OTHER CHAMBERS THROUGHOUT THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM.

ONCE WRAPPED, THE SEPARATOR ROW IS TO THEN PLACED ENTIRELY OVER 1 LAYER OF CULTEC No. 4800 WOVEN GEOTEXTILE. THIS WOVEN GEOTEXTILE PROVIDES A DURABLE SURFACE WITHIN THE ROW FOR MAINTENANCE PROCEDURES AS WELL AS TO PREVENT ANY SCOURING OF THE STONE BASE DURING HIGH PRESSURE JETTING.

THE RECOMMENDED INSTALLATION OF SEPARATOR ROW CHAMBERS, IN REGARD TO STONE SEPARATION AND STONE ABOVE THE UNIT, ALONG WITH OTHER MINIMUM BURIAL, MATERIALS AND METHOD SPECIFICATIONS DETAILED FOR THE PROPER INSTALLATION, IS THE SAME AS CULTEC© S REQUIREMENT DETAILED IN THE COMPANY© S INSTALLATION GUIDELINES WITH THE EXCEPTION OF THE PLACEMENT OF THE REQUIRED FILTERING FABRICS. PLEASE REFER TO CULTEC© S CURRENT INSTALLATION INSTRUCTIONS FOR STORMWATER CHAMBERS AS A GUIDE.

MAINTENANCE PROCEDURES:

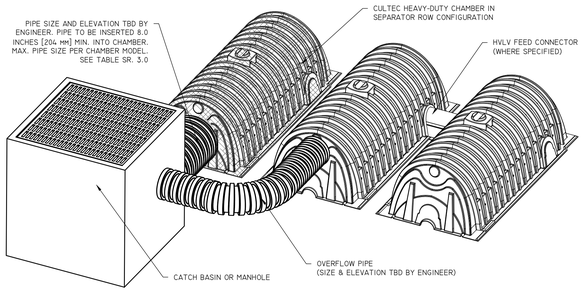
CULTEC RECOMMENDS INSPECTIONS OF THE SEPARATOR ROW TO BE PERFORMED EVERY SIX MONTHS FOR THE FIRST YEAR. THE FREQUENCY OF INSPECTION CAN THEN BE ADJUSTED BASED UPON PREVIOUS OBSERVATION OF SEDIMENT DEPOSITION.

WHILE CLEANING IS POSSIBLE FROM A SINGLE MANHOLE IN SHORTER LINES, A CLEAN-OUT OPTION FROM EITHER END OF A LINE IS PREFERABLE, PARTICULARLY FOR LONGER RUNS. CLEANING INVOLVES FLUSHING SEDIMENT FROM THE BASE FABRIC OF THE SEPARATOR ROW.

ACCESS WILL BE PROVIDED VIA A MANHOLE(S) LOCATED AT THE END(S) OF THE ROW FOR CLEAN OUT.

MAINTENANCE OF THE SEPARATOR ROW IS TO BE ACCOMPLISHED WITH A JETVAC PROCESS.

THE JETVAC IS TO BE SENT DOWN THE ENTIRE LENGTH OF THE SEPARATOR ROW. AS THE HIGH PRESSURE WATER NOZZLE IS RETRIEVED, THE CAPTURED SEDIMENTS ARE PUSHED BACK INTO THE MANHOLE FOR VACUUMING.



SR 2.0

TYPICAL SEPARATOR ROW CONFIGURATION INLET CONNECTION DETAIL

NOT TO SCALE

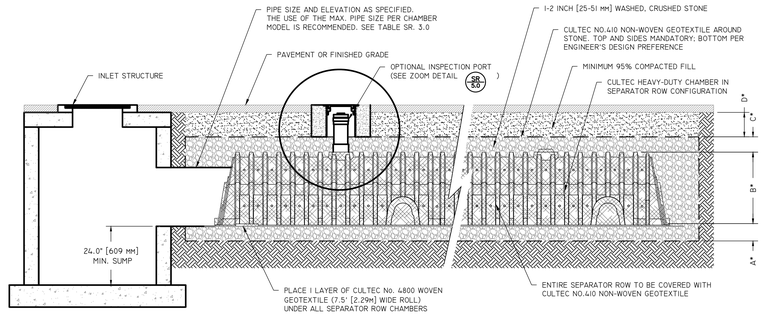
CULTEC CHAMBER MODEL						
	DESCRIPTION	CONTACTOR 100HD	RECHARGER 150XLHD	RECHARGER 280HD	RECHARGER 330XLHD	RECHARGER 902HD
A*	MIN. DEPTH OF STONE BASE	6" 152 mm	6" 152 mm	6" 152 mm	6" 152 mm	9" 229 mm
B	CHAMBER HEIGHT	12.5" 318 mm	18.5" 470 mm	26.5" 673 mm	30.5" 775 mm	48" 1219 mm
C*	MIN. DEPTH OF STONE REQUIRED ABOVE UNITS FOR TRAFFIC APPLICATIONS	6" 152 mm	6" 152 mm	6" 152 mm	6" 152 mm	12" 305 mm
D	MIN. DEPTH REQUIRED OF 95% COMPACTED FILL FOR PAVED TRAFFIC	8" 203 mm	8" 203 mm	8" 203 mm	10" 254 mm	12" 305 mm
E	MAX. DEPTH OF COVER ALLOWED ABOVE CROWN OF CHAMBER	12' 3.65 m	12' 3.65 m	12' 3.65 m	12' 3.65 m	8.3' 2.53 m
	MAX. PIPE SIZE TO CHAMBER ENDWALL/ENDCAP	10" 250 mm	12" 300 mm	18" 450 mm	24" 600 mm	24" 600 mm

NOTE*: STONE ABOVE AND BELOW UNITS MAY VARY PER SYSTEM. SEE SYSTEM LAYOUT FOR STONE REQUIREMENTS

SR 3.0

CROSS SECTION TABLE REFERENCE

NOT TO SCALE

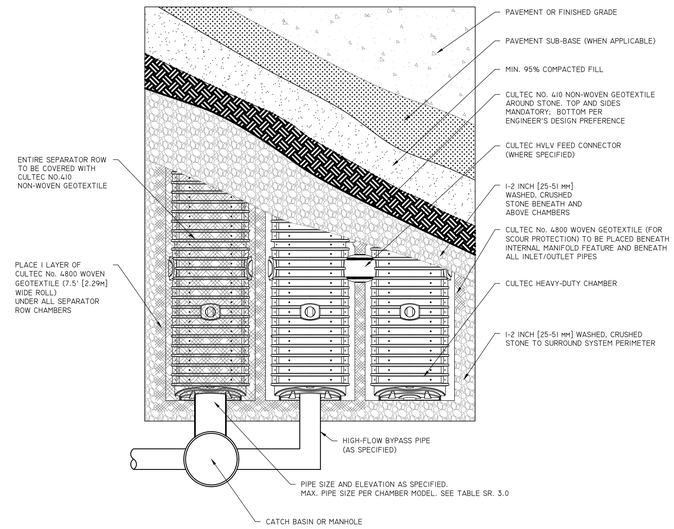


* SEE SR 3.0 - CROSS SECTION TABLE REFERENCE

SR 7.0

TYPICAL SEPARATOR ROW CONFIGURATION CROSS SECTION WITH INSPECTION PORT DETAIL

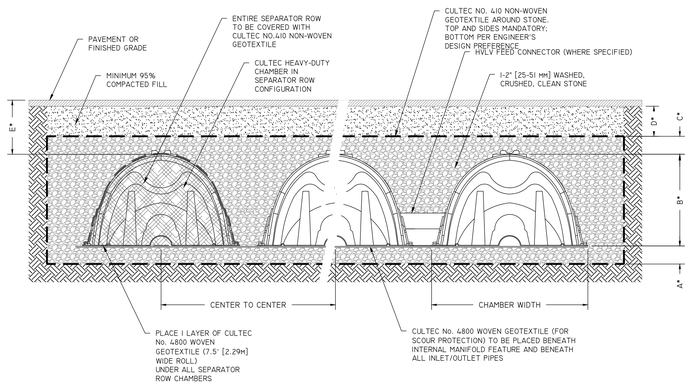
NOT TO SCALE



SR 4.0

TYPICAL SEPARATOR ROW CONFIGURATION PLAN VIEW

NOT TO SCALE

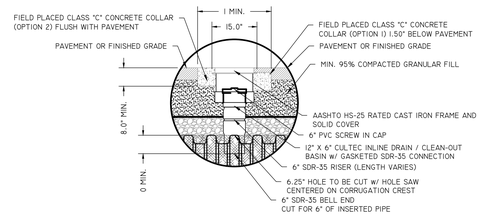


* SEE SR 3.0 - CROSS SECTION TABLE REFERENCE

SR 6.0

TYPICAL SEPARATOR ROW CONFIGURATION CROSS SECTION

NOT TO SCALE



SR 5.0

TYPICAL INSPECTION PORT - ZOOM DETAIL

NOT TO SCALE

Certification

COMMONWEALTH OF MASSACHUSETTS
PAUL D. CARLSON
CIVIL
NO. 40995
REGISTERED PROFESSIONAL ENGINEER

Drawn by LJG

Checked by PDC

Revised on

ADDENDUM #2 - 6.28.2024

InSite Engineering Services, LLC
Professional Engineers | Land Surveyors
Precision. Clarity. Certainty.
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Web Address: InsiteEngineers.com

50 Holden Street
Providence, Rhode Island 02908
Phone: (401) 272-1730
Fax: (401) 273-7156
E-mail: rgbinfo@rgb.net
www.rgb.net
RGB ARCHITECTS
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Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

50 ELM STREET
DEDHAM, MA 02026

Drawing Status

DRAFT 100% Construction DOCUMENTS

Issued On 8/23/2024

Sheet Contents

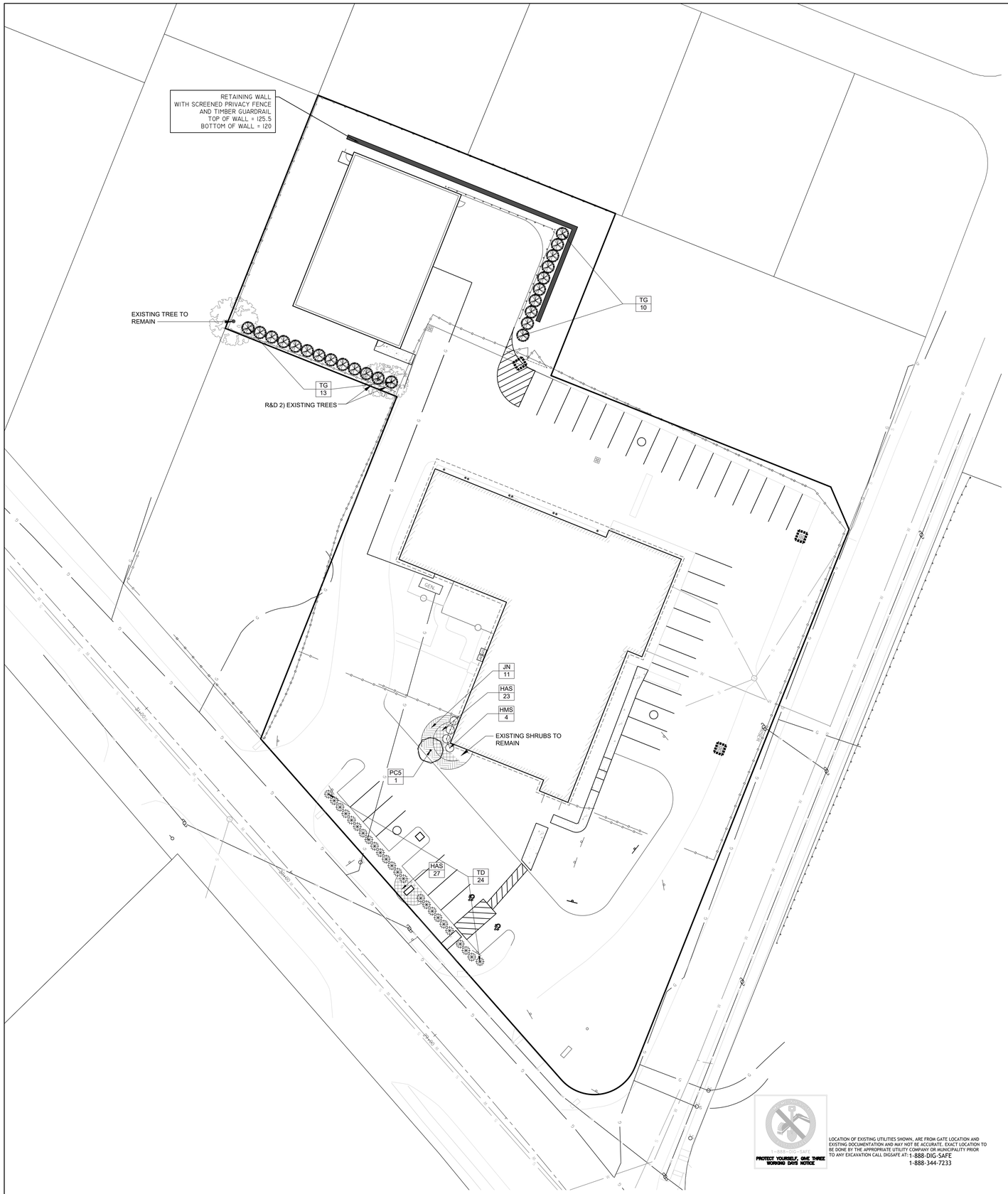
DETAIL SHEET (3 OF 3)

Project Number. 6790

Drawing No.

C008

Sheet 8 of 8



LANDSCAPE PLAN

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	DETAIL	REMARKS
EVERGREEN TREES							
	TG	Thuja plicata `Green Giant` / Green Giant Arborvitae	8` Ht.	B&B	23		
FLOWERING TREES							
	PC5	Prunus sargentii `Columnaris` / Columnar Sargent Cherry	2.5" Cal.	B&B	1		
SHRUBS							
	HMS	Hydrangea macrophylla `Endless Summer` TM / Bailmer Hydrangea	5 gal	CONT.	4		
	TD	Taxus x media `Densiformis` / Dense Yew	30" - 36"	B&B	24		

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING	QTY	DETAIL	REMARKS
GROUND COVERS								
	JN	Juniperus procumbens `Nana` / Dwarf Japanese Garden Juniper	1 gal@	CONT.	48" o.c.	11		
PERENNIALS								
	HAS	Hemerocallis x `Apricot Sparkles` / Apricot Sparkles Daylily	1 gal@	CONT.	24" o.c.	50		

NOTE: LOAM AND SEED ALL DISTURBED AREAS UNLESS NOTED OTHERWISE

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PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE

LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DONE BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL DIGSAFE AT:1-888-DIG-SAFE
1-888-344-7233

20 0 20 40
SCALE IN FEET

North

Certification

REGISTERED MASSACHUSETTS DIANE C. SOULE No. 639 LANDSCAPE ARCHITECT

Drawn by DCS
Checked by DCS
Revised on

50 Holden Street
Providence, Rhode Island 02908
Phone: (401) 272-1730
Fax: (401) 273-7156
E-mail: rgbinfo@rgb.net
www.rgb.net
Architecture · Project Management · Interior Design

Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

50 ELM STREET
DEDHAM, MA 02026

Drawing Status

100% CONSTRUCTION DOCUMENTS

Issued On 8/20//2024

Sheet Contents

LANDSCAPE PLAN

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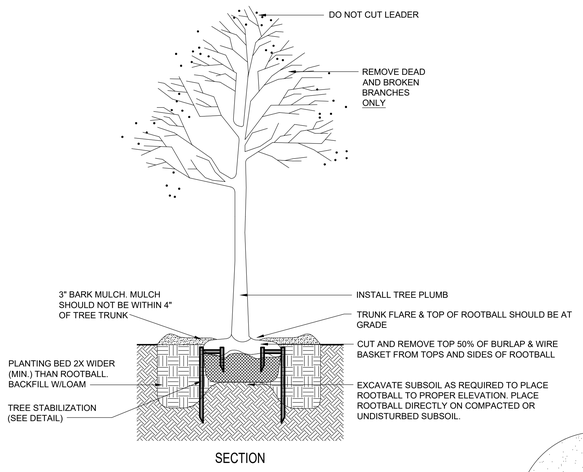
email: diane@dcsa.ws

Project Number. 6790

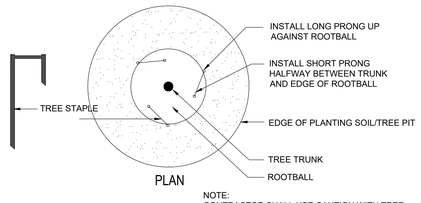
Drawing No. L1.0

Sheet of



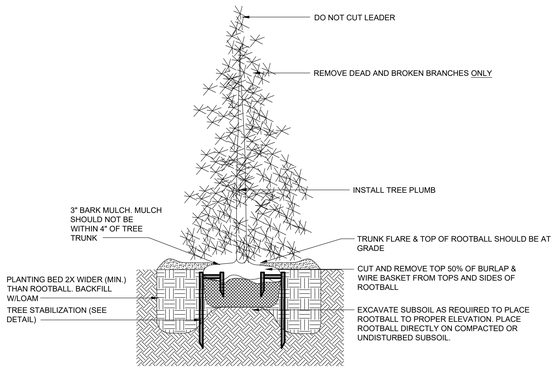
SECTION

TREE PLANTING DETAIL
no scale



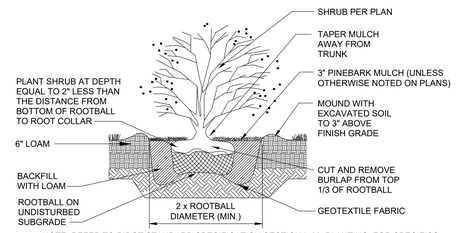
PLAN

NOTE:
CONTRACTOR SHALL USE CAUTION WITH TREE STAPLES SO NOT TO BE DRIVEN INTO SUBGRADE PIPES AND UTILITIES



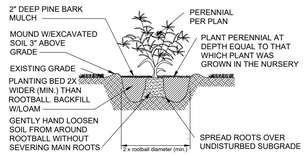
SECTION

EVERGREEN TREE PLANTING DETAIL
no scale

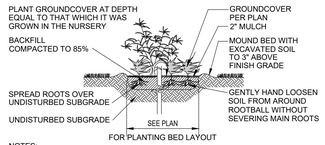


NOTE: REFER TO RIDOT STANDARD SPECIFICATION SECTION L.06, PLANTING, FOR SPECIFICS

SHRUB PLANTING DETAIL
no scale



PERENNIAL PLANTING DETAIL
no scale



NOTES:
1. REFER TO RIDOT STANDARD SPECIFICATION SECTION L.06, PLANTING SPECIFICS.

GROUNDCOVER PLANTING DETAIL
no scale

LANDSCAPE NOTES:

1. GUARANTEE THAT, UPON COMPLETION AND FINAL ACCEPTANCE, LANDSCAPE PLANTINGS CONFORM TO REQUIREMENTS OF CONTRACT DOCUMENTS. PROVIDE A WARRANTY FOR TREE PLANTINGS FOR A MINIMUM OF TWO (2) YEARS, INCLUDING TWO (2) CONTINUOUS GROWING SEASONS. COMMENCE WARRANTY ON DATE IDENTIFIED IN THE 'CERTIFICATE OF FINAL COMPLETION'.

2. REPLACEMENTS: PLANTS OF SAME SIZE AND SPECIES AS SPECIFIED, PLANTED IN THE NEXT GROWING SEASON, WITH NEW WARRANTY AND EXTENDED MAINTENANCE SERVICE COMMENCING ON THE DATE OF REPLACEMENT.

3. PLANT MATERIALS SHALL BE OF SIZE AND CALIPER REQUIRED AND CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

4. PLANTS OF OTHER KINDS THAN THOSE NAMED IN THE PLANT SCHEDULE SHALL NOT BE ACCEPTED WITHOUT APPROVAL. REPLACEMENT PLANTS LARGER IN SIZE THAN EXISTING MAY BE USED IF APPROVED BY THE A/E, PROVIDED USE OF LARGER PLANTS DOES NOT INCREASE CONTRACT PRICE.

5. A PROFESSIONAL HORTICULTURIST/NURSERYMAN SHALL BE CONSULTED TO DETERMINE THE PROPER TIME TO MOVE AND INSTALL PLANT MATERIAL SO THAT STRESS TO THE PLANT IS MINIMIZED. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED.

6. UNLESS OTHERWISE APPROVED BY THE A/E, ALL PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS.

7. SET PLANTS PLUMB AND AT SUCH A LEVEL THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION TO THE SURROUNDING GROUND AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. SETTLE BACKFILL MATERIAL FOR PLANTS, THOROUGHLY & PROPERLY, BY FIRMING OR TAMPING. ACCOMPANY BACKFILLING WITH THOROUGH WATERING UNLESS OTHERWISE APPROVED. FORM SAUCER CAPABLE OF HOLDING WATER AROUND INDIVIDUAL PLANTS.

8. FERTILIZE SHRUB BEDS WITH 10-6-4 FERTILIZER AT THE RATE OF 3 POUNDS PER 100 SQUARE FEET OF SURFACE AREA, BROAD CAST. APPLY THE FERTILIZER UNIFORMLY TO THE SURFACE BEDS AND WORK INTO THE UPPER TWO (2) INCHES OF SOIL. FERTILIZE INDIVIDUAL TREES AT THE RATE OF ONE (1) AGRIFORM PELLET PER INCH OF TREE DIAMETER (FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS). APPLY A SECOND APPLICATION OF FERTILIZER TO ALL PLANT ITEMS AT THE SAME SPECIFIED RATES OVER THE MULCH AT THE END OF AN EIGHT WEEK PERIOD.

9. CONTAINER GROWN MATERIALS: REMOVE PLANT FROM CONTAINER AND "BUTTERFLY" ROOT BALL OR OTHERWISE SPREAD OUT ROOTS ON SETTING MOUND. BACKFILL SHALL BE SIFTED THROUGH THEM AND SOLIDLY FIRMED.

10. AFTER PLANTING PRUNE ONLY BROKEN OR DEFORMED BRANCHES AND IN SUCH MANNER AS TO PRESERVE NATURAL CHARACTER OF PLANT.

11. IMMEDIATELY AFTER PLANTING, STAKE TREES OVER FIVE (5) FEET AS INDICATED ON DETAIL DRAWING INDICATED OR APPROVED BY THE OWNERS REPRESENTATIVE.
MULCH SHALL BE APPLIED A MINIMUM OF THREE (3) INCHES IN DEPTH IN ALL PLANTING BEDS, AS INDICATED ON THE DRAWINGS.

12. THE PLANTS SHALL BE WATERED IMMEDIATELY FOLLOWING PLANTING, PREFERABLY WHEN TWO THIRDS OF THE BACKFILL HAS BEEN PLACED SO ALL AIR POCKETS ARE REMOVED AND THE PLANT PROPERLY SET. ADDITIONAL WATERING SHALL BE MADE AT LEAST ONCE EVERY THREE (3) WEEKS UNLESS OTHERWISE DIRECTED UNTIL FINAL ACCEPTANCE OF THE PLANT MATERIAL.

13. INSTALL 'JUTE MESH' EROSION CONTROL FABRIC WHERE FINAL GRADES ARE 3:1 (33%) OR GREATER PER MANUFACTURER'S INSTRUCTIONS.

14. UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO LOAM AND SEED ALL DISTURBED AREAS.

SEEDING NOTE: USE UNIVERSITY OF RHODE ISLAND NO. 2 IMPROVED SEED MIX OR EQUAL.

TREE PRUNING NOTE: STREET TREES SHOULD BE PRUNED TO MAINTAIN A MINIMAL BRANCH HEIGHT OF 8' WITHIN TWO (2) YEARS OF INSTALLATION OF THE TREE.

15. LANDSCAPE ESTABLISHMENT AND MAINTENANCE NOTE: CONTRACTOR SHALL ENSURE THAT ALL LAWN AREAS AND PLANTINGS ARE FULLY ESTABLISHED AND ACCEPTABLE TO THE OWNER'S REPRESENTATIVE PRIOR TO RELINQUISHING THEIR RESPONSIBILITIES FOR MAINTENANCE OF THESE AREAS.

16. TREE PROTECTION NOTE: NO MATERIAL, TEMPORARY SOIL DEPOSIT OR EXCAVATION SHALL OCCUR WITHIN FOUR FEET OF SHRUBS OR WITHIN TWO FEET OF THE DRIP LINE OF ANY SHRUBS OR TREES TO REMAIN. ANY RETAINED EXISTING VEGETATION SHALL BE PROTECTED AS PER DETAIL ON PLAN.

Certification

COMMONWEALTH OF MASSACHUSETTS · DIANE C. SOULE · No. 639 · REGISTERED LANDSCAPE ARCHITECT

Drawn by	DCS
Checked by	DCS
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Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

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DEDHAM, MA 02026

Drawing Status
100% CONSTRUCTION DOCUMENTS

Issued On 8/20/2024

Sheet Contents
LANDSCAPE DETAILS & NOTES

Project Number. 6790

Drawing No. L2.0

Sheet of

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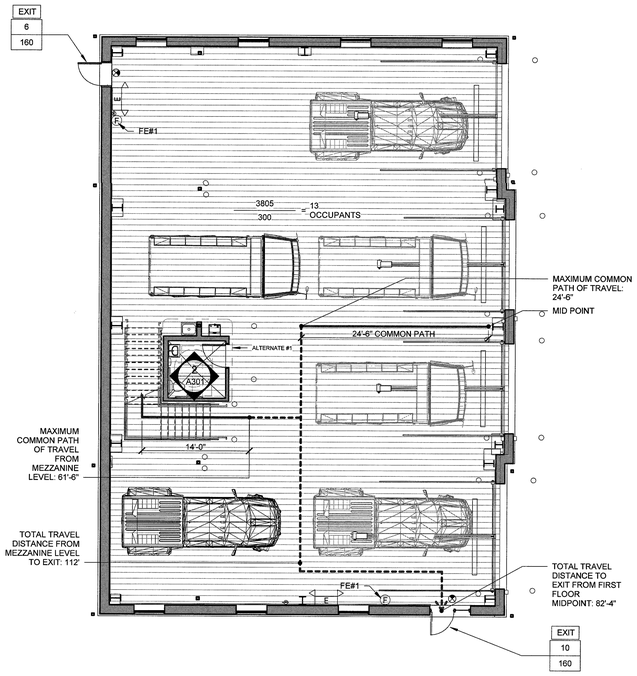


1 / A010 CODE REVIEW PLAN

Scale: 1/8" = 1'-0"

LEGEND

EXIT — EGRESS EXIT

EXIT SIGNAGE

F — FIRE EXTINGUISHER

OCCUPANCY DESIGNATIONS LEGEND

STORAGE / MECHANICAL

KEY

OCCUPANT LOAD INDICATOR

/ ## = ### — AREA OF BUSINESS USE; TOTAL OCCUPANTS; LOAD FACTOR FROM TABLE 1008.1.2

EGRESS ELEMENT LOAD INDICATOR

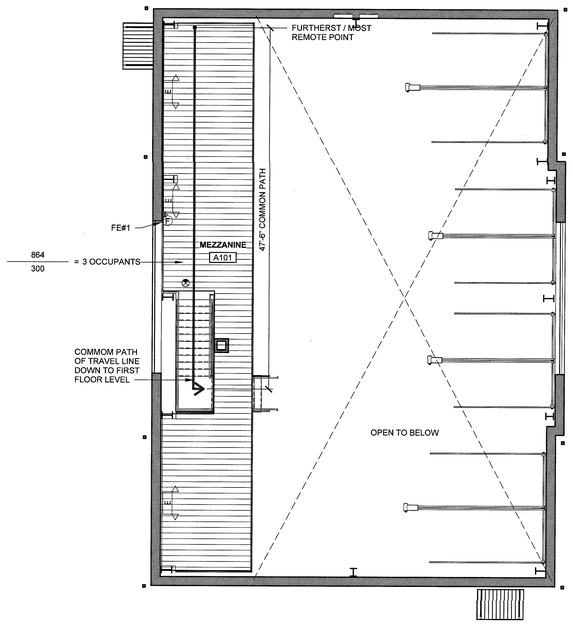
57 / 213 — ACTUAL OCCUPANT LOAD PASSING THROUGH DOOR/STAIR; ALLOWABLE OCCUPANT LOAD OF DOOR/STAIR

TRAVEL DISTANCE

COMMON PATH OF TRAVEL

FIRE EXTINGUISHER LEGEND (NFPA 10)

FE #1 4A-60BC (UL RATING) SURFACE MOUNTED RETAINER BRACKET



2 / A010 MEZZANINE CODE PLAN

Scale: 1/8" = 1'-0"

CODE DATA

I. BUILDING & FIRE CODE DATA

MASSACHUSETTS STATE BUILDING CODE	780 CMR	MASBC 2017
2015 INTERNATIONAL BUILDING CODE		IBC
2015 INTERNATIONAL ENERGY CODE		IECC
2015 INTERNATIONAL MECHANICAL CODE		IMC
2017 NATIONAL ELECTRIC CODE		NEC
2015 INTERNATIONAL EXISTING BUILDING CODE		IECB
2017 MASSACHUSETTS SUPPLEMENT	780 CMR	dated 2017 10 20
MA SPECIAL REGULATIONS 780 CMR 110.R1 THROUGH 115.AA		dated 2010 10 20
ARCHITECTURAL ACCESS BOARD MA ACCESSIBILITY CODE	521 CMR	dated 2006 01 27
MA STATE PLUMBING CODE	248 CMR	dated 2023 12 08
MA ELECTRICAL CODE	527 CMR 12.00	date 2008

2022 MASSACHUSETTS FIRE CODE STATE FIRE SAFETY CODE 527 CMR
NFPA 1 2022 FIRE CODE
[FIRE PREVENTION REQULATIONS 527 CMR TAKES PRECEDENCE OVER NFPA]

NFPA REFERENCE STANDARDS FROM MA SBC CHAPTER 35
- NFPA 10 2018 PORTABLE FIRE EXTINGUISHERS
- NFPA 13 2019 INSTALLATION OF SPRINKLERS SYSTEMS
- NFPA 14 2016 INSTALLATION OF STAND PIPE & HOSE SYSTEMS
- NFPA 70 2017 NATIONAL ELECTRICAL CODE
- NFPA 72 2019 NATIONAL FIRE ALARM CODE
- NFPA 101 2018 LIFE SAFETY CODE
- NFPA 241 2022 SAFEGUARDING CONSTRUCTION

II. BUILDING AREA

TOTAL BUILDING AREA 4,659 S.F.

A. OCCUPANCY & CONSTRUCTION TYPES

BUILDING OCCUPANCY: STORAGE (S-2)

(OCCUPANCY)	(BLDG. AREAS)
S	3805 S.F.
S (MEZZANINE)	864 S.F.

CONSTRUCTION TYPE: IIB

THESE CONSTRUCTION TYPES EQUATE TO THE FOLLOWING FIRE RATINGS:

STRUCTURAL ELEMENT	RATING IN HOURS
1. EXTERIOR WALLS	
LOAD BEARING	0
NON-LOAD BEARING	0
2. FIRE WALLS & PARTY WALLS	0
3. INTERIOR LOAD BEARING WALLS, PARTITIONS, COLUMNS, GIRDERS, TRUSSES (OTHER THAN ROOF) AND FRAMING	0
4. STRUCTURES SUPPORTING WALL(S)	0
5. FLOOR CONSTRUCTION	0
6. ROOF CONSTRUCTION	0
15' OR LESS TO LOWEST MEMBER	0
GREATER THAN 15' BUT LESS THAN 20' TO LOWEST MEMBER	0
GREATER THAN 20' TO LOWEST MEMBER	0

B. ALLOWABLE AREA AND HEIGHT

1. AREA FOR IIB CONSTRUCTION
   OCCUPANCY S-2 = 26,000SF/FLOOR
2. HEIGHT FOR IIB CONSTRUCTION
   OCCUPANCY S-2 = 3 STORIES/55 FEET ABOVE GRADE
   ACTUAL BUILDING HEIGHT = 1 1/2 STORIES/27 FEET ABOVE GRADE

C. FIRE PROTECTION

1. FIRE ALARM SYSTEM NOT REQUIRED PER NFPA 101 42.3.4.1.1; SUBJECT TO AHJ.

D. EGRESS REQUIREMENTS

1. TOTAL TRAVEL DISTANCE:
   - MAX. ALLOWED WITHOUT SPRINKLERS: 300 LF
   - MAX. PROPOSED WITHOUT SPRINKLERS: 112' LF
2. COMMON PATH:
   - MAX. COMMON PATH OF TRAVEL ALLOWED: 75 LF
   - MAX. COMMON PATH OF TRAVEL PROPOSED: 61'-6"
3. DEAD END CORRIDOR:
   - TOTAL DEAD END CORRIDOR ALLOWED: 20 LF
   - TOTAL DEAD END CORRIDOR PROPOSED: N/A
4. MEANS OF EGRESS REQUIREMENTS

NUMBER AND WIDTH REQUIRED
OCCUPANCY LOAD PER FLOOR 500 PEOPLE OR LESS

TOTAL EXITS REQUIRED: 2 EXITS PER FLOOR

EGRESS WIDTHS REQUIRED AT STAIRS:
- TOTAL WIDTH REQUIRED AT STAIRS: 0.3"/OCCUPANT = 0.3"/OCCUPANT x 3 OCCUPANT = .9"
- TOTAL WIDTH PROVIDED AT STAIRS: 58"

EGRESS WIDTH REQUIRED AT DOORS:
- TOTAL WIDTH REQUIRED AT DOORS = 0.2" /OCCUPANT X 16 OCCUPANTS = 3.2"
- TOTAL WIDTH PROVIDED AT DOORS = 64" (32" CLEAR EACH DOOR)

E. INTERIOR FINISHES

CLASS B OR BETTER FINISHES WILL BE PROVIDED AT EXIT PASSAGEWAYS AND
CLASS C OR BETTER IN ROOMS AND ENCLOSED SPACES PER IBC TABLE 803.13 & NFPA 42.3.3

F. SEISMIC CRITERIA

SEE STRUCTURAL DRAWINGS FOR SEISEMIC FACTOR REQUIREMENTS

G. STRUCTURAL LOADS

RISK CATEGORY II
ULTIMATE DESIGN WIND SPEED = 129 MPH
NOMINAL DESIGN WIND SPEED = 100 MPH
SNOW LOAD = 40 PSF

H. OCCUPANCY LOADS

1. OCCUPANCY LOAD TYPES — CMR 780 TABLE 1004.1.2
   STORAGE USE (S2) — 300 SF / PERSON GROSS
2. OCCUPANCY LOAD PER FLOOR

AREA:

FIRST FLOOR	13 OCCUPANTS
MEZZANINE	3 OCCUPANTS
BUILDING TOTAL	16 OCCUPANTS

II. PLUMBING FIXTURE ANALYSIS (BASED ON 248 CMR SECTION 10.10 TABLE 1)

III. VARIANCES REQUESTED
REFLIEF FROM PLUMBING FIXTURE REQUIREMENTS.

III. MASS STRETCH CODE - 2021

THERMAL ENVELOPE COMPONENT VALUES ALL COMPONETS TO BE CLEARLY LABELED
TABLE C301.1 / CLIMATE ZONE 5A

METAL BLDGS. EXTERIOR WALLS R-VALUE:	CONTINUOUS (R 13 + 10) REQUIRED / R - 28.8 PROVIDED
ROOF R-VALUE:	CONTINUOUS (R - 19 + 11 LS) REQUIRED / R - 30 PROVIDED

TABLE C402.4 CLIMATE ZONE 5A

FIXED FENESTRATION WINDOWS U-FACTOR:	FRAME TYPE: SINGLE U - VALUE .36 REQUIRED / U-VALUE .34 PROVIDED
SWINGING DOOR U-FACTOR:	DOOR TYPE: SINGLE U - VALUE .37 REQUIRED / U-VALUE .35 PROVIDED
OVERHEAD DOOR U-FACTOR:	DOOR TYPE: SINGLE U - VALUE .31 MAX. ALLOWED / U-VALUE .31 PROVIDED
GLAZING SHGC:	DOUBLE GLAZED UNIT: SHGC .38 MAX. ALLOWED / SHGC .35 PROVIDED
KALWALL PANELS SHGC:	4" CRYSTAL 13%: SHGC U / .09 PROVIDED
EXPOSED FOUNDATION INSULATION:	24" BELOW GRADE = T-CLEAR: 2.125" EXPOSED AT R- 10

Certification

REGISTERED ARCHITECT — JOHN R. KACHELE — No. 32758 — BOSTON, MA — COMMONWEALTH OF MASSACHUSETTS — 8-22-24

Drawn by ADC
Checked by AHB, JJR
Revised on

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Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY AND SITE IMPROVEMENTS

DEDHAM - WESTWOOD WATER DISTRICT

50 ELM STREET
DEDHAM, MA 02026

Drawing Status

100% CONSTRUCTION DOCUMENTS

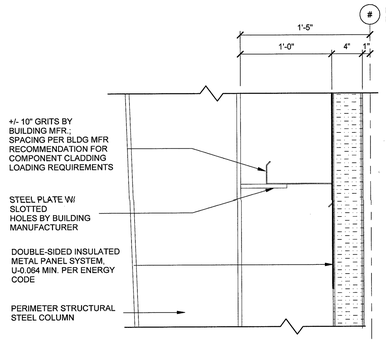
Issued On 8/20/2024

Sheet Contents

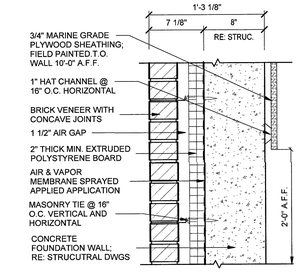
CODE REVIEW

Project Number: 6790
Drawing No. A010

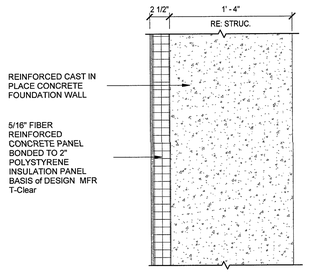
Sheet of



1A PRE-MANUFACTURED METAL BUILDING SYSTEM



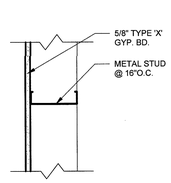
1B CONCRETE FOUNDATION STEM WALL



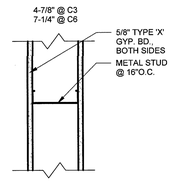
2B CONCRETE FOUNDATION WALL WITH CONCRETE FACED RIGID INSULATION

1 EXTERIOR WALL CONSTRUCTION TYPES

A030 Scale: 1 1/2" = 1'-0"

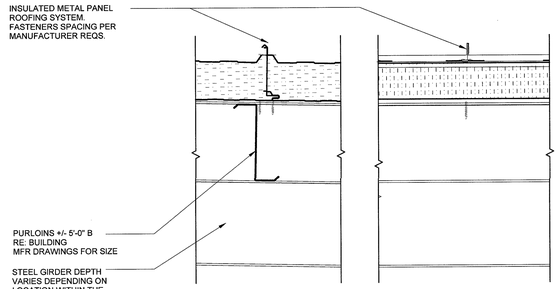


A3 3 5/8" MTL STUDS



C3 3 5/8" MTL STUDS

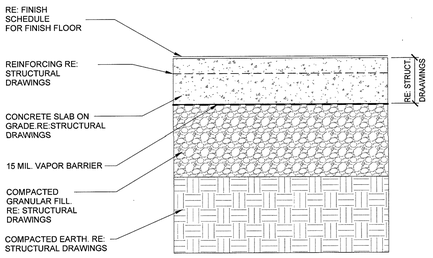
C6 6" MTL STUDS



200 PRE-MANUFACTURED METAL BUILDING SYSTEM W/ INSULATED METAL ROOF PANELS
NON-FIRE RATED

2 INTERIOR WALL CONSTRUCTION TYPES

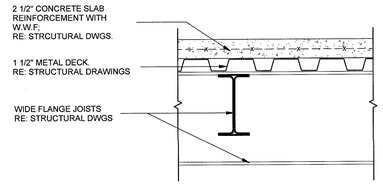
A030 Scale: 1 1/2" = 1'-0"



100 FLOOR ASSEMBLY: SLAB ON GRADE
NON-FIRE RATED

3 ROOF CONSTRUCTION TYPES

A030 Scale: 1 1/2" = 1'-0"



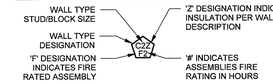
NOTE:
MAXIMUM STORAGE LOAD 125lbs SQFT. LIGHT STORAGE

150 MEZZANINE ASSEMBLY
NON-FIRE RATED

4 FLOOR CONSTRUCTION TYPES

A030 Scale: 1 1/2" = 1'-0"

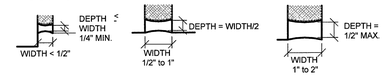
INTERIOR WALL DESIGNATIONS:



EXAMPLE - WALL "A2"
"A" - WALL TYPE
"2" - STUD THICKNESS

METAL STUDS
1 = 1 5/8" STUDS
2 = 2 1/2" STUDS
3 = 3 5/8" STUDS
4 = 4" STUDS
6 = 6" STUDS

TYPICAL CONTROL JOINTS



GENERAL NOTES:

1. ALL GYPSUM SHEATHING/WALL BOARD IS TYPE 'X'.

2. PROVIDE METAL STUD GAUGE AS RECOMMENDED BY STUD MFG. FOR WALL LIVE LOAD OF 5 psf FOR HEIGHT OF THE UNBRACED WALL VERTICAL SPAN. MAXIMUM DEFLECTION 1/360 OF THE SPAN.

3. FOR NON-LOAD BEARING WALLS THAT SEAL TO ROOF STRUCTURE ABOVE, PROVIDE SUITABLE STUD TRACK TO ALLOW FOR MINIMUM ROOF DEFLECTION OF 1" WITHOUT TRANSFERING LOAD TO METAL STUDS RE: STRUCTURAL DWGS FOR MORE STRINGENT DEFLECTION INFORMATION. (NOT REQUIRED @ PERIMETER INTERIOR WALLS UNLESS NOTED OTHERWISE)

4. HOLD BOTTOM OF GWB AT 1/4" ABOVE CONCRETE FLOOR TYPICAL (TO PREVENT MOISTURE WICKING)

5. PROVIDE TYPE 'X' MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL TOILET ROOMS, SPRINKLER ROOMS, JANITOR CLOSETS, LOCKER ROOMS, AND WET LOCATIONS, UNLESS NOTED OTHERWISE.

9. STC RATINGS FOR WALL CONSTRUCTION TYPES ARE BASED ON USG CORPORATION SELECTOR GUIDE TO SOUND-RATED PARTITIONS (SA100).

10. ALL WALL SYSTEM 'R' & 'U' VALUES ARE BASED ON"
-6" METAL STUD
-8" NORMAL WIEGHT CONCRETE

11. ALL VAPOR BARRIERS ARE TO BE 10MIL POLY MIN. U.N.O.

NOTE:
THIS IS A STANDARD SHEET. SOME ITEMS MAY NOT APPLY TO THIS PROJECT. FOR ADDITIONAL INFORMATION RE.: SPECIFICATIONS

Certification

REGISTERED ARCHITECT JOHN R. RADZIEWICZ No. 30758 BOSTON, MA 8-22-24

Drawn by ADC, ML

Checked by AHB, JJR

Revised on

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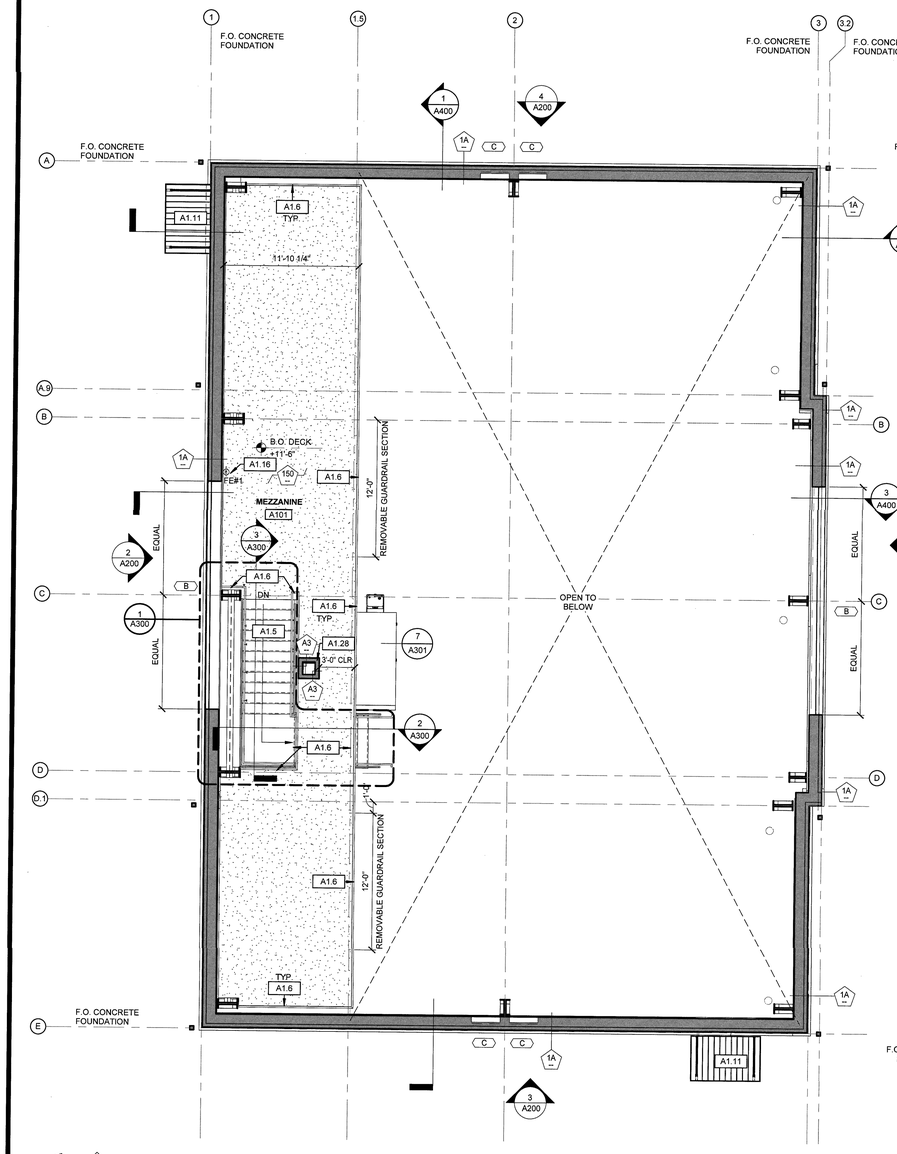
Sheet Contents

CONSTRUCTION TYPES

Project Number. 6790

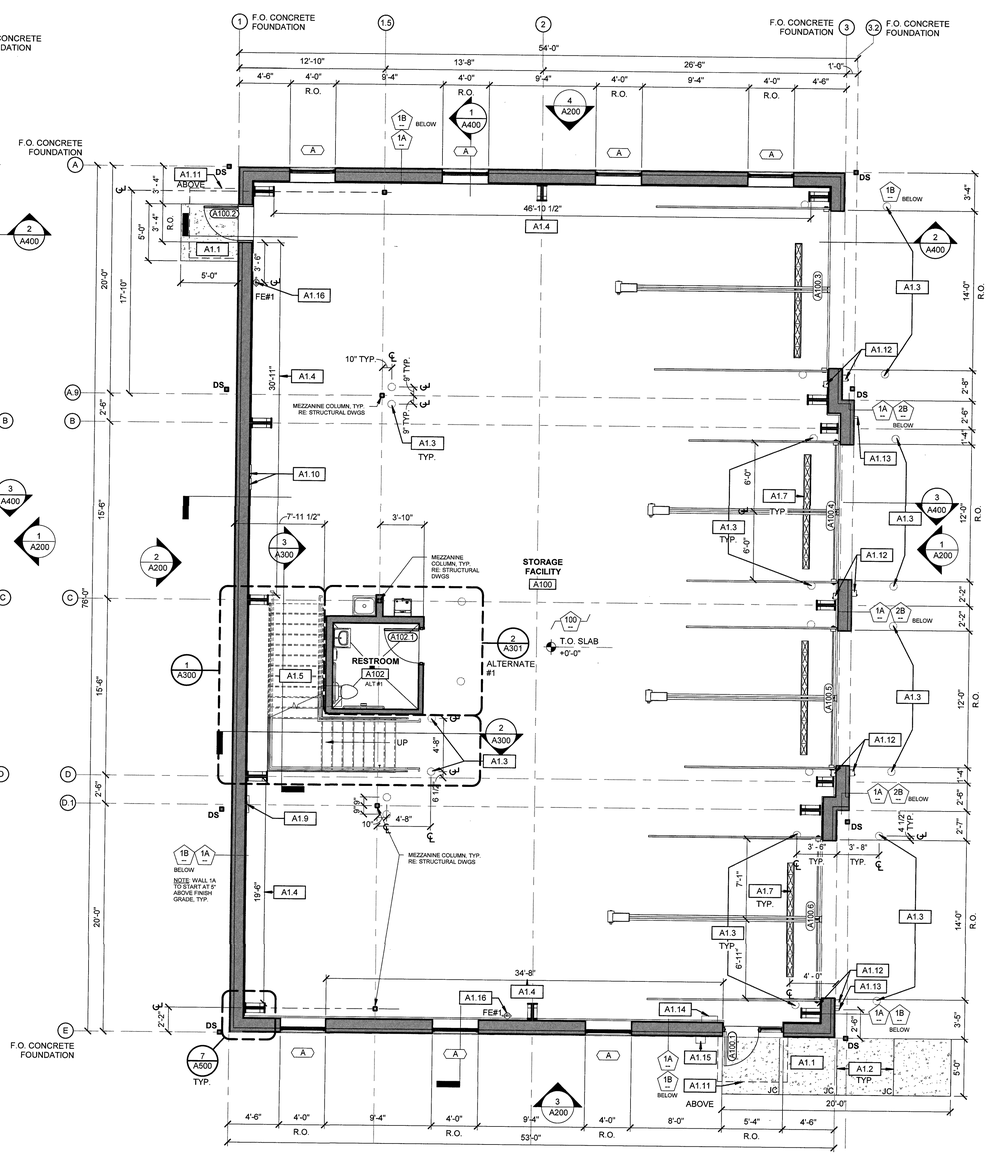
Drawing No. A030

Sheet of



2 A100 MEZZANINE LEVEL
Scale: 3/16" = 1'-0"

TRUE NORTH BLDG NORTH



1 A100 FLOOR PLAN
Scale: 3/16" = 1'-0"

TRUE NORTH BLDG NORTH

GENERAL PLAN NOTES

1. COORDINATE ALL WORK w/ CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, &/or OTHER DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO EXTERIOR CONSTRUCTION ARE TO FACE OF CONCRETE FOUNDATION U.N.O.
3. ALL DIMENSIONS TO CONSTRUCTION ARE TO FACE OF STUD
4. ALL EXTERIOR WALLS ARE TYPE 1A U.N.O.
5. ALL INTERIOR WALLS ARE TYPE C3 AT STUD WALL U.N.O.
6. ALL DOOR FRAMES SHALL BE A MINIMUM OF 4" CLEAR FROM THE FACE OF ADJACENT WALL TO DOOR JAMB, U.N.O.
7. THE FOLLOWING ITEMS ARE DESIGNATED AS FOLLOWS:
   FE FIRE EXTINGUISHER WITH SURFACE MOUNTED RETAINER BRACKET
8. REFER TO ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
9. ALL TRENCH AND FLOOR DRAINS 1" LOWER THAN MAIN FLOOR LEVELS OR ROOMS. SLOPE ALL SIDES TO DRAIN U.N.O.
10. SLOPED FLOORS SHALL NOT EXCEED 2% SLOPE
11. REFER TO DRAWING G001 FOR ABBREVIATIONS AND SYMBOL DESCRIPTIONS.
12. PROVIDE BLOCKING FOR ALL WALL HUNG ITEMS.

CONSTRUCTION LEGEND

- NEW WALL/ITEM
- DS — DOWNSPOUT
- F&I = — FURNISH AND INSTALL
- XXX — WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
- XXX — WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.

PLAN WORK NOTES

A1.1	F&I CONCRETE SIDEWALK W/ TOOLED EDGES AND BROOM FINISH. SLOP AWAY FROM BUILDING FOUNDATION (2% MAX SLOPE); RE: CIVIL DWGS.
A1.2	F&I CONTROL JOINT SPACED 5'-0" O.C.
A1.3	F&I 8" DIAMETER 42" HIGH GALV. STEEL BOLLARD FILLED WITH CONCRETE WITH YELLOW COVER SLEEVE; RE: 7/A501
A1.4	F&I 3-5/8" METAL STUD AND 3/4" MARINE GRADE FRT PLYWOOD, FIELD PAINTED WHITE. RE: 1/A500
A1.5	F&I NEW METAL STAIR ASSEMBLY, RE: ENLARGED DETAILS AND COORDINATE w/ STRUCTURAL DRAWINGS, TYP.
A1.6	*F&I METAL GUARDRAIL, RE: ENLARGED* DETAILS AND COORDINATE w/ STRUCTURAL DRAWINGS, TYP.
A1.7	F&I NEW TRENCH DRAIN AT EACH OVERHEAD DOOR; RE: PLUMBING DWGS.
A1.9	F&I NEW ELECTRICAL PANEL. MAINTAIN ANY REQ. FRONT CLEARANCES; RE: ELECTRICAL DWGS.
A1.10	F&I NEW GAS DETECTION AND FAN CONTROL PANELS; RE: MECHANICAL AND ELECTRICAL DWGS.
A1.11	F&I NEW PREFAB ALUMINUM CANOPY, RE: 2/A501
A1.12	F&I NEW OVERHEAD SECTIONAL DOOR WITH PUSHBUTTON; RE: ELECTRICAL DWGS.
A1.13	F&I EXTERIOR HOSE BIBB; RE:PLUMBING DWGS.
A1.14	F&I TRAP DRILL BOX; RE:PLUMBING AND ELECTRICAL DWGS.
A1.15	F&I GAS METER; COORDINATE FINAL LOCATION WITH LOCAL UTILITY COMPANY AND OWNER. RE:PLUMBING DWGS.
A1.16	F&I FIRE EXTINGUISHER WITH SURFACE MOUNTED RETAINER BRACKET; RE:13/A502
A1.28	F&I 16 GA METAL STUD @ 16" O.C. WITH 5/8" TYPE 'X' GYPSUM BOARD CHASE TO THE UNDERSIDE OF ROOF FOR PLUMBING STACK AND MECHANICAL DUCT TO ROOF. FIELD PAINT; RE: MECHANICAL AND ELECTRICAL DWGS

Certification

REGISTERED ARCHITECT JOHN R. RADZIEVICH No. 30756 BOSTON, MA 8-22-24

Drawn by	ADC
Checked by	AHB, JJR
Revised on	

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Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY AND SITE IMPROVEMENTS

50 ELM STREET
DEDHAM, MA 02026

Drawing Status

100% CONSTRUCTION DOCUMENTS

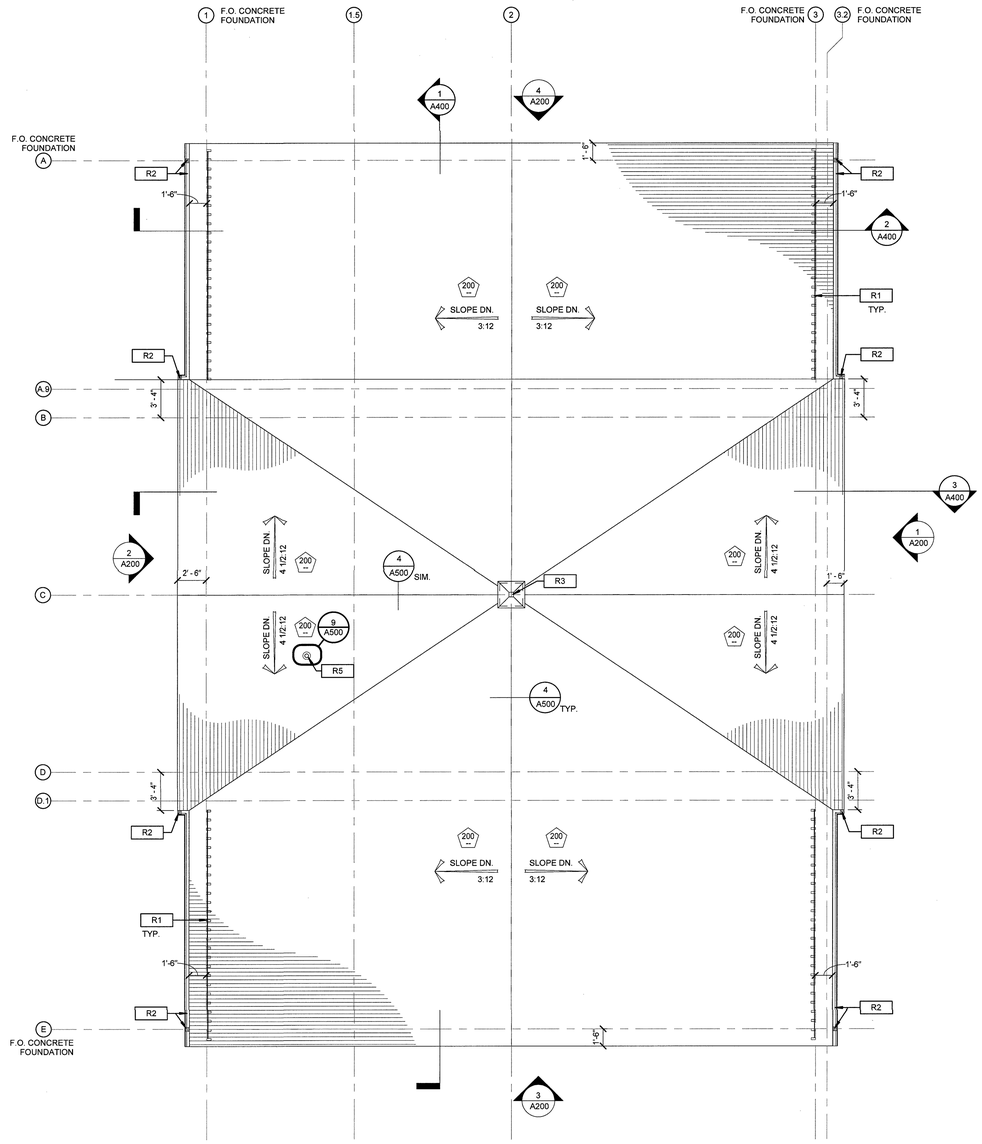
Issued On 8/20/2024

Sheet Contents

FLOOR PLANS

Project Number. 6790
Drawing No. A100

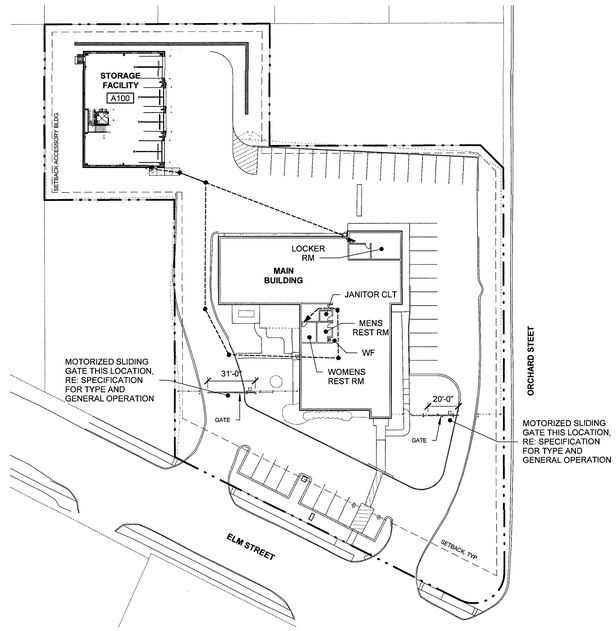
Sheet of



TRUE NORTH BLDG NORTH

1 A101 **ROOF PLAN**

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



TRUE NORTH BLDG NORTH

3 A101 **SITE PLAN DIAGRAM**

Scale: 1" = 40'-0"

GENERAL ROOF NOTES

1. NOT ALL PENETRATIONS MAY BE SHOWN. COORDINATE ALL WORK w/ STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL &/or OTHER DRAWINGS.
2. ALL DIMENSIONS TO NEW CONSTRUCTION ARE TO FACE OF FOUNDATION WALL.
3. ALL NEW ROOF SYSTEMS ARE TYPE 200 U.N.O.
4. ARROW SLOPE DN. DENOTES DOWNWARD
   SLOPE OF ROOF.

ROOF PLAN LEGEND

- # — WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.
- # — WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.
- SLOPE DN. — PITCH & SLOPE DIRECTION
- INSULATED METAL ROOF PANELS
- PREFABRICATED CUPOLA
- SNOWFENCE
- GUTTER
- DOWNSPOUT

ROOF PLAN WORK NOTES

R1 F&I SNOWFENCE; RE: 3/A500

R2 F&I 5" MIN. BOX GUTTER AND DOWNSPOUT; COLOR TO MATCH ADJACENT WALL OR ROOF PANEL

R3 F&I PREFABRICATED CUPOLA; REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

R5 ALTERNATE #1 - F&I FLASHING BOOT &/or SHEET METAL FLASHING FOR PLUMBING AND MECHANICAL PENETRATIONS, PER MANUFACTURERS INSTRUCTIONS. RE: MECH AND PLUMB DWGS; TYP.

Certification

REGISTERED ARCHITECT JOHN R. RACHEK No. 30758 BOSTON, MASS COMMONWEALTH OF MASSACHUSETTS 8-22-24

Drawn by ADC

Checked by AHB, JJR

Revised on

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DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY AND SITE IMPROVEMENTS

DEDHAM - WESTWOOD WATER DISTRICT

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Sheet Contents

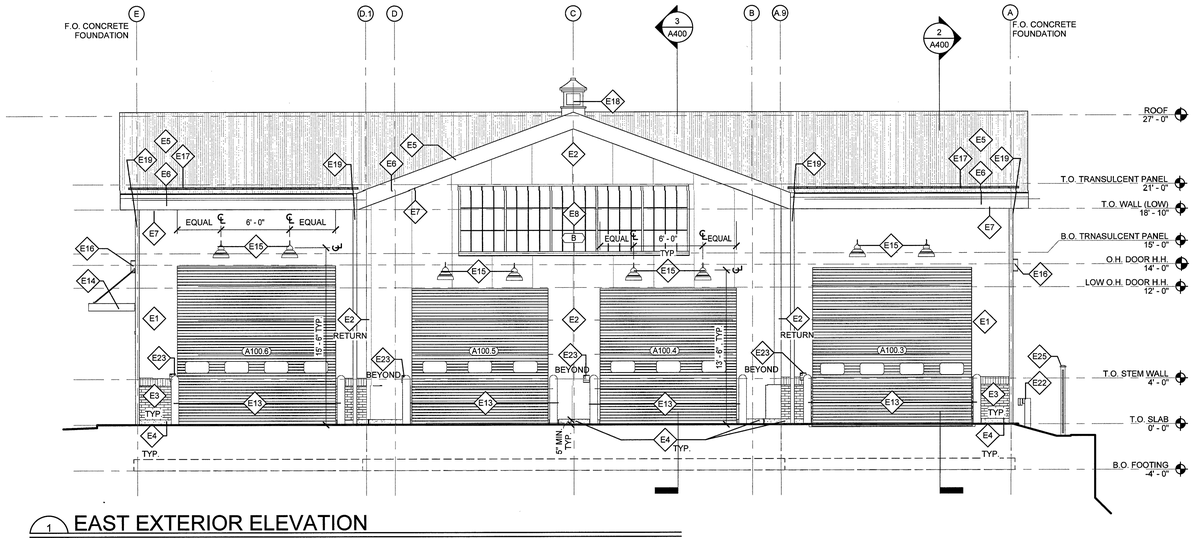
ROOF PLAN AND SITE DIAGRAM

Project Number. 6790

Drawing No.

A101

Sheet of



1 / A200 EAST EXTERIOR ELEVATION

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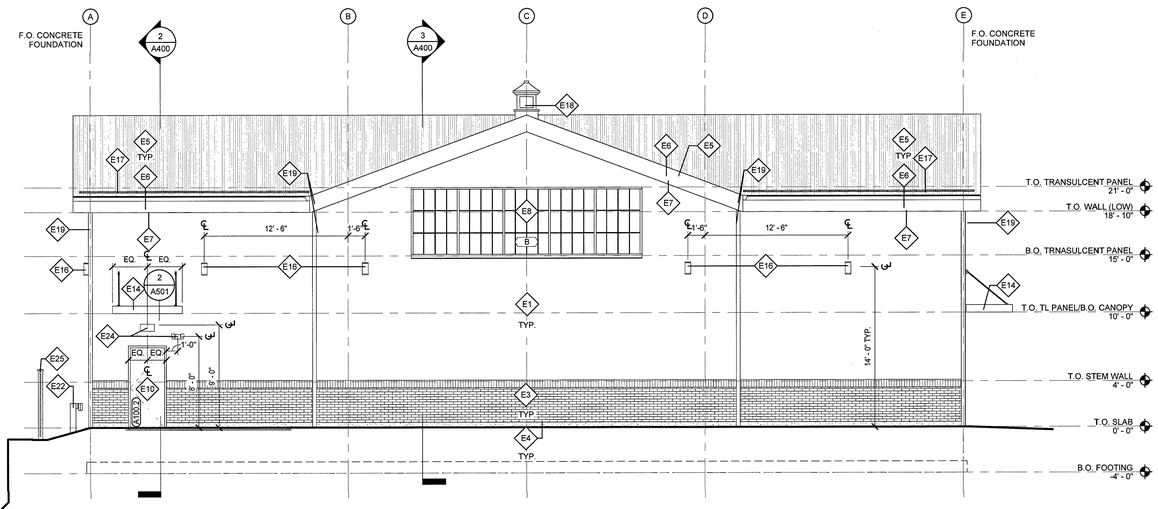
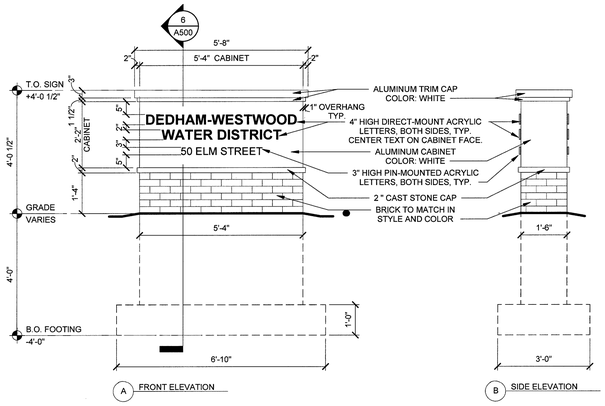


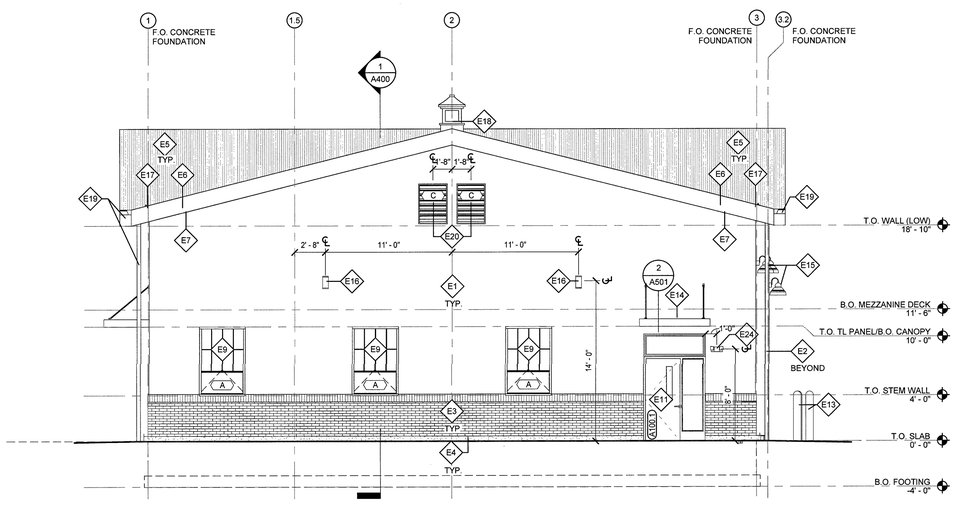
2 / A200 WEST EXTERIOR ELEVATION

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



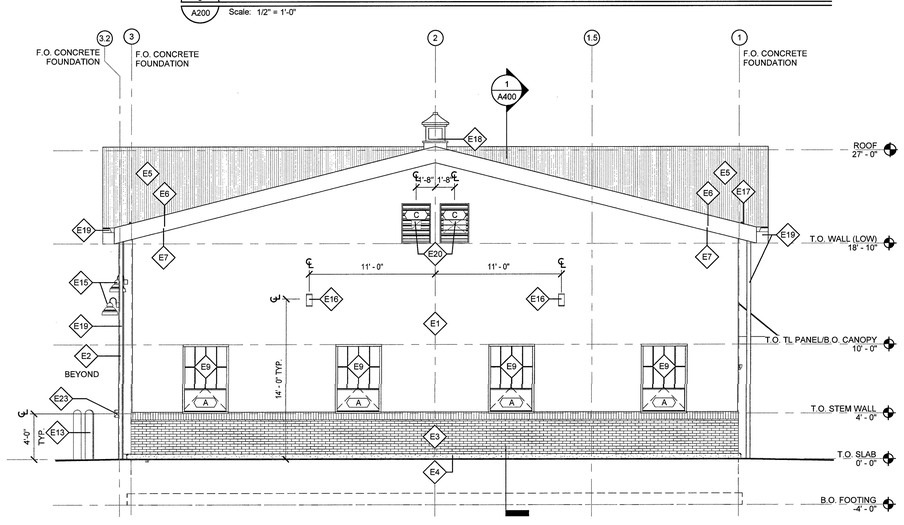
5 / A200 MONUMENT SIGN ELEVATION

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



3 / A200 SOUTH EXTERIOR ELEVATION

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



4 / A200 NORTH EXTERIOR ELEVATION

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

ELEVATION NOTES - EXTERIOR

1. NOT ALL EXTERIOR WALL PENETRATIONS, ITEMS, &/or COMPONENTS MAY BE INDICATED &/or SHOWN. RE: ALL DRAWINGS INCLUDING THE PLUMBING, MECHANICAL, ELECTRICAL DRAWINGS.
2. NOT ALL EXTERIOR WALL ELEVATIONS MAY BE SHOWN. COORDINATE w/ PLANS AND SECTIONS FOR ADDITIONAL EXTERIOR WORK. MATERIALS AND TEXTURES ARE CONTINUOUS IN AREAS WHERE WALL MAY BE CONCEALED BY OTHER BUILDINS PROJECTIONS.
3. SUBMIT SAMPLES OF ALL EXTERIOR FINISH MATERIALS FOR REVIEW & APPROVAL PRIOR TO FABRICATING/CONSTRUCTION, TYPICAL.
4. FINISH GRADES SHOWN ARE APPROXIMATE. CONTRACTOR TO REVIEW & COORDINATE W/ SITE GRADING PLAN.
5. SEALANT/CAULKING COLORS TO MATCH ADJACENT FINISH LISTED IN REQUIRED PRIORITY. ARCHITECT TO APPROVE SAMPLE IN FIELD PRIOR TO INSTALLATION.
   A. SEALANT COLOR AT WINDOWS AND STOREFRONT TO MATCH FRAME COLOR.
   B. SEALANT COLOR AT HOLLOW METAL FRAME TO MATCH FRAME COLOR.
   C. SEALANT COLOR AT BRICK TO MATCH BRICK

CONSTRUCTION LEGEND

XXX — WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.

XXX — WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.

EXTERIOR ELEVATION MATERIAL & COLOR SCHEDULE

E1	MICRO MINI-RIB INSULATED METAL PANEL COLOR: IMPERIAL WHITE
E2	HIGH RIB INSULATED METAL PANEL COLOR: REDWOOD
E3	BRICK VENEER WATER TABLE COLOR: TO MATCH THE EXISTING MAIN BUILDING
E4	CONCRETE FACE RIGID INSULATION COLOR: TBD
E5	INSULATED STANDING SEAM ROOF PANEL SYSTEM COLOR: WEATHERED ZINC
E6	FASCIA PANEL AND PRE-FINISHED METAL TRIM COLOR: WEATHERED ZINC
E7	SOFFIT PANEL AND PRE-FINISHED METAL TRIM COLOR: WEATHERED ZINC
E8	INSULATED TRANSLUCENT FIBERGLASS PANEL SYSTEM; RE: SPECIFICATIONS
E9	INSULATED TRANSLUCENT FIBERGLASS PANEL AND OPERABLE WINDOW ASSEMBLY; RE: SPECIFICATIONS
E10	INSULATED METAL DOOR AND FRAME COLOR: COLOR TO MATCH ADJACENT WALL PANEL COLOR
E11	ALUMINUM STOREFRONT SYSTEM WTH INSULATED TEMPERED GLAZING COLOR: CLEAR ANODIZED
E13	GALV. STEEL BOLLARD & COVER SLEEVE COLOR: YELLOW
E14	PRE-FABRICATED METAL CANOPY COLOR: TBD
E15	EXTERIOR GOOSENECK STYLE LED LIGHT FIXTURE; RE: ELECTRICAL DRAWINGS FINISH: TBD
E16	EXTERIOR LED DIRECT/INDIRECT LIGHT ALUMINUM FIXTURE; RE: ELECTRICAL DRAWINGS COLOR: TBD
E17	SNOWFENCE COLOR: TBD
E18	PRE-FABRICATED CUPOLA COLOR: COLOR TO MATCH WHITE WALL PANEL
E19	5" MIN. GUTER AND DOWNSPOUT COLOR: COLOR TO MATCH ADJACENT PREFINISHED FASCIA TRIM
E20	STORM-PROOF LOUVER VENT WITH INSERT AND BIRD SCREEN COLOR: MATCH ADJACENT INSULATED METAL WALL PANEL
E21	NOT USED
E22	TIMBER GUARDRAIL; RE: CIVIL DRAWINGS
E23	OVERHEAD DOOR KEYED OPERATOR
E24	EXTERIOR LED WALL PACK; RE: ELECTRICAL DRAWINGS COLOR: TBD
E25	PVC PRIVACY FENCE; RE: CIVIL DRAWINGS COLOR: WHITE TO MATCH EXISTING

Certification

REGISTERED ARCHITECT JOHN R. RACHEK No. 02758 BOSTON, MA 8-22-24

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Checked by AHB, JJR
Revised on

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Sheet Contents

EXTERIOR ELEVATIONS

Project Number. 6790
Drawing No.

A200

Sheet of

NOTE:

STAIR FABRICATOR TO PROVIDE SHOP DRAWINGS FOR STAIR SYSTEM. ALL STAIR TREADS AND PLATFORMS SHALL MEET 100 PSF LIVE LOAD. HANDRAIL AND GUARDRAILS SHALL MEET A 50 PLF GENERAL LOAD AND A MINIMUM 200 POUND CONCENTRATED LOAD.

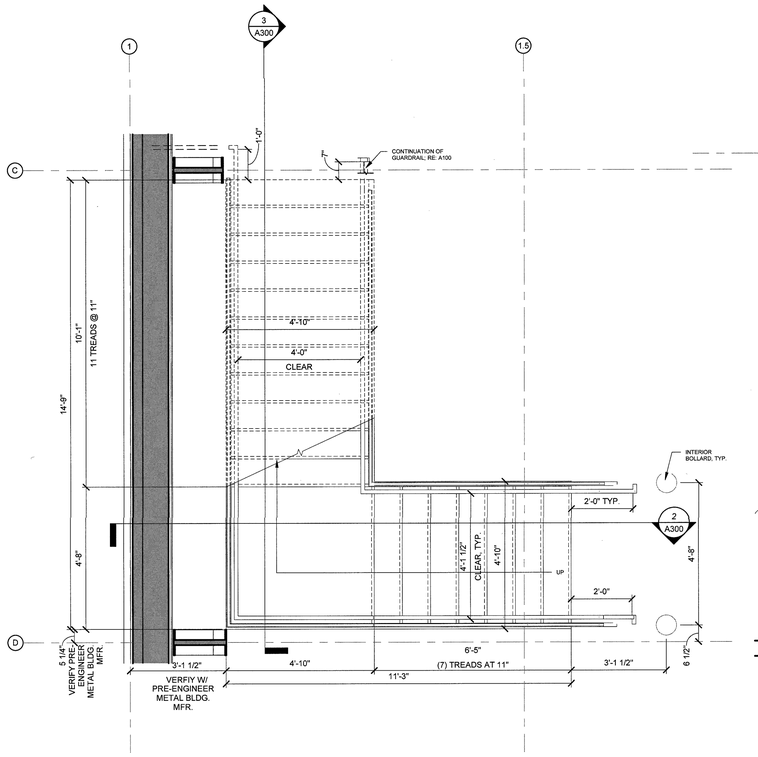
ALL STEEL CONNECTIONS TO BE FULLY WELDED U.N.O.

Certification

Drawn by EP, ADC

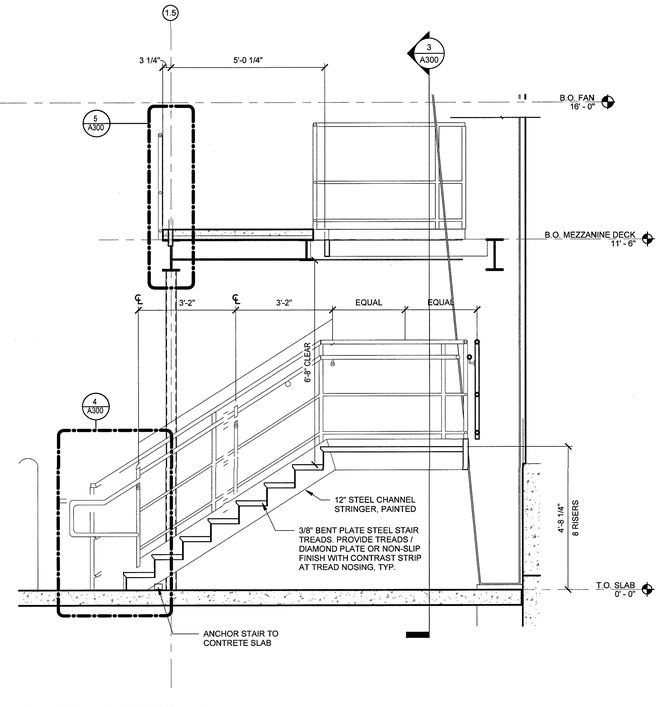
Checked by AHB, JJR

Revised on



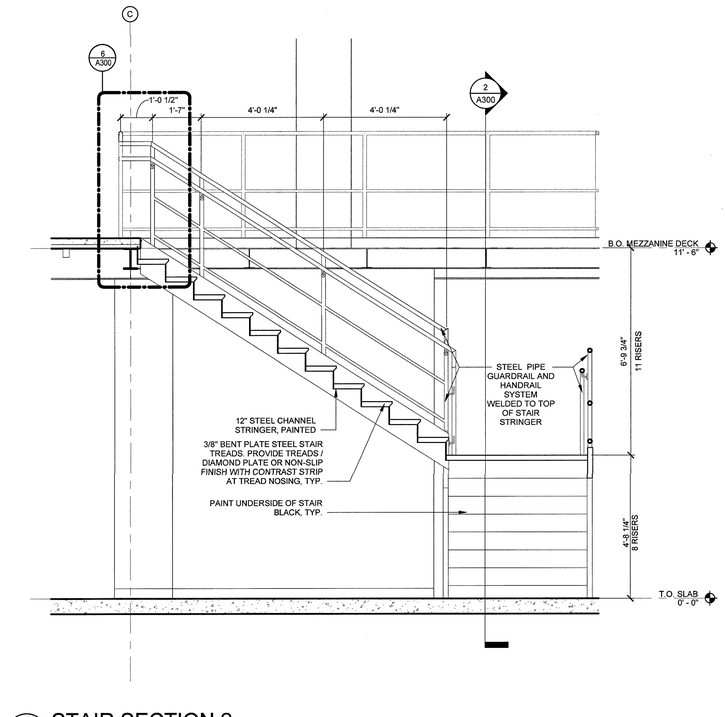
1 A300 ENLARGED STAIR PLAN

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



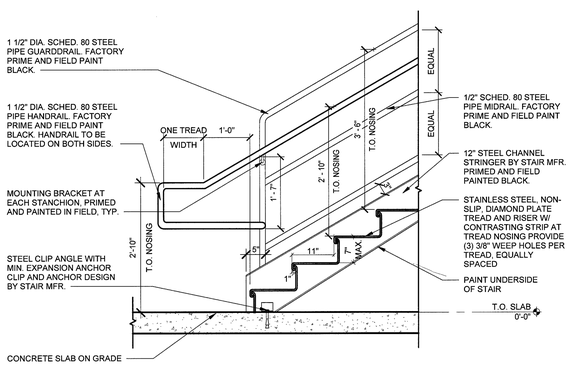
2 A300 STAIR SECTION 1

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



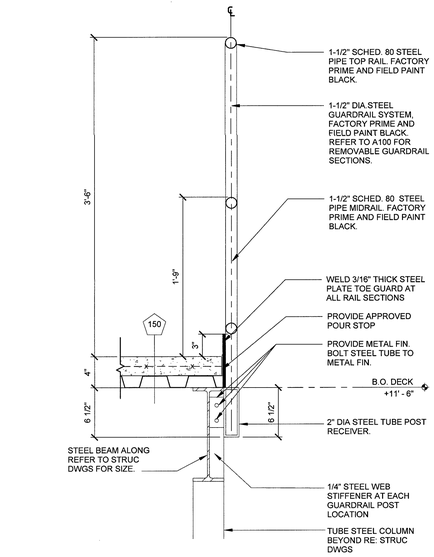
3 A300 STAIR SECTION 2

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



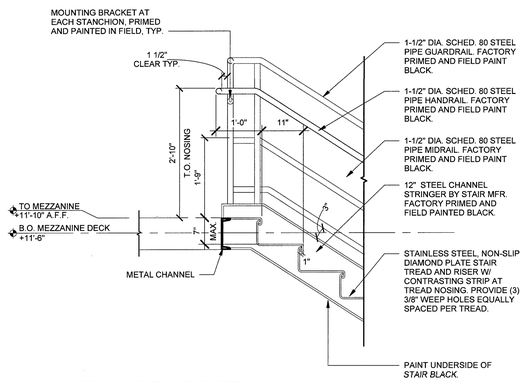
4 A300 BOTTOM OF STAIR & SLAB CONNECTION

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



5 A300 TYP GUARDRAIL DETAIL

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



6 A300 METAL STAIR DETAIL

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

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Sheet Contents

ENLARGED STAIR, ELEVATION, & SECTIONS

Project Number. 6790

Drawing No.

A300

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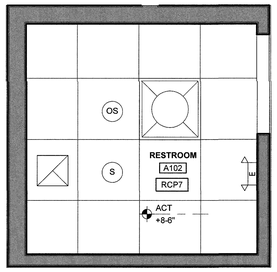
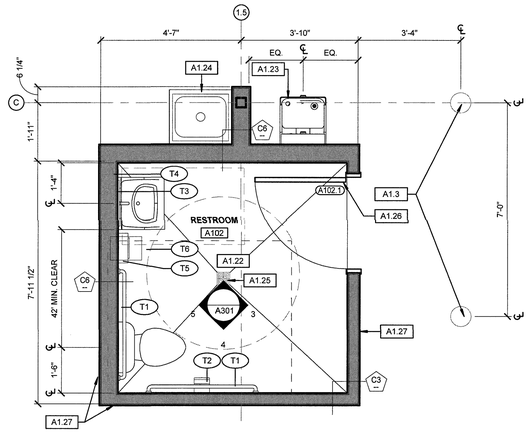


1 A301 TOILET ROOM RCP - ALTERNATE #1

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



2 A301 ENLARGED TOILET ROOM PLAN - ALTERNATE #1

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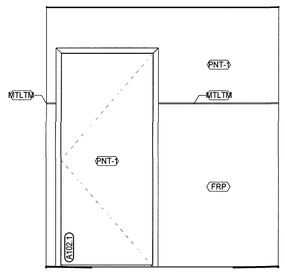
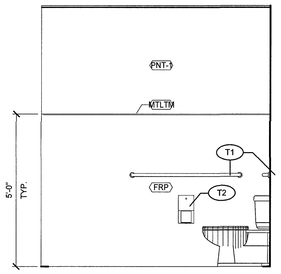


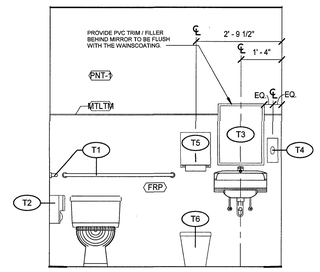
3 A301 INT. EAST ELEVATION (ALT#1)

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



4 A301 INT. SOUTH ELEVATION (ALT#1)

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



5 A301 INT. WEST ELEVATION (ALT#1)

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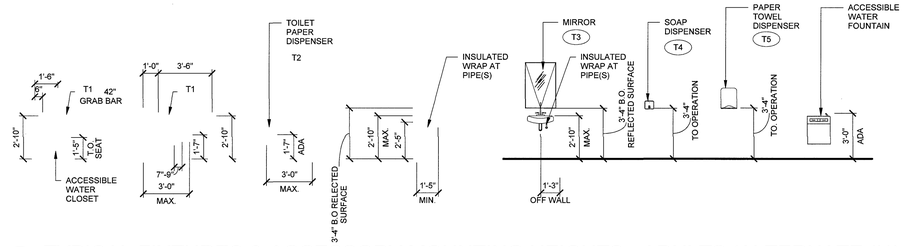
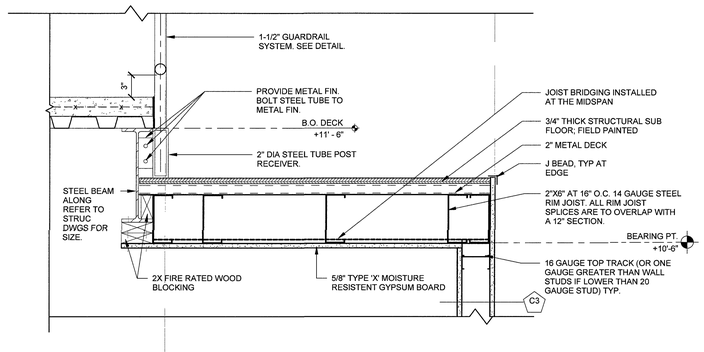


6 A300 TYPICAL FIXTURES & ACCESSORY MOUNTING HEIGHTS - ADULTS (ALTERNATE #1)

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



7 A301 WALL TO CEILING ENCLOSURE (ALTERNATE #1)

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

GENERAL PLAN NOTES

1. COORDINATE ALL WORK w/ CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, &/or OTHER DRAWINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
2. ALL DIMENSIONS TO EXTERIOR CONSTRUCTION ARE TO FACE OF CONCRETE FOUNDATION U.N.O.
3. ALL DIMENSIONS TO CONSTRUCTION ARE TO FACE OF STUD
4. ALL EXTERIOR WALLS ARE TYPE 1A U.N.O.
5. ALL INTERIOR WALLS ARE TYPE C3 AT STUD WALL U.N.O.
6. ALL DOOR FRAMES SHALL BE A MINIMUM OF 4" CLEAR FROM THE FACE OF ADJACENT WALL TO DOOR JAMB, U.N.O.
7. THE FOLLOWING ITEMS ARE DESIGNATED AS FOLLOWS:
   FE FIRE EXTINGUISHER WITH SURFACE MOUNTED RETAINER BRACKET
8. REFER TO ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
9. ALL TRENCH AND FLOOR DRAINS 1" LOWER THAN MAIN FLOOR LEVELS OR ROOMS. SLOPE ALL SIDES TO DRAIN U.N.O.
10. SLOPED FLOORS SHALL NOT EXCEED 2% SLOPE
11. REFER TO DRAWING G001 FOR ABBREVIATIONS AND SYMBOL DESCRIPTIONS.
12. PROVIDE BLOCKING FOR ALL WALL HUNG ITEMS.

PLAN WORK NOTES

A1.3 F&I 8" DIAMETER 42" HIGH GALV. STEEL BOLLARD FILLED WITH CONCRETE WITH YELLOW COVER SLEEVE; RE: 7/A501

A1.22 ALTERNATE 1 - F&I RESTROOM WITH NEW ADA COMPLIANT TOILET, LAVATORY & TOILET ACCESSORIES. F&I ACT DROP CEILING AND INTERIOR FINISHES THROUGHOUT; RE: ROOM AND FINISH SCHEDULES AND PLUMBING, MECHANCIAL, AND ELECTRICAL DWGS.

A1.23 ALTERNATE 1 - F&I ADA COMPLIANT SURFACE-MOUNTED DRINKING FOUNTAIN AND BOTTLE FILLING STATION. 4'-0" FRP WAINSCOTING, AND METAL EDGE TRIM AT WALL BEHIND PLUMBING FIXTURE AND RETURN WING WALL: RE: PLUMBING AND ELECTRICAL DWGS

A1.24 ALTERNATE 1 - F&I NEW MOP SINK. F&I WALL PAINT, 5'-0" FRP WAINSCOTING AND METAL EDGE TRIM AT WALL BEHIND PLUMBING FIXTURE AND RETURN WING WALL; RE: PLUMBING DWGS.

A1.25 ALTERNATE 1 - F&I FLOOR DRAIN AND METAL GRATE; RE: PLUMBING DWGS

A1.26 ALTERNATE 1 - F&I INTERIOR DOOR, FRAME, AND DOOR HARDWARE. PRIME AND FIELD PAINT; RE: DOOR AND FINISH SCHEDULES

A1.27 ALTERNATE 1 - F&I WALL PAINT AND 4" WALL BASE; RE: DOOR AND FINISH SCHEDULES

REFLECTED CEILING PLAN NOTES

1. NOT ALL CEILING MOUNTED &/or SUSPENDED ITEMS, COMPONENTS, &/or WORK MAY BE SHOWN. CONTRACTOR TO COORDINATE w/ ALL DRAWINGS INCLUDING STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. NOTIFY THE ARCHITECT OF ANY ADDITIONAL ITEMS &/or DISCREPANCIES BEFORE STARTING WORK.
2. ALL CEILING MOUNTED ITEMS ARE TO BE CENTERED IN CEILING TILES U.N.O.
3. PROVIDE WHITE GROMMET TRIM AT ALL SUPPORT CABLE &/or WIRING PENETRATIONS FOR SUSPENDED ELEMENTS.

RCP WORK NOTES

RCP7 ALTERNATE #1 - F&I SUSPENDED ACT ASSEMBLY AND GRID, EXHAUST REGISTER GRILLE, LED LIGHT FIXTURE, EMERGENCY BATTERY BACKUP AND CEILING MOUNTED DEVICES IN RESTROOM; RE: MECHANICAL & ELECTRICAL DWGS.

REFLECTED CEILING PLAN LEGEND

- 2X2 ACOUSTICAL CEILING TILE & GRID
- 2X2 LED TROFFER LIGHT FIXTURE COORDINATE W/ ELEC. DWGS
- E — EMERGENCY BATTERY BACKUP EGRESS LIGHTING COORDINATE W/ ELEC. DWGS
- EXHAUST GRILLE; RE: MECHANICAL DWGS
- OS — OCCUPANY SENSOR COORDINATE W/ ELEC. DWGS
- S — SMOKE DETECTOR COORDINATE W/ ELEC. DWGS

ACCESSORY SCHEDULE (BASIS OF DESIGN)

T1	GRAB BAR BOBRICK #B-6806 SERIES
T2	SURFACE-MOUNTED TOILET PAPER DISPENSER BOBRICK #B-B-2888 SERIES
T3	18"X24" CHANNEL-FRAME MIRROR BOBRICK #B-165 SERIES
T4	SURFACE-MOUNTED SOAP DISPENSER BOBRICK #B-165 BOBRICK #B-2111
T5	SURFACE-MOUNTED PAPER TOWEL DISPENSER BOBRICK #B-9262 BOBRICK #B-2111
T6	FREESTANDING WASTE RECEPTACLE RUBBERMAID FG5L5100WHT

Certification

REGISTERED ARCHITECT — STEPHEN W. BADGLEY — No. 30758 — BOSTON, MA — COMMONWEALTH OF MASSACHUSETTS — 8-22-24

Drawn by EP, ADC

Checked by AHB, JJR

Revised on

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DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY AND SITE IMPROVEMENTS

DEDHAM - WESTWOOD WATER DISTRICT

50 ELM STREET
DEDHAM, MA 02026

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Issued On 8/20/2024

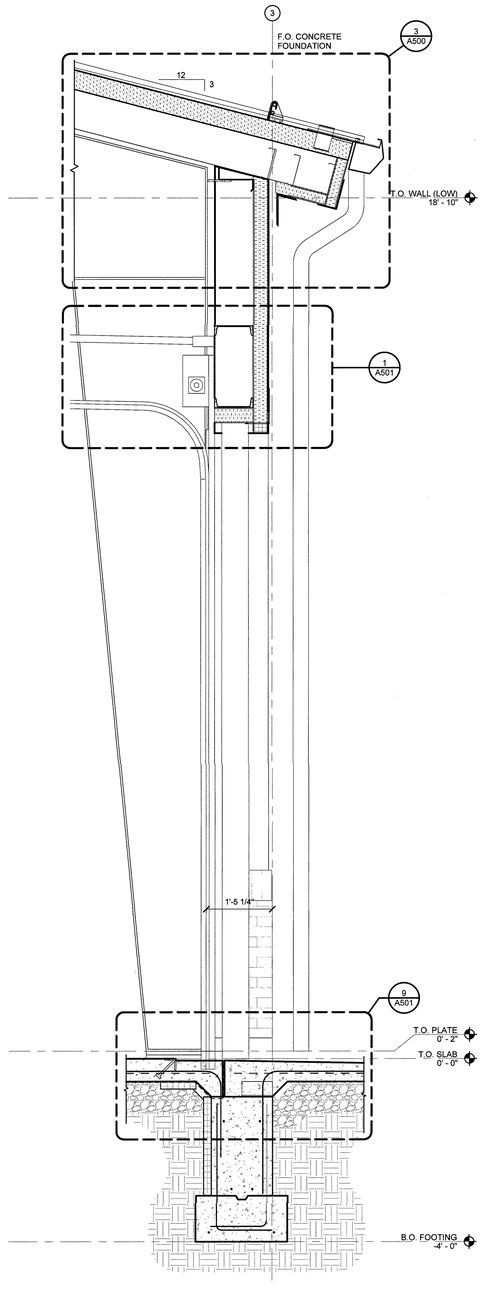
Sheet Contents

ENLARGED TOILET ROOM PLAN, INTERIOR ELEVATIONS, ACCESSORY SCHEDULE & DETAILS-ALTERNATE #1

Project Number. 6790

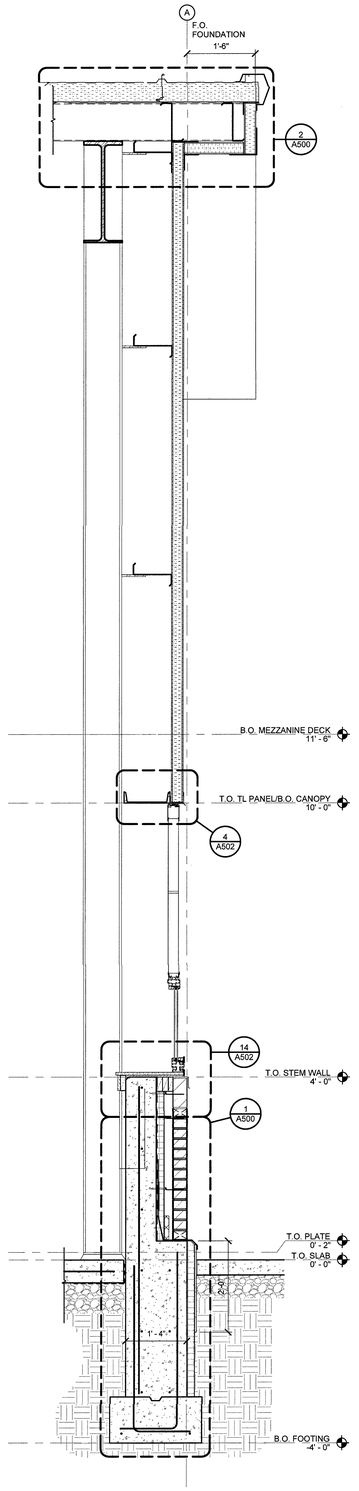
Drawing No. A301

Sheet of



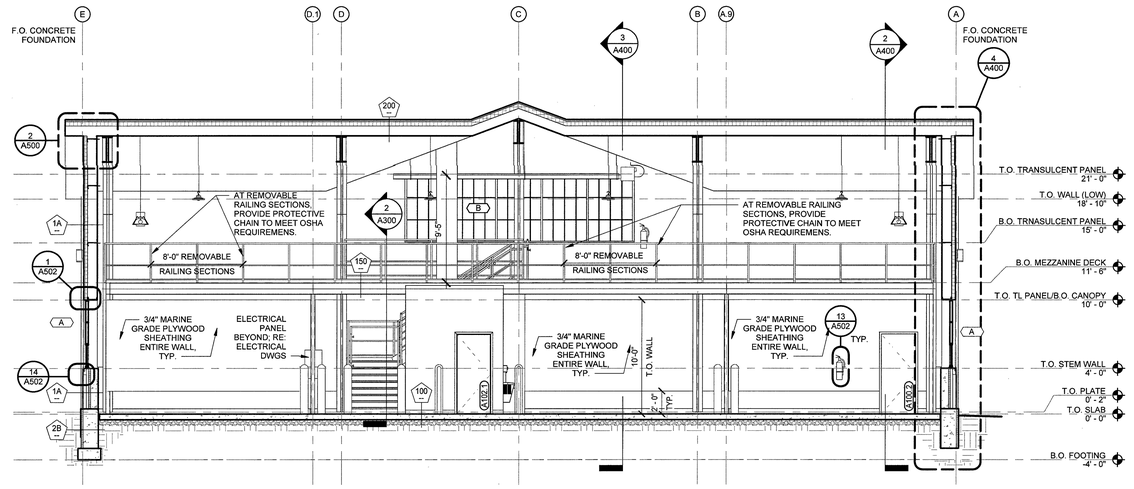
5 A400 WALL SECTION 1

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



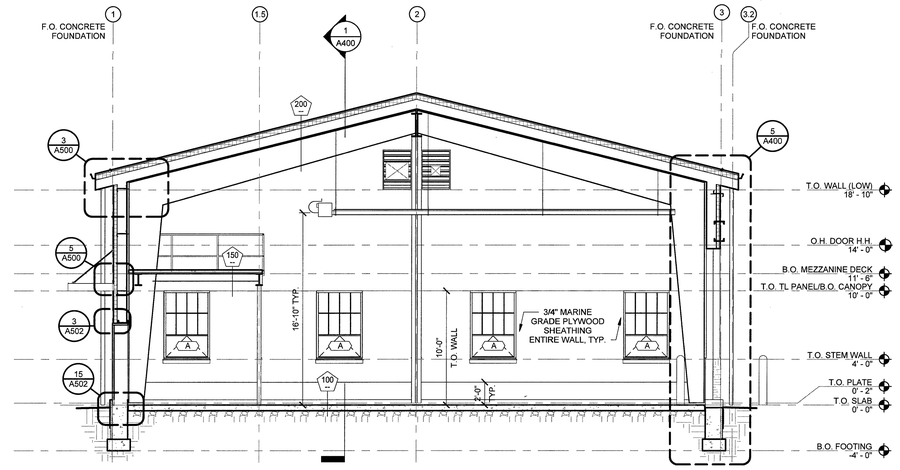
4 A400 WALL SECTION 2

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



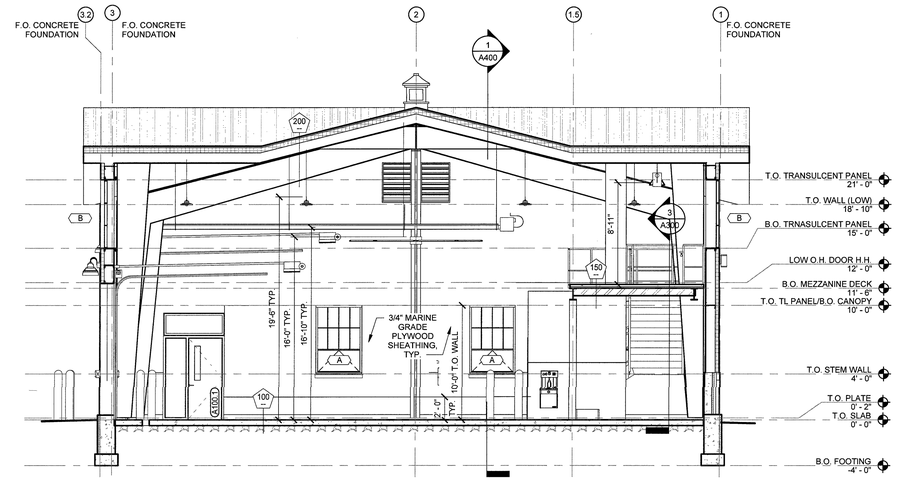
1 A400 BUILDING SECTION 1

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



2 A400 BUILDING SECTION - LOW BAY

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



3 A400 BUILDING SECTION - HIGH BAY

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

Certification

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8-22-24

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BUILDING & WALL SECTIONS

Project Number. 6790

Drawing No.

A400

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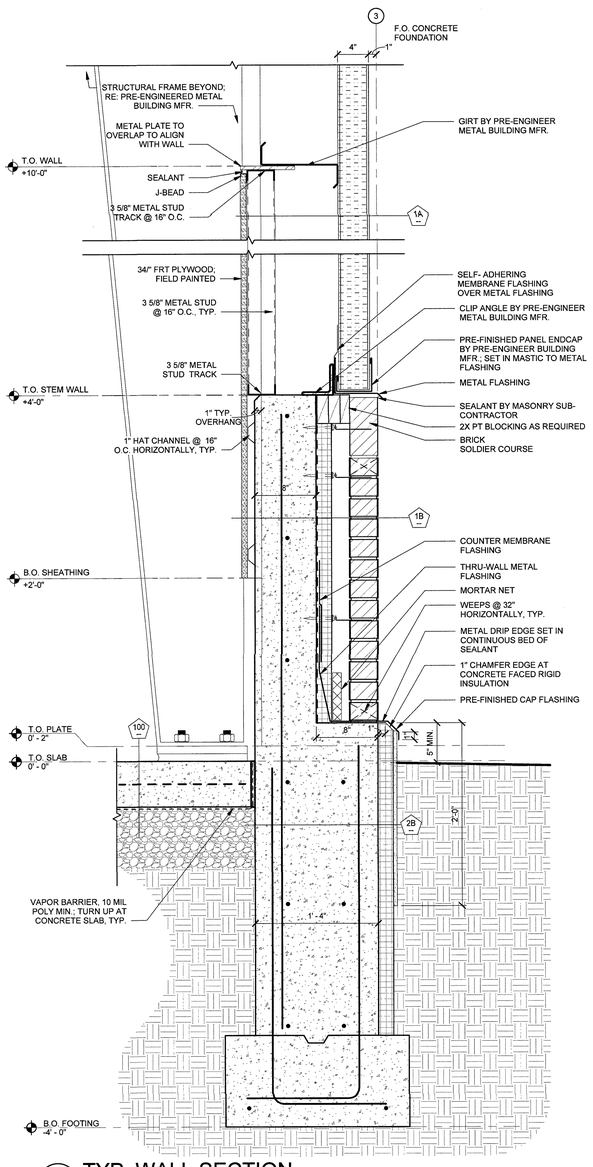
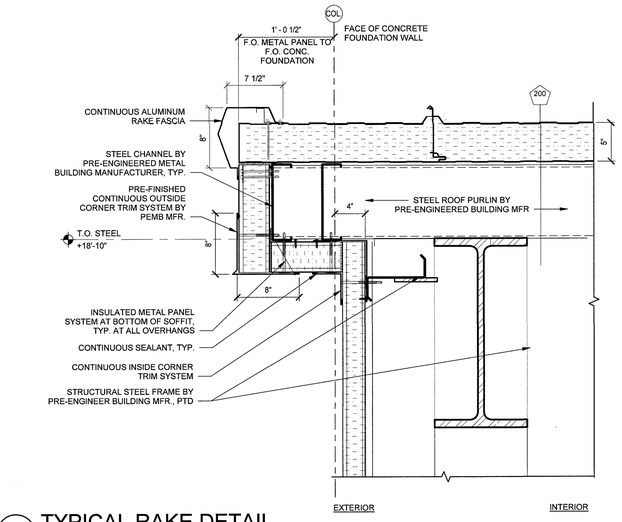


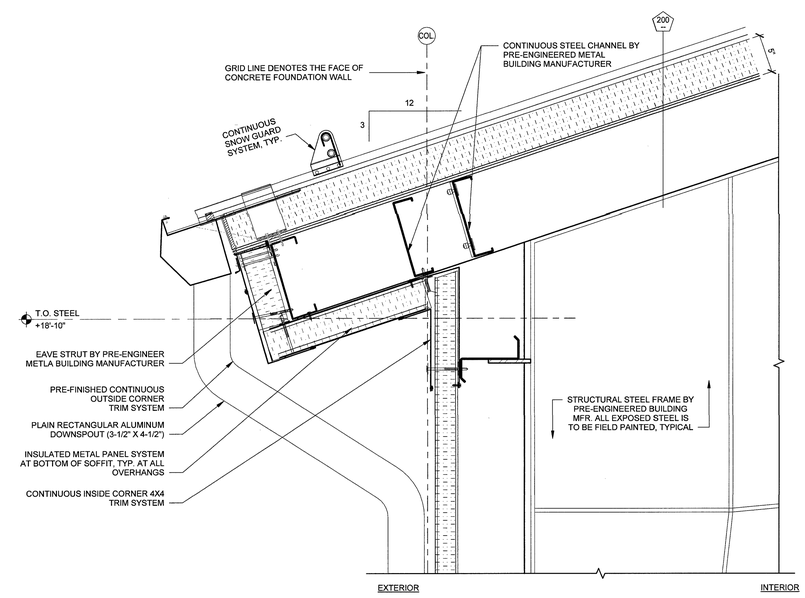
1 A500 TYP. WALL SECTION

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



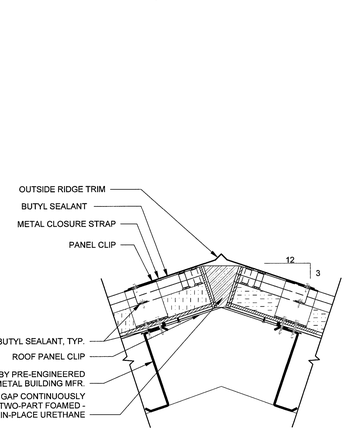
2 A500 TYPICAL RAKE DETAIL

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



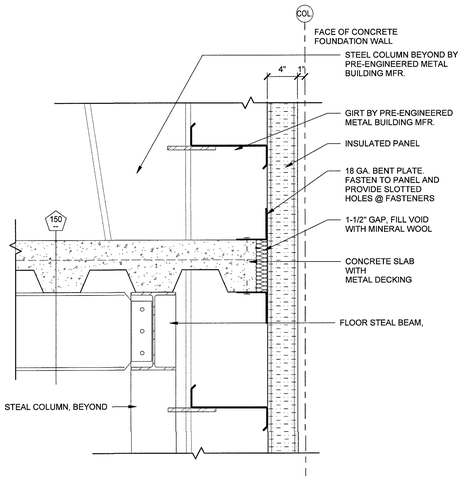
3 A500 TYPICAL ROOF/EAVE DETAIL

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



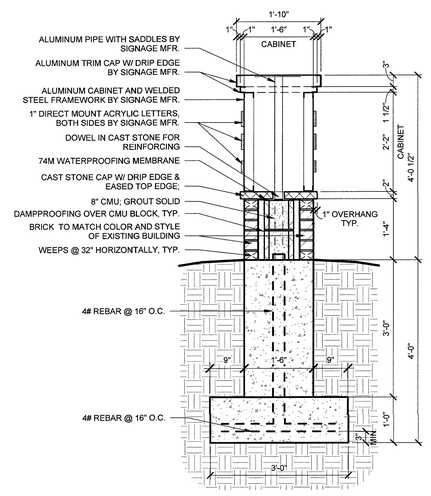
4 A500 TYP. ROOF RIDGE

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



5 A500 DETAIL OF MEZZ TO EXT. WALL

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



6 A500 MONUMENT SIGN SECTION

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

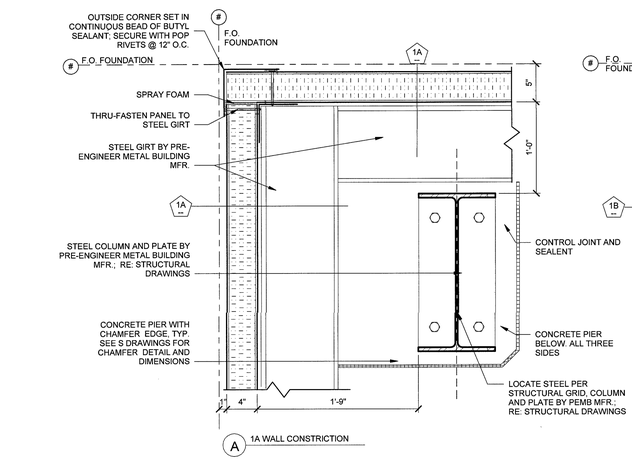
DESCRIPTION: 5'-8" LONG X 1'-6" DEEP X 4'-0-1/2" HIGH FREESTANDING ALUMINUM CABINET WITH AN INTERNAL ALUMINUM FRAME, 0.125" MINIMUM ALUMINUM SKIN (PAINTED) BY THE SIGNAGE MANUFACTURER.

SIGN TO BE SECURED TO A CAST STONE CAP, MASONRY/BRICK BASE, AND CONCRETE FOOTING.

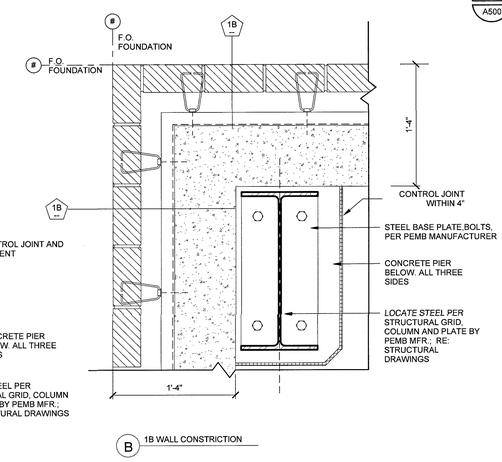
THE SUPPORT STRUCTURE SHOULD CONSIST OF A 2" MINIMUM DIAMETER TUBE AND SADDLES CONSTRUCTED BY THE SIGNAGE MANUFACTURER.

GRAPHICS (BOTH SIDES):
1/2" RAISED ACRYLIC LETTER DIRECT-MOUNT TO ALUMINUM CABINET; TYPEFACE: ARIAL, COLOR: BLACK
- 4" HIGH - DEDHAM-WESTWOOD WATER DISTRICT
- 3" HIGH - 50 ELM STREET

COLORS:
- BRICK TO MATCH COLOR AND STYLE TO THE EXISTING
- ALUMINUM CABINET: CHINA WHITE
- ALUMINUM TRIM CAP: CHINA WHITE



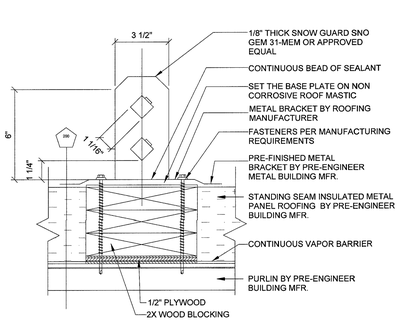
A 1A WALL CONSTRICTION



B 1B WALL CONSTRICTION

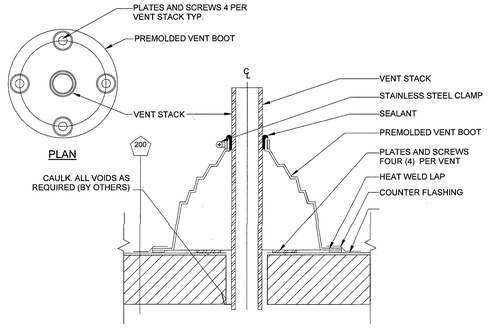
7 A500 TYPICAL OUTSIDE CORNER DETAILS

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



8 A500 SNOW FENCE DETAIL

Scale: 3" = 1'-0"



9 A500 PLUMBING PENETRATION DETAIL - ALT #1

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

Certification

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8-22-24

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A500

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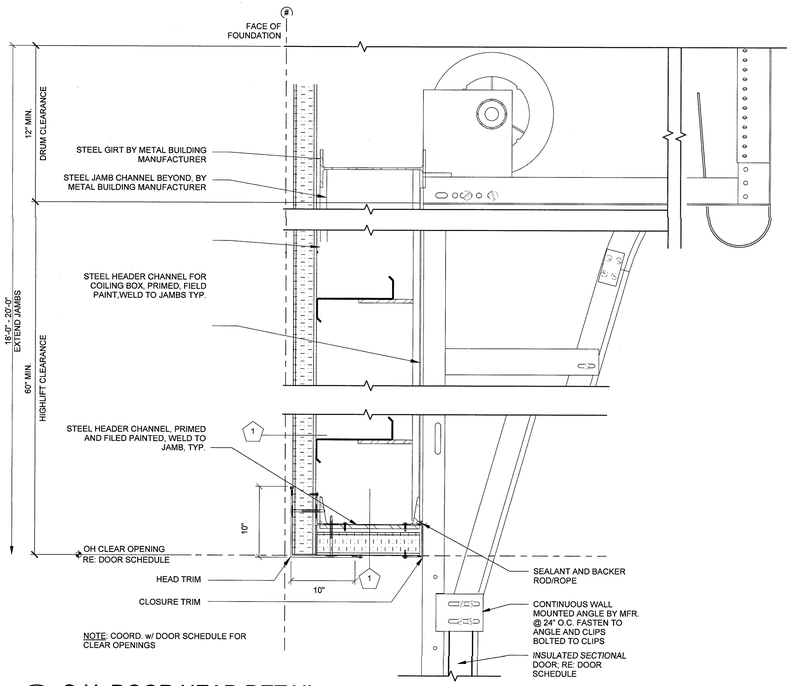
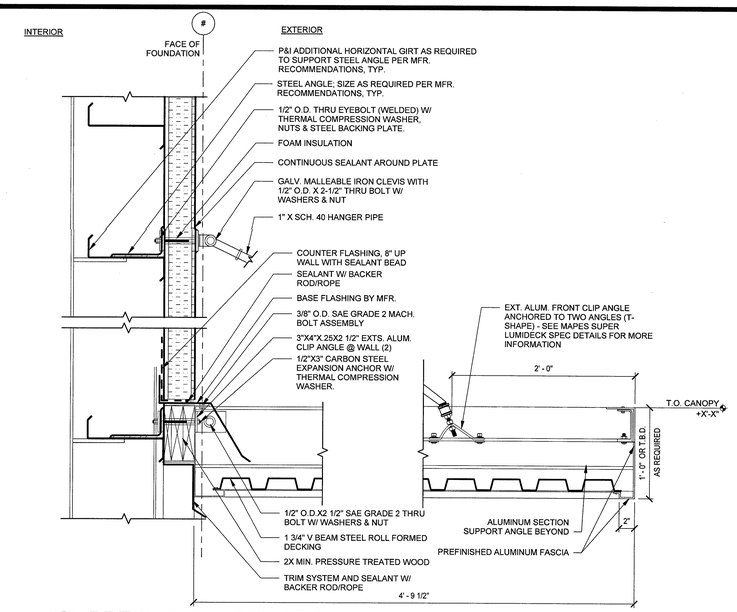
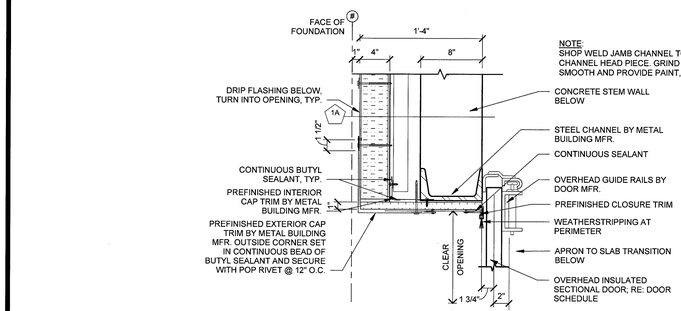


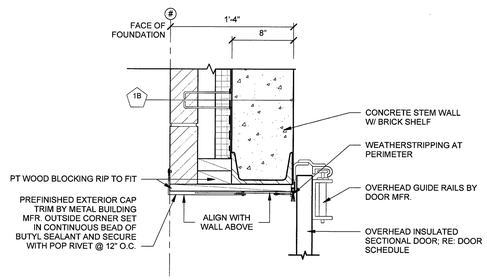
1 O.H. DOOR HEAD DETAIL
A501 Scale: 1 1/2" = 1'-0"



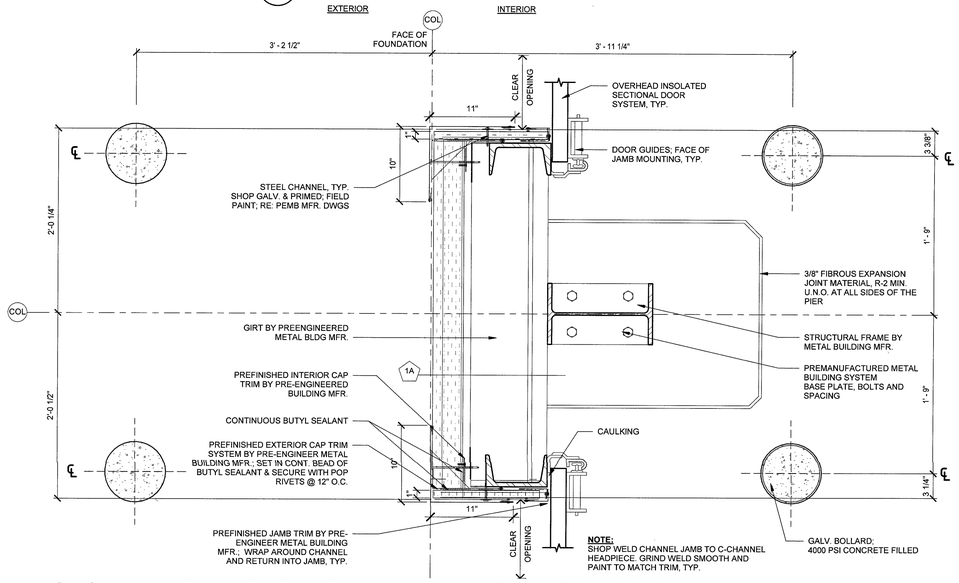
2 PRE-FAB CANOPY SECTION
A501 Scale: 1 1/2" = 1'-0"



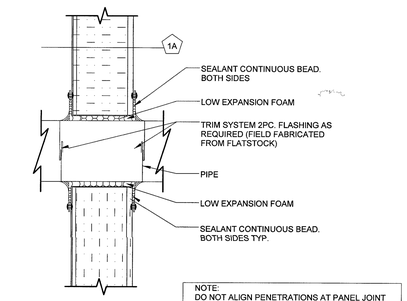
7 O.H. DOOR JAMB AT 1A WALL
A501 Scale: 1 1/2" = 1'-0"



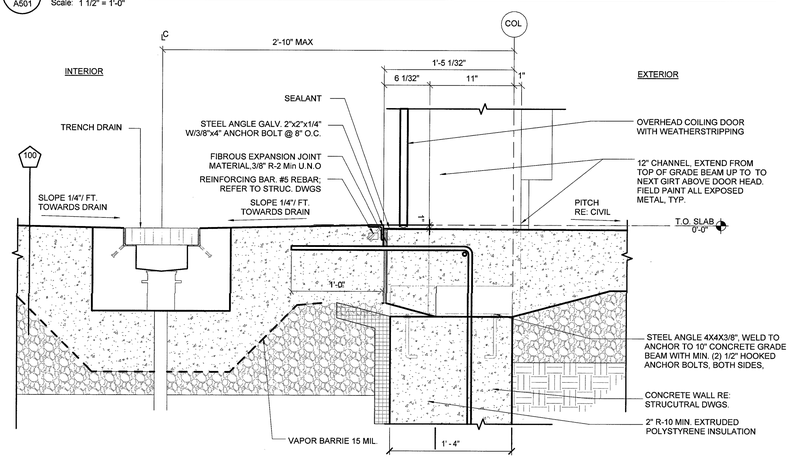
8 O.H. DOOR JAMB AT 1B WALL
A501 Scale: 1 1/2" = 1'-0"



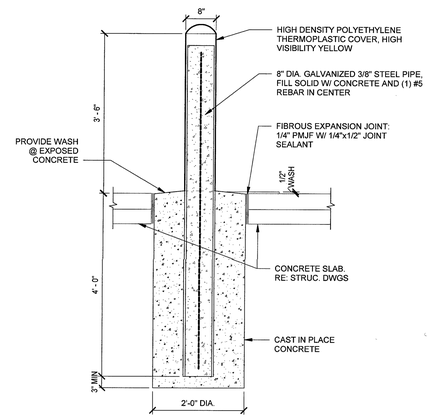
5 O.H. DOOR JAMB ABOVE STEM WALL & BOLLARD LOCATION
A501 Scale: 1 1/2" = 1'-0"



6 TYP. WALL PENETRATION DETAIL
A501 Scale: 3" = 1'-0"



9 O.H. DOOR SILL DETAIL
A501 Scale: 1 1/2" = 1'-0"



10 TYPICAL BOLLARD DETAILS
A501 Scale: 3/4" = 1'-0"

Certification

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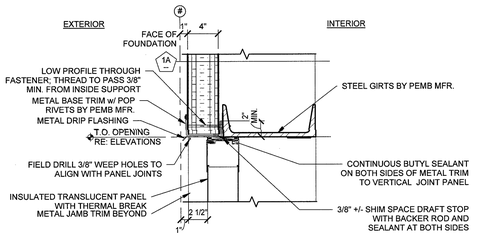
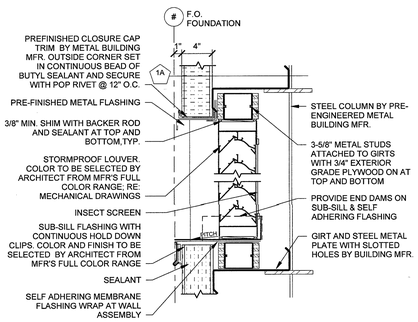


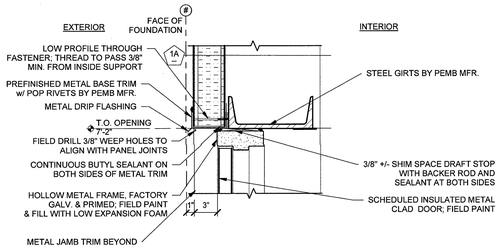
1 TYPICAL TRANSLUCENT HEAD DETAIL

A502 Scale: 1 1/2" = 1'-0"



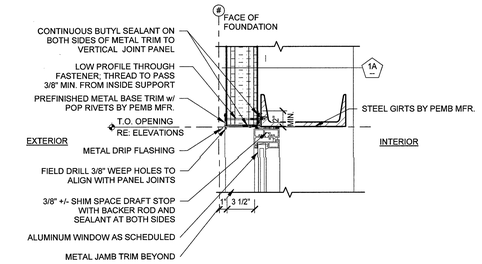
2 METAL LOUVER HEAD AND SILL DETAIL

A502 Scale: 1 1/2" = 1'-0"



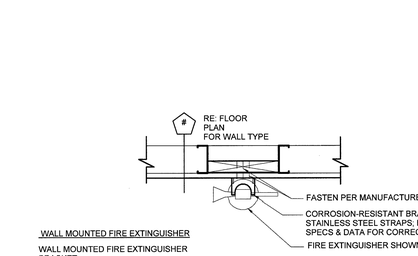
3 MTL DOOR HEAD DETAIL

A502 Scale: 1 1/2" = 1'-0"



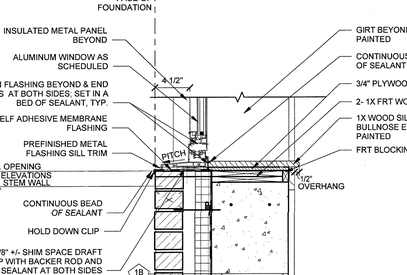
4 ALUMINUM STOREFRONT HEAD DETAIL

A502 Scale: 1 1/2" = 1'-0"



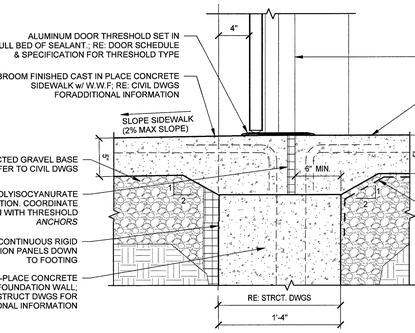
5 TYPICAL TRANSULCENT JAMB DETAIL

A502 Scale: 1 1/2" = 1'-0"



6 STOREFRONT/ALUM. WINDOW JAMB DETAIL

A502 Scale: 1 1/2" = 1'-0"



7 MTL DOOR JAMB ABOVE STEM WALL

A502 Scale: 1 1/2" = 1'-0"

8 STOREFRONT DOOR JAMB DETAIL

A502 Scale: 1 1/2" = 1'-0"

9 TYPICAL TRANSLUCENT SILL DETAIL

A502 Scale: 1 1/2" = 1'-0"

10 STOREFRONT JAMB DETAIL AT STEM WALL

A502 Scale: 1 1/2" = 1'-0"

11 MTL DOOR JAMB AT STEM WALL

A502 Scale: 1 1/2" = 1'-0"

12 STOREFRONT DOOR JAMB AT STEM WALL

A502 Scale: 1 1/2" = 1'-0"

13 FIRE EXTINGUISHER DETAIL

A502 Scale: 1 1/2" = 1'-0"

14 ALUM. WINDOW SILL DETAIL

A502 Scale: 1 1/2" = 1'-0"

15 TYPICAL EXTERIOR DOOR SILL AT SIDEWALK

A502 Scale: 1 1/2" = 1'-0"

Certification

REGISTERED ARCHITECT JOHN R. RADZIEVICH No.30755 BOSTON, MA COMMONWEALTH OF MASSACHUSETTS 8-22-24

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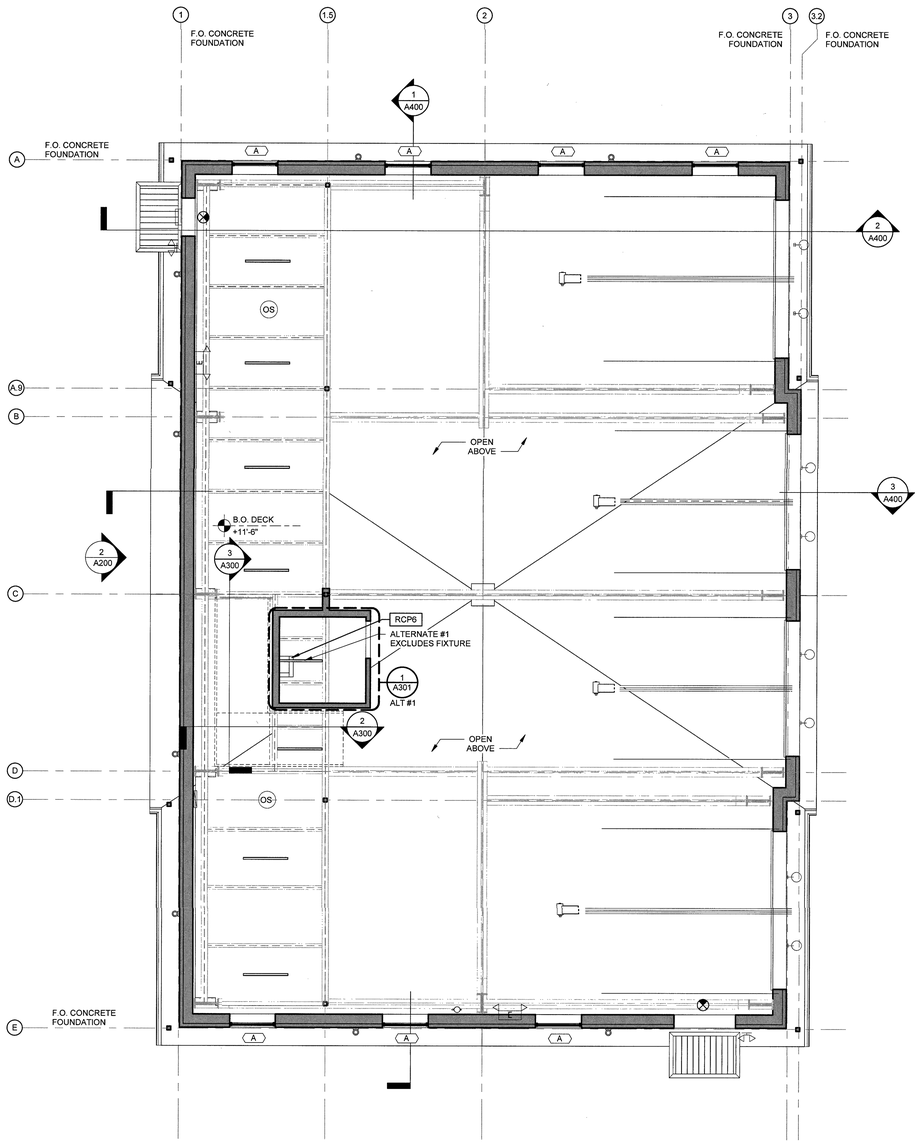
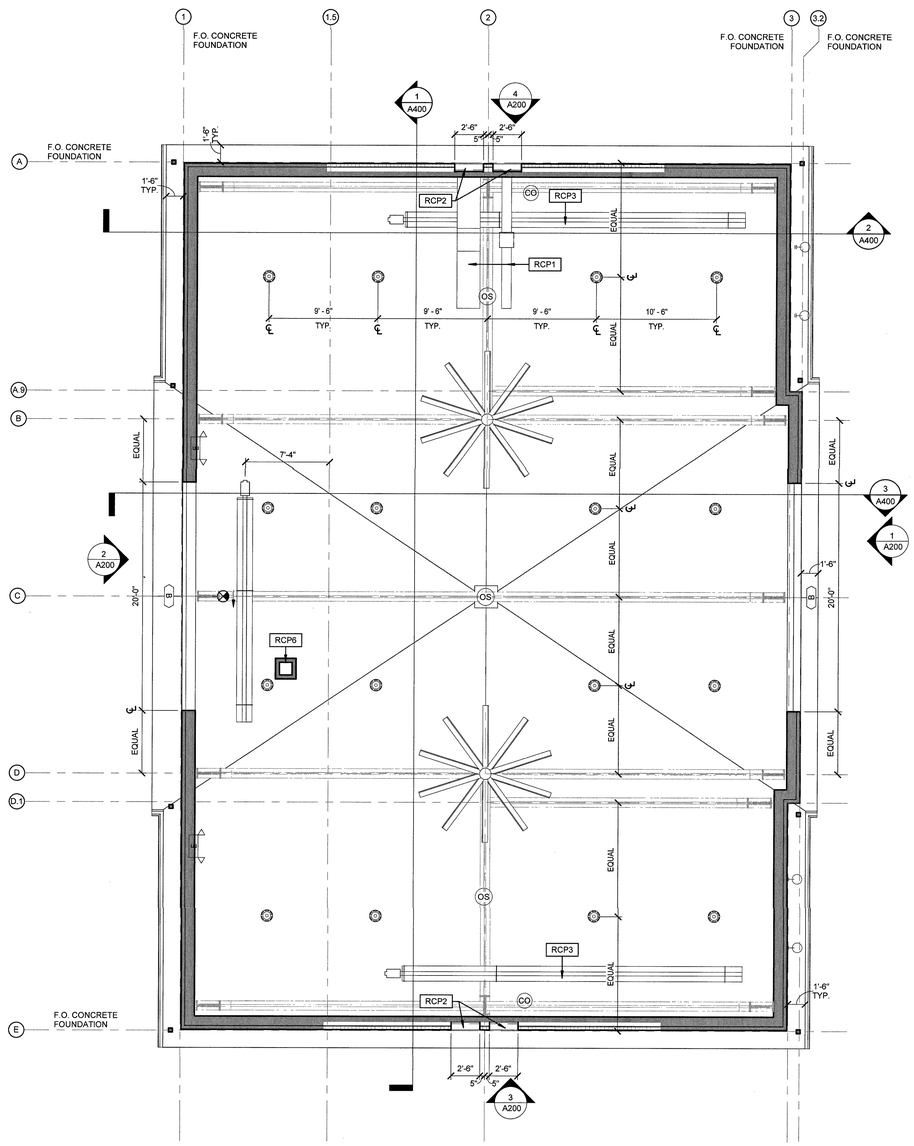


2 MEZZANINE REFLECTED CEILING PLAN
A600 Scale: 3/16" = 1'-0"

TRUE NORTH
BLDG NORTH



1 REFLECTED CEILING PLAN
A600 Scale: 3/16" = 1'-0"

TRUE NORTH
BLDG NORTH

REFLECTED CEILING PLAN NOTES

1. NOT ALL CEILING MOUNTED &/or SUSPENDED ITEMS, COMPONENTS, &/or WORK MAY BE SHOWN. CONTRACTOR TO COORDINATE w/ ALL DRAWINGS INCLUDING STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS. NOTIFY THE ARCHITECT OF ANY ADDITIONAL ITEMS &/or DISCREPANCIES BEFORE STARTING WORK.
2. ALL CEILING MOUNTED ITEMS ARE TO BE CENTERED IN CEILING TILES U.N.O.
3. PROVIDE WHITE GROMMET TRIM AT ALL SUPPORT CABLE &/or WIRING PENETRATIONS FOR SUSPENDED ELEMENTS.

CONSTRUCTION LEGEND

NEW WALL/ITEM

F&I = FURNISH AND INSTALL

WORK NOTES WITHOUT AN ARROW INDICATE AN ENTIRE SPACE/AREA.

WORK NOTES WITH AN ARROW(S) INDICATE SPECIFIC AREAS &/or ITEMS.

CEIING FINISH
SAT 9'-0"
HEIGHT OF CEILING ABOVE FINISH FLOOR

REFLECTED CEILING PLAN LEGEND

- LINEAR LED LIGHT FIXTURE COORDINATE W/ ELEC. DWGS
- HIGH BAY SUSPENDED LED LIGHT FIXTURE COORDINATE W/ ELEC. DWGS
- EXTERIOR LED SURFACE MOUNTED UP/DOWN LIGHT FIXTURE; RE: ELECTRICAL DRAWINGS
- EXTERIOR GOOSENECK STYLE LED LIGHT FIXTURE; RE: ELECTRICAL DRAWINGS
- EXTERIOR DOWNLIGHT LED LIGHT FIXTURE; RE: ELECTRICAL DRAWINGS
- EXIT SIGN COORDINATE W/ ELEC. DWGS
- WALL MOUNTED DIRETIONAL EXIT SIGN COORDINATE W/ ELEC. DWGS
- E — EMERGENCY BATTERY BACKUP EGRESS LIGHTING COORDINATE W/ ELEC. DWGS
- EXTERIOR (WET LOCATION) REMOTE DOUBLE HEAD LED LIGHT FIXTURE; COORDINATE W/ ELEC. DWGS
- CEILING FAN COORDINATE W/ MECH. DWGS
- GAS FIRED INFRARED HEATER RE: MECHANICAL & ELECTRICAL DWGS
- PREFABRICATED METAL CANOPY
- DUCT; RE: MECHANICAL DWGS
- DOWNSPOUT
- CO — CO/NO2 SENSOR COORDINATE W/ MECH. DWGS
- OS — OCCUPANY SENSOR. COORDINATE W/ ELEC. DWGS
- H — HEAT DETECTOR COORDINATE W/ ELEC. DWGS

RCP WORK NOTES

RCP1 F&I MECHANICAL DUCT, EXHAUST FANS AND MOTORIZED DAMPERS RE: ELECTRICAL & MECHANICAL DRAWINGS

RCP2 F&I STORM-PROOF LOUVER WITH INSERT AND BIRD SCREEN

RCP3 F&I GAS FIRED INFRAED HEATER; COORDINATE SECTIONS FOR MOUNTING HEIGHTS. RE: PLUMBING, ELECTRICAL, & MECHANICAL DRAWINGS

RCP6 ALTERNATE #1 - F&I METAL STUD AND GYPSUM BOARD CHASE TO THE UNDERSIDE OF ROOF FOR PLUMBING STACK AND MECHANICAL DUCT TO ROOF. FIELD PAINT; RE: MECHANICAL AND ELECTRICAL DWGS

Certification

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8-22-24

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Project
DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY AND SITE IMPROVEMENTS

50 ELM STREET
DEDHAM, MA 02026

Drawing Status
100% CONSTRUCTION DOCUMENTS

Issued On 8/20/2024

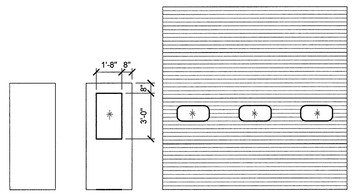
Sheet Contents
REFLECTED CEILING PLAN

Project Number. 6790
Drawing No.
A600

Sheet of

DOOR AND FRAME SCHEDULE

MARK	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE DEPTH	DOOR TYPE	DOOR MATL	FRAME DEPTH	FRAME TYPE	FRAME MATL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FIRE RATING	HARDWARE	REMARKS
T.O. SLAB														
A100.1	3' - 0"	7' - 2"	0' - 1 3/4"	2	AL/GL	8 1/4"	2	AL.	4/A502	7,8,12/A502	11/A502	--	SET #1	--
A100.2	3' - 0"	7' - 0"	0' - 1 3/4"	1	IMC	8 1/4"	1	HM	3/A502	7&8/A502	11/A502	--	SET#2	--
A102.1	3' - 0"	7' - 0"	0' - 1 3/4"	1	MTL	5 7/8"	1	HM	4/A900	7/A900	6/A900	N/A	SET #3	ALTERNATE #1
A100.3	12'-0"	14'-0"	--	3	MTL	--	3	GALV. ST	1/A501	4&8/A501	9/A501	--	BY DOOR MFR./SUPPLIER	VERIFY OVERHEAD DOOR (INSULATED SECTIONAL) R.O.
A100.4	12'-0"	12'-0"	--	3	MTL	--	3	GALV. ST	1/A501	4,5&7/A501	9/A501	--	BY DOOR MFR./SUPPLIER	DIMENSIONS WITH MFR. REQUIREMENTS. ALL TRACKS,
A100.5	12'-0"	12'-0"	--	3	MTL	--	3	GALV. ST	1/A501	4,5&7/A501	9/A501	--	BY DOOR MFR./SUPPLIER	SPRINGS, HARDWARE, WEATHERSTRIPPING, ETC. TO BE HEAVY
A100.6	12'-0"	14'-0"	--	3	MTL	--	3	GALV. ST	1/A501	4&8/A501	9/A501	--	BY DOOR MFR./SUPPLIER	DUTY. FURNISHED AND INSTALLED BY DOOR MFR./SUPPLIER.



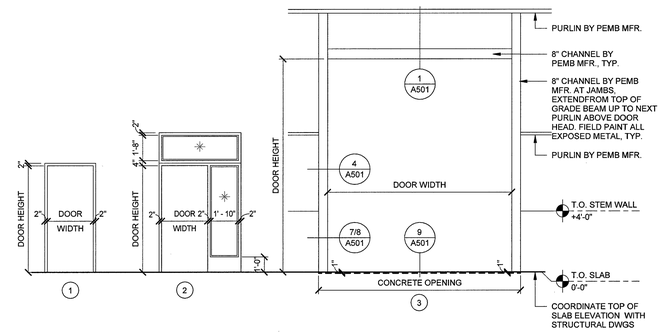
1 FLUSH

2 FLUSH W/ LITE

3 OVERHEAD INSULATED SECTIONAL DOOR WITH VISION PANELS

1 A900 DOOR TYPES

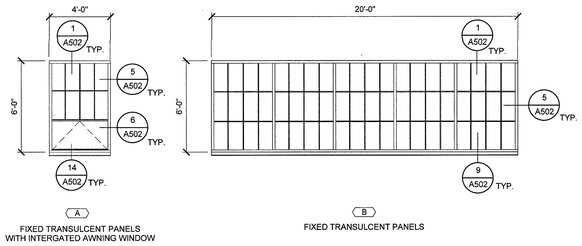
Scale: 1/4" = 1'-0"



1 2 3

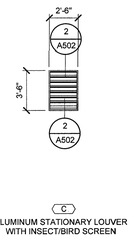
2 A900 HM FRAME TYPES

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

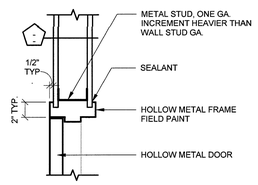


A FIXED TRANSULCENT PANELS WITH INTERGATED AWNING WINDOW

B FIXED TRANSULCENT PANELS

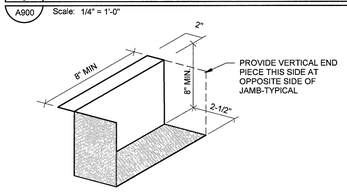


C ALUMINUM STATIONARY LOUVER WITH INSECT/BIRD SCREEN



3 A900 OPENING SCHEDULE

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

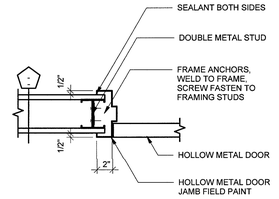


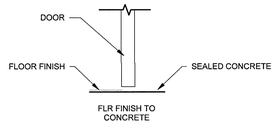
NOTES:

1. LAP FABRIC FLASHING OVER BY 6" - PROVIDE 2" WIDE MINIMUM MASTIC BED ON PAN & SEAL FABRIC TO PAN.
2. PROVIDE FLASHING PAN AT ALL EXTERIOR DOOR JAMBS AND OTHER LOCATIONS NOTED ON DWGS.

4 A900 HM HEAD AT STUD - ALT#1

Scale: 1 1/2" = 1'-0" (SECTION DETAIL)





FLR FINISH TO CONCRETE

5 A900 TYP. PAN FLASHING

Scale: 1 1/2" = 1'-0" (AXON DETAIL)

6 A900 INTERIOR DOOR SILL-ALT#1

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

7 A900 HM JAMB AT STUD - ALT#1

Scale: 1 1/2" = 1'-0" (PLAN DETAIL)

ROOM FINISH SCHEDULE

ROOM #	ROOM DESCRIPTION	CEILING	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	BASE	FLOOR	REMARKS
A100	STORAGE FACILITY	EXP	PNT-1 @ PLYWOOD	--	PNT-1 @ PLYWOOD	PNT-1 @ PLYWOOD	--	CONC	
A101	MEZZANINE	EXP	--	--	--	--	--	CONC	
A102	RESTROOM	ACT	PNT-1, FRP	PNT-1, FRP	PNT-1, FRP	PNT-1, FRP	RB	EPOXY	

FINISH MATERIAL SCHEDULE1

TAG	DESCRIPTION	MANUFACTURER	STYLE NAME/NUMBER	COLOR NAME/NUMBER	FINISH/REMARKS
CEILING					
EXP	EXPOSED CEILING	--	--	--	PNT-3 & PNT-4 AT EXPOSED STRUCUTRE & ITEMS
WALLS					
PNT-1	FIELD WALL PAINT	SHERWIN WILLIAMS	RE: SPEC	TBD/ TBD	EGGSHELL THROUGHOUT U.N.O.
PNT-2	DOOR & DOOR FRAMES	SHERWIN WILLIAMS	RE:SPEC	TBD/ TBD	SEMI-GLOSS
PNT-3	METAL STAIR, HANDRAIL, AND GUARDRAIL PAINT	SHERWIN WILLIAMS	RE:SPEC	TBD/ TBD	SEMI-GLOSS
FLOORING					
CONC	SEALED CONCRETE	SHERWIN WILLIAMS	RE: SEPC	-	
EPOXY	EPOXY PAINT	SHERWIN WILLIAMS	PRO INDUSTRIAL HIGH PERFORMANCE EPOXY	TBD	ALTERNATE #1
MISC.					
FRP	FRP PANEL	INPRO	PALLADIUM	TBD	ALTERNATE #1
MTLTM-1	METAL END CAP	TBD	TBD	ALUM.	ALTERNATE #1
MTLTM-2	OUTSIDE CORNER METAL TRIM	TBD	TBD	ALUM.	ALTERNATE #1

GENERAL NOTES:

GENERAL:

1. FOR DOOR HEAD, JAMB, & THRESHOLD DETAILS RE: A502 UNO.
2. SYMBOL * DENOTES LOCATION REQUIRING TEMPERED GLAZING. TYPICAL.

DOORS:

1. EXTERIOR DOOR FINISHES UNLESS NOTED OTHERWISE HOLLOW METAL: FACTORY A60 GALV & PRIMED FOR FIELD PAINTING
2. QUICK SET KNOCK DOWN FRAMES ARE NOT ACCEPTABLE.
3. FIELD PAINT ALL METAL FRAMES w/ COLOR AS SELECTED BY THE ARCHITECT. RE: ARCHITECTURAL EXTERIOR ELEVATIONS &/or FINISH SCHEDULE.
4. A60 GALVANIZED HM FRAME & DOOR
5. PROVIDE TEMPERED GLAZING IN DOOR &/or FRAME
6. HARDWARE BY DOOR MANUFACTURER & /OR SUPPLIER U.N.O.
7. ALL HARDWARE IS US32/STAINLESS STEEL FINISH THIS DOOR (i.e. HINGES & PULL)

HARDWARE:

1. HARDWARE & ACCESSORY LIST SCHEDULE ESTABLISHES GENERAL SCOPE REQUIREMENTS. CONTRACTOR, SUPPLIERS &/or MANUFACTURERS TO PROVIDE ALL NECESSARY ACCESSORIES, SCREWS, STRIKES, COVER PLATES, TOOLS, ETC. FOR A COMPLETED INSTALLATION OF HARDWARE FOR A FULLY FUNCTIONAL SYSTEM FOR THE INTENDED USE.
2. CLOSERS, THRESHOLDS, WEATHERSTRIPPING, ETC TO APPROXIMATE DOOR HARDWARE FINISH NOTED ABOVE.
3. CYLINDER FINISH IS TO MATCH FINISH OF ITEM IN WHICH CYLINDER IS INSTALLED IN UNO. (IE. STOREFRONT FRAME COLOR, EXIT DEVICE FINISH, LOCKSET FINISH, etc.
4. PROVIDE LEVER HANDLES @ ALL LATCHSETS, LOCKSETS, PANIC DEVICES, DUMMY LATCHSETS TYPICAL UNO.
5. PROVIDE FULL WEATHERSTRIPPING @ ALL EXTERIOR DOORS, HEAD, JAMBS, SILLS TYPICAL UNO.
6. PROVIDE ALUMINIUM THRESHOLDS BY DOOR(S) WIDTH WHERE SHOWN ON PLANS, IN SILL DETAILS, &/or WHERE NOTED. TYPICAL.

HARDWARE SET #1 (Exterior Single Entry Door)

1 EA Continuous Hinge
1 EA Rim Exit Device
1 EA Interchangeable Core
1 EA Permanent Core Furnished and Installed by Owner
1 EA Surface Closer with intergal door stop
1 EA Saddle Threshold per detail
1 EA Perimeter Gasketing
1 EA Rain Guard

HARDWARE SET #2 (Exterior Single Exit Only Door)

3 EA Hinges, Full Mortise, Heavy Weight
1 EA Rim Exit Device
1 EA Interchangeable Core
1 EA Permanent Core Furnished and Installed by Owner
1 EA Cylinder Pull
1 EA Surface Closer
1 EA Kick Plate
1 EA Perimeter Gasketing
1 EA 7' Astragal Weatherstrip
1 EA Door Bottom
1 EA Alum. Astragal Weatherstrip with Nylon Brush
1 EA Saddle Threshold per detail
1 EA Rain Guard

HARDWARE SET #3 (ALTERNATE #1 - Single-user Toilet Room)

3 EA Hinges, Full Mortise
1 EA Privacy Lock
1 EA Surface Closer
1 EA Kick Plate
1 EA Mop Plate
3 EA Silencers
1 EA Wall Stop

INTERIOR GENERAL NOTES

1. G.C. SHALL SUBMIT MANUFACTURER'S COLOR SELECTION FOR ALL SPECIFIED MATERIALS. (COLOR SCHEDULE TO BE COMPLETED UPON RECEIPT AND APPROVAL OF ALL SPECIFIED FINISHES)
2. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
3. ALL SPECIFIED FINISHES SHALL BE CONTINUOUS BEHIND ALL MOUNTED OR APPLIED ITEMS.
4. PAINT ALL EXPOSED DUCTS, CONDUITS, PIPING, ETC. PNT-4
5. A MINIMUM QUANTITY OF TWO (2) 1'-0" X 1'-0" FINISH SAMPLES OF ALL SPECIFIED FINISHES SHALL BE PROVIDED FOR APPROVAL PRIOR TO ORDERING.
6. UPON COMPLETION OF FINISH PHASE OF JOB, GC SHALL REMOVE ALL PAINT, ETC., FROM WHERE IT HAS SPILLED, SPLASHED, OR SPATTERED.
7. NOT ALL WALL OBJECTS MAY BE SHOWN. COORDINATE WITH MECH; PLUMBING/ELECTRICAL DRAWINGS ALSO REFER ARCHITECTURAL DWGS & SPECIFICATIONS FOR ADDITIONAL ITEMS
8. PAINT ALL EXPOSED CONDUITS, JUNCTION BOXES ETC. PNT-4
9. PAINT FIRE ALARM BOXES RED
10. PAINT EXPOSED LARGE STRUCTURE PNT-2 ACCENT COLOR.

Certification

REGISTERED ARCHITECT JOHN R. RACHINE No. 30758 BOSTON, MA COMMONWEALTH OF MASSACHUSETTS 8-22-24

Drawn by ADC

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Project

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STORAGE FACILITY AND SITE IMPROVEMENTS

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50 ELM STREET
DEDHAM, MA 02026

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Issued On 8/20/2024

Sheet Contents

DOOR, WINDOW, ROOM & FINISH SCHEDULES

Project Number. 6790

Drawing No.

A900

Sheet of

GENERAL NOTES

DESIGN LOADS (EXCEPT AS NOTED):

BUILDING CODE: THE 9TH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE 780-CMR, FOR DEDHAM, MA. (2015 INTERNATIONAL BUILDING CODE)

FOUNDATION CRITERIA:
GROUND SNOW: 40 PSF
FROST DEPTH: 4'-0"
SAFE SOIL BEARING CAPACITY: 3000 PSF (ASSUMED)

SEISMIC FACTORS:
GROUND ACCELERATIONS: Ss=0.201g, S1=0.067g
DESIGN ACCELERATIONS: Sds=0.214g, Sd1=0.107g
SEISMIC IMPORTANCE FACTOR (Ie): 1.0
RISK CATEGORY: II
SEISMIC DESIGN CATEGORY: B
SEISMIC SITE CLASS: D

LATERAL FORCE RESISTING SYSTEM TO BE DESIGNED BY METAL BUILDING MANUFACTURER.

ROOF CRITERIA:
FLAT ROOF SNOW LOAD (Pf): 35 PSF
SNOW EXPOSURE FACTOR (Ce): 1.0
SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
THERMAL FACTOR (Ct): 1.0

WIND CRITERIA:
ULTIMATE DESIGN WIND SPEED (V ULT): 129 MPH
NOMINAL DESIGN WIND SPEED (V ASD): 100 MPH
RISK CATEGORY: II
WIND EXPOSURE: B
INTERNAL PRESSURE COEFF. (GCpi): ±0.18

ANCHOR BOLT SIZE, LENGTH, QUANTITY AND LOCATION AS SPECIFIED BY METAL BUILDING MANUFACTURER.

FOUNDATION MUST BE CHECKED FOR LOADS PROVIDED BY METAL BUILDING MANUFACTURER BEFORE CONSTRUCTION BEGINS.

FOUNDATION NOTES:

1. ALL SOIL CONTAINING ORGANIC OR UNSUITABLE BEARING MATERIAL SHALL BE REMOVED FROM THE BUILDING FOOTPRINT.
2. ALL SOIL SUPPORTED FOOTINGS SHALL BE FOUNDED UPON COMPACTED NATURAL SUBGRADE OR COMPACTED BANK RUN GRAVEL FILL WITH A SAFE BEARING CAPACITY OF NOT LESS THAN 3000 PSF. COORDINATE SITE SPECIFIC SUBGRADE PREPARATION REQUIREMENTS WITH GEOTECHNICAL REPORT.
3. ROCK SHALL BE EXCAVATED A MINIMUM OF 6" BELOW BOTTOM OF FOOTING ELEVATION AND COVERED WITH A LAYER OF COMPACTED GRAVEL.
4. A MODIFIED PROCTOR TEST SHALL BE PERFORMED BY A SOILS TESTING LAB ON EACH TYPE OF SOIL TO BE COMPACTED.
5. SOIL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY PER ASTM D1557 IN LIFTS NOT TO EXCEED 6" LOOSE DEPTH.
6. FIELD DENSITY TESTS SHALL BE PERFORMED BY AN INDEPENDENT SOILS TESTING LAB TO VERIFY COMPACTION. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT.
7. BACKFILL SYMMETRICALLY AGAINST ALL FOUNDATION WALLS IN INCREMENTS NOT TO EXCEED 2 FEET MAXIMUM DIFFERENTIAL.
8. SEE PLUMBING AND ELECTRICAL DRAWINGS FOR UNDER FLOOR SYSTEMS AND SPECIAL GRANULAR FILL MATERIAL REQUIREMENTS.
9. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER OR ICE.
10. ALL SLABS-ON-GRADE SHALL BE PLACED ON VAPOR BARRIER OVER A MIN. 6" COMPACTED STRUCTURAL FILL. REFER TO ARCHITECTURAL DWGS. FOR VAPOR BARRIER THICKNESS. COORDINATE ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS WITH GEOTECHNICAL REPORT.

CONCRETE NOTES:

1. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI AT 28 DAYS (U.N.O.)
2. ALL CONCRETE WALLS, FOOTINGS AND CONCRETE EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR ENTRAINING ADMIXTURE. AIR CONTENT SHALL BE 4 1/2% TO 7%.
3. ALL CONCRETE SHALL CONTAIN AN APPROVED WATER-REDUCING ADMIXTURE.
4. A SET OF FOUR (4) CONCRETE TEST CYLINDERS SHALL BE TAKEN BY AN INDEPENDENT CONCRETE TESTING LAB ON EACH DAY WHEN CONCRETE PLACEMENT EXCEEDS 5 CUBIC YARDS. ONE CYLINDER SHALL BE BROKEN AT 7 DAYS, TWO AT 28 DAYS, AND ONE AT 56 DAYS. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT. CYLINDERS ARE REQUIRED FOR EVERY 50 CUBIC YARDS POURED PER DAY.
5. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
6. A MIX DESIGN AND ACI 214 STRENGTH TEST EVALUATION SHALL BE SUBMITTED FOR APPROVAL FOR EACH TYPE OF CONCRETE.
7. REINFORCING BARS SHALL BE ASTM A615 GRADE 60 (U.N.O.).
8. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION, SHOWING REINFORCING DETAILS, STEEL SIZES, SPACING AND PLACEMENT OF REINFORCING.
9. ALL REINFORCING BAR SPLICES SHALL CONFORM TO REQUIREMENTS OF ACI 318-14, BUT IN NO CASE SHALL THEY BE LESS THAN 2'-0".
10. DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCING.
11. SHRINKAGE CONTROL JOINTS IN ALL WALLS SHALL BE NO FURTHER APART THAN 60 FEET IN ANY DIRECTION. CONSTRUCTION CONTROL JOINTS IN ALL WALLS SHALL BE NO FURTHER APART THAN 120 FEET IN ANY DIRECTION. SEE PLAN FOR LOCATION OF SLAB CONSTRUCTION AND/OR SHRINKAGE JOINTS.
12. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064, Fy = 60 KSI.
13. ALL WELDED WIRE FABRIC SHALL BE LAPPED ONE (1) FULL MESH PANEL AT SIDES AND ENDS AND BE SECURELY WIRED TOGETHER.
14. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS AND CUT OUTS.
15. COORDINATE ALL FOUNDATION PENETRATIONS WITH ARCHITECT, PLUMBING, MECHANICAL, ELECTRICAL CONTRACTORS AND LOCAL AGENCIES.

GENERAL NOTES

STRUCTURAL STEEL NOTES:

1. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND CODES, LATEST EDITION.
2. ALL WIDE FLANGE SECTION STRUCTURAL BEAMS (W) SHALL BE ASTM A992, Fy = 50 KSI. PLATES, ANGLES, AND CHANNELS SHALL BE ASTM A36, Fy = 36 KSI. ALL RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A500 GRADE C, Fy = 50 KSI. ALL PIPE COLUMNS SHALL BE ASTM A53, GRADE B, Fy = 35 KSI.
3. ALL ANCHOR BOLTS AND THREADED RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554.
4. ALL BOLTED CONNECTIONS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS."
5. ALL WELDING ELECTRODES SHALL BE E70XX.
6. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AND SHALL CONFORM TO THE AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION," LATEST EDITION.
7. THE FABRICATOR SHALL FURNISH SHOP AND ERECTION DRAWINGS AND OBTAIN APPROVAL PRIOR TO FABRICATING ANY STRUCTURAL STEEL. FABRICATOR TO PROVIDE STEEL CONNECTION DETAILS AND CALCULATIONS PREPARED AND STAMPED BY A P.E. REGISTERED IN THE STATE OF MASSACHUSETTS TO WITHSTAND THE LOADS PROVIDED IN THE DRAWINGS (CODE OF STANDARD PRACTICE, 3.1.1(3)). DEMANDS PROVIDED WERE DETERMINED USING ASD LOAD COMBINATIONS.
8. FURTHER EXPLANATION OF THE CODE OF STANDARD PRACTICE SECTION REFERENCED IN NOTE 7 STATES THE ENGINEER IN RESPONSIBLE CHARGE OF DESIGNING CONNECTIONS SHALL REVIEW AND CONFIRM IN WRITING THAT THE SHOP AND ERECTION DRAWINGS PROPERLY INCORPORATE THE CONNECTION DESIGNS, AND THE FABRICATOR SHALL PROVIDE A CLEAR MEANS BY WHICH THE CONNECTION INFORMATION IS REFERENCED TO THE RELATED CONNECTIONS ON THE SHOP AND ERECTION DRAWINGS.
9. CONNECTIONS SHALL BE DESIGNED FOR THE DEMANDS SHOWN ON THE CONTRACT DRAWINGS. WHERE DEMANDS ARE NOT PROVIDED, DESIGN FOR THE MINIMUM SHEAR CAPACITY AS REQUIRED BY THE TABLE BELOW:

BEAM SIZES	REQUIRED SHEAR CAPACITY, ASD/LRFD
W8x10-21 W10x12-19	12k/18k
W8x24+ W10x22-30 W12x14-22	24k/36k
W10x33-45 W12x26-40 W14x22-38	36k/54k
W10x49+ W12x45-58 W14x43-53 W16x26-45	48k/72k
W12x65+ W14x61+ W16x50-57 W18x35-55 W21x44-62	60k/90k
W16x67+ W18x60-71 W21x68-73 W24x62-68	80k/120k
W18x76+ W24x76-94 W27x84-94	100k/150k
WXXx100+	SEE PLAN

10. ALL FILLET WELDS SHALL BE A MINIMUM OF 1/4" UNLESS NOTED OTHERWISE. ALL WELDS SHALL BE VISUALLY INSPECTED AND ALL FULL PENETRATION WELDS SHALL BE INSPECTED BY MAGNETIC PARTICLE TESTING OR APPROVED ALTERNATE.
11. AN INDEPENDENT STEEL TESTING AGENCY SHALL PERFORM ALL INSPECTION AND TESTING. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE TESTING REQUIREMENTS TO BE COMPLETED. A COPY OF ALL TEST REPORTS SHALL BE FILED WITH THE ARCHITECT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS AND STABILITY.
13. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS. ALL NON-GALVANIZED STEEL SHALL RECEIVE ONE COAT OF APPROVED PRIMER PAINT. DAMAGED GALVANIZED STEEL SHALL BE REPAIRED.
14. REFER TO ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS OF ALL STEEL.
15. CUTS, HOLES, OPENINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS FOR STRUCTURAL STEEL AND SHALL BE MADE IN THE SHOP. CREATION OF HOLES OR CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED EXCEPT BY WRITTEN PERMISSION FROM THE ENGINEER.

STEEL DECK NOTES:

1. ALL STEEL DECKING SHALL CONFORM TO THE STEEL DECK INSTITUTE (SDI) APPLICABLE SPECIFICATIONS AND REQUIREMENTS. INSTALLATION SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS IN ACCORDANCE WITH SDI SPECIFICATIONS.
2. STEEL DECK SHALL TYPICALLY BE STORED OFF THE GROUND AT THE JOBSITE, AND BE PROTECTED FROM THE ELEMENTS WITH A WATERPROOF COVERING WHERE REQUIRED.
3. DECK SHEETS SHALL BE PLACED IN ACCORDANCE WITH APPROVED ERECTION LAYOUT DRAWINGS SUPPLIED BY THE DECK MANUFACTURER AND IN CONFORMANCE WITH THE MANUFACTURER'S STANDARDS. UNLESS NOTED OTHERWISE, END LAPS SHALL OCCUR OVER SUPPORTS, AND SHALL NOT BE LESS THAN 2" MINIMUM.
4. ALL STEEL TO BE USED FOR DECKING SHALL BE GALVANIZED.
5. UNLESS NOTED OTHERWISE ON PLANS, THE FOLLOWING DECKING SHALL BE PROVIDED:
   FLOOR DECK.....1"-20 GA. (TYPE C BY VULCRAFT OR EQUAL)
6. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
7. CONNECT DECK TO SUPPORTS USING 5/8"ø PUDDLE WELDS WITH WELD PATTERN 36/4. WELD AT 6" O.C. AROUND PERIMETER OF ROOF.

STRUCTURAL - STEEL - WELDING SECTION

STEEL INSPECTION PRIOR TO WELDING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
2018 IBC 1705.2.1, AISC 360-16: Table C-N5.4-1

TASK	INSPECTION TYPE	DESCRIPTION
1. Verify that the welding procedures specification (WPS) is available	**PERFORM**	
2. Verify manufacturer certifications for welding consumables are available	**PERFORM**	
3. Verify material identification	**PERFORM**	Type and grade.
4. Welder Identification System	**PERFORM**	The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.
5. Fit-up of groove welds (including joint geometry)	OBSERVE	✓ Joint preparation ✓ Dimensions (alignment, root opening, root face, bevel) ✓ Cleanliness (condition of steel surfaces) ✓ Tacking (tack weld quality and location) ✓ Backing type and fit (if applicable)
6. Configuration and finish of access holes	OBSERVE	
7. Fit-up of fillet welds	OBSERVE	✓ Dimensions (alignment, gaps at root) ✓ Cleanliness (condition of steel surfaces) ✓ Tacking (tack weld quality and location)
PERFORM: Perform these tasks for each weld, fastener or bolted connection, and required verification.		
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.		

STEEL INSPECTION DURING WELDING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
2018 IBC 1705.2.1, AISC 360-16: Table C-N5.4-2

TASK	INSPECTION TYPE	DESCRIPTION
8. Use of qualified welders	**PERFORM**	Welding by welders, welding operators, and tack welders who are qualified in conformance with requirements.
9. Control and handling of welding consumables	OBSERVE	✓ Packaging ✓ Electrode atmospheric exposure control
10. No welding over cracked tack welds	OBSERVE	
11. Environmental conditions	OBSERVE	✓ Wind speed within limits ✓ Precipitation and temperature
12. Welding Procedures Specification followed	OBSERVE	✓ Wind speed within limits ✓ Precipitation and temperature ✓ Settings on welding equipment ✓ Travel speed ✓ Selected welding materials ✓ Shielding gas type/flow rate ✓ Preheat applied ✓ Interpass temperature maintained (min./max.) ✓ Proper position (F, V, H, OH) ✓ Intermix of filler metals avoided
13. Welding techniques	OBSERVE	✓ Interpass and final cleaning ✓ Each pass within profile limitations ✓ Each pass meets quality requirements
PERFORM: Perform these tasks for each weld, fastener or bolted connection, and required verification.		
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.		

STRUCTURAL - STEEL - WELDING SECTION

STEEL INSPECTION AFTER WELDING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
2018 IBC 1705.2.1, AISC 360-16: Table C-N5.4-3

TASK	INSPECTION TYPE	DESCRIPTION
14. Welds cleaned	OBSERVE	
15. Size, length, and location of all welds	**PERFORM**	Size, length, and location of all welds conform to the requirements of the detail drawings.
16. Welds meet visual acceptance criteria	**PERFORM AND DOCUMENT**	✓ Crack prohibition ✓ Weld/base-metal fusion ✓ Crater cross section ✓ Weld profiles ✓ Weld size ✓ Undercut ✓ Porosity
17. Arc strikes	**PERFORM**	
18. k-area	**PERFORM**	When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks.
19. Backing removed, weld tabs removed and finished, and fillet welds added where required	OBSERVE	✓ Interpass and final cleaning ✓ Each pass within profile limitations ✓ Each pass meets quality requirements
20. Repair activities	**PERFORM AND DOCUMENT**	
21. Document acceptance or rejection of welded joint or member	**PERFORM**	
PERFORM: Perform these tasks for each weld, fastener or bolted connection, and required verification.		
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.		
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.		

STRUCTURAL - STEEL - NON DESTRUCTIVE TESTING SECTION

STEEL INSPECTION TASKS DURING BOLTING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
2018 IBC 1705.2.1, AISC 360-16: Section N5.5

TASK	INSPECTION TYPE	DESCRIPTION
1. Use of qualified nondestructive testing personnel	**PERFORM**	Visual weld inspection and nondestructive testing (NDT) shall be conducted by personnel qualified in accordance with AWS D1.8 clause 7.2
2. CJP groove welds	OBSERVE	**[NOTE: DOR must delete this row if section D (SEISMIC PROVISIONS SECTION) is checked]** Dye penetrant testing (DT) and ultrasonic testing (UT) shall be performed on 20% of CJP groove welds for materials greater than 5/16" (8mm) thick. Testing rate must be increased to 100% if greater than 5% of welds tested have unacceptable defects.
3. Welded joints subject to fatigue	OBSERVE	Dye penetrant testing (DT) and Ultrasonic testing (UT) shall be performed on 100% of welded joints identified on contract drawings as being subject to fatigue.
4. Weld tab removal sites	OBSERVE	At the end of welds where weld tabs have been removed, magnetic particle testing shall be performed on the same beam-to-column joints receiving UT
PERFORM: Perform these tasks for each weld, fastener or bolted connection, and required verification.		
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.		

STRUCTURAL - STEEL - BOLTING SECTION

STEEL INSPECTION TASKS PRIOR TO BOLTING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
2018 IBC 1705.2.1, AISC 360-16: Table C-N5.6-1

TASK	INSPECTION TYPE	DESCRIPTION
1. Manufacturer's certifications available for fastener materials	**PERFORM**	
2. Fasteners marked in accordance with ASTM requirements	OBSERVE	
3. Proper fasteners selected for joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	OBSERVE	
4. Proper bolting procedures selected for joint detail	OBSERVE	
5. Connecting elements, including appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	OBSERVE	
6. Proper storage provided for bolts, nuts, washers, and other fastener components	OBSERVE	
PERFORM: Perform these tasks for each weld, fastener or bolted connection, and required verification.		
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.		

STEEL INSPECTION TASKS DURING BOLTING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
2018 IBC 1705.2.1, AISC 360-16: Table C-N5.6-2

TASK	INSPECTION TYPE	DESCRIPTION
7. Fastener assemblies of suitable condition, placed in all holes and washers (if required) are positioned as required	OBSERVE	
8. Joint brought to the snug-tight condition prior to pretensioning operation	OBSERVE	
9. Fastener component not turned by the wrench prevented from rotating	OBSERVE	
10. Bolts are pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges	OBSERVE	
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.		

STEEL INSPECTION TASKS AFTER BOLTING - VERIFY THE FOLLOWING ARE IN COMPLIANCE
2018 IBC 1705.2.1, AISC 360-10: Table C-N5.6-3

TASK	INSPECTION TYPE	DESCRIPTION
11. Document acceptance of rejection of all bolted connections	DOCUMENT	
DOCUMENT: Document in a report that the work has been performed as required. This is in addition to all other required reports.		

STRUCTURAL - STEEL - OTHER INSPECTIONS

OTHER STEEL INSPECTIONS - VERIFY THE FOLLOWING ARE IN COMPLIANCE
2018 IBC 1705.2.1, AISC 341-16: Tables J8.1 & J10.1

TASK	INSPECTION TYPE	DESCRIPTION
1. Anchor rods and other embedments supporting structural steel	**PERFORM**	
2. Fabricated steel or erected steel frame	OBSERVE	
3. Reduced beam sections (RBS) where/if occurs	**DOCUMENT**	
4. Protected zones	**DOCUMENT**	
5. H-piles where/if occurs	**DOCUMENT**	
PERFORM: Perform these tasks for each weld, fastener or bolted connection, and required verification.		
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.		
DOCUMENT: Document in a report that work has been performed as required. This is in addition to all other required reports.		

STRUCTURAL - CONCRETE CONSTRUCTION SECTION

CONCRETE CONSTRUCTION, INCLUDING COMPOSITE DECK - VERIFY THE FOLLOWING ARE IN COMPLIANCE
IBC Table 1705.3 (ACI 318 References Noted In IBC Table)

TASK	INSPECTION TYPE	DESCRIPTION
1. Inspect reinforcement, including prestressing tendons, and verify placement.	OBSERVE	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and unacceptable rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
2. Reinforcing bar welding	OBSERVE	✓ Verify weldability of reinforcing bars other than ASTM A 706 ✓ Inspect single-pass fillet welds, maximum 5/16" in accordance with AWS D1.4
3. Determination of carbon equivalent for reinforcing steel other than ASTM A706	**CONTINUOUS**	Visually inspect all welds in accordance with AWS D1.4
4. Cast in place anchors and post installed drilled anchors (downward inclined)	OBSERVE	Verify prior to placing concrete that cast in place anchors and post installed drilled anchors have proper embedment, spacing and edge distance.
5. Post-installed adhesive anchors in horizontal or upward inclined orientations	**CONTINUOUS AND DOCUMENT**	✓ Inspect as required per approved ICC-ES report ✓ Verify that installer is certified for installation of horizontal and overhead installation applications ✓ Inspect proof loading as required by the contract documents
6. Verify use of required mix design	OBSERVE	Verify that all mixes used comply with the approved construction documents
7. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of concrete	**CONTINUOUS**	At the time fresh concrete is sampled to fabricate specimens for strength test verify these tests are performed by qualified technicians.
8. Inspect concrete and/or shotcrete placement for proper application techniques	**CONTINUOUS**	Verify proper application techniques are used during concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
9. Verify maintenance of specified curing temperature and technique	OBSERVE	Inspect curing, cold weather protection, and hot weather protection procedures.
10. Pre-stressed concrete	**CONTINUOUS**	Verify application of prestressing forces and grouting of bonded prestressing tendons.
11. Inspect erection of precast concrete members	OBSERVE	
12. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	OBSERVE	
13. Inspect formwork for shape, location and dimensions of the concrete member being formed.	OBSERVE	
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.		
DOCUMENT: Document in a report that work has been performed as required. This is in addition to all other required reports.		
CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.		

GEOTECHNICAL - SOILS INSPECTION SECTION

SOILS INSPECTION - VERIFY THE FOLLOWING ARE IN COMPLIANCE
IBC 1705.6

TASK	INSPECTION TYPE	DESCRIPTION
1. Materials below shallow foundations are adequate to achieve the design bearing capacity.	OBSERVE	
2. Excavations are extended to proper depth and have reached proper material	OBSERVE	
3. Perform classification and testing of compacted fill materials	OBSERVE	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	**CONTINUOUS**	
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	OBSERVE	During fill placement, the special inspector shall verify that proper materials and procedures are used in accordance with the provisions of the approved geotechnical report
OBSERVE: Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at contractor's risk.		
CONTINUOUS: Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.		

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Project

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STORAGE FACILITY

DEDHAM - WESTWOOD WATER DISTRICT

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Drawing Status

100% CONSTRUCTION DOCUMENTS

Issued On 8/20/2024

Sheet Contents

GENERAL NOTES AND SPECIAL INSPECTIONS

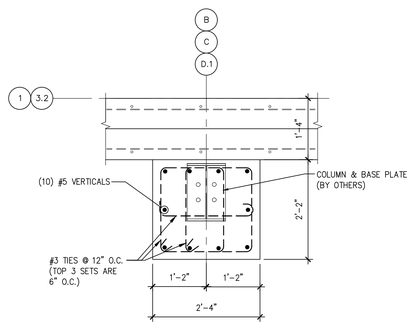
Project Number. 6790

Drawing No.

S001

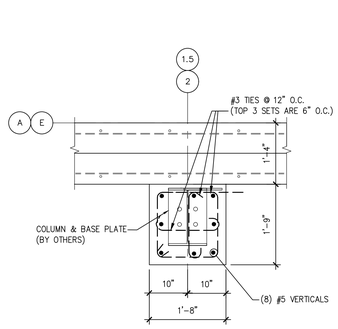
Sheet of

FOOTING SCHEDULE			
MARK	SIZE	THICKNESS	REINFORCING
F3	3'-0 x 3'-0	1'-0"	4-#5 EA. WAY
F4	4'-0 x 4'-0	1'-0"	5-#5 EA. WAY
F5	5'-0 x 5'-0	1'-0"	6-#5 EA. WAY
F6	6'-0 x 6'-0	1'-0"	7-#5 EA. WAY
F8	8'-0 x 8'-0	1'-0"	9-#5 EA. WAY



PIER "P1" DETAIL

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



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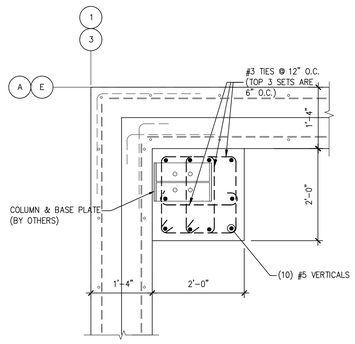

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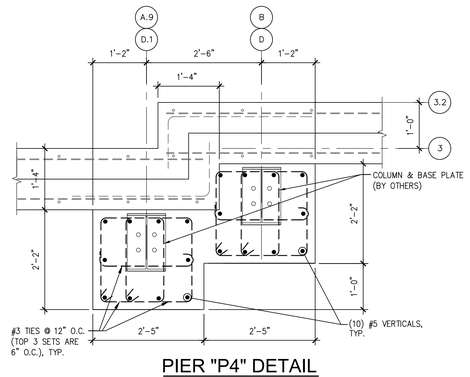

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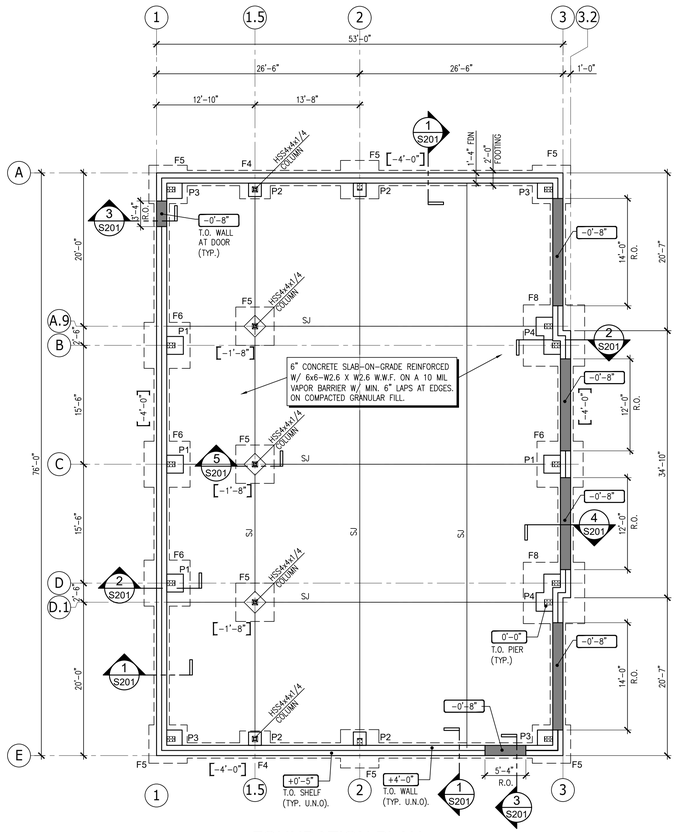


FOUNDATION PLAN

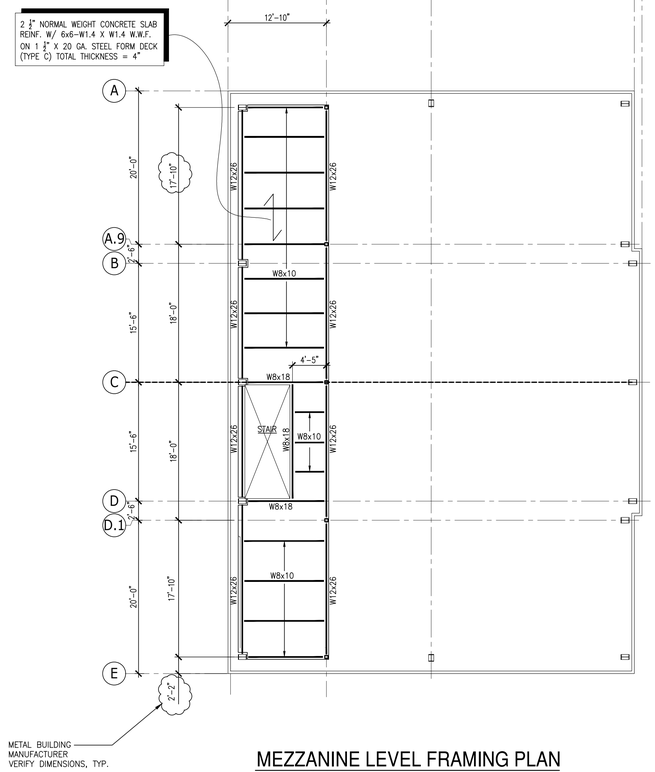
SCALE: 1/8"=1'-0"

NOTES:
1. FINISH FLOOR CALLED ELEV.= 0'-0"
2. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECT'S DRAWINGS
3. FOUNDATION MUST BE CHECKED FOR LOADS PROVIDED BY METAL BUILDING MANUFACTURER BEFORE CONSTRUCTION BEGINS.

XX'-XX" INDICATES TOP OF WALL AND SHELF ELEV.

[XX'-XX"] INDICATES BOTTOM OF FOOTING ELEV.

(S.J.) INDICATES SHRINKAGE CONTROL JOINT (SEE TYPICAL SLAB-ON-GRADE DETAIL)



MEZZANINE LEVEL FRAMING PLAN

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

NOTES:
1. MEZZANINE DESIGN LOADING:
   DL = 15 PSF
   SLAB = 43 PSF
   LL = 150 PSF
2. PEMB COLUMNS ON GRID LINE 1 SHALL BE DESIGNED TO SUPPORT MEZZANINE FRAMING

Certification

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Project

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STORAGE FACILITY

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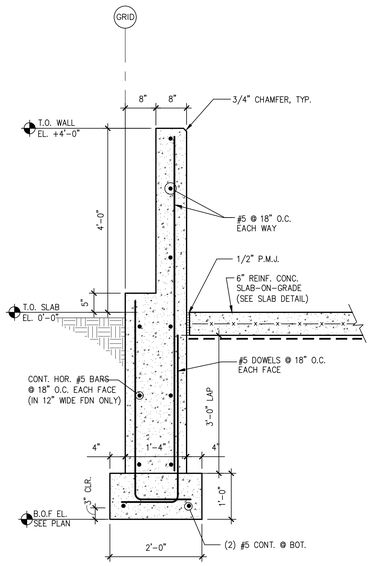
Sheet Contents
FOUNDATION PLAN AND MEZZANINE LEVEL FRAMING PLAN

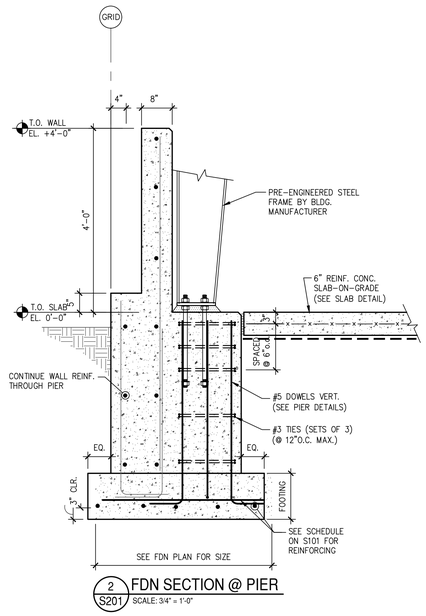
Project Number. 6790

Drawing No.
S101

Sheet of



1 S201 FDN SECTION
SCALE: 3/4" = 1'-0"



2 S201 FDN SECTION @ PIER
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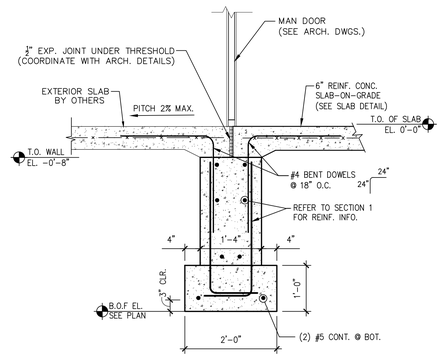
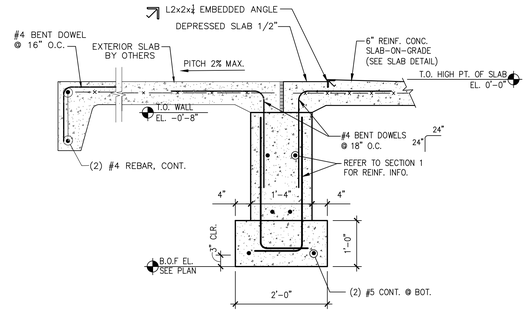
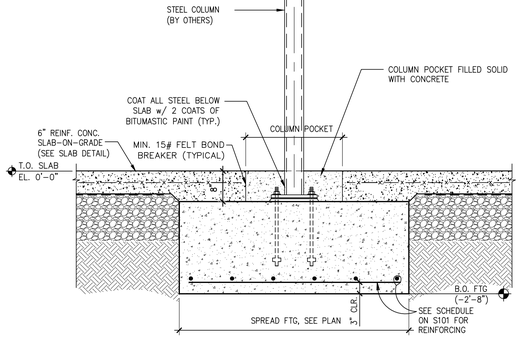


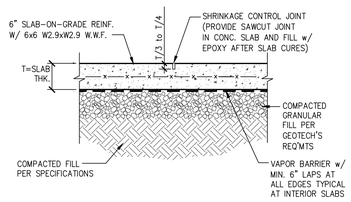
3 S201 SECTION AT DOOR OPENINGS
SCALE: 3/4" = 1'-0"



4 S201 FDN SECTION @ O.H. DOORWAYS
SCALE: 3/4" = 1'-0"

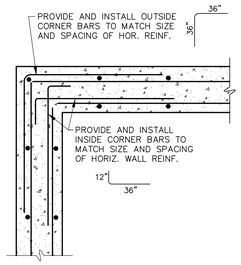


5 S201 SECTION AT INTERIOR COLUMN
SCALE: 3/4" = 1'-0"

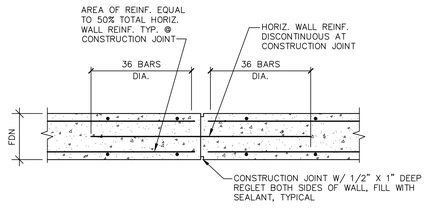


NOTES:
1. SAWCUT SHRINKAGE CONTROL JOINTS SHALL BE PROVIDED WITHIN 12 HRS. OF SLAB PLACEMENT, AS SOON AS CONCRETE IS CAPABLE OF SUPPORTING SAWCUTTING EQUIPMENT.
2. LOCATE SHRINKAGE CONTROL JOINTS AS INDICATED ON SLAB PLAN.
3. OPTIONALLY, THE SHRINKAGE CONTROL MAY SUBSTITUTE PREFABRICATED PLASTIC STRIPS INSTEAD OF SAWCUTTING. SUBMIT CATALOG CUTS FOR APPROVAL PRIOR TO USING.

6 S201 TYP. SLAB DETAIL
SCALE: NONE

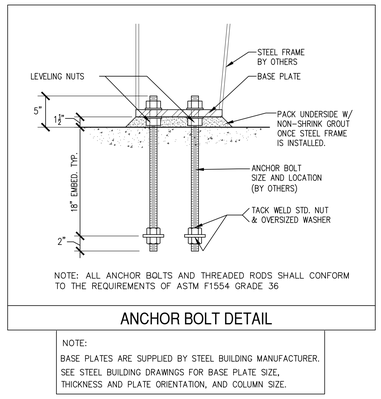


CONCRETE WALL CORNERS



CONSTRUCTION JOINT DETAIL

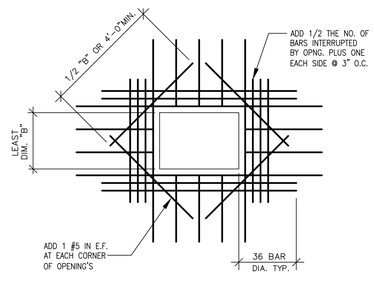
7 S201 TYPICAL CONC. FOUNDATION DETAILS



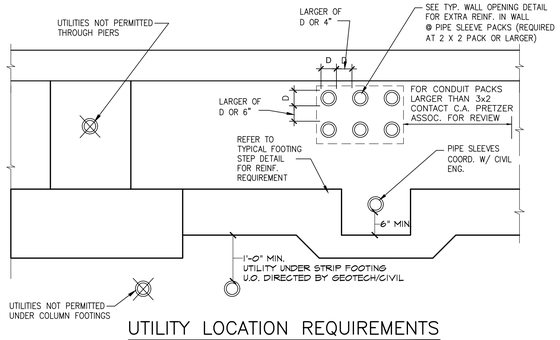
NOTE: ALL ANCHOR BOLTS AND THREADED RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554 GRADE 36

ANCHOR BOLT DETAIL

NOTE:
BASE PLATES ARE SUPPLIED BY STEEL BUILDING MANUFACTURER. SEE STEEL BUILDING DRAWINGS FOR BASE PLATE SIZE, THICKNESS AND PLATE ORIENTATION, AND COLUMN SIZE.



TYP. WALL OPENING DETAIL



UTILITY LOCATION REQUIREMENTS

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Project

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Drawing Status
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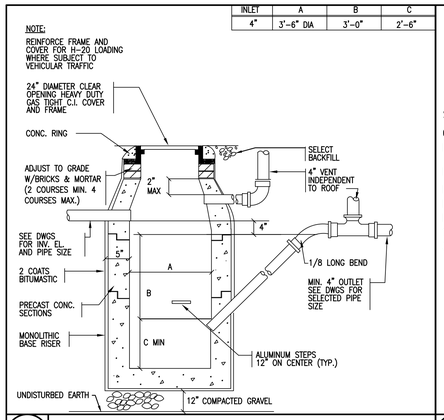
Sheet Contents
FOUNDATION SECTIONS AND DETAILS

Project Number. 6790

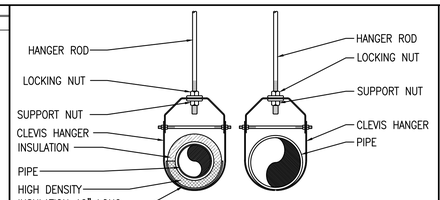
Drawing No.
S201

Sheet of

INLET	A	B	C
4"	3'-6" DIA	3'-0"	2'-6"



1 GASOLINE AND SAND TRAP DIAGRAM NTS

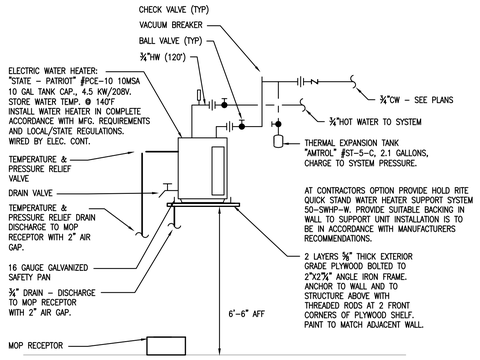


HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	⅜" DIA.
2½" THRU 3"	½" DIA.
4" AND 5"	⅝"
6" THRU 8"	¾"
12"	⅞"

HANGER ROD SPACING	
PIPE SIZE	MAX. ALLOWABLE SPACING
1"	7'
1 ¼"	8'
1 ½"	9'
2"	10'
2 ½"	11'
3" THRU 8"	12'
10" & 12"	15'

INSULATED AND NON INSULATED PLUMBING SYSTEMS

2 CLEVIS PIPE HANGER/ROD INSTALLATION NTS



3 CEILING HUNG EWH DIAGRAM NTS

PLUMBING LEGEND

	ETR	LIGHT LINE INDICATES EXISTING PIPING TO REMAIN.
	CTE	CONNECT TO EXISTING
CW	CW	COLD WATER
CW	CW	COLD WATER BELOW FLOOR OR BURIED
HW	HW	HOT WATER
S or W or GW	S or W or GW	SOIL OR WASTE OR GARAGE WASTE
S/W/GW	S or W or GW	SOIL OR WASTE OR GARAGE WASTE BELOW FLOOR OR BURIED
V or GV	V or GV	VENT OR GARAGE VENT
V or GV	V or GV	VENT OR GARAGE VENT BELOW FLOOR OR BURIED
CONT	CONT	CONTINUATION
UP	UP	PIPE RISE OR UP
DN	DN	PIPE DROP OR DOWN
TEE	TEE	PIPE TEE
SOV	SOV	SHUT-OFF VALVE
WH	WH	WALL HYDRANT
HB	HB	HOSE BIBB
W & T	W & T	WASTE & TRAP
CAP	CAP	CAPPED PIPE
FCO	FCO	FLUSH FLOOR CLEANOUT
		ARROW INDICATES DIRECTION OF FLOW
.01		ARROW INDICATES DIRECTION OF SLOPE
TP	TP	TRAP PRIMER
GM	GM	GAS METER
FD "A"	FD "A"	FLOOR DRAIN & TYPE
	VTR	VENT THRU ROOF
	INV	INVERT
	TYP	TYPICAL
	NTS	NOT TO SCALE
	PC	PLUMBING CONTRACTOR
	EC	ELECTRICAL CONTRACTOR
	S=.01	SLOPE = 1/8" PER FOOT
	LPC	LIMIT OF PLUMBING CONTRACT

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	FIXTURE				FIXTURE			SERVICES					REMARKS
		MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTURER	MODEL	TYPE	S/W	V	CW	HW	TW	
P-1	WATER CLOSET (ADA)	KOHLER	K-25077-RA-0	FLOOR MOUNTED / TANK TYPE	1.28 GPF	–	–	MANUAL	4"	4"	1/2"	–	–	ADA COMPLIANT, VITREOUS CHINA, ELONGATED BOWL, 12" ROUGH IN. PROVIDE OPEN FRONT SEAT. PROVIDE TRIP LEVER ON WIDE SIDE OF ROOM.
P-2	LAVATORY (ADA)	KOHLER	K-2005	WALL MOUNTED	21-1/4"x18-1/8"	KOHLER	K-15199-4NDRA	MANUAL	2"	2"	1/2"	1/2"	–	ADA COMPLIANT, VITREOUS CHINA. WALL MOUNTED SINK WITH OVERFLOW ON 4" CENTERS. PROVIDE GRID DRAIN, P-TRAP, PROVIDE TRUBRO LAV GUARD II INSULATION ON ALL EXPOSED PIPING BELOW SINK. PROVIDE POWERS LFLM495 MIXING VALVE. FAUCET IS 0.5GPM.
P-3	MOP SINK	FIAT	MSB2424	FLOOR MOUNTED	24"x24"x10"	FIAT	830AA	MANUAL	3"	2"	1/2"	1/2"	–	PROVIDE HOSE/BRACKET 832AA, MOP HANGER BRACKET 889CC, AND WALL GUARDS MSG2424
P-4	DRINKING FOUNTAIN	ELKAY	EZSDWSLK	WALL MOUNTED	18-3/8"x19"x39-1/16"	–	–	–	2"	2"	1/2"	–	–	ADA COMPLIANT, NON-REFRIGERATED. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE AND INSTALLATION
WH	WALL HYDRANT	JAY R SMITH	5515	FLUSH MOUNT	10-1/4"x5"	–	–	–	–	–	1/2"	–	–	BRONZE QUARTER TURN, NON FREEZE AND AUTOMATIC DRAINING HYDRANT.
HB	HOSE BIBB	CHICAGO	952-CP	WALL MOUNTED	–	–	–	–	–	–	1/2"	–	–	WALL MOUNTED HOSE FAUCET
TP	TRAP PRIMER	PPP	PR500	–	–	–	–	–	–	–	1/2"	–	–	PROVIDE FOR FLOOR DRAIN WITH ALTERNATE #1 RESTROOM.

NOTES:
1. ALL ADA FIXTURES SHALL BE INSTALLED PER ADA AND MAAB REQUIREMENTS.
2. ALL PLUMBING FIXTURES, EQUIPMENT & ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE POWERS LFLM495 MIXING VALVES ON LAVATORIES
4. PROVIDE PRICING FOR FIXTURE "WH" AND "TP" UNDER BASE BID. ALL OTHER FIXTURES WITHIN THIS SCHEDULE ARE TO BE PRICED UNDER ALTERNATE #1.

ELECTRIC WATER HEATER SCHEDULE

I.D.	MANUFACTURER	MODEL	GALS.	RECOVERY		KW	VOLTS	PHASE	HZ	REMARKS
				G.P.H.	Δ TEMP.					
EWH-1	STATE	PCE-10	10	18	100	4.5	208	1	60	COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE AND INSTALLATION

DRAIN SCHEDULE

SYMBOL	TYPE	MANUFACTURER	MODEL	OUTLET	STRAINER	REMARKS
TD-A	TRENCH DRAIN	WATTS	DEADLEVEL-DI-ADA	4"	DUCTILE IRON	DUCTILE IRON FRAME, NO-HUB, HEEL PROOF GRATE. PROVIDE TRAP PRIMER CONNECTION.
FD-A	FLOOR DRAIN	WATTS	FD-100-A	4"	NICKEL BRONZE	NO-HUB, HEEL PROOF NICKEL BRONZE GRATE. PROVIDE TRAP PRIMER CONNECTION. PROVIDE PRICING UNDER ALTERNATE #1

NOTE: –

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COMMONWEALTH OF MASSACHUSETTS
DAVID J KNIGHT
MECHANICAL
No. 50220
REGISTERED PROFESSIONAL ENGINEER

Drawn by LW
Checked by SK
Revised on

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DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

50 ELM STREET
DEDHAM, MA 02026

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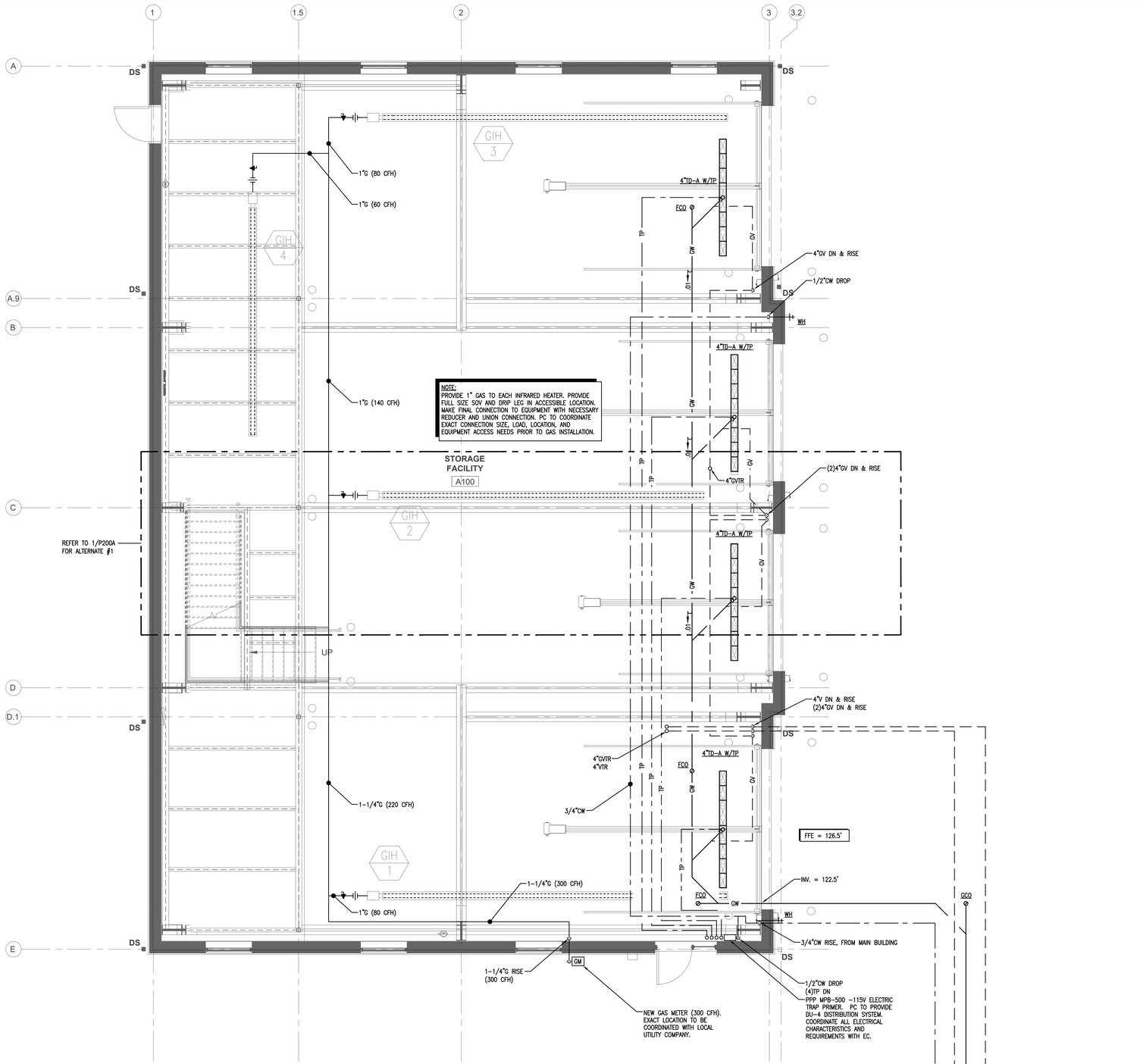
Sheet Contents
PLUMBING LEGEND, DETAILS, AND SCHEDULES

Project Number. 6790

Drawing No. P100

Sheet of



1 P200 PLUMBING PLAN
Scale: 1/4" = 1'-0"

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PLUMBING PLAN

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Drawing No. **P200**

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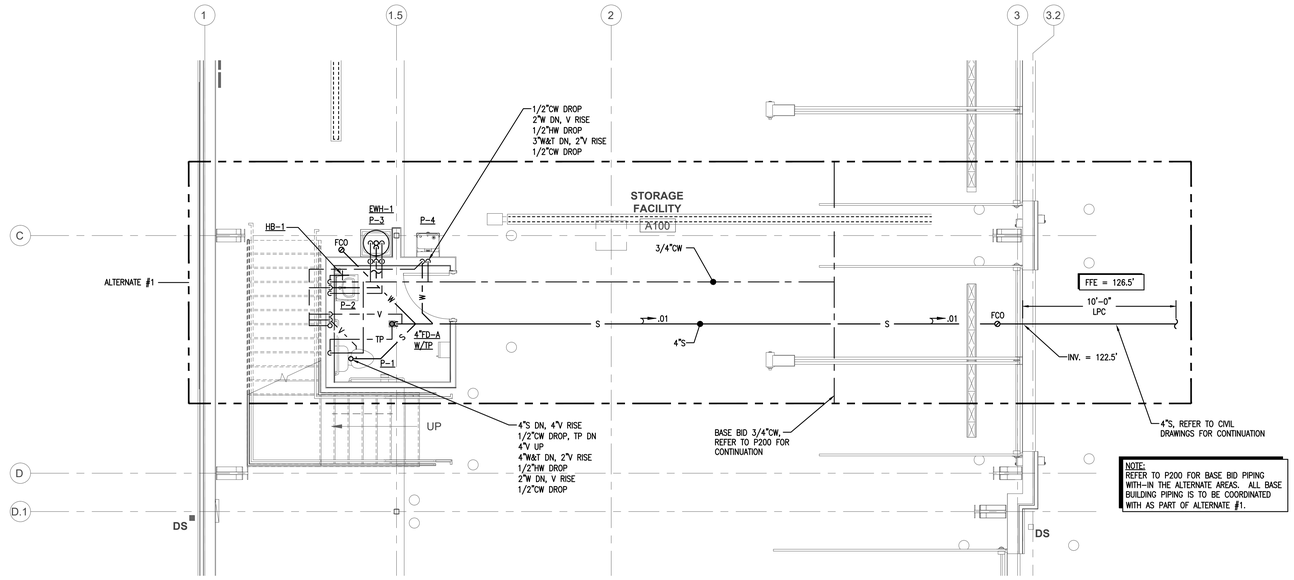
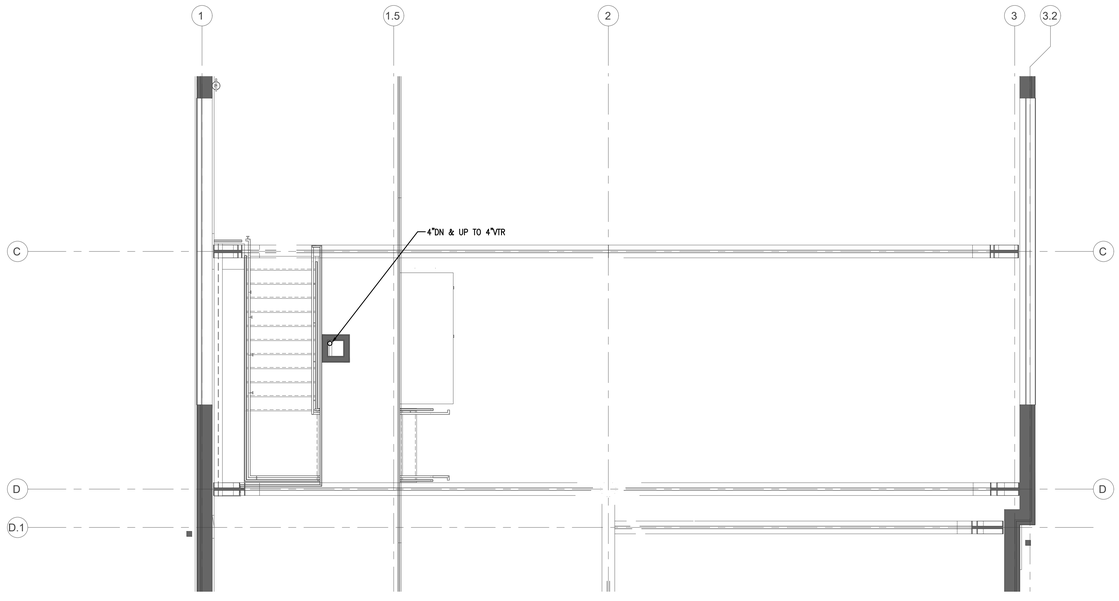


NOTE:
REFER TO P200 FOR BASE BID PIPING WITH-IN THE ALTERNATE AREAS. ALL BASE BUILDING PIPING IS TO BE COORDINATED WITH AS PART OF ALTERNATE #1.

1 / P200A PLUMBING PLAN - ALTERNATE #1

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



2 / P200A PLUMBING MEZZANINE PLAN - ALTERNATE #1

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

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PLUMBING PLANS - ALTERNATE #1

Project Number. 6790

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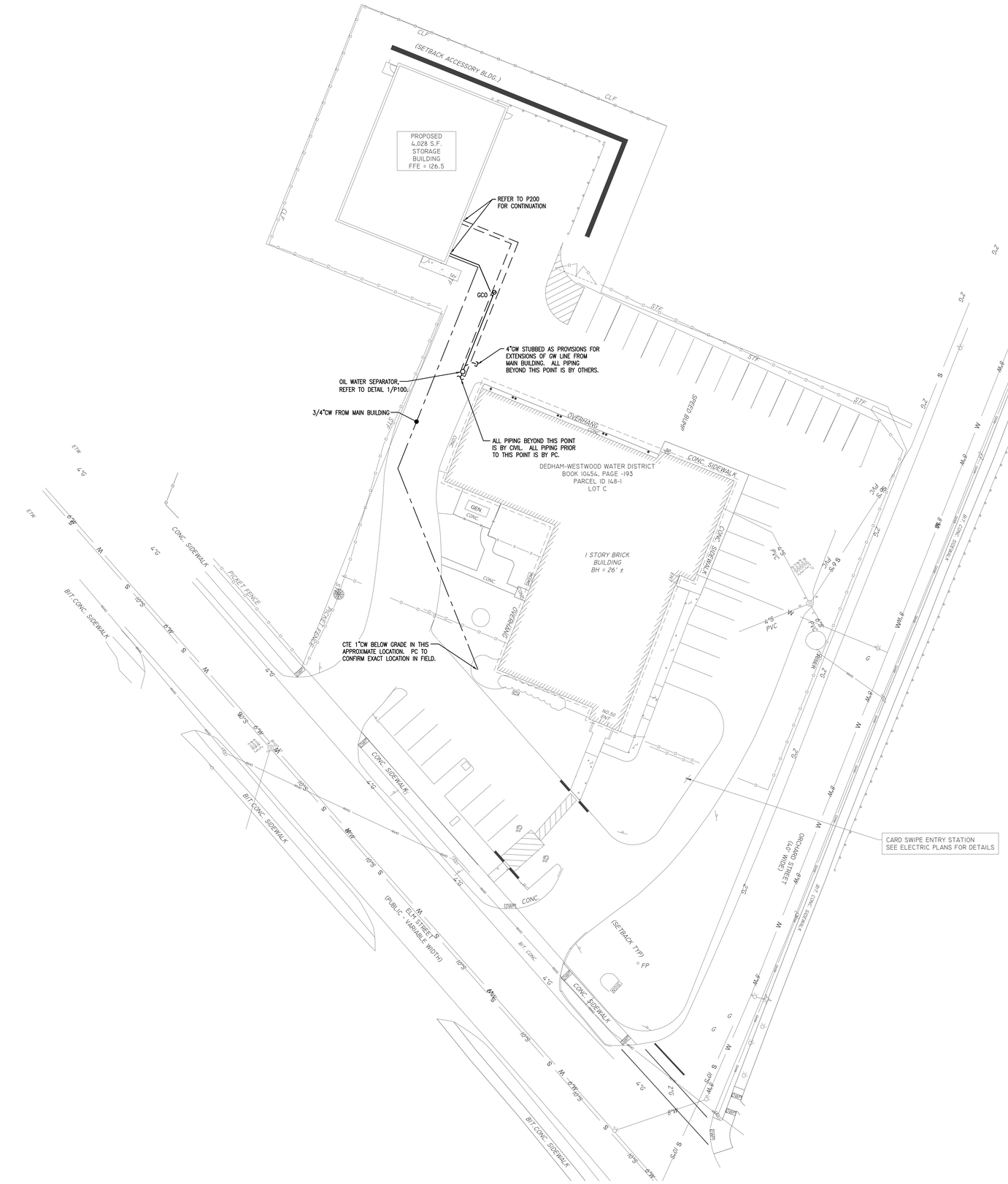

1 PLUMBING PLAN
P300 Scale: 1" = 20'-0"

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PLUMBING SITE PLAN

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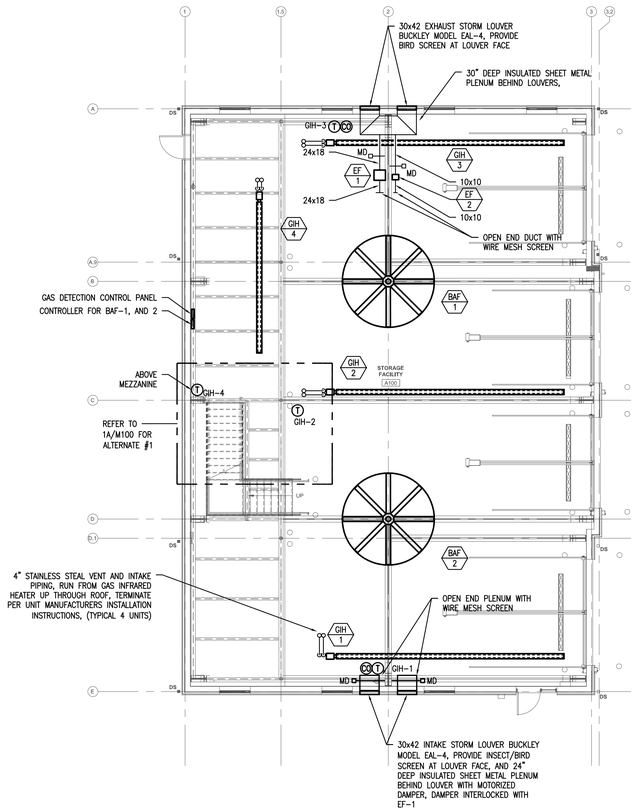
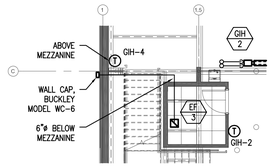
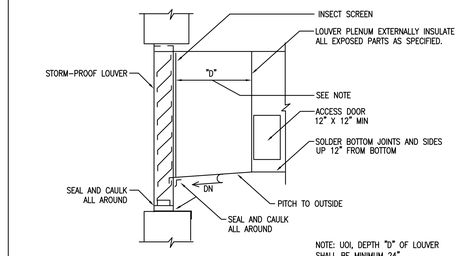


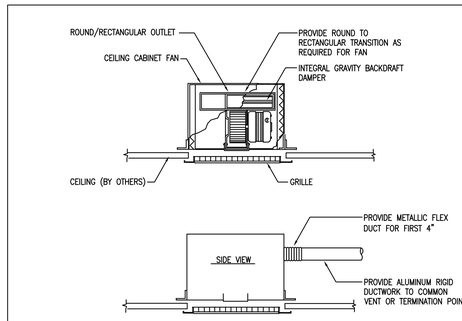
1 MECHANICAL PLAN
M100 Scale: 1/8" = 1'-0"



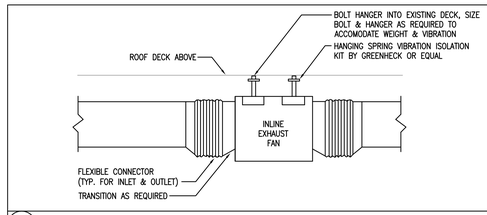
1A MECHANICAL PLAN - ALTERNATE #1
M100 Scale: 1/8" = 1'-0"



1 LOUVER CONNECTION DETAIL — NTS



2 DIRECT DRIVE CABINET EXHAUST FAN DETAIL — NTS



3 INLINE EXHAUST FAN DETAIL — NTS

GAS FIRED INFRARED HEATER SCHEDULE

GENERAL		PERFORMANCE				ELECTRICAL			PHYSICAL					REMARKS				
TAG	LOCATION	MAX INPUT MBH	MIN INPUT MBH	MAX GAS PRESSURE	MAX GAS PRESSURE	AMPS	VOLTAGE	PHASE	TUBE QUANTITY	TUBE LENGTH (FT)	MOUNTING HEIGHT (FT)	SYSTEM WEIGHT (LBS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
GIH-1	SEE PLAN	80	65	14	7	1.8	120	1	1	30	14	120	REZNOR VPT-080	①	①	1	①
GIH-2	SEE PLAN	80	65	14	7	1.8	120	1	1	30	14	120	REZNOR VPT-080	①	①	1	①
GIH-3	SEE PLAN	80	65	14	7	1.8	120	1	1	30	14	120	REZNOR VPT-080	①	①	1	①
GIH-4	SEE PLAN	60	45	14	5	1.8	120	1	1	20	10	100	REZNOR VPT-060	①	①	1	①②

① NATURAL GAS FIRED, PRESSURIZED LOW INTENSITY, 2 STAGE, STRAIGHT TUBE SYSTEM
① 65°F EAT
1 PROVIDE WALL MOUNTED THERMOSTAT
① UNIT MOUNTING HEIGHT SHALL BE VERIFIED WITH OWNER BEFORE INSTALLATION
② UNIT SHALL BE MOUNTED ABOVE MEZZANINE 55" ANGLED

FAN SCHEDULE

GENERAL			PERFORMANCE					ELECTRICAL				PHYSICAL		REMARKS			
TAG	LOCATION	SERVICE	CFM	ESP (IN WG)	RPM	BHP	SONES	WATTS	HP	VOLTAGE	PHASE	WEIGHT (LBS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
EF-1	MAINTENANCE GARAGE	MAINTENANCE GARAGE	3175	0.375	815	0.44	10.8	–	3/4	208	1	147	GREENHECK BSQ-180	①	①②	1 2	①②③
EF-2	MAINTENANCE GARAGE	MAINTENANCE GARAGE	400	0.375	1550	0.07	7.4	–	1/10	115	1	48	GREENHECK SQ-90	②	①②	1 3	①②④

① SQUARE CENTRIFUGAL IN-LINE FAN, BELT DRIVE
② SQUARE CENTRIFUGAL IN-LINE FAN, DIRECT DRIVE
① AIR PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 211
② SOUND PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 311
1 UNIT MOUNTED SPEED CONTROLLER
2 MOTOR COVER/BELT GUARD
3 DIRECT DRIVE MOTOR COVER
① SEE INLINE EXHAUST FAN DETAIL THIS SHEET
② INLET AND DISCHARGE FLEXIBLE CONNECTIONS
③ FAN CONTROLLED BY GAS DETECTION CONTROL PANEL
④ FAN SHALL RUN CONTINUALLY

FAN SCHEDULE – ALTERNATE #1

GENERAL			PERFORMANCE					ELECTRICAL				PHYSICAL		REMARKS			
TAG	LOCATION	SERVICE	CFM	ESP (IN WG)	RPM	BHP	SONES	WATTS	HP	VOLTAGE	PHASE	WEIGHT (LBS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL
EF-3	BATHROOM	BATHROOM	75	0.25	815	0.44	10.8	50	–	120	1	10	GREENHECK SP-B90	①②	①②	1 2 3	①②③

① SQUARE CEILING FAN, SURFACE MOUNTED, DIRECT DRIVE
② PROVIDE FOR ALTERNATE #1 ONLY
① AIR PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 211
② SOUND PERFORMANCE CERTIFIED IN ACCORDANCE TO AMCA 311
1 UNIT MOUNTED SPEED CONTROLLER
2 DIRECT DRIVE MOTOR COVER
3 GRAVITY BACKDRAFT DAMPER
① SEE DIRECT DRIVE CABINET EXHAUST FAN DETAIL THIS SHEET
② DISCHARGE FLEXIBLE CONNECTIONS
③ FAN CONTROLLED BY ON/OFF SWITCH

DUCTWORK PLAN GENERAL NOTES

1. UOI, DUCTWORK SHALL BE MOUNTED AS HIGH AS POSSIBLE, EXCEPT THAT DUCTWORK HEIGHT SHALL BE ADJUSTED AS NECESSARY FOR THE PROPER INSTALLATION OF EQUIPMENT, PIPING, AND CONDUIT.
2. UOI, ACOUSTICAL LINING SHALL BE 1" THICK.
3. DUCTWORK DIMENSIONS INDICATED ARE INSIDE CLEAR DIMENSIONS.

BAF 1 / BAF 2

BIG ASS FAN
MODEL: BASIC 6
FAN DIAMETER: 12 FT
WEIGHT: 185 LBS
208 VOLT, 3 PHASE
8.1 AMPS
15 AMP MOCP
1.5 HP

BOTTOM OF FAN MOUNTING HEIGHT 16'-0"
PROVIDE WITH MANUFACTURERS CONTROLLER PANEL

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	DUCTWORK (SINGLE LINE)
	DUCTWORK WITH ACOUSTICAL LINING (SINGLE LINE)
	MOTORIZED DAMPER (MD)
	AIR ENTERING OPENING
	AIR LEAVING OPENING
	UNDERCUT DOOR
CO	CO / NO2 SENSOR
T	THERMOSTAT

TAG LEGEND

EQUIPMENT (REQUIRING POWER)	EQUIPMENT DESIGNATION / NUMBER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ATC	AUTOMATIC TEMPERATURE CONTROL
BCC	BRANCH CIRCUIT CONTROLLER
BHP	BREAK HORSEPOWER
BTUH	BTU/HOUR
CFM	CUBIC FEET PER MINUTE
DX	DIRECT EXPANSION
EDB	ENTERING AIR TEMPERATURE (DRY BULB)
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING AIR TEMPERATURE (WET BULB)
°F	DEGREES FAHRENHEIT
FT WG	FEET WATER GAUGE
MBH	THOUSANDS OF BTU / HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MOP	MAXIMUM OVERCURRENT PROTECTION
MD	MOTORIZED DAMPER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
ODB	OUTSIDE DRY BULB
OWB	OUTSIDE WET BULB
PH	PHASE
RPM	REVOLUTIONS PER MINUTE
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
TYP	TYPICAL

Certification

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DAVID J. KNIGHT
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Checked by SK
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Sheet Contents
MECHANICAL PLAN

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Drawing No.
M100

Sheet of

LEGEND

- MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS
- ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

RACEWAYS AND WIRING

P4-1,3,5 — SINGLE PHASE HOMERUNS TO PANELBOARD. "P4" DENOTES PANEL. "1,3,5" DENOTES CIRCUIT NUMBERS, [(3) 20A, 1P CIRCUITS] NUMBER OF SLASH MARKS DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C. NO SLASH MARKS INDICATE 2#12 & #12G-3/4"C UNLESS INDICATED OTHERWISE.

P4-2, 20/3 — MULTI-POLE HOMERUN TO PANELBOARD. "P4" DENOTES PANEL, "2" DENOTES CIRCUIT NUMBER, 20 AMP 3 POLE C/B. NUMBER OF SLASH MARKS DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C.

NOTES:
1. GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.

E — 2#10,#10G — EMERGENCY ONLY WIRING

LIGHTING FIXTURES (REFER TO LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE TYPE)

A, 2a — LIGHTING FIXTURE CEILING OR RECESSED MOUNTED. "A" DENOTES FIXTURE TYPE, "2" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCH CONTROL.

HIGHBAY LIGHTING FIXTURE

STRIP LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE

CEILING MOUNTED ILLUMINATED EXIT SIGN. SINGLE OR DOUBLE FACE, WITH OR WITHOUT ARROWS AS INDICATED ON DRAWINGS

WALL MOUNTED ILLUMINATED EXIT SIGN – SHADING INDICATES FACE PLATE(S)

SELF-CONTAINED EMERGENCY LIGHTING UNIT

WP — REMOTE EMERGENCY LIGHTING HEADS – SINGLE OR DOUBLE AS SHOWN. "WP" DENOTES WEATHERPROOF

TOGGLE SWITCHES (MOUNTED 48" AFF)

Sa — SINGLE POLE TOGGLE SWITCH. "a" DENOTES FIXTURE CONTROL.

S3 — THREE WAY TOGGLE SWITCH

LIGHTING CONTROL DEVICES

Sos a,b — WALL MOUNTED DIGITAL 2-BUTTON LOW VOLTAGE DUAL TECH OCCUPANCY SENSOR SWITCH. "a,b" DENOTES LIGHTING FIXTURE/LOAD CONTROL. PROVIDE WATTSTOPPER #LMDW-102-W OR APPROVED EQUAL. REQUIRES ROOM CONTROLLER.

LV a — WALL MOUNTED DIGITAL LOW VOLTAGE SWITCH. "a" DENOTES LIGHTING FIXTURE CONTROL. PROVIDE WATTSTOPPER #LMSW-101-W OR APPROVED EQUAL. REQUIRES ROOM CONTROLLER.

LD a — WALL MOUNTED DIGITAL LOW VOLTAGE DIMMING SWITCH. "a" DENOTES LIGHTING FIXTURE CONTROL. PROVIDE WATTSTOPPER #LMDM-101-W OR APPROVED EQUAL. REQUIRES ROOM CONTROLLER.

OS a — CEILING MOUNTED DIGITAL PIR OCCUPANCY SENSOR WITH EXTENDED HEIGHT LENS. PROVIDE WATTSTOPPER #LMPC-100-S OR APPROVED EQUAL. "a" DENOTES LIGHTING FIXTURE CONTROL. PROVIDE WITH #LMCT-100-2 WIRELESS CONFIGURATION TOOL. REQUIRES ROOM CONTROLLER.

DRC a,b — DIGITAL ON/OFF ROOM CONTROLLER WITH ONE OR TWO RELAYS. PROVIDE WATTSTOPPER #LMRC-101 FOR SINGLE LOAD CONTROL OR #LMRC-102 FOR TWO LOAD CONTROL, OR APPROVED EQUAL. "a,b" DENOTES LIGHTING FIXTURE/LOAD CONTROL.

DRD a — DIGITAL ON/OFF/0-10V DIMMING ROOM CONTROLLER WITH ONE RELAY. PROVIDE WATTSTOPPER #LMRC-211 OR APPROVED EQUAL. "a" DENOTES LIGHTING FIXTURE CONTROL.

TC a,b — ASTRONOMIC 7-DAY ELECTRONIC 2-CIRCUIT TIMECLOCK. PROVIDE INTERMATIC #ET8215C OR APPROVED EQUAL. COORDINATE TIME SCHEDULE WITH OWNER. "a,b" DENOTES LIGHTING FIXTURE CONTROL.

RECEPTACLES (MOUNTED 18" AFF OR AS INDICATED ON ARCHITECTURAL PLANS)

GFI 2 WP — DUPLEX RECEPTACLE, "2" DENOTES CIRCUIT NUMBER, "GFI" DENOTES GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE, "WP" DENOTES WEATHER PROOF COVER

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON ARCHITECTURAL PLANS

DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON THE ARCHITECTURAL PLANS

DOUBLE DUPLEX RECEPTACLE

POWER DISTRIBUTION EQUIPMENT

- DISTRIBUTION PANEL
- PANELBOARD, SURFACE MOUNTED
- PANELBOARD, FLUSH MOUNTED
- J — JUNCTION BOX, SIZED PER NEC
- 2 — MOTOR, "2" DENOTES HORSEPOWER
- MAGNETIC MOTOR STARTER WITH ENCLOSURE, MINIMUM SIZE NEMA 1
- P — MANUAL MOTOR STARTER WITH THERMAL OVERLOAD. "P" DENOTES PILOT LIGHT
- 30/3 — NON-FUSED DISCONNECT SWITCH: "30/3" DENOTES 30 AMP/3 POLE SWITCH
- 30/20/3 — FUSED DISCONNECT SWITCH: "30/20/3" DENOTES 30 AMP/3 POLE SWITCH, 20 AMP FUSES
- COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH. SIZE OF STARTER, SWITCH AND FUSE AS REQUIRED
- GROUND
- M — ELECTRIC UTILITY METER SOCKET & METER
- UTILITY POLE

MISCELLANEOUS

- J — JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT
- EF — EXHAUST FAN
- CP — CONTROL PANEL
- MOTORIZED DAMPER
- OVERHEAD DOOR OPERATOR RAISE/STOP/LOWER CONTROL STATION
- EV — ELECTRIC VEHICLE CHARGING STATION

MECHANICAL EQUIPMENT TAG ABBREVIATIONS

EF 1 — DENOTES EQUIPMENT TYPE / DENOTES UNIT NUMBER

BAF — CEILING FAN

EF — EXHAUST FAN

UH — GAS UNIT HEATER

ABBREVIATIONS

3R	NEMA 3R RATING
4X	NEMA 4X RATING
A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C/B	CIRCUIT BREAKER
C.T.	CURRENT TRANSFORMER
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
DWG	DRAWING
E	WIRED ON EMERGENCY CIRCUIT
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
ETD	EXISTING TO BE DEMOLISHED
ETR	EXISTING TO REMAIN
ETRL	EXISTING TO BE RELOCATED
ETRP	EXISTING TO BE REPLACED
G	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
HVAC	HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR
IG	ISOLATED GROUND
KCMIL	ONE THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KVAR	KILOVOLT-AMPERES REACTIVE
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MLO	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
ø	PHASE
P	POLE
PC	PLUMBING CONTRACTOR
P.T.	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RL	NEW LOCATION OF RELOCATED DEVICE
SM	SURFACE MOUNT
ST	SHUNT TRIP
T/D	TEL/DATA
TEL	TELEPHONE
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VIF	VERIFY IN FIELD
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

LIGHTING FIXTURE SCHEDULE

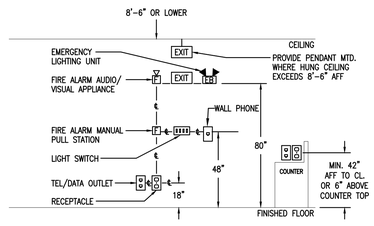
TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	LAMPS					REMARKS
			NUMBER	TYPE	VOLTS	WATTS	LUMENS	CCT	
LT01	SUSPENDED HIGHBAY FIXTURE (SELECTABLE OUTPUT)	SLG LIGHTING HFO-LS270-G3-FSK		LED	120	64	12,000	4,000	FIXTURE SHALL BE SET FOR 12,000 LUMEN (LOW) OUTPUT AND 4,000K CCT. BOTTOM OF FIXTURES SHALL BE 18'-10" AFF.
LT02	4'-0" SURFACE MOUNTED STRIP FIXTURE (SELECTABLE OUTPUT)	SLG LIGHTING TSS-4-30/40/50-G1-FSK		LED	120	40	5,200	4,000	FIXTURE SHALL BE SET FOR 5,200 LUMEN (HIGH) OUTPUT AND 4,000K CCT.
LT03	EXTERIOR WALL PACK	SLG LIGHTING WFV-40-G1-4K		LED	120	27	3,600	4,000	REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
LT04	EXTERIOR WALL MOUNTED SQUARE CYLINDER – DOWNLIGHT ONLY (SELECTABLE OUTPUT)	SLG LIGHTING LCH-4S-25/30/35-WB-G1-40K-DL		LED	120	26	2,375	4,000	FIXTURE SHALL BE SET FOR 25W (LOW) OUTPUT. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
LT05	DECORATIVE EXTERIOR FIXTURE	SPECTRUM SB1016GV15L-40K-D010X-TF1-CP104-PA15-XX-XX-WLKA		LED	120	11	1,284	4,000	REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. FINISH SELECTED BY ARCHITECT.
LT06	2'x2' RECESSED FLAT PANEL (PROVIDE FOR ALTERNATE #1 ONLY)	SLG LIGHTING TPSC 22 LS45 G1 FSK		LED	120	30	3,300	4,000	SET FOR MEDIUM OUTPUT (3,300 LUMEN), 4000K CCT.
X1	LED EXIT SIGN WITH INTEGRAL BATTERY BACK-UP	LIGHTALARMS QLXN500-RN		LED	120	2.5			
X2	LED EXIT SIGN WITH INTEGRAL BATTERY BACK-UP AND REMOTE CAPABILITY	LIGHTALARMS QLXN500-RN-RID		LED	120	2.5			
EM	HIGH OUTPUT EMERGENCY LIGHTING UNIT	LIGHTALARMS 2M12G1/ELF3-LD10-M/MP-PQA	2	LED	120/12	6 EA.			PROVIDE WITH MOUNTING PLATFORM
EM	EMERGENCY LIGHTING UNIT (PROVIDE FOR ALTERNATE #1 ONLY)	LIGHTALARMS LCA-2LED	2	LED	120/3.6	3.6 EA.			PROVIDE WITH MOUNTING PLATFORM
WP	DOUBLE-HEAD WEATHERPROOF REMOTE EMERGENCY FIXTURE	LIGHTALARMS ELF612D/LED	2	LED	3.6	3			COLOR SHALL BE SELECTED BY ARCHITECT

LIGHTING FIXTURE NOTES:

1. PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.
2. COLORS SHALL BE AS SELECTED BY ARCHITECT.
3. COORDINATE EXACT LOCATION WITH ARCHITECT'S REFLECTED CEILING PLAN PRIOR TO ROUGH-IN.
4. E.C. SHALL ENSURE THAT ALL PROPOSED SWITCHES AND DIMMER SWITCHES ARE COMPATIBLE WITH THE LIGHT FIXTURE(S) INDICATED TO BE CONTROLLED. INSTALL ALL SWITCHES AND DIMMER SWITCHES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

BRANCH CIRCUIT WIRING NOTES:

1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
5. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
6. PROVIDE A NEUTRAL CONDUCTOR TO ALL NEW LIGHTING SWITCH BOXES PER NEC ARTICLE 404.2.
7. IN ALL NON-DWELLING TYPE OCCUPANCIES, ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC ARTICLE 210.8(B)(2).
8. WHERE EXISTING SWITCHES AND RECEPTACLES ARE INDICATED TO REMAIN, THIS CONTRACTOR SHALL REPLACE SAID DEVICE(S) AND DEVICE PLATE(S) WITH NEW TO MATCH THE NEW CONSTRUCTION. WHERE THEY ARE INDICATED AS RELOCATED, EXTEND BRANCH CIRCUIT WIRING TO NEW LOCATION AND PROVIDE NEW DEVICE AND DEVICE PLATE TO MATCH NEW CONSTRUCTION.
9. ALL SELF CONTAINED EMERGENCY LIGHTING UNITS AND EXIT LIGHTING IN THE BUILDING SHALL BE CONNECTED TO THE NEAREST UNSWITCHED LIGHTING CIRCUIT IN THE AREA WITH 2#12, #12G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.



NOTES:
1. INSTALL DEVICES ON ONE COMMON VERTICAL CENTERLINE.
2. INSTALL DEVICES AT THIS HEIGHT WHEREVER APPLICABLE UNLESS NOTED OTHERWISE.

TYPICAL DEVICE MOUNTING HEIGHTS DETAIL

Certification

COMMONWEALTH OF MASSACHUSETTS — DANIEL J. CARROLL — ELECTRICAL — NO. 41495 — REGISTERED PROFESSIONAL ENGINEER

Drawn by SD

Checked by DC

Revised on

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Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

50 ELM STREET
DEDHAM, MA 02026

Drawing Status

100% CONSTRUCTION DOCUMENTS

Issued On 8/20/2024

Sheet Contents

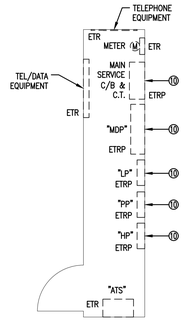
ELECTRICAL LEGEND, NOTES, AND LIGHT FIXTURE SCHEDULE

Project Number. 6790

Drawing No.

E100

Sheet of



2 ENLARGED ELECTRIC ROOM PLAN

E5100 Scale: 1/4" = 1'-0"

GENERAL NOTES:

1. THE ELECTRICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUIT, RACEWAYS AND PULL BOXES AS REQUIRED FOR THE GATE OPERATOR SYSTEMS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC ONLY. EXACT INSTALLATION LOCATION AND ROUTING OF CONDUITS SHALL BE DETERMINED IN THE FIELD WITH EXISTING AND PROPOSED SITE UTILITIES.

KEYED NOTES:

① PROVIDE (1) 3/4"C WITH BRANCH CIRCUIT WIRING FOR GATE OPERATOR. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR AND TRANSITION TO 3/4" SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO GATE OPERATOR. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD.

② PROVIDE (2) NEW 20A/1P GFCI CIRCUIT BREAKERS TO SERVE GATE OPERATORS. REFER TO RISER DIAGRAM KEYED NOTE #5 ON DRAWING E300 FOR ADDITIONAL INFORMATION.

③ CONDUIT FOR FEEDER TO STORAGE BUILDING PANELBOARD SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR AND TRANSITION TO SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO PANELBOARD LOCATION. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD. REFER TO ELECTRICAL RISER DIAGRAM ON DRAWING E300 FOR ADDITIONAL INFORMATION.

④ PROVIDE (1) 3/4"C WITH PULLSTRING FROM STORAGE ROOM TO GATE-MOUNTED CARD READER. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR (NOT SHOWN ON PLANS) AND TRANSITION TO 3/4" SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO GATE. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD.

⑤ PROVIDE (1) 2"C WITH PULLSTRING FROM STORAGE ROOM TO NEW STORAGE BUILDING. LABEL EACH END OF THE CONDUIT WITH THE ORIGINATION AND TERMINATION LOCATION. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR AND TRANSITION TO 2" SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO STORAGE BUILDING AND STUB UP 12"AFF ADJACENT TO PANELBOARD "P1". EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD. CONDUIT SHALL BE RUN IN TRENCH WITH PANELBOARD "P1" FEEDER CONDUIT. MAINTAIN ALL REQUIRED SEPARATION DISTANCES BETWEEN CONDUITS.

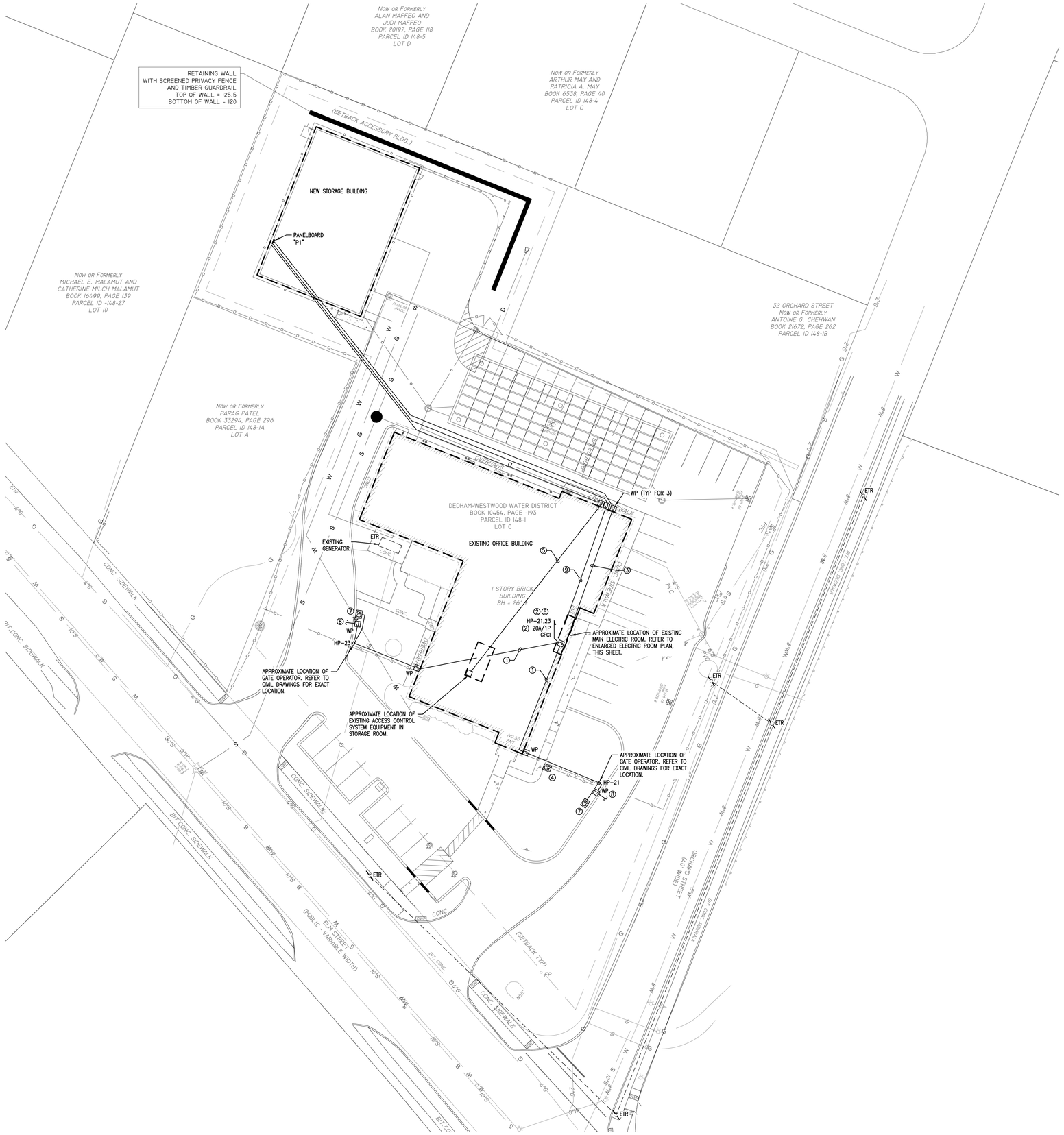
⑥ PROVIDE A SURGE PROTECTIVE DEVICE FOR EACH GATE OPERATOR BRANCH CIRCUIT EQUAL TO DITEK #DTK-120SLR.

⑦ PROVIDE (1) 3/4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FROM GATE OPERATOR TO CARD READER LOCATION. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.

⑧ PROVIDE (1) 3/4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FROM GATE OPERATOR TO LOOP DETECTOR. PROVIDE WEATHERPROOF/WATERTIGHT IN-GRADE JUNCTION BOX FOR SPLICING OF CABLES. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.

⑨ PROVIDE (1) 2"C WITH PULLSTRING FROM TEL/DATA EQUIPMENT LOCATION IN MAIN ELECTRIC ROOM TO NEW STORAGE BUILDING. LABEL EACH END OF THE CONDUIT WITH THE ORIGINATION AND TERMINATION LOCATION. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE, AND SHALL BE RUN EXPOSED ON THE EXTERIOR OF THE BUILDING. PROVIDE WEATHERPROOF JUNCTION BOX WHERE CONDUIT PENETRATES BUILDING EXTERIOR AND TRANSITION TO 2" SCHEDULE 40 PVC CONDUIT. RUN BELOW GRADE TO STORAGE BUILDING AND STUB UP 12"AFF ADJACENT TO PANELBOARD "P1". EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD. CONDUIT SHALL BE RUN IN TRENCH WITH PANELBOARD "P1" FEEDER CONDUIT. MAINTAIN ALL REQUIRED SEPARATION DISTANCES BETWEEN CONDUITS.

⑩ EXISTING EQUIPMENT SHALL BE REMOVED AND REPLACED WITH NEW. REFER TO DRAWING E300 FOR ADDITIONAL INFORMATION.



1 ELECTRICAL SITE PLAN

ES100 Scale: 1" = 20'-0"

Certification

COMMONWEALTH OF MASSACHUSETTS DANIEL J. CARROLL ELECTRICAL NO. 41495 REGISTERED PROFESSIONAL ENGINEER

Drawn by SD

Checked by DC

Revised on

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ELECTRICAL SITE PLAN

Project Number. 6790

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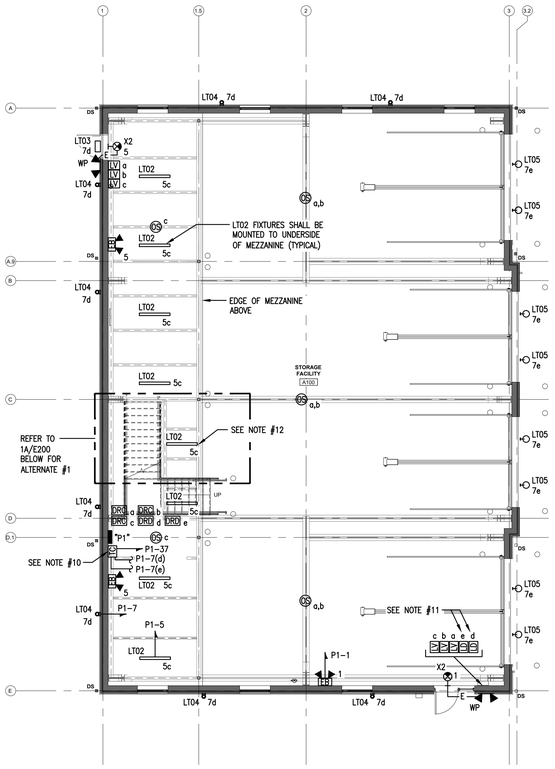
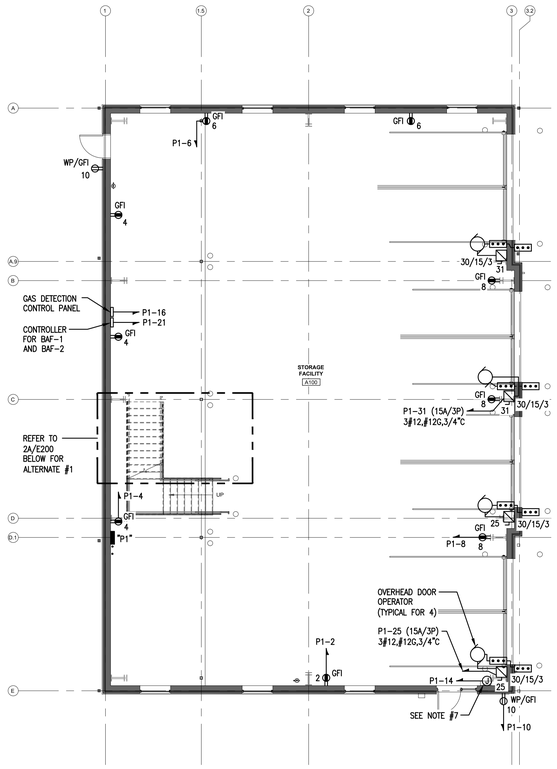
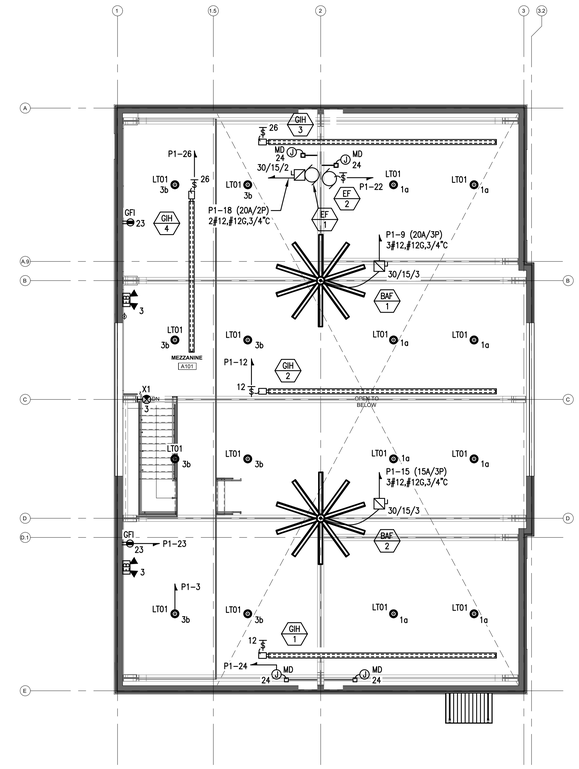
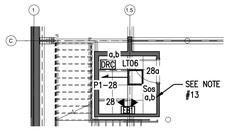






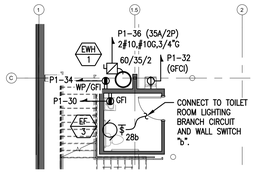
1 FIRST FLOOR LIGHTING PLAN

E200 Scale: 1/8" = 1'-0"



1A FIRST FLOOR LIGHTING PLAN - ALTERNATE #1

E200 Scale: 1/8" = 1'-0"



2A FIRST FLOOR POWER PLAN - ALTERNATE #1

E200 Scale: 1/8" = 1'-0"

2 FIRST FLOOR POWER PLAN

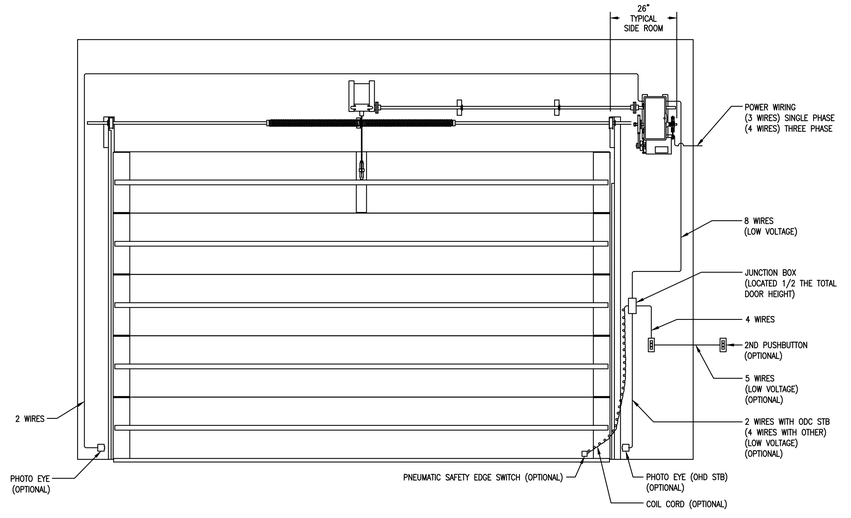
E200 Scale: 1/8" = 1'-0"

ELECTRICAL NOTES:

1. RECEPTACLES AND WALL SWITCHES LOCATED WITHIN THE GARAGE AND AT THE MEZZANINE SHALL BE SURFACE MOUNTED AND LOCATED AT 44" AFF UNLESS NOTED OTHERWISE. ALL RECEPTACLES SHALL BE GFCI TYPE. PROVIDE METAL OUTLET BOXES WITH STAINLESS STEEL FACEPLATES. WIRING SHALL BE PROVIDED IN EMT CONDUIT.
2. WALL AND CEILING MOUNTED ELECTRICAL DEVICES, FIXTURES, AND EQUIPMENT WITHIN THE BUILDING SHALL BE SURFACE MOUNTED. WIRING SHALL BE PROVIDED IN EMT CONDUIT. ALL OUTLET AND JUNCTION BOXES SHALL BE METAL WITH STAINLESS STEEL COVERS/FACEPLATES.
3. EXIT SIGNS AND EMERGENCY LIGHTING UNITS SHALL BE WIRED AHEAD OF LIGHTING CONTROLS.
4. ELECTRICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WIRING ASSOCIATED WITH OVERHEAD DOOR MOTORS/OPERATORS AND ALL ASSOCIATED ACCESSORIES. ALL WIRING SHALL BE PROVIDED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. CEILING FANS BAF-1 AND BAF-2 ARE EACH PROVIDED WITH A VFD BY THE MECHANICAL SUB-CONTRACTOR. THE ELECTRICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND WIRING OF THE VFD'S AND PROVIDING CAT 5 WIRING FROM EACH VFD TO THE CONTROLLER. THE CONTROLLER SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL SUB-CONTRACTOR, WIRED BY THE ELECTRICAL SUB-CONTRACTOR. ALL WIRING SHALL BE PROVIDED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. GAS DETECTION SYSTEM CONTROL PANEL AND SENSORS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL SUB-CONTRACTOR, WIRED BY THE ELECTRICAL SUB-CONTRACTOR. ALL WIRING SHALL BE PROVIDED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. PROVIDE CONNECTION TO ELECTRONIC TRAP PRIMER. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH PLUMBING CONTRACTOR.
8. CONCRETE STRUCTURAL STEM WALL AT PERIMETER OF BUILDING EXTENDS TO 48" AFF. PROVIDE SUPPORT FRAME WITH PLYWOOD BACKBOARD AS REQUIRED FOR INSTALLATION OF PANELBOARD "P1".
9. LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE MOUNTED TO BOTTOM OF STRUCTURAL STEEL.
10. PROVIDE 2-CIRCUIT ELECTRONIC TIME CLOCK FOR CONTROL OF EXTERIOR LIGHTING BRANCH CIRCUIT P1-7. (REFER TO DRAWING E100 FOR MODEL NUMBER). TIMECLOCK CIRCUIT #1 SHALL CONTROL SIDE AND REAR SCONCES "LT03" AND "LT04" ON DIMMING SWITCH "d". TIMECLOCK CIRCUIT #2 SHALL CONTROL FRONT SCONCES "LT05" ON DIMMING SWITCH "e". PROVIDE LABEL ON ENCLOSURE COVER INDICATING "EXTERIOR LIGHTS".
11. PROVIDE DIMMING WALL SWITCHES FOR CONTROL OF EXTERIOR WALL SCONCES. PROVIDE LABEL ON FACEPLATE OF EACH SWITCH TO INDICATE "SIDE/REAR LIGHTS" AND "FRONT LIGHTS".
12. THIS FIXTURE SHALL BE PROVIDED UNDER BASE BID ONLY. OMIT FIXTURE IF ALTERNATE #1 IS ACCEPTED.
13. SWITCHES "a" (LIGHT) AND "b" (EF-3) SHALL BE PROGRAMMED FOR AUTO ON/AUTO OFF.

3 MEZZANINE LIGHTING & POWER PLAN

E200 Scale: 1/8" = 1'-0"



4 TYPICAL OVERHEAD DOOR WIRING DIAGRAM

E200 Scale: NOT TO SCALE

TYPICAL OVERHEAD DOOR WIRING DIAGRAM NOTES:

1. DETAIL SHOWN FOR GENERAL INFORMATION ONLY. OVERHEAD DOOR OPERATOR AND CONTROLS SHALL BE PROVIDED PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

Certification

COMMONWEALTH OF MASSACHUSETTS DANIEL J. CARROLL ELECTRICAL NO. 41466 REGISTERED PROFESSIONAL ENGINEER

Drawn by SD

Checked by DC

Revised on

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ELECTRICAL LIGHTING AND POWER PLANS

Project Number. 6790

Drawing No. E200

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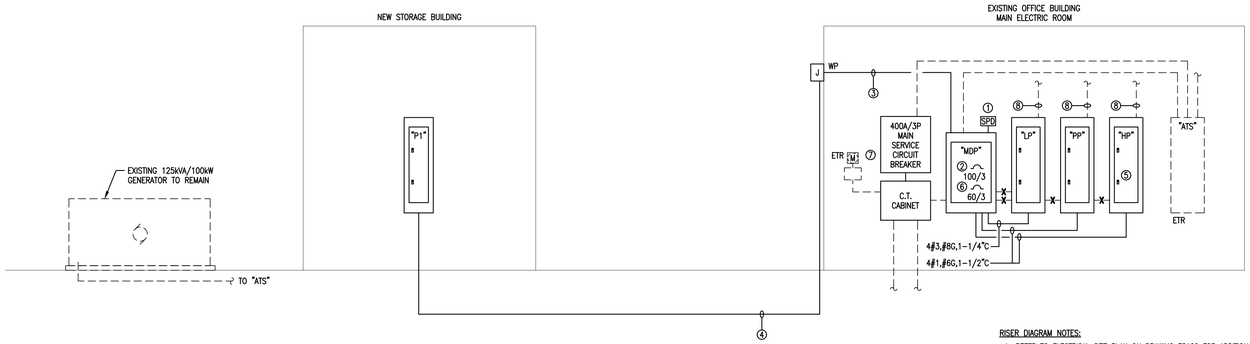

1 ELECTRIC RISER DIAGRAM

E300 Scale: NOT TO SCALE

RISER DIAGRAM NOTES:

1. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.
2. THE EXISTING ELECTRICAL SERVICE IS RATED 208Y/120V, 3-PHASE, 4-WIRE, 400-AMPS. THE EXISTING ELECTRIC MAIN SERVICE CIRCUIT BREAKER AND PANELBOARDS "MDP", "LP", "PP", AND "HP" ARE ALL MANUFACTURED BY FPE. ALL EXISTING FPE EQUIPMENT AND ASSOCIATED CIRCUIT BREAKERS SHALL BE REMOVED AND REPLACED WITH NEW. EXISTING FEEDERS AND CONDUITS FROM "MDP" TO PANELBOARDS "LP", "PP", AND "HP" SHALL BE REMOVED AND REPLACED WITH NEW. EXISTING BRANCH CIRCUIT WIRING AND GROUNDING/GROUNDED CONDUCTORS ASSOCIATED WITH PANELBOARDS "LP", "PP", AND "HP" SHALL BE DISCONNECTED AND RECONNECTED AT NEW ELECTRICAL EQUIPMENT.
3. ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR SIZED AT A MINIMUM OF 125kW AND SHALL PROVIDE TEMPORARY PANELBOARDS TO SUPPORT THE EXISTING DISTRIBUTION SYSTEM. THIS EQUIPMENT SHALL BE AVAILABLE FOR THE ENTIRE LENGTH OF TIME THE ELECTRICAL DISTRIBUTION SYSTEM IS BEING WORKED ON. ELECTRICAL SUB-CONTRACTOR SHALL ALSO CARRY THE COST FOR THE ELECTRICAL DISTRIBUTION SYSTEM WORK TO OCCUR OFF-HOURS. ALL WORK ON THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE COORDINATED WITH THE OWNER IN ADVANCE OF ANY PLANNED SHUT DOWNS.

RISER DIAGRAM KEYED NOTES:

1. PROVIDE SURGE PROTECTIVE DEVICE LISTED FOR USE ON SERVICE ENTRANCE EQUAL TO DITEK #D200M-120/2083YT.
2. PROVIDE (1) NEW 100A/3P CIRCUIT BREAKER AT PANEL "MDP" TO SERVE NEW STORAGE BUILDING PANELBOARD "P1".
3. PROVIDE 4#2, #8G IN 2"C. CONDUIT SHALL BE ROUTED THROUGH ATTIC SPACE. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.
4. PROVIDE 4#2, #8G IN 2" SCHEDULE 40 PVC CONDUIT. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.
5. PROVIDE (2) NEW 20A/1P GFCI CIRCUIT BREAKERS AT PANEL "HP" TO SERVE GATE OPERATORS. REFER TO ELECTRICAL SITE PLAN ON DRAWING ES100 FOR ADDITIONAL INFORMATION.
6. PROVIDE (1) NEW 60A/3P CIRCUIT BREAKER AT PANEL "MDP" TO SERVE NEW SURGE PROTECTIVE DEVICE. PROVIDE 4#6,#10G, 1-1/4"C.
7. PROVIDE NEW 400A/3P ENCLOSED SERVICE ENTRANCE RATED CIRCUIT BREAKER AND NEW C/T CABINET (PER UTILITY COMPANY STANDARDS).
8. REMOVE EXISTING PVC NIPPLES AND REPLACE WITH NEW 4" EMT NIPPLES. EXISTING BRANCH CIRCUITRY TO REMAIN.

BASE BID

UTILIZE THIS SCHEDULE ONLY IF ALTERNATE #1 IS NOT ACCEPTED

PANEL SCHEDULE — P1

VOLT 120/208 | PHASE 3 | WIRE 4 | A.I.C. 42K | MAIN 100A MCB | BUS 100A | FEED SEE RISER | MOUNT SURFACE

CKT NO	SERVICE DESCRIPTION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	BKR	POLES	ABC	BKR	POLES	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	SERVICE DESCRIPTION	CKT NO
1	HIGHBAY LIGHTING – FRONT	530			20	1		20	1	180			GARAGE RECEPTACLES	2
3	HIGHBAY LIGHTING – REAR		539		20	1		20	1		540		GARAGE RECEPTACLES	4
5	STRIP LIGHTING			350	20	1		20	1			360	GARAGE RECEPTACLES	6
7	EXTERIOR LIGHTING	323			20	1		20	1	540			GARAGE RECEPTACLES	8
9			972					20	1		360		EXTERIOR RECEPTACLES	10
11	CEILING FAN BAF-1			972	15	3		20	1			432	HEATERS GIH-1/GIH-2	12
13		972						20	1	7			DRAIN TRAP PRIMER	14
15			972					20	1		200		GAS DETECTION SYSTEM	16
17	CEILING FAN BAF-2			972	15	3		20	2			791	EXHAUST FAN EF-1	18
19		972								791				20
21	CEILING FAN CONTROLLER		200		20	1		20	1		80		EXHAUST FAN EF-2	22
23	MEZZANINE RECEPTACLES			360	20	1		20	1			600	MOTORIZED DAMPERS	24
25		864						20	1	432			HEATERS GIH-3/GIH-4	26
27	OVERHEAD DOORS		864		15	3		20	1				SPARE	28
29				864				20	1				SPARE	30
31		864						20	1				SPARE	32
33	OVERHEAD DOORS		864		15	3			1				SPACE	34
35				864					1				SPACE	36
37	TIMECLOCK	6			15	1			1				SPACE	38
39	SPARE				20	1			1				SPACE	40
41	SPARE				20	1		1					SPACE	42
SUB-TOTALS		TOTAL PHASE A LOAD (W): 6,049												
		TOTAL PHASE B LOAD (W): 5,591												
		TOTAL PHASE C LOAD (W): 6,997												
		TOTAL CONNECTED LOAD (W): 18,637												

ALTERNATE #1

UTILIZE THIS SCHEDULE ONLY IF ALTERNATE #1 IS ACCEPTED

PANEL SCHEDULE — P1

VOLT 120/208 | PHASE 3 | WIRE 4 | A.I.C. 42K | MAIN 100A MCB | BUS 100A | FEED SEE RISER | MOUNT SURFACE

CKT NO	SERVICE DESCRIPTION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	BKR	POLES	ABC	BKR	POLES	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	SERVICE DESCRIPTION	CKT NO
1	HIGHBAY LIGHTING – FRONT	530			20	1		20	1	180			GARAGE RECEPTACLES	2
3	HIGHBAY LIGHTING – REAR		539		20	1		20	1		540		GARAGE RECEPTACLES	4
5	STRIP LIGHTING			310	20	1		20	1			360	GARAGE RECEPTACLES	6
7	EXTERIOR LIGHTING	323			20	1		20	1	540			GARAGE RECEPTACLES	8
9			972					20	1		360		EXTERIOR RECEPTACLES	10
11	CEILING FAN BAF-1			972	15	3		20	1			432	HEATERS GIH-1/GIH-2	12
13		972						20	1	7			DRAIN TRAP PRIMER	14
15			972					20	1		200		GAS DETECTION SYSTEM	16
17	CEILING FAN BAF-2			972	15	3		20	2			791	EXHAUST FAN EF-1	18
19		972								791				20
21	CEILING FAN CONTROLLER		200		20	1		20	1		80		EXHAUST FAN EF-2	22
23	MEZZANINE RECEPTACLES			360	20	1		20	1			600	MOTORIZED DAMPERS	24
25		864						20	1	432			HEATERS GIH-3/GIH-4	26
27	OVERHEAD DOORS		864		15	3		20	1		88		TOILET ROOM LIGHT AND EF-3	28
29				864				20	1			180	TOILET ROOM RECEPTACLE	30
31		864						20	1	15			DRINKING FOUNTAIN	32 ①
33	OVERHEAD DOORS		864		15	3		20	1		180		RECEPT @ WATER HEATER	34
35				864				20	1				SPARE	36
37	TIMECLOCK	6			15	1			2	2250			WATER HEATER EWH-1	38
39	SPARE				20	1		35			2250			40
41	SPARE				20	1		20	1				SPARE	42
SUB-TOTALS		TOTAL PHASE A LOAD (W): 8,314												
		TOTAL PHASE B LOAD (W): 8,109												
		TOTAL PHASE C LOAD (W): 7,137												
		TOTAL CONNECTED LOAD (W): 23,560												

① PROVIDE GFCI CIRCUIT BREAKER.

MAIN DISTRIBUTION PANEL "MDP"

VOLTAGE: 208Y/120V | PHASE: 3
BUS RATING (CU): 400 AMPS | WIRE: 4
MAINS: 400A MAIN LUGS ONLY | AIC: 42K

CKT NO	OVERCURRENT DEVICE (AMP) FRAME	TRIP	POLES	DESCRIPTION OF LOAD	REMARKS
1	125	100	3	EXISTING LOAD	PROVIDE NEW FEEDER AND CONDUIT
2	125	100	3	NEW PANEL "P1"	
3	125	125	3	EXISTING LOAD	PROVIDE NEW FEEDER AND CONDUIT
4	125	125	3	EXISTING LOAD	PROVIDE NEW FEEDER AND CONDUIT
5	125		3	SPACE	PROVIDE BUSSING AND PROVISIONS
6	125		3	SPACE	PROVIDE BUSSING AND PROVISIONS
7	125		3	SPACE	PROVIDE BUSSING AND PROVISIONS
8	125		3	SPACE	PROVIDE BUSSING AND PROVISIONS
9	100		3	SPACE	PROVIDE BUSSING AND PROVISIONS
10	100	60	3	NEW SURGE PROTECTIVE DEVICE	

PANEL SCHEDULE — LP

VOLT 208Y/120V | PHASE 3 | WIRE 4 | A.I.C. 42K | MAIN MLO | BUS 100A | FEED EXISTING | MOUNT SURFACE

CKT NO	SERVICE DESCRIPTION	BKR	POLES	ABC	BKR	POLES	SERVICE DESCRIPTION	CKT NO
1	EXISTING LOAD	15	1		15	1	EXISTING LOAD	2
3	EXISTING LOAD	20	1		20	1	EXISTING LOAD	4
5	EXISTING LOAD	20	1		20	1	EXISTING LOAD	6
7	EXISTING LOAD	20	1		20	1	EXISTING LOAD	8
9	EXISTING LOAD	20	1		20	1	EXISTING LOAD	10
11	EXISTING LOAD	20	1		20	1	EXISTING LOAD	12
13	EXISTING LOAD	20	1		20	1	EXISTING LOAD	14
15	EXISTING LOAD	20	1		20	1	EXISTING LOAD	16
17	EXISTING LOAD	20	1		20	1	EXISTING LOAD	18
19	EXISTING LOAD	20	1		20	1	EXISTING LOAD	20
21	EXISTING LOAD	20	1		20	1	EXISTING LOAD	22
23	EXISTING LOAD	20	1		20	1	EXISTING LOAD	24
25	EXISTING LOAD	20	1		20	1	EXISTING LOAD	26
27	EXISTING LOAD	20	2		20	2	EXISTING LOAD	28
29								30
31	SPARE	20	1		20	1	SPARE	32
33	SPARE	20	1		20	1	SPARE	34
35	SPACE		1			1	SPACE	36
37	SPACE		1			1	SPACE	38
39	SPACE		1			1	SPACE	40
41	SPACE		1			1	SPACE	42

PANEL SCHEDULE — PP

VOLT 208Y/120V | PHASE 3 | WIRE 4 | A.I.C. 42K | MAIN MLO | BUS 125A | FEED EXISTING | MOUNT SURFACE

CKT NO	SERVICE DESCRIPTION	BKR	POLES	ABC	BKR	POLES	SERVICE DESCRIPTION	CKT NO
1	EXISTING LOAD	20	1		20	1	EXISTING LOAD	2
3	EXISTING LOAD	20	1		20	1	EXISTING LOAD	4
5	EXISTING LOAD	20	1		20	1	EXISTING LOAD	6
7	EXISTING LOAD	20	1		20	1	EXISTING LOAD	8
9	EXISTING LOAD	20	1		20	1	EXISTING LOAD	10
11	EXISTING LOAD	20	1		20	1	EXISTING LOAD	12
13	EXISTING LOAD	20	1		20	1	EXISTING LOAD	14
15	EXISTING LOAD	20	1		20	1	EXISTING LOAD	16
17	EXISTING LOAD	20	1		20	1	EXISTING LOAD	18
19	EXISTING LOAD	20	1		20	1	EXISTING LOAD	20
21	EXISTING LOAD	20	1		20	1	EXISTING LOAD	22
23	EXISTING LOAD	20	1		20	1	EXISTING LOAD	24
25	EXISTING LOAD	20	1		20	1	EXISTING LOAD	26
27	EXISTING LOAD	20	1		20	1	EXISTING LOAD	28
29	EXISTING LOAD	15	1		20	1	EXISTING LOAD	30
31	EXISTING LOAD	15	1		20	1	EXISTING LOAD	32
33	EXISTING LOAD	15	1		20	1	EXISTING LOAD	34
35	EXISTING LOAD	15	1		20	1	EXISTING LOAD	36
37	SPARE	20	1		20	1	SPARE	38
39	SPARE	20	1		20	1	SPARE	40
41	SPACE		1			1	SPACE	42

PANEL SCHEDULE — HP

VOLT 208Y/120V | PHASE 3 | WIRE 4 | A.I.C. 42K | MAIN MLO | BUS 225A | FEED EXISTING | MOUNT SURFACE

CKT NO	SERVICE DESCRIPTION	BKR	POLES	ABC	BKR	POLES	SERVICE DESCRIPTION	CKT NO
1								2
3	EXISTING LOAD	70	3		100	3	EXISTING LOAD	4
5								6
7	SPARE	20	1		30	2	EXISTING LOAD	8
9	SPARE	20	1					10
11	SPARE	20	1		30	2	EXISTING LOAD	12
13								14
15	EXISTING LOAD	50	2		50	2	EXISTING LOAD	16
17								18
19	EXISTING LOAD	20	2		20	2	EXISTING LOAD	20
①② 21	GATE OPERATOR (ENTRY)	20	1					22
①② 23	GATE OPERATOR (EXIT)	20	1		20	1	SPARE	24
25	SPACE		1			1	SPACE	26
27	SPACE		1			1	SPACE	28
29	SPACE		1			1	SPACE	30
31	SPACE		1			1	SPACE	32
33	SPACE		1			1	SPACE	34
35	SPACE		1			1	SPACE	36
37	SPACE		1			1	SPACE	38
39	SPACE		1			1	SPACE	40
41	SPACE		1			1	SPACE	42

① PROVIDE GFCI CIRCUIT BREAKER
② PROVIDE SURGE PROTECTIVE DEVICE EQUAL TO DITEK #DTK-120SLR.

Certification

COMMONWEALTH OF MASSACHUSETTS — DANIEL J. CARROLL — ELECTRICAL — NO. 41456 — REGISTERED PROFESSIONAL ENGINEER

Drawn by SD

Checked by DC

Revised on

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Project

DEDHAM-WESTWOOD WATER DISTRICT

STORAGE FACILITY

50 ELM STREET
DEDHAM, MA 02026

Drawing Status

100% CONSTRUCTION DOCUMENTS

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Sheet Contents

ELECTRICAL RISER DIAGRAM AND PANELBOARD SCHEDULE

Project Number. 6790

Drawing No. E300

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