11/14/2019 11:35:59 AM

# MARIN ACADEMY AQUATIC CENTER

## SAN RAFAEL
## ZONING APPLICATION

NOVEMBER 13TH, 2019



## VICINITY MAP




## PROJECT TEAM

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## PROJECT DATA

PROJECT LOCATION:
SAN RAFEAL, CA

APPLICABLE CODES (BASIS OF DESIGN):
CODE REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, CBSC
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, CBSC
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, CBSC
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, CBSC
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, CBSC
2016 CALIFORNIA ENERGY CODE (CPC), PART 6, CBSC
2016 CALIFORNIA FIRE CODE, PART 9, CBSC
2016 CALIFORNIA REFERENCED STANDARDS, PART 12, CBSC
TITLE 8 C.C.R., CH. 4, SUB-CH. 6-ELEVATOR SAFETY ORDERS
TITLE 19 C.C.R., PUBLIC SAFETY, SFM REGULATIONS

APPLICABLE FEDERAL CODES & STANDARDS:
TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS)

OCCUPANCY CLASSIFICATION & TYPE OF CONSTRUCTION:
OCCUPANCY TYPE GROUP A-5 AND S, CONSTRUCTION TYPE VB

ZONING
FIFTH/MISSION RESIDENTAIL/OFFICE DISTRIC (5/M R/O)

MIN. LOT AREA 6,000 SQ FT
FAR: 0.5

FRONT SETBACK: NR -15 FT
(C) IN THE 5/M R/O DISTRICT WEST OF "E" STREET, THE MINIMUM FRONT YARD SETBACK SHALL BE FIFTEEN FEET (15') OR THE AVERAGE OF IMPROVED LOTS ON BOTH SIDES OF THE STREET FOR THE LENGTH OF THE BLOCK, WHICHEVER IS LESS, EXCEPT THAT ON FIFTH AVENUE EAST OF "E" STREET THERE SHALL BE NO MINIMUM FRONT YARD SETBACK.

SIDE SETBACK: NR
STREET SIDE SETBACK: NR
REAR SETBACK: NR
MAX. HEIGHT OF STRUCTURE: 36 FT
MAX. LOT COVERAGE: NR
MIN. LANDSCAPING: 10%

## SHEET INDEX

General

| | |
|---|---|
| G0.00A | COVER SHEET AND INDEX |
| G0.01 | ARCHITECTURAL ABBREVIATIONS AND SYMBOLS |
| G0.02 | ARCHITECTURAL SYMBOLS & GENERAL NOTES |
| G0.06 | RENDERING |
| G0.08 | SIGNAGE |
| G0.09 | SIGNAGE |
| G0.11 | SITE SURVEY - INDEX |
| G0.12 | SITE SURVEY - 1540 FIFTH AVENUE |
| G0.13 | SITE SURVEY - 1530/1534 FIFTH AVENUE |
| G0.14 | SITE SURVEY - 1526 FIFTH AVENUE |
| G0.15 | SITE SURVEY - EXISTING POOL |
| G1.01A | CODE ANALYSIS |
| G1.01B | CODE ANALYSIS |
| G1.02A | ACCESSIBILITY SITE PLAN |
| G1.02B | ACCESSBILITY PLANS |
| G1.03A | FIRE LIFE SAFETY SITE PLAN |
| G1.03B | FIRE LIFE SAFETY PLANS |
| G3.01 | ACCESSIBLE MOUNTING HEIGHTS |
| G3.02 | ACCESSIBLE MOUNTING HEIGHTS |

Civil

| | |
|---|---|
| C0.00 | COVER |
| C0.10 | DEMOLITION PLAN |
| C1.00 | SITE IMPROVEMENT PLAN |
| C2.00 | GRADING AND DRAINAGE |
| C2.01 | STORMWATER MANAGEMENT PLAN |
| C2.02 | STORMWATER MANAGEMENT PLAN |
| C2.10 | EARTHWORK ANALYSIS |
| C2.20 | UTILITY LAYOUT |
| C3.00 | DETAILS |
| C3.10 | DETAILS |
| C4.00 | EROSION CONTROL PLAN |
| C4.10 | EROSION CONTROL DETAILS |

Landscape

| | |
|---|---|
| L1.00A | LANDSCAPE PLAN |
| L1.00B | LANDSCAPE PLANTING PLAN |
| L1.00C | PLANT IMAGES |
| L1.00D | LANDSCAPE ELEVATION |
| L1.00E | LANDSCAPE ELEVATION |
| L1.01 | LAYOUT PLAN |
| L1.02 | DETAIL KEY AND PAVING PLAN |
| L2.01 | GRADING PLAN |
| L4.01 | PLANTING PLAN |
| L4.02 | PLANTING DETAILS |
| L5.01 | LANDSCAPE DETAILS |
| L5.02 | LANDSCAPE DETAILS |

Architectural

| | |
|---|---|
| A0.11 | SITE PLAN |
| A0.12 | FENCE INTERIOR ELEVATION |
| A0.20 | FINISH SCHEDULE |
| A0.30 | DOOR SCHEDULE |
| A2.01 | GROUND FLOOR PLAN |
| A2.01S | SLAB PLANS |
| A2.02 | MISSION AVE FLOOR PLAN |
| A2.03 | ROOF PLAN |
| A2.21 | FINISH PLAN - GROUND LEVEL |
| A2.22 | FINISH PLAN - MISSION LEVEL |
| A3.01 | BUILDING ELEVATIONS |
| A3.11 | BUILDING SECTIONS |
| A3.12 | BUILDING SECTIONS |
| A6.01 | REFLECTED CEILING PLAN |
| A7.01 | STAIR 1 AND 2 PLANS |
| A7.02 | STAIR 1 AND 2 SECTIONS |
| A7.03 | STAIR 3 PLANS AND SECTION |

Structural

| | |
|---|---|
| S001 | GENERAL NOTES |
| S002 | GENERAL NOTES |
| S003 | GENERAL NOTES |
| S200 | LEVEL 1 AND MISSION AVE. PLANS |
| S201 | ROOF DECK AND HIGH ROOF PLANS |
| S400 | BUILDING CROSS SECTIONS |
| S401 | BUILDING CROSS SECTIONS |
| S402 | ELEVATIONS |
| S700 | STAIR ELEVATION AND DETAIL |

Mechanical

| | |
|---|---|
| M001 | LEGEND, SYMBOLS, ABBR...,NOTES AND SCHEDULES |
| M002 | MECHANICAL SCHEDULES |
| M101 | PARTIAL LEVEL 1 FLOOR PLAN - MECHANICAL |
| M102 | PARTIAL ROOF PLAN MECHANICAL |
| M301 | SECTIONS |

Plumbing

| | |
|---|---|
| P001 | LEGEND, NOTES, ABBR... DRAWING INDEX, SCHEDULES |
| P002 | PLUMBING SCHEDULES |
| P200 | PLUMBING UNDERGROUND PLAN |
| P201 | PLUMIBING LEVEL 1 PLAN |
| P202 | PLUMBING ROOF PLAN |

FIRE PROTECTION

| | |
|---|---|
| F201 | FIRE PROTECTION - LEVEL 1 PLAN |

Electrical

| | |
|---|---|
| E001 | SYMBOL, LEGEND, NOTES, ABBR... DRAWING INDEX |
| E002 | SINGLE LINE DIAGRAM, SCHEDULES |
| E003 | EXTERIOR PHOTOMETRIC |
| E100 | SITE PLAN - DEMOLITION |
| E200 | SITE PLAN - NEW |
| E201 | LEVEL 1 FLOOR PLANS - LIGHTING POWER & SIGNAL |
| E202 | ROOF DECK PLAN - LIGHTING, POWER & SIGNAL |
| E301 | LIGHTING FIXTURE SCHEDULE |

Swimming Pool

| | |
|---|---|
| DP.1 | SWIMMING POOL DECK PLAN |
| SP.1 | SWIMMING POOL LAYOUT PLAN |
| SP.2 | SWIMMING POOL PIPING PLAN |
| SP.3 | SWIMMING POOL UNDERWATER LIGHT/TIMING SYSTEM PLAN |
| SP.4 | SWIMMING POOL SECTIONS |
| SP.5 | DETAILS |
| SP.6 | DETAILS |
| SP.7 | DETAILS |
| SP.8 | DETAILS |
| SP.9 | DETAILS |
| SP.10 | DETAILS |
| SP.11 | DETAILS |
| SP.12 | DETAILS |
| SP.13 | DETAILS |
| SP.14 | DETAILS |
| SP.15 | DETAILS |

Grand total: 104

**MARIN ACADEMY AQUATIC CENTER**
MARIN ACADEMY
1600 MISSION AVE,
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CALIFORNIA 94901

ehdd.

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Stamp

LICENSED ARCHITECT
TILRTON S SHELL
No.C26397
Ren. 5-31-21
STATE OF CALIFORNIA

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| No. | Revisions | Date |
|---|---|---|
| | | |

Scale
**12" = 1'-0"**

Drawn by
**Author**

EHDD Job Number
**17067**

Sheet Title

**COVER SHEET AND INDEX**

Sheet Number

**G0.00A**

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# ARCHITECTURAL ABBREVIATIONS

NOTE:
1. Not all abbreviations listed below appear in the documents
2. Abbreviations apply whether or not they contain periods
3. Definitions for abbreviations for particular drawings may appear on those drawings. Abbreviations for engineering drawings may appear on the general information sheets for those discipines.

&.....And
°.....Angle in Degrees
∠.....Angle
@.....At
X.....By
C.....Centerline
ø.....Diameter or Round
(E).....Existing
(N).....New
P.....Plate
%.....Percent
#.....Pound or Number
ℙ.....Property Line
².....Square

A.C.....Air Conditioning
A/V.....Audio Visual
AB.....Anchor Bolt
ABRSV.....Abrasive
ABV.....Above
ACC.....Accessible
ACOUS.....Acoustic (al)
ACP.....Acoustical Concrete Paving
ACU.....Air Conditioning Unit
AWT.....Acoustical Wall Treatment
AD.....Access Door
AD.....Area Drain
ADC.....Automatic Door Closer
ADDL.....Additional
ADH.....Adhesive
ADJ.....Adjustable
ADJC.....Adjacent
AFF.....Above Finish Floor
AFG.....Above Finished Grade
AFS.....Above Finished Slab
AGGR.....Aggregate
AHR.....Anchor
AHU.....Air Handling Unit
AL.....Aluminum
ALM.....Alarm
ALT.....Alternate
AMT.....Amount
ANN.....Annunciator
ANOD.....Anodized
ANT.....Antenna
AP.....Access Panel
APPROX.....Approximate (ly)
ARCH.....Architect (ural)
ASPH.....Asphalt
ASSN.....Association
ASSY.....Assembly
AC.....Acoustic Ceiling
ATCH.....Attachment
AWG.....American Wire Gage

B.O.F.....Bottom of Footing
B.U.....Built Up
B.U.R.....Built Up Roof
BB.....Bulletin Board
BC.....Bridge Clip
BD.....Board
BETW.....Between
BEV.....Bevel
BITUM.....Bituminous
BLDG.....Building
BLKG.....Blocking
BLW.....Below
BM.....Beam
BM.....Bench Mark
BOT.....Bottom
BP.....Base Plate
BRDG.....Bridging
BRG.....Bearing
BRKT.....Bracket
BRS.....Brass
BRZ.....Bronze
BS.....Both Sides
BSMT.....Basement

C.....Civil
CAB.....Cabinet
CPT.....Carpet
CAV.....Cavity
C.B.....Catch Basin
CEM.....Cement
CER.....Ceramic
CFM.....Cubic Foot per Minute
CFLG.....Counter Flashing
C & G.....Curb and Gutter
C.G.....Corner Guard
C.H.....Ceiling Height
CHAN.....Channel
CHFR.....Chamfer
CHK BD.....Chalk Board
CIP.....Cast-in-Place
CJ.....Construction Joint
CL.....Center Line
CLG.....Ceiling
CLJ.....Control Joint
CLO.....Closet
CLR.....Clear
CMPST.....Composite
CMU.....Concrete Masonry Unit
CNR.....Corner
CNTR.....Counter
CO.....Cased Opening
C.O.....Clean Out
COL.....Column
COMB.....Combination
COMP.....Compact
COMPL.....Compliance
COMPT.....Compartment
CONC.....Concrete
CONF.....Conference
CONN.....Connection
CONSTR.....Construction
CONT.....Continuous (ation)
CONTR.....Contract (or)
COORD.....Coordinate
CORR.....Corridor
COV PL.....Cover Plate
C.P.....Control Panel
CPT.....Carpet
CRC.....Cold Rolled Channel
CRL.....Carrel
CS.....Cast Stone
C.S.B.....Concrete Splash Block
CSMT.....Casement
CSWK.....Casework
CT.....Ceramic Tile
CTD & R.....Combination Towel Dispenser & Receptacle
CTR.....Center
CTSK.....Countersunk
CU.....Cubic
CUB.....Cubicle
CYL L.....Cylinder Lock

(D).....Demolish
D.....Depth
D.A.....Drainage Area
D.CL.....Door Closer
D.F.....Douglas Fir
D.H.....Double Hung
DBL.....Double
DIA.....Diameter
DEG.....Degree
DEMO.....Demolition
DEPT.....Department
DET.....Detail
DF.....Drinking Fountain
DFR.....Door Frame
DIF.....Difference
DIFF.....Diffuser
DIM.....Dimension
DISP.....Dispenser
DIST.....Distance
DIV.....Divider
DLV.....Door Louver
DMPF.....Dampproofing
DMPR.....Damper
DN.....Down
DOP.....Door Opening
DR.....Door
DS.....Downspout
DSP.....Dry Standpipe
DST.....Door Stop
DT.....Drain Tile
DUPL.....Duplicate
DWG.....Drawing
DWR.....Drawer

(E).....Existing
E.....East
E.....Electrical
EA.....Each
EDF.....Electric Drinking Fountain
EF.....Electric Fan
EJ.....Expansion Joint
EL.....Elevation
ELAST.....Elastometric
ELEC.....Electrical
ELEV.....Elevator
EMER.....Emergency
EMP.....Electrical Metallic Tubing
ENAM.....Enamel
ENCL.....Enclosure
ENGR.....Engineer
EO.....Electrical Outlet
E.O.S.....Edge of Slab
EP.....Electrical Panel
EQ.....Equal
EQPT.....Equipment
EQUIV.....Equivalent
ERECT.....Erection
ESMT.....Easement
EST.....Estimate
ETR.....Existing to Remain
EWC.....Electric Water Cooler
EXC.....Excavate
EXIST.....Existing
EXP BT.....Expansion Bolt
EXP.....Expanded/Expansion
EXP JT.....Expansion Joint
EXT.....Exterior
EXTN.....Extension
EXTR.....Extrusion, Extruded

F/.....From
F&F.....Furniture and Furnishings
FA.....Fire Alarm
FBD.....Fiberboard
FD.....Floor Drain
FDMPR.....Fire Damper
FDN.....Foundation
FEC.....Fire Extinguisher Cabinet
FEXT.....Fire Extinguisher
FF.....Finish Floor
FGL.....Fiberglass
FH.....Fire Hose
FHC.....Fire Hose Cabinet
FHCS.....Flat Head Counter Sunk
F.H.V.E.C.....Fire Hose Valve and Extinguisher Cabinet
F.H.W.S.....Flat Head Wood Screw
FIN.....Finish
FIN.FL.....Finish Floor
FIN GR.....Finish Grade
FIXT.....Fixture
FL.....Floor
FLDG.....Folding
FLR.....Floor (ing)
FLUOR.....Fluorescent
FOC.....Face of Concrete
FOF.....Face of Finish
FOM.....Face of Masonry
FOS.....Face of Studs
FOSTL.....Face of Steel
FPRF.....Fireproofing
FR.....Fire Rating
FRP.....Fiber Reinforced Panel
F.R.P.T.....Fire Retardant Pressure Treated
F.R.T.....Fire Retardant Treated
FS.....Far Side
F.S.....Full Size
FSH.....Fire Sprinkler Head
FSP.....Fire Standpipe
FSTNR.....Fastener
F.T.....Fire Treated
FT.....Foot or Feet
FTG.....Footing
FURN.....Furniture
FURR.....Furring
FUT.....Future
F.V.C.....Fire Hose Valve Cabinet
FXTR.....Fixture

GA.....Gage or Gauge
GAL.....Gallon
GALV.....Galvanized
GB.....Grab Bar
GDR.....Guard Rail
GEN.....Generator
GENL.....General
G.F.R.C.....Glass Fiber Reinforced Concrete
GL.....Glass
GMKD.....Grand Master Keyed
GND.....Ground
GOVT.....Government
GP.....Gypsum Plaster
GR.....Grade (e)(ing)
GR.LN.....Grade Line
GRL.....Grille
GRP.....Group
GSKT.....Gasket
GRTG.....Grating
GSM.....Galvanized Sheet Metal
GT.....Grout
GUT.....Gutter
GV.....Gravity Vent
GWB.....Gypsum Wall Board
GYP BD.....Gypsum Board
GYP.....Gypsum
GYP PLAS.....Gypsum Plaster

H PLAM.....High Pressure Laminate
HB.....Hose Bib
HCMU.....Hollow Concrete Masonry Unit
HD.....Hand
H.D.....Hand Dryer
HDR.....Header
HDWD.....Hardwood
HDWE.....Hardware
HGR.....Hanger
HM.....Hollow Metal
H.M.D.....Hollow Metal Door
H.M.F.....Hollow Metal Frame
HNDRL.....Hand Rail
HO.....Hold-Open
HORIZ.....Horizontal
HR.....Hour
H.S.B.....High Strength Bolt
HT.....Height
HTG.....Heating
HTR.....Heater
HV.....Hose Valve
HVAC.....Heating, Ventilation and Air Conditioning
HYDR.....Hydraulic

ID.....Inside Diameter
IN.....Inch, Inches
INC.....Inside Corner
INCAND.....Incandescent
INDL.....Industrial
INFO.....Information
INL.....Inlet
INSTL.....Installation
INSUL.....Insulation
INSUL PNL.....Insulated Panel
INT.....Interior
INV.....Invert

JAN.....Janitor
J.B.....Junction Box
JST.....Joist
JT.....Joint

KD.....Kiln Dried
KO.....Knockout
K.O.P.....Knockout Panel
KPL.....Kick Plate

L.....Length
LAB.....Laboratory
LAM.....Lamination
LATL.....Lateral
LAV.....Lavatory
LB.....Pound
LBR.....Lumber
LD.....Linear Diffuser
LDG.....Landing
LDR.....Leader
LF.....Linear Foot
LG.....Length
LH.....Left Hand
LIB.....Library
LIN.....Linear
LIQ.....Liquid
LKR.....Locker
LL.....Live Load
LOC.....Location
LONG.....Longitudinal
LT.....Light
LT. WT.....Light Weight
LTG.....Lighting
LTG. PNL.....Lighting Panel
LVR.....Louver
LW PLAST.....Lightweight Plaster

M.B.....Machine Bolt
MAC RM.....Machine Room
MAINT.....Maintenance
MAN.....Manual
MAS.....Masonry
MATL.....Material
MAX.....Maximum
M.B.H.....Mop/Broom Holder
MECH.....Mechanical
MEP.....Mechanical/Electrical/Plumbing
MEMB.....Membrane
MTL.....Metal
MEZZ.....Mezzanine
MFR.....Manufacturer
MH.....Manhole
MIN.....Minimum
MIR.....Mirror
MISC.....Miscellaneous
MLDG.....Molding
M.O.....Masonry Opening
MOD.....Module (ar)
MTD.....Mounted
MTG.....Mounting
MULT.....Multiple
MWP.....Membrane Waterproofing

N.....North
NA.....Not Applicable
NIC.....Not in Contract
NPRN.....Neoprene
NO.....Number
NOM.....Nominal
NTS.....Not to Scale

O/.....Over
OA.....Overall
O.C.....On Center
OD.....Outside Diameter
OFCI...Owner Furnished, Contractor Installed
OFOI.....Owner Furnished, Owner Installed
OFF.....Office
OPNG.....Opening
OPP.....Opposite
OPP HD.....Opposite Hand
OUC.....Outside Corner
OVC.....Over Current
OVFL.....Overflow
OVHD.....Overhead

PLBG.....Plumbing
PAR.....Parallel
PC, POLYCARB.....Polycarbonate
P.C. CON.....Pre-Cast Concrete
PCP.....Portland Cement Plaster
PED.....Pedestal
PERF.....Perforated
PERIM.....Perimeter
PERM.....Permanent
PERP.....Perpendicular
PL.....Plate
PI.P.....Poured-in-Place
PLAM.....Plastic Laminate
PLAS.....Plaster
PLYWD, PWD.....Plywood
PNL.....Panel
PT, PTD.....Paint
POL.....Polished
POLY.....Polyethylene
POS.....Positive
PREFAB.....Prefabricated
PREFIN.....Prefinished
PR.....Pair
PROJ.....Project
PROP.....Property
P.SH.....Purse Shelf
P.T.....Pressure Treated
PTN.....Partition
P.T.R.....Paper Towel Receptacle
PTD.....Paint
PV.....Photovoltaic
PVC.....Polyvinyl Chloride

QT.....Quart
QT.....Quarry Tile
QTR.....Quarter
QTY.....Quantity
QUAL.....Quality

R.....Riser
RAD.....Radius
RBR.....Rubber
RCP.....Reflected Ceiling Plan
R.D.....Roof Drain
REC.....Recessed
RECMD.....Recommend (ation)
REF.....Refer (ence)
REFR.....Refrigerator
REINF.....Reinforce (d) (ing) (ment)
REM.....Removable
REQD.....Required
REQMTS.....Requirements
RESIL.....Resilient
RFG.....Roofing
RGTR.....Register
RH.....Right Hand
RLG.....Railing
RM.....Room
RND.....Round
R.O.....Rough Opening
R.W.C.....Rain Water Conductor
R.W.L.....Rain Water Leader

S.....South
S.A.D.....See Architectural Drawings
SAN.....Sanitary
SASF.....Self Adhered Sheet Flashing
SAWDF..Self Adhered Window & Door Flashing
S.B.....Splash Block
SC.....Solid Core
S.C.D.....See Civil Drawings
SCHED.....Schedule
S.DET.....Smoke Detector
SD.....Storm Drain
SECT.....Section
S.E.D.....See Electrical Drawings
S.EX.D.....See Exhibit Drawings
SF.....Square Feet
SGL.....Single
SHT.....Sheet (ing)
SHV.....Shelves (ing)
SIM.....Similar
SL.....Slope
S.L.A.D.....See Landscape Drawings
SLV.....Sleeve
S.M.D.....See Mechanical Drawings
SMS.....Sheet Metal Screws
SND.....Sanitary Napkin Dispenser
SNR.....Sanitary Napkin Receptacle
SPC.....Suspended Plaster Ceiling
S.P.D.....See Plumbing Drawings
SPEC.....Specification
SPKLR.....Sprinkler
SPKR.....Speaker
SPLY.....Supply
SQ.....Square
SQ FT.....Square Foot
SQ IN.....Square Inch
SQ YD.....Square Yard
SS.....Sanitary Sewer
S.STL.....Stainless Steel
S.S.M.B.....Stainless Steel Machine Bolt
S.S.D.....See Structural Drawings
STA.....Station
STD.....Standard
STL.....Steel
STOR.....Storage
STRUCT.....Structure (al)
SURF.....Surface
SUSP.....Suspended
SUSP. CLG.....Suspended Ceiling
SVCE.....Service
SVCE.SK.....Service Sink
S.W.....Sidewalk
SYM.....Symbol
SYS.....System

T.....Tee
T.C.S.....Terne-Coated Stainless Steel
T.D.R.....Towel Dispenser/Receptacle
T&G.....Tongue and Groove
TEL.....Telephone
TEMP.....Temperature or Temporary
TER.....Terrazzo
THK.....Thickness
THRES.....Threshold
THRU.....Through
TK BD.....Tack Board
TMPD.....Tempered
T.O.....Top of
T.O.B.....Top of Beam
T.O.C.....Top of Curb
T.O.P.....Top of Pavement
T.O.Sl.....Top of Slab
T.O.S.....Top of Steel
T.O.W.....Top of Wall
TPH.....Toilet Paper Holder
TRANS.....Transparent
TRD.....Tread
TS.....Tube Steel
TV.....Television
TYP.....Typical

UFCI...Owner Furnished, Contractor Installed
UFUI.....Owner Furnished, Owner Installed
UNEX.....Unexcavated
UNFIN.....Unfinished
UON.....Unless Otherwise Noted
UTIL.....Utility

VAP.....Vapor
VAP.BAR.....Vapor Barrier
VAP PRF.....Vapor Proof
VAT.....Vinyl Asbestos Tile
VAV.....Variable Air Volume
VB.....Vinyl Base
VCT.....Vinyl Composition Tile
VDT.....Video Display Terminal
VENT.....Ventilator
V.E.J.....Vertical Expansion Joint
VERT.....Vertical
VEST.....Vestibule
VFAT.....Vinyl Faced Acoustic Tile
VIF.....Verify In Field
VIN.....Vinyl
VNR.....Veneer
VTR.....Vent through Roof
VWC.....Vinyl Wall Covering

W.....Water
W.....West
W.....Width
W/.....With
WO.....Where Occurs
W/O.....Without
W/D.....Washer/Dryer
WC.....Water Closet
WD.....Wood
WDW.....Window
W GL.....Wire Glass
W.H.....Wall Hung
WLD.....Welded
WP.....Waterproof (ing)
W.P.....Working Point
WP MEMB.....Waterproof Membrane
WR.....Water Resistant
WS.....Weatherstripping
WSCT.....Wainscot
WT.....Weight
WTRPRF.....Waterproofing
WSP.....Wet Stand Pipe

# ARCH FLOOR PLAN SYMBOLS

**DIMENSION SYMBOLS**

10' - 0" — DIMENSION SHOWN TO:
- STRUCTURAL GRID
- LAYOUT GRID
- GRID LINE TYPICAL

10' - 0" — DIMENSION SHOWN TO:
- CENTERLINE OF ASSEMBLY
- CENTER OF OPENING
- CENTER OF EQUIP/ FURN
- CENTER LINE TYPICAL

10' - 0" — DIMENSION SHOWN TO:
- PARTITION ASSEMBLY
- EDGE OF DOOR OPENING
- OTHER BUILDING ELEMENT
- WPT INDICATED ON DETAIL

**GENERAL SYMBOLS**

- BASE CABINETS
- BASE AND WALL CABINETS
- WALL CABINETS
- TOILET PARTITION AND DOOR
- HANDRAIL
- BUMPER GUARD
- CG CG — CORNER GUARD
- EG — EDGE GUARD
- OVERHEAD ITEMS
- UNDER-COUNTER ITEMS
- NIC — NOT-IN-CONTRACT ITEMS

- FEXT — FIRE EXTINGUISHER BRACKET MOUNTED
- FEC — FIRE EXTINGUISHER SURFACE MOUNTED
- FEC — FIRE EXTINGUISHER CABINET SEMI-RECESSED
- FEC — FIRE EXTINGUISHER CABINET RECESSED

**PLUMBING SYMBOLS**

- TOILET - WALL HUNG
- URINAL - FLOOR/WALL HUNG
- LAVATORY - COUNTERTOP
- LAVATORY - PEDESTAL/WALL HUNG
- UTILITY SINK
- DRINKING FOUNTAIN / EWC
- JANITOR'S RECEPTOR
- BATHTUB
- SHOWER
- FD — FLOOR DRAIN IN SLOPING FLOOR

# DOOR AND INTERIOR OPENINGS SYMBOLS

- 122 — DOOR OPENING MARK
- 122 — SINGLE OPENING DOOR
- 122 — DOUBLE ACTING DOOR
- 122 — PAIR DOORS - EQUAL SIZES
- 122 — PAIR DOORS - UNEQUAL SIZES
- 122 — PAIR DOORS - DOUBLE EGRESS
- 122 — DOOR WITH SIDE LIGHT
- 122 — SLIDING DOOR - BETWEEN JAMBS
- 122 — SLIDING POCKET DOOR
- 122 — 2 PANEL BI-FOLD DOOR
- 122 — PAIR - BI FOLD DOOR
- OVERHEAD ROLLING DOOR
- INTERIOR GLAZED WINDOW

# MARIN ACADEMY AQUATIC CENTER

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SAN RAFAEL
CALIFORNIA 94901


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LICENSED ARCHITECT — TIMOTHON S. SHELL — No.C26397 — Ren. 5-31-21 — STATE OF CALIFORNIA

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EHDD Job Number
**17067**

Sheet Title
**ARCHITECTURAL ABBREVIATIONS AND SYMBOLS**

Sheet Number
**G0.01**


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## ARCHITECTURAL REFERENCE SYMBOLS

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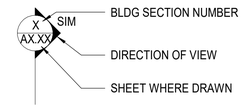
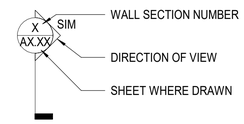



WALL SECTION

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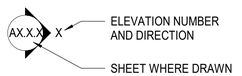
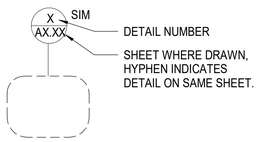



PLAN DETAIL REFERENCE

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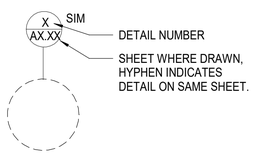


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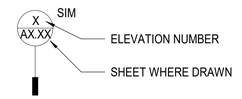
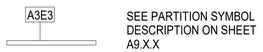


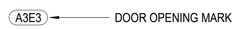

INTERIOR ELEVATION REFERENCE




PARTITION TYPE IDENTIFICATION MARK



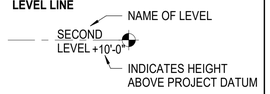

DOOR IDENTIFICATION MARK




WINDOW AND LOUVER TYPE MARK



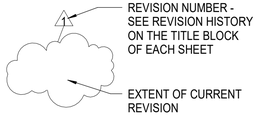

**LEVEL LINE**



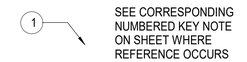

**ROOM NAME AND NUMBER**



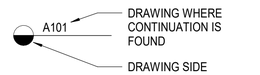

**REVISION NUMBER AND EXTENT**



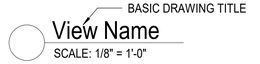

KEYED NOTE MARK



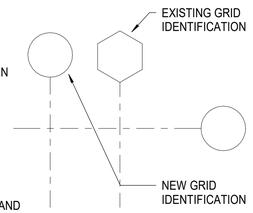

MATCH LINE REFERENCE




DRAWING TITLE SYMBOLS




LAYOUT GRID LINES




NORTH ARROW REFERENCE




## ARCHITECTURAL MATERIAL INDICATIONS

SECTION

- EARTH
- AGGREGATE BASE COURSE
- CONCRETE
- CONCRETE MASONRY UNIT
- BRICK MASONRY
- STEEL, STAINLESS STEEL
- ALUMINUM
- STONE
- SOLID SURFACE
- WOOD FRAMING - CONTINUOUS
- WOOD FRAMING - DISCONTINUOUS
- PLYWOOD
- WOOD
- RIGID INSULATION
- MINERAL FIBER INSULATION
- BATT INSULATION
- PLASTER, MORTAR, SAND, FIREPROOFING,
- GYPSUM BOARD
- COMPOSITE BOARD
- ACOUSTIC CEILING TILE
- ACOUSTIC PANEL
- BUILDING PAPER & FABRIC FLASHING
- EXPANDED METAL LATH
- WIRE MESH

ELEVATION - PLAN - RCP

- PLASTER
- VERTICAL GRAIN WOOD
- HORIZONTAL GRAIN WOOD
- STONE
- TERRAZZO
- GLASS
- PERFORATED METAL
- GYPSUM BOARD CEILING

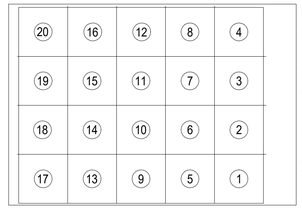
## ARCHITECTURAL GENERAL NOTES

1. THE FOLLOWING GENERAL NOTES APPLY TO ALL A-SERIES DRAWINGS.
2. FOR GENERAL NOTES APPLICABLE TO ALL DRAWINGS REFER TO THE "PROJECT GENERAL NOTES".
3. FOR NON A-SERIES GENERAL NOTES AND SYMBOLS REFER TO APPLICABLE DRAWINGS.
4. THE A-SERIES DRAWINGS ARE A PART OF A LARGER SET OF DRAWINGS. REVIEW AND COORDINATE THE WORK ALL ASPECTS OF THE CONTRACT DOCUMENTS.

## PROJECT GENERAL NOTES

1. VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCY OR VARIATION. DO NOT PROCEED WITH AFFECTED WORK UNTIL THE VARIATION OR DISCREPANCY IS RESOLVED.
2. DO NOT SCALE DRAWINGS. IF UNABLE TO LOCATE DIMENSIONS FOR ANY ITEM OF WORK, CONSULT ARCHITECT FOR DIRECTION BEFORE PROCEEDING.
3. PLAN DIMENSIONING: DIMENSIONS ARE TO:
   FACE OF INTERIOR GYPSUM BOARD
   FACE OF EXT. FINISH
   CENTER LINE OF COLUMN GRID
   FACE OF DOOR JAMBS
4. HEIGHTS SHOWN OR NOTED AFF (ABOVE FINISH FLOOR) ARE TO BE MEASURED FROM TOP OF FINISH FLOOR MATERIAL. EXCEPTIONS: AT AREAS THAT RECEIVE CARPET OR RESILIENT FLOORING, HEIGHTS ARE MEASURED FROM TOP OF CONCRETE.
5. IF DRAWING IS LESS THAN 30" X 42", IT HAS BEEN REDUCED FROM ORIGINAL.
6. DETAILS SHOWN ON DRAWINGS SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATED LOCATIONS WHETHER SPECIFICALLY REFERENCED AT EACH LOCATION OR NOT.
7. INSTALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS, AND OTHER SUPPORT FOR FIXTURES, EQUIPMENT, SHELVING AND CASEWORK.
8. PROVIDE GYPSUM WALL BOARD OR PLASTER BEHIND AND AROUND ALL OPENINGS INCLUDING WALL CABINETS, RECESSED FIRE HOSE VALVE AND FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS AND ELECTRICAL BOXES WHERE REQUIRED BY CODE TO MAINTAIN FIRE RATED CONSTRUCTION SHOWN ON DRAWINGS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL SUPERVISE ALL CUTTING AND PATCHING OF FINISHED WORK ALREADY INSTALLED IF MADE NECESSARY BY ERRORS, CHANGES, OR OTHER REASONS. ALL REPLACEMENT WORK SHALL MATCH ADJOINING SURFACES WITH NO VISIBLE MARKINGS OF REDO/REPAIR WORK.
10. FOR EQUIPMENT WEIGHING MORE THAN 400 LBS AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF STRUCTURE AND FOR TEMPORARY OR MOVABLE EQUIPMENT AND FOR EQUIPMENT WEIGHING MORE THAN 20 LBS THAT IS SUPPORTED BY VIBRATION DEVICES SUSPENDED FROM THE ROOF, WALL OR FLOOR ANCHORAGE MUST BE ENGINEERED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA TO MEET CCR TITLE 24 PART 2. COORDINATE WITH STRUCTURAI DWGS
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL SUPPORTS, ANCHORS, CLIPS, FASTENERS, BRACES, AND REINFORCEMENTS FOR ALL ASSEMBLIES, SYSTEMS, FIXED EQUIPMENT, ACCESSORIES, AND SO FORTH, THAT ARE A PART OF THE STRUCTURAL SYSTEM, HAVE BEEN SHOWN, SPECIFIED, OR SIZED OR ARE REASONABLY REQUIRED TO COMPLETE THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ALSO PROVIDE CALCULATIONS FOR ALL SUCH ITEMS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
12. IF A DISCREPANCY EXISTS BETWEEN DRAWINGS, BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN THE SPECIFICATIONS, SUCH DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION OF SAID WORK. DO NOT PROCEED WITH AFFECTED WORK UNTIL THE VARIATION OR DISCREPANCY IS RESOLVED.
13. THE CONTRACTOR SHALL NOT FABRICATE OR INSTALL ANY WORK WHERE THEY HAVE REASONABLE KNOWLEDGE THAT THE CONTRACT DOCUMENTS MAY BE IN CONFLICT WITH APPLICABLE CODES OR INTERPRETATION OF THE AUTHORITY HAVING JURISDICTION. ANY SUCH INFORMATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT WHO SHALL ISSUE A RESOLUTION OF THE CONFLICT.
14. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQ**UIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER BEFORE PROCEEDING WITH THE WORK.**

## MODULAR LAYOUT DETAIL NUMBER

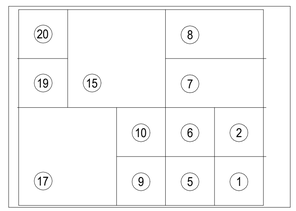



**DETAIL MODULE LAYOUT**

DETAILS ARE NUMBERED ACCORDING TO THEIR LOCATION ON EACH SHEET AND ARE NOT NUMBERED CONSECUTIVELY. EACH MODULE MAINTAINS THE NUMBER ASSOCIATED WITH IT

THIS SYSTEM CAN BE APPLIED TO ANY DRAWING THAT CONTAINS MULTIPLE IMAGES. THE IMAGES ARE NUMBERED ACCORDING TO THE MODULE SYSTEM SHOWN ILLUSTRATED TO THE LEFT

EACH DETAIL MAY OCCUPY ONE OR MORE WHOLE MODULES. THE DETAIL MODULE IS USED TO ESTABLISH THE IDENTIFYING LABEL FOR EACH DETAIL, NOT TO LIMIT THE SIZE OF THE DETAIL




**DETAIL NUMBERING EXAMPLE**

THE NUMBER OF THE MODULE WHICH OCCURS IN THE LOWER LEFT CORNER OF A SINGLE MODULE OR SEVERAL MODULES GROUPED TOGETHER WILL DEFINE THE FINAL DETAIL NUMBER AS SHOWN IN THE ILLUSTRATION TO THE LEFT. ALTHOUGH THE MODULE NUMBERS OCCUR IN CONSECUTIVE ORDER, NOT ALL NUMBERS ARE NECESSARILY USED ON EACH SHEET

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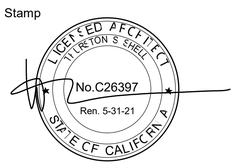


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|---|---|---|

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EHDD Job Number
**17067**

Sheet Title

**ARCHITECTURAL SYMBOLS & GENERAL NOTES**

Sheet Number

# G0.02

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EHDD Job Number
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## RENDERING

Sheet Number

# G0.06

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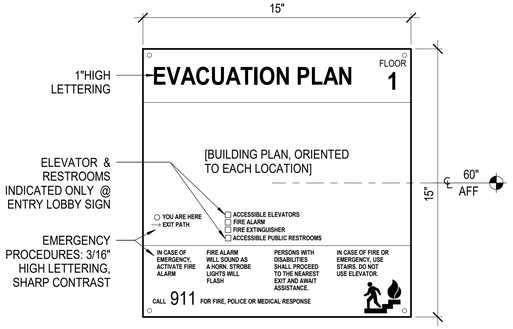
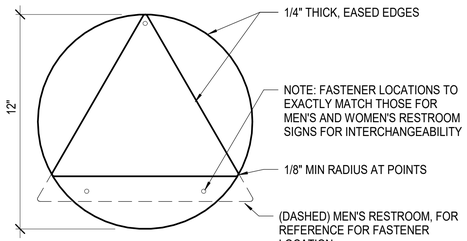



OCCURS AT ENTRY LOBBIES, ELEVATOR LANDINGS, AND ENTRANCE TO EXIT STAIRS

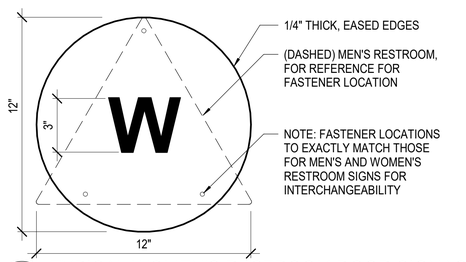
15 G0.08 TYPICAL EMERGENCY EVACUATION SIGNAGE 3"=1'-0"

APPLICABLE CODE:
CALIFORNIA CODE OF REGULATIONS, TITLE 19, FIRE MARSHAL SECTION 1.3.09
CBC 1007.10, 3002.3, 3003.2.1.1, CFC 607.2 (@ ELEVATORS)



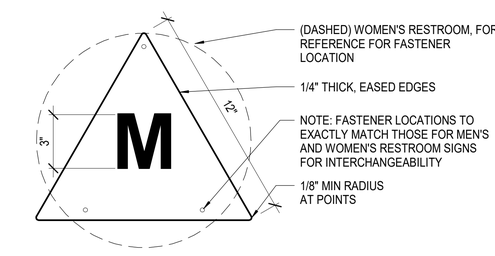

14C G0.08 TYPICAL UNISEX RESTROOM DOOR SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 11B-216.8; 11B-703.7.2.6




14B G0.08 TYPICAL WOMEN'S RESTROOM DOOR SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 11B-216.8; 11B-703.7.2.6




14A G0.08 TYPICAL MEN'S RESTROOM DOOR SIGNAGE 3"=1'-0"

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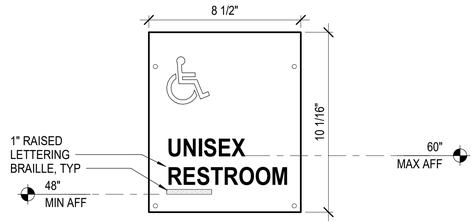


13C G0.08 TYPICAL UNISEX RESTROOM WALL SIGNAGE 3"=1'-0"

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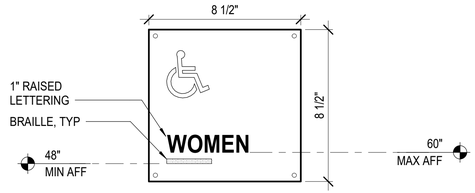


13B G0.08 TYPICAL WOMEN'S RESTROOM WALL SIGNAGE 3"=1'-0"

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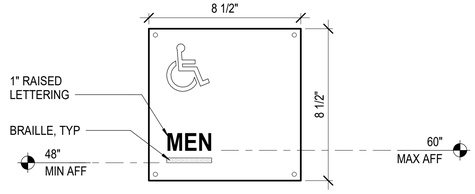


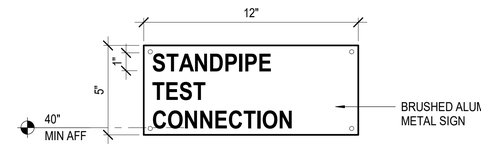

13A G0.08 TYPICAL MEN'S RESTROOM WALL SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 11B-216.8; 11B-703.1-5; 11B-703.2.1




12 G0.08 FIRE BELL EXTERIOR SIGN 3"=1'-0"

APPLICABLE CODE: CBC 11B-216.3; 11B-703.5




11 G0.08 FIRE DEPARTMENT CONNECTION SIGNAGE 3"=1'-0"

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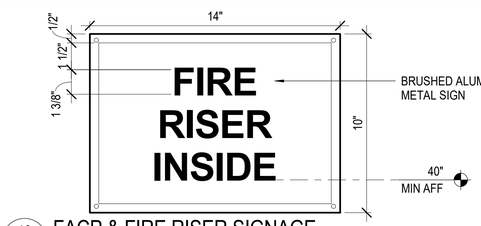
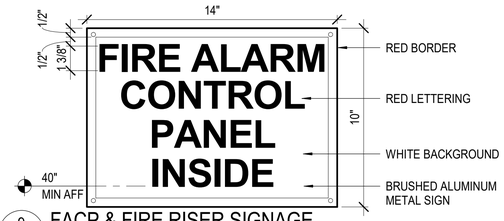


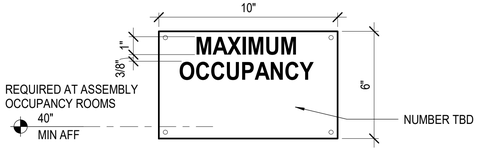

10 G0.08 FACP & FIRE RISER SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 914.2 11B-216.3; 11B-703.5



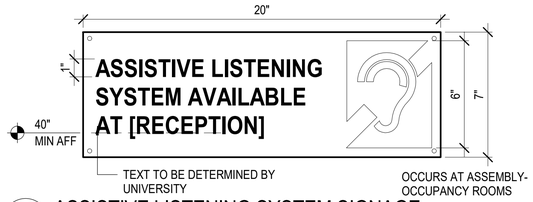

9 G0.08 FACP & FIRE RISER SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 914.2 11B-216.3; 11B-703.5



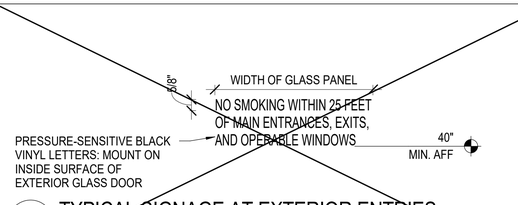

8 G0.08 OCCUPANT LOAD SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 1004.3 11B-216.3; 11B-703.5



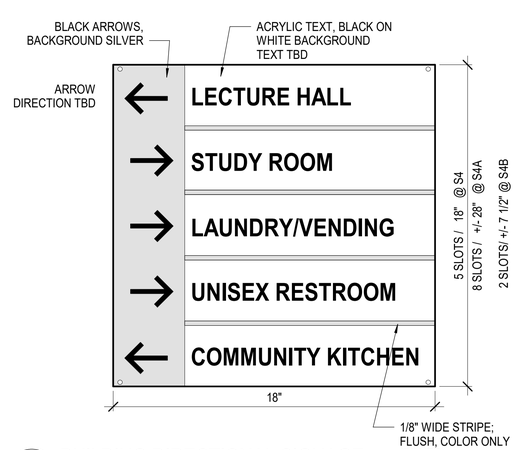

7 G0.08 ASSISTIVE LISTENING SYSTEM SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 11B-216.10; 11B-703.5; 11B-703.7.2.4



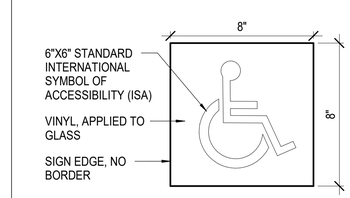

1 G0.08 PUBLIC ROOM NUMBER/NAME SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 914.2, 11B-216.2, 11B-703.1-5



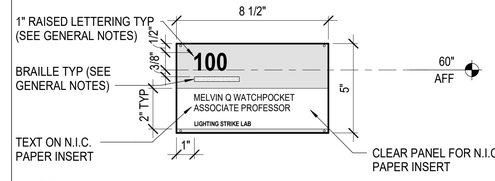

5/5A/5B G0.08 BUILDING DIRECTIONAL SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 11B-216.3, 11B-703.5; 11B-703.8



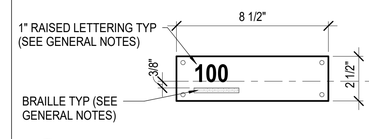

4 G0.08 TYPICAL SIGNAGE AT BUILDING ACCESSIBLE ENTRY 3"=1'-0"

APPLICABLE CODE: CBC 11B-216.6; 11B-703.7.2.1




3 G0.08 OFFICE ROOM NUMBER/NAME SIGNAGE 3"=1'-0"

APPLICABLE CODE: CBC 11B-216.3, 11B-703.1-5; 11B-703.8




2 G0.08 DORM BEDROOM NUMBER SIGNAGE 3"=1'-0"

APPLICABLE CODE: 11B-216.2, 11B-703.1-5

## GENERAL NOTES

1. SIGNAGE TO BE PROVIDED AT ALL LOCATIONS REQUIRED BY CODE.
2. CBC 2013, 11B.703.5.1. FINISH AND CONTRAST. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NONGLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT ON A DARK BAGROUND OR DARK ON A LIGHT BACKGROUND
3. CBC 11B-703.2 RAISED CHARACTERS: 1/32" RAISED LETTERING AND GRAPHICS, WHERE NOTED. LETTERING TO BE SANS SERIF FONT (SEE SPECIFICATIONS) WITH A HEIGHT MINIMUM OF 5/8" AND MAXIMUM 2", UON. CHARACTER STROKE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.
4. BRAILLE TO BE CONTRACTED (GRADE 2), INTEGRAL WITH SIGN, COLOR TO REMAIN CLEAR ACRYLIC. LOCATE 1/2" BELOW LETTERING, UON.
5. SIGNS TO BE PRE-DRILLED AT EACH CORNER TO RECEIVE COUNTERSUNK SCREWS, UON.
6. FOR TYPICAL MOUNTING HEIGHTS, SEE G0.07. MOUNTING HEIGHTS TO COMPLY WITH 2013 CBC.
7. SIGNS SHALL BE FIELD-INSPECTED PER CBC 11B-703.1.1.2.

# MARIN ACADEMY AQUATIC CENTER

MARIN ACADEMY
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CALIFORNIA 94901

ehdd.

*ARCHITECTURE INTERIORS*
*PLANNING URBAN DESIGN*

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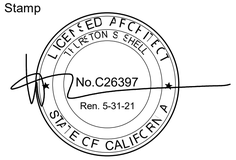
**SAN FRANCISCO**
**CALIFORNIA 94110**

**ARCH@EHDD.COM**
**T 415-285-9193**
**F 415-285-3866**

Consultant

Stamp

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| ZONING APPLICATION | 11.13.2019 |

| No. | Revisions | Date |
|---|---|---|

Scale
**3" = 1'-0"**

Drawn by
**Author**

EHDD Job Number
**17067**

Sheet Title
**SIGNAGE**

Sheet Number
**G0.08**

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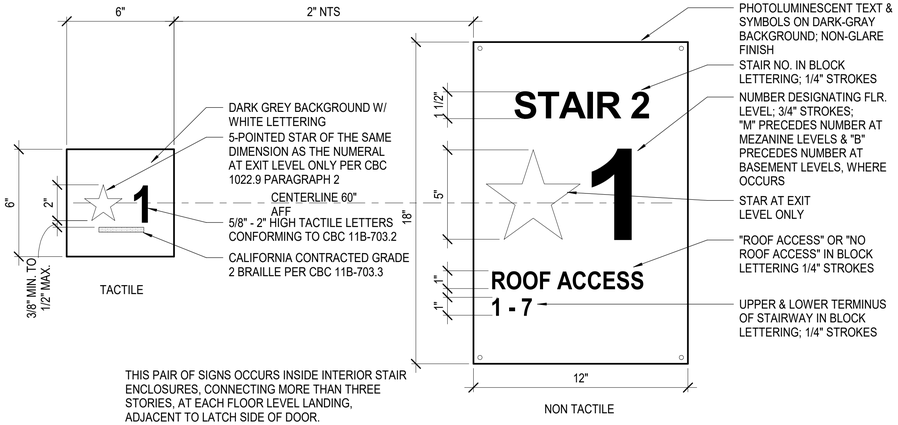
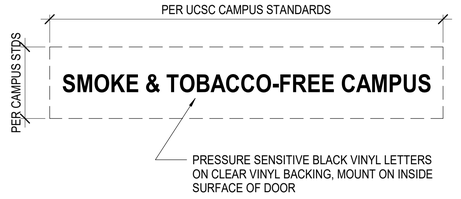
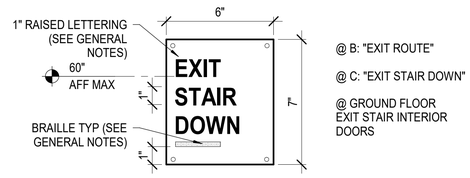



19A G0.09 SIGNAGE AT STAIRS
3"=1'-0"

APPLICABLE CODE: CBC 1022.9, 11B-216.4; 11B-703.1-5

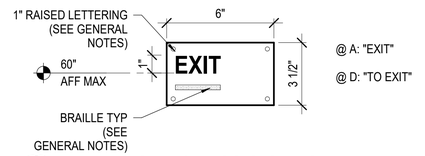



21 G0.09 SIGNAGE AT EXTERIOR ENTRIES
3"=1'-0"



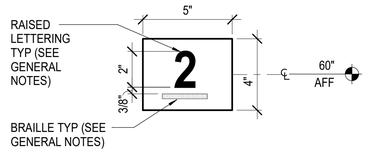

18B/18C G0.09 MEANS OF EGRESS SIGNAGE
3"=1'-0"

APPLICABLE CODE: CBC 1011.4; 11B-703.4




18A/18D G0.09 MEANS OF EGRESS SIGNAGE
3"=1'-0"

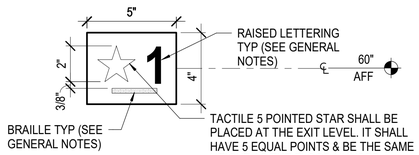
APPLICABLE CODE: CBC 1011.4; 11B-703.4




OCCURS @ BOTH JAMBS, VISIBLE FROM WITHIN ELEVATOR, TYPICAL LEVELS

20B G0.09 ELEVATOR FLOOR IDENTIFICATION
3"=1'-0"

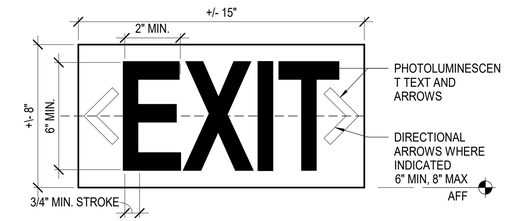
APPLICABLE CODE: CBC 11B-407.2.3




OCCURS @ BOTH JAMBS, VISIBLE FROM WITHIN ELEVATOR, GRADE LEVEL

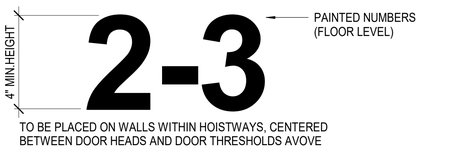
20A G0.09 ELEVATOR FLOOR IDENTIFICATION AT GRADE LEVEL
3"=1'-0"

APPLICABLE CODE: CBC 11B-407.2.3




17 G0.09 FLOOR LEVEL EXIT SIGN
3"=1'-0"

APPLICABLE CODE: CBC 1011.7




16 G0.09 ELEVATOR HOISTWAY FLOOR IDENTIFICATION
3"=1'-0"

APPLICABLE CODE: CBC 3003.2.1

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Stamp

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Ren. 5-31-21
STATE OF CALIFORNIA

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| No. | Revisions | Date |
|---|---|---|
| | | |

Scale
**3" = 1'-0"**

Drawn by
**Author**

EHDD Job Number
**17067**

Sheet Title
**SIGNAGE**

Sheet Number
**G0.09**

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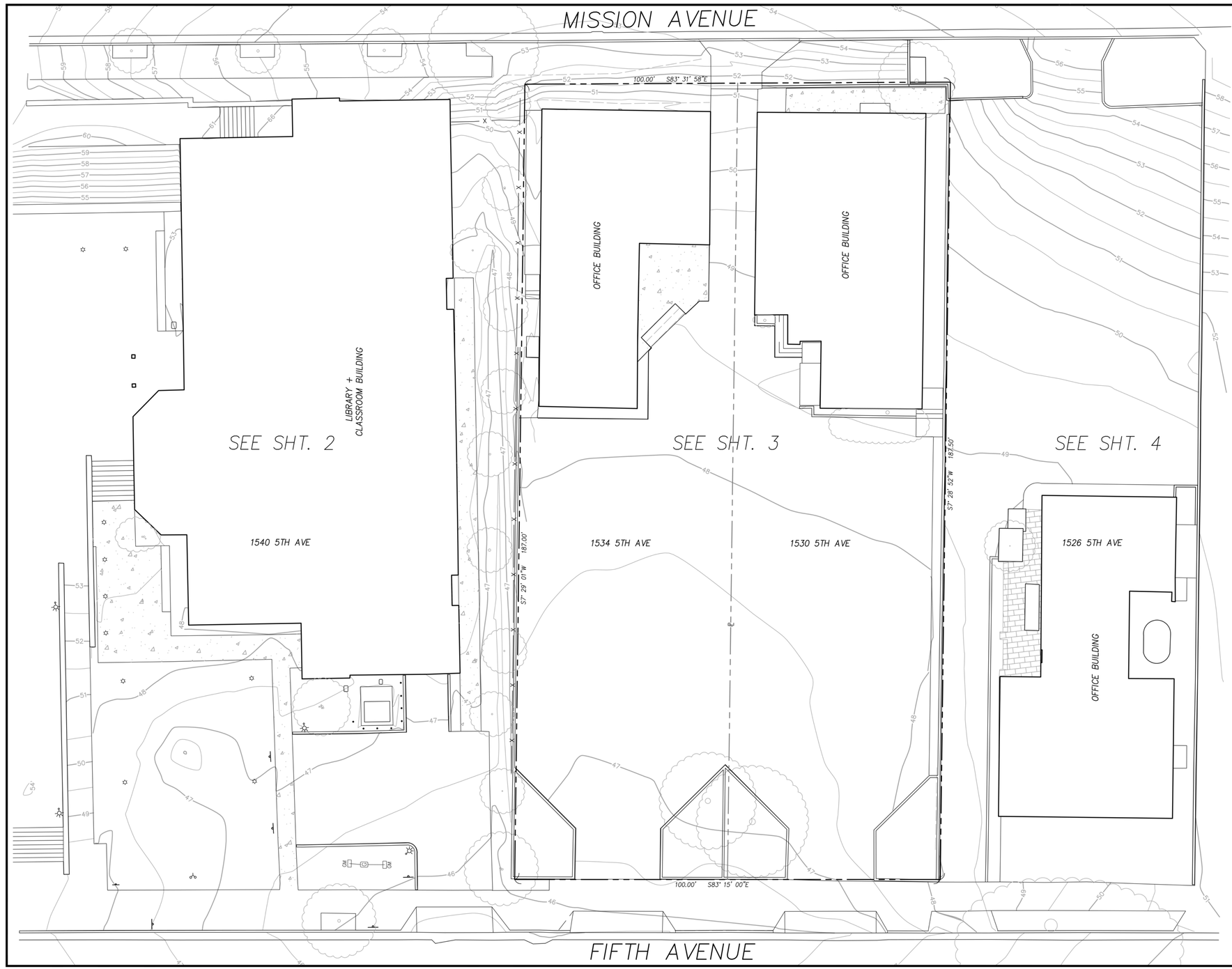
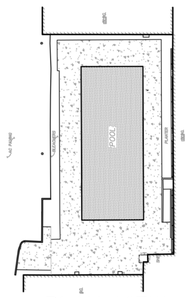
NOTE: SURVEY FOR REFERENCE ONLY




POOL SITE




PLAN VIEW
SCALE: 1"=30'

SEE SHEET 5 FOR EXISTING ON-CAMPUS POOL LOCATION

N

10' 5' 0' 10' 20'
GRAPHIC SCALE: 1"=10'

PLAN VIEW
SCALE: 1"=10'

## INDEX OF SHEETS


1. COVER SHEET
2. 1540 FIFTH AVENUE
3. 1534 & 1530 FIFTH AVENUE
4. 1526 FIFTH AVENUE
5. ON-CAMPUS POOL


REGISTERED PROFESSIONAL ENGINEER
LEON E. OBERKAMPER
No. 12094
CIVIL
STATE OF CALIFORNIA

OBERKAMPER & ASSOCIATES
CIVIL ENGINEERS INC.
7200 REDWOOD BLVD SUITE 308 NOVATO, CA 94945
PHONE (415) 897-2800
WWW.OBERKAMPER.COM

TOPOGRAPHIC SURVEY
1526 TO 1540 FIFTH AVENUE AND POOL
CITY OF SAN RAFAEL MARIN COUNTY CALIFORNIA

| Scale: | 1"=10' |
|---|---|
| Drawn by: | TGR |
| Field Crew: | WD,DS |
| Checked by: | JDC & LEO |
| Date: | SEPTEMBER 2018 |

SHEET 1 OF 5

18-120

# MARIN ACADEMY AQUATIC CENTER

MARIN ACADEMY
1600 MISSION AVE,
SAN RAFAEL
CALIFORNIA 94901

ehdd.

*ARCHITECTURE INTERIORS*
*PLANNING URBAN DESIGN*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Stamp

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TIMOTHY S. SHELL
No.C26397
Ren. 5-31-21
STATE OF CALIFORNIA

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| ZONING APPLICATION | 11.13.2019 |

| No. | Revisions | Date |
|---|---|---|
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Scale

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EHDD Job Number
**17067**

Sheet Title

**SITE SURVEY - INDEX**

Sheet Number

**G0.11**


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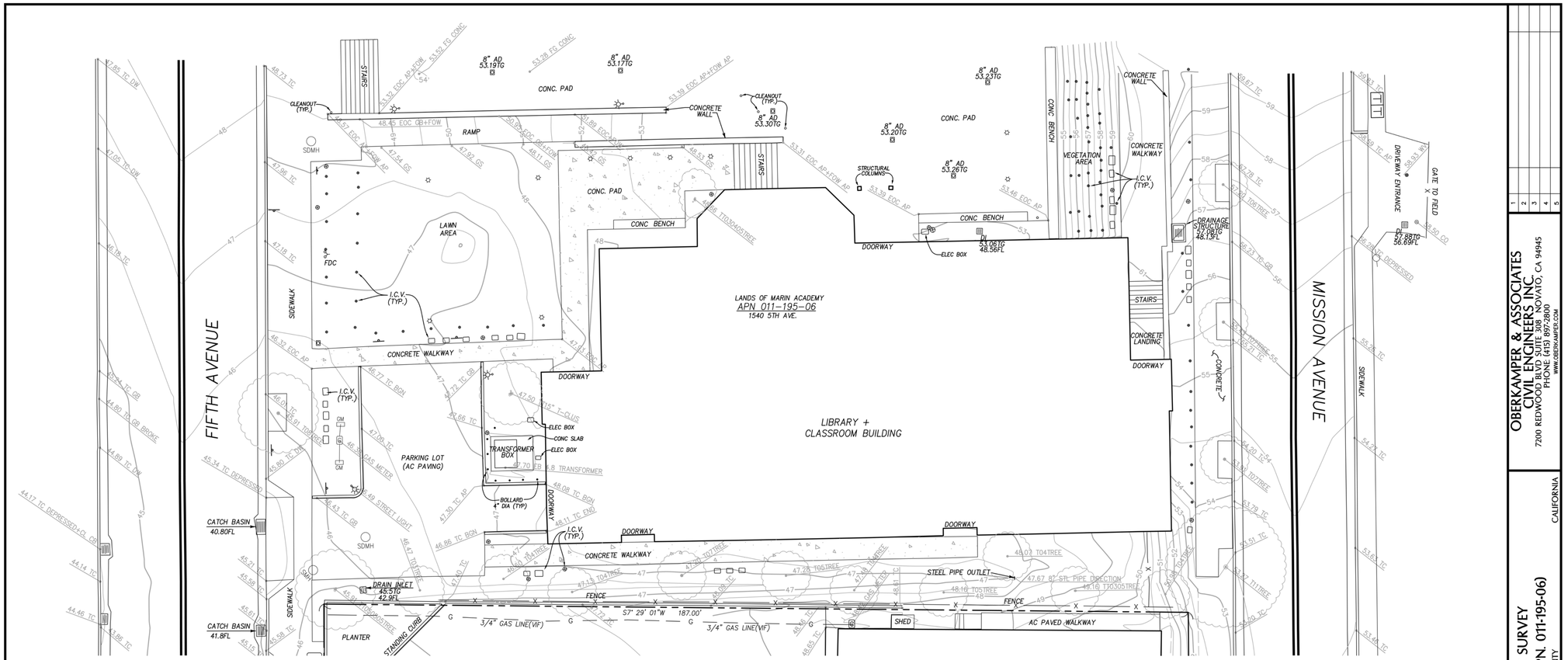
NOTE: SURVEY FOR REFERENCE ONLY




SEE SHT. 3

## PLAN VIEW

SCALE: 1"=10'

LEGEND:

| | | | |
|---|---|---|---|
| AC | ASPHALT CONCRETE | ☼ | AREALIGHT 9" DIA |
| AD | AREA DRAIN | ▤ | DRAINAGE STRUCTURE |
| AP | ANGLE POINT | ☼ | LIGHT POLE |
| APN | TAX ASSESSOR'S PARCEL NUMBER | | SIGN |
| BGN | BEGINNING | T | TELEPHONE BOX |
| CL | CENTERLINE | | TREE |
| CO | CLEANOUT | X | FENCE |
| CONC | CONCRETE | G | GAS LINE |
| DI | DRAIN INLET | | PROPERTY BOUNDARY |
| DIA | DIAMETER | | |
| DW | DRIVEWAY | | |
| EB | EDGE OF BOX | | |
| EOC | EDGE OF CONCRETE | | |
| ELEC | ELECTRICAL | | |
| EP | EDGE OF PAVEMENT | | |
| FC | FENCE | | |
| FDC | FIRE DEPARTMENT CONNECTION | | |
| FL | FLOWLINE | | |
| GB | GRADE BREAK | | |
| GM | GAS MANIFOLD | | |
| GS | GROUND SHOT ELEVATION | | |
| ICV | IRRIGATION CONTROL VALVE | | |
| SDMH | STORM DRAIN MANHOLE | | |
| SMH | SANITARY SEWER MANHOLE | | |
| T-CLUS | CLUSTER OF TREES | | |
| TC | TOP OF CURB | | |
| TG | TOP OF GRATE | | |
| TYP. | TYPICAL NOTATION | | |
| VIF | VERIFY IN FIELD | | |
| WC | WHEEL CHAIR | | |
| WV | WATER VALVE | | |

SURVEYOR'S STATEMENT:

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND IS BASED UPON A FIELD SURVEY.

LEON E. OBERKAMPER — DATE
REGISTERED CIVIL ENGINEER #12094

REGISTERED PROFESSIONAL ENGINEER LEON E. OBERKAMPER No. 12094 CIVIL STATE OF CALIFORNIA

DATE OF FIELD SURVEY:
SEPTEMBER, 2018

NOTE: CONTOUR INTERVAL: 0.5'

10' 5' 0' 10' 20'
GRAPHIC SCALE: 1"=10'

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TOPOGRAPHIC SURVEY
1540 FIFTH AVE (A.P.N. 011-195-06)
MARIN COUNTY, CALIFORNIA
CITY OF SAN RAFAEL

Scale: AS SHOWN
Drawn by: RFP
Field Crew: WD/DS
Checked by: JDC & LEO
Date: SEPTEMBER 2018

SHEET 2 OF 5

18-120

\\INFO\Documents\Jobs\2018\18-120 Marin Academy Boundary and Topographic Survey\DWG\BASES\18-120_MARIN ACADEMY TOPO_20180918.dwg, 9/18/2018 3:36:10 PM, Bluebeam PDF

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**MARIN ACADEMY AQUATIC CENTER**
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CALIFORNIA 94901

ehdd.

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| ZONING APPLICATION | 11.13.2019 |

| No. | Revisions | Date |
|---|---|---|

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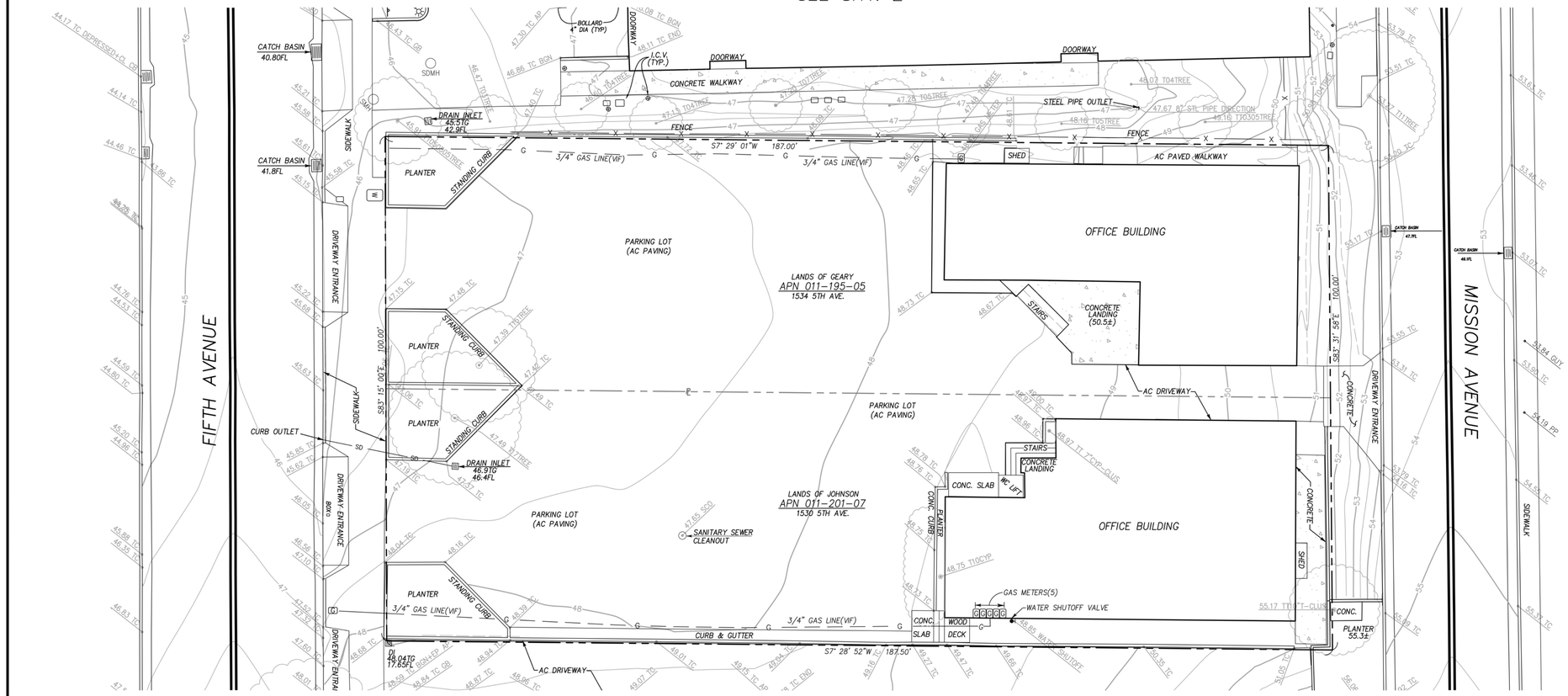
Drawn by
**Author**

EHDD Job Number
**17067**

Sheet Title
**SITE SURVEY - 1540 FIFTH AVENUE**

Sheet Number
**G0.12**

NOTE: SURVEY FOR REFERENCE ONLY




SEE SHT. 4

## PLAN VIEW
SCALE: 1"=10'

### LEGEND:

| | | | |
|---|---|---|---|
| AC | ASPHALT CONCRETE | | DRAINAGE STRUCTURE |
| AD | AREA DRAIN | | GROUND LIGHT |
| AP | ANGLE POINT | | LIGHT POLE |
| APN | TAX ASSESSOR'S PARCEL NUMBER | | SIGN |
| BGN | BEGINNING | | TELEPHONE BOX |
| CL | CENTERLINE | | TREE |
| CO | CLEANOUT | X | FENCE |
| CONC | CONCRETE | G | GAS LINE |
| DI | DRAIN INLET | | PROPERTY BOUNDARY |
| DIA | DIAMETER | | |
| DW | DRIVEWAY | | |
| EB | EDGE OF BOX | | |
| EOC | EDGE OF CONCRETE | | |
| ELEC | ELECTRICAL | | |
| EP | EDGE OF PAVEMENT | | |
| FC | FENCE | | |
| FDC | FIRE DEPARTMENT CONNECTION | | |
| FL | FLOWLINE | | |
| GB | GRADE BREAK | | |
| GM | GAS MANIFOLD | | |
| GS | GROUND SHOT ELEVATION | | |
| ICV | IRRIGATION CONTROL VALVE | | |
| SDMH | STORM DRAIN MANHOLE | | |
| SMH | SANITARY SEWER MANHOLE | | |
| T-CLUS | CLUSTER OF TREES | | |
| TC | TOP OF CURB | | |
| TG | TOP OF GRATE | | |
| TYP. | TYPICAL NOTATION | | |
| VIF | VERIFY IN FIELD | | |
| WC | WHEEL CHAIR | | |
| WV | WATER VALVE | | |

### PROPERTY BOUNDARY NOTE

A RECORD OF SURVEY MAP WILL BE PREPARED BY OBERKAMPER & ASSOCIATES IN ACCORDANCE WITH THE PROFESSIONAL LAND SURVEYOR'S ACT. SAID RECORD OF SURVEY MAP WILL BE SUBMITTED TO THE MARIN COUNTY SURVEYOR'S OFFICE FOR REVIEW AND APPROVAL. THE PROPERTY BOUNDARY LOCATION SHOWN HEREON COULD BE SUBJECT TO CHANGE BASED UPON THE RESULTS OF THE COUNTY SURVEYOR'S REVIEW. AFTER RECEIPT OF THEIR APPROVAL, THE RECORD OF SURVEY MAP WILL BE FILED IN THE OFFICE OF THE MARIN COUNTY RECORDER. THE FINAL PROPERTY BOUNDARY DATA SHOWN HEREON WILL BE EDITED AS REQUIRED TO CONFORM TO THE APPROVED RECORD OF SURVEY MAP.

### SURVEYOR'S STATEMENT:

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND IS BASED UPON A FIELD SURVEY.

LEON E. OBERKAMPER — DATE
REGISTERED CIVIL ENGINEER #12094

REGISTERED PROFESSIONAL ENGINEER LEON E. OBERKAMPER No. 12094 CIVIL STATE OF CALIFORNIA

### DATE OF FIELD SURVEY:
JUNE, 2018

NOTE: CONTOUR INTERVAL: 0.5'

10' 5' 0' 10' 20'
GRAPHIC SCALE: 1"=10'

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TOPOGRAPHIC SURVEY
1530 & 1534 FIFTH AVE (APN. 011-201-07 & 011-195-05)
CITY OF SAN RAFAEL MARIN COUNTY CALIFORNIA

Scale: AS SHOWN
Drawn by: RP
Field Crew: RP/DS
Checked by: JDC & LEO
Date: SEPTEMBER 2018

SHEET 3 OF 5

18-120

# MARIN ACADEMY AQUATIC CENTER

MARIN ACADEMY
1600 MISSION AVE,
SAN RAFAEL
CALIFORNIA 94901


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**17067**

Sheet Title
**SITE SURVEY - 1530/1534 FIFTH AVENUE**

Sheet Number
**G0.13**


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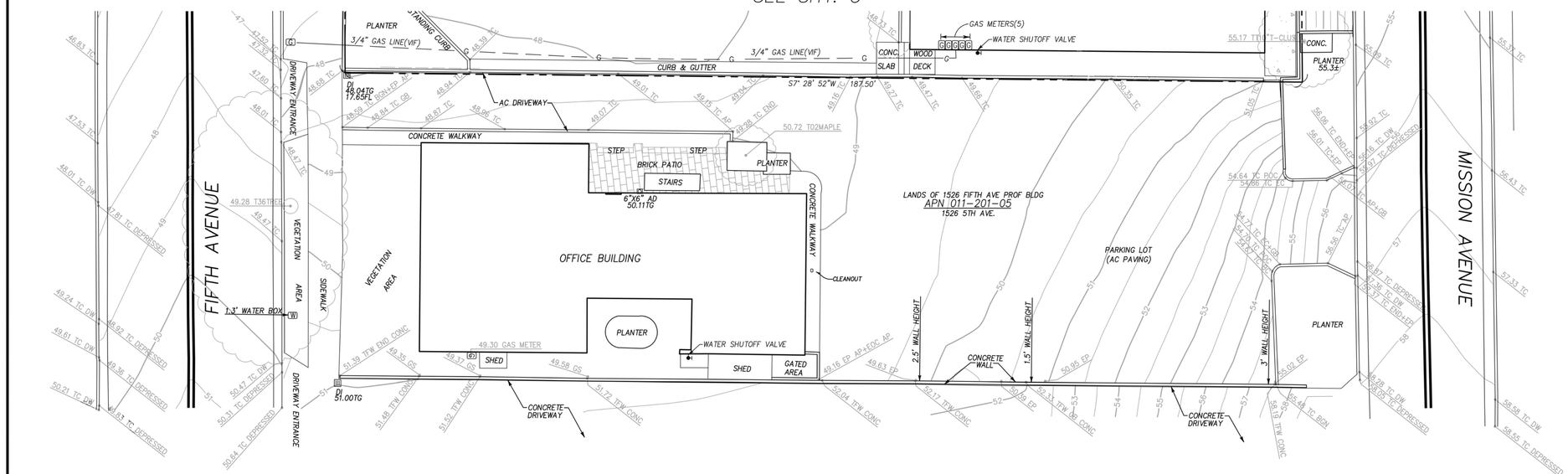


PLAN VIEW
SCALE: 1"=10'

LEGEND:

| | | | |
|---|---|---|---|
| AC | ASPHALT CONCRETE | | DRAINAGE STRUCTURE |
| AD | AREA DRAIN | | GROUND LIGHT |
| AP | ANGLE POINT | | LIGHT POLE |
| APN | TAX ASSESSOR'S PARCEL NUMBER | | SIGN |
| BGN | BEGINNING | T | TELEPHONE BOX |
| CL | CENTERLINE | | TREE |
| CO | CLEANOUT | X | FENCE |
| CONC | CONCRETE | G | GAS LINE |
| DI | DRAIN INLET | | PROPERTY BOUNDARY |
| DIA | DIAMETER | | |
| DW | DRIVEWAY | | |
| EB | EDGE OF BOX | | |
| EOC | EDGE OF CONCRETE | | |
| ELEC | ELECTRICAL | | |
| EP | EDGE OF PAVEMENT | | |
| FC | FENCE | | |
| FDC | FIRE DEPARTMENT CONNECTION | | |
| FL | FLOWLINE | | |
| GB | GRADE BREAK | | |
| GM | GAS MANIFOLD | | |
| GS | GROUND SHOT ELEVATION | | |
| ICV | IRRIGATION CONTROL VALVE | | |
| SDMH | STORM DRAIN MANHOLE | | |
| SMH | SANITARY SEWER MANHOLE | | |
| T-CLUS | CLUSTER OF TREES | | |
| TC | TOP OF CURB | | |
| TG | TOP OF GRATE | | |
| TYP. | TYPICAL NOTATION | | |
| VIF | VERIFY IN FIELD | | |
| WC | WHEEL CHAIR | | |
| WV | WATER VALVE | | |

**SURVEYOR'S STATEMENT:**

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND IS BASED UPON A FIELD SURVEY.

LEON E. OBERKAMPER — DATE
REGISTERED CIVIL ENGINEER #12094

REGISTERED PROFESSIONAL ENGINEER — LEON E. OBERKAMPER — No. 12094 — CIVIL — STATE OF CALIFORNIA

DATE OF FIELD SURVEY:
AUGUST, 2018

NOTE: CONTOUR INTERVAL: 0.5'

10' 5' 0' 10' 20'
GRAPHIC SCALE: 1"=10'

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TOPOGRAPHIC SURVEY
1526 FIFTH AVE. (APN. 011-201-05)
CITY OF SAN RAFAEL MARIN COUNTY CALIFORNIA

Scale 1"=10'
Drawn by: TCR
Field Crew: WD/DS
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SHEET 4 OF 5

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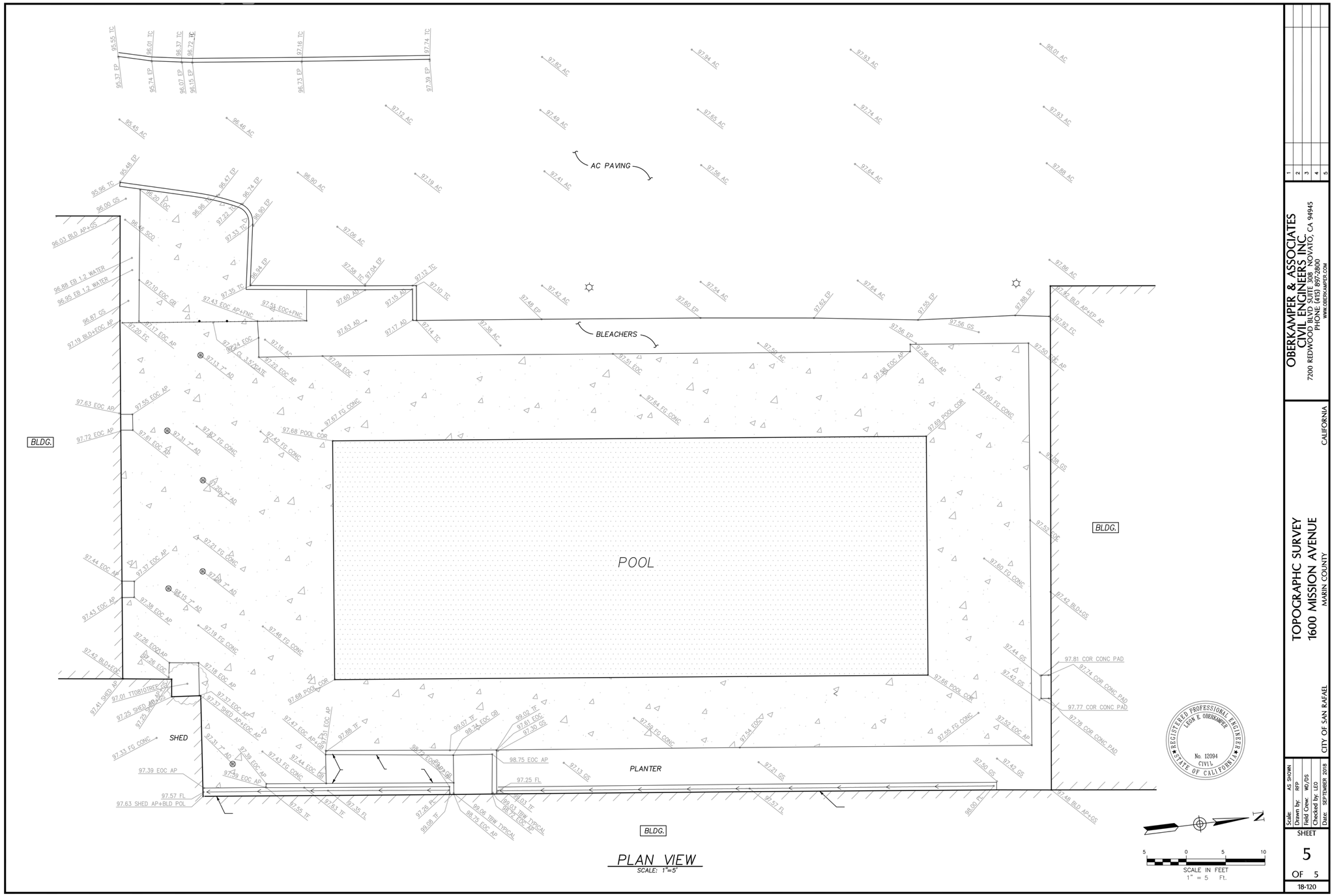


PLAN VIEW
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MARIN COUNTY CALIFORNIA

CITY OF SAN RAFAEL

REGISTERED PROFESSIONAL ENGINEER
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No. 12094
CIVIL
STATE OF CALIFORNIA

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## SITE SURVEY - EXISTING POOL

Sheet Number

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**BUILDING CODE ANALYSIS** — **SECTION NO. (CBC, u.o.n.)**

## 1 APPLICABLE BUILDING CODE

A. 2016 California Building Code (CBC)

| | |
|---|---|
| Part 1 – California Administrative Code | |
| Part 2 - California Building Code | CBC |
| Part 3 – Electrical Code | CEC |
| Part 4 – Mechanical Code | CMC |
| Part 5 – Plumbing Code | CPC |
| Part 6 – Energy Code | |
| Part 7 – Not Used: Elevator Code Now will be Title 8 of CCR | |
| Part 9 – Fire Code | CFC |
| Part 10 – Building Conservation | |
| Part 11 – California Green Building Standards Code | CGBSC |
| Part 12 – Referenced Standards | |

## 2 BUILDING DESCRIPTION

A pool house with roof deck that supports a 25 yard by 33 meters compeititon pool.

## 3 OCCUPANCY — CHAPTER 3

| Building Area | Occupancy |
|---|---|
| pool house - MEP/storage/changing room | S-1 |
| pool house - office | S-1 |
| pool house - roof deck | A-5 |

303.6

Nonseparated occupancy
Accessary use
Nonseparated occupancy

## 4 GENERAL BUILDING HEIGHTS AND AREA/ MIXED USE AND OCCUPANCY — CHAPTER 5

**4B: BUILDING AREA** 502.1

| | GSF |
|---|---|
| Ground Level | 2,513 |
| Mission Level | 1,203 |
| Pool water | 8,151 |
| Pool deck | 6,351 |
| Stair | 519 |

Total Pool House Area 4,235 SF

**4C: ALLOWABLE AREA AND HEIGHT**

A. Table 504.3 Allowable building heights above grade plane — 504.3
A, S, Type VB: 60' — S, S, Type VB: 60'

B. Table 504.4 Allowable number of stories — 504.4
A-5, S, Type VB: UL — S-1, S, Type VB: 2

C. Table 506.2: Allowable area factor in aquare feet — 506.2
A-5, S, Type VB: UL — S-1, S , Type VB: 36,000

D. Mixed occupancy of Group A-5 and S-1 — nonseperated

E. separated occupancies — 508.4
S-1 and S-1 — No seperation required
A and S-1, Sprinkled — 1 hr.

**4D: FIRE ACCESS**

A. Maximum distance from fire lane to any point on building elevation = 150 feet. Increased distances allowed for sprinklered buildings with the approval of the Fire Marshal. — CFC 503.1.1

B. Fire Flow: 3000 (gallon / minute); Flow Duration: 4 hours — CFC Appendix B105.2

Hydrants: 3 min. Average Spacing Between Hydrants: 400 feet; Max distance from street to a hydrant: 225 feet — CFC Appendix C...

**4E: OCCUPANCY SEPARATIONS**

Separation. No separation is required between nonseparated occupancies — 508.3.3

## 5 FIRE RESISTIVE REQUIREMENTS FOR BUILDING ELEMENTS — CHAPTER 6

**5A: CONSTRUCTION TYPE DESCRIPTION**

1. Type VB construction; structural, exterior wall, interior wall are of any material permitted by this code. — 602.5

**5B: FIRE RESISTIVE REQUIREMENTS, CONSTRUCTION TYPE** — **VB**

A. Primary structural Frame: — Non-rated — Table 601, g

B. Bearing Walls:
1. Interior: — Non-rated — Table 601
2. Exterior: — Non-rated — Table 601

C. Nonbearing Walls:
1. Interior: — Non-rated — Table 601
2. Exterior: Based on fire separation distance (Table 602, below) — Table 602

| Table 602: Fire-Resistance Rating Requirements for Exterior Walls (based on Fire Separation Distance) | | |
|---|---|---|
| 10 ≤ x < 30 feet | TYPE VB | 0 hour |
| x ≥ 30 feet | TYPE VB | 0 hour |

D. Floor construction & secondary members: — 0-hour — Table 601

E. Roof construction & secondary members: — 0-hour — Table 601

## 7 FIRE RESISTENCE RATED CONSTRUCTION — CHAPTER 7

**7A: BUILDING SEPARATIONS (Fire Separation Distance)**

A. East — >30' — southeast corner of building to neighbor building
B. West — 24'-0" — southwest corner of building to library wall. Library exterior wall 1hr rated
C. North — >30' — Mission street + footwall field beyond
D. South — >30' — 5th ave street side

**7B: EXTERIOR WALL OPENINGS**

A. Table 705.8: Maximum area of exterior wall openings based on fire separation distance with unprotected openings in building with automated sprinkler system — Table 705.8

| Fire Separation Distance (ft) | Allowable Area |
|---|---|
| 15 to less than 20 | 75% |
| 20 to 25 | No Limit |
| 30 or greater | No Limit |

**7C: INTERIOR WALLS**

A. Fire Barriers — 707
1. Extend from floor to floor — 707.5
2. Openings limited to 25 percent of length of wall — 707.6
3. Applies to shafts, exit enclosures, occupancy separations, fire control room, fire pump room, incidental use areas, an... — 707.3

B. Smoke Partitions — 710
1. Unless stated otherwise, no fire resistive rating is required — 710.3
2. Continuous to membranes to limit the transfer of smoke and self closing doors. — 710.4

D. Penetrations — 714
1. Through penetration fire stop systems protecting wall penetrations shall have an F rating equal to the rated wall — 714.3.1.2
2. Through penetration fire stop systems protecting rated horizontal assemblies not in a wall shall have an F and a T rating of 1 hour or equal to the rated assembly — 714.4.1.1.2

## 8 INTERIOR FINISH — CHAPTER 8

A. Wall and ceiling finishes classified by tests in accordance with ASTM E-84 UL732 — 803.1.1
B. May also be classified in accordance with NFPA 286 — 803.1.2
C. Wall and Ceiling Finish Requirements — 803.11

| Group | Sprinklered: Interior exit stairways, interior exit ramps and passageways[a,b] | Sprinklered: Corridors and enclosure for exit access stairways and exit access ramps | Sprinklered: Rooms and enclosed spaces |
|---|---|---|---|
| A-5 | B | B | C |
| S | C | C | C |

a. Class C interior finish materials shall be permitted for wainscotting or paneling of not more than 1,000 square feet of applied surface area in the grade lobby where applied directly to a noncombustible base or over furring strips applied to a noncombustible base and fireblocked as required by Section 803.11.1. — Table 803.11

b. In buildings less than three stories above grade plane of other than Group I-3, Class C interior finish for sprinklered buildings shall be permitted in interior exit stairways and ramps.

C. Requirements for rooms and enclosed spaces shall be based upon spaces enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions shall extend from the floor to the ceiling. Partitions that do not comply with this shall be considered enclosing spaces and the rooms or spaces on both sides shall be considered one. In determining the applicable requirements for rooms and enclosed spaces, the specific occupancy rooms or spaces on both sides shall be considered one. In determining the applicable requirements for rooms and enclosed spaces, the specific occupancy thereof shall be the governing factor regardless of the group classification of the building or structure.

D. Suspended acoustical ceilings to be installed in accordance with ASTM C 635 or ASTM C 636 — 808.1.1.1
E. Interior floor finish — 804
Interior floor finish to be Class I or Class II in all exit enclosures, exit passageways, corridors and unseparated areas. Classification shall be in accordance with NFPA 253 — 804.4.1
In all other occupancies except I-3, interior floor finish and interior floor covering materials shall comply with the requirements of the ASTM Standar... — 804.4.1
In all occupancies except I-3, interior floor finish and floor covering materials in enclosures for stairways and ramps, exit passageways, corridors and rooms or spaces not separated from corridors by partitions extending from the floor to the underside of the ceiling shall withstand a minimum critic... — 804.4.2

## 9 FIRE PROTECTION SYSTEMS: AUTOMATIC SPRINKLER SYSTEMS, AND FIRE ALARM SYSTEMS — CHAPTER 9

Automatic Sprinkler Systems
Group A-5: An automatic sprinkler system shall be provided for Group A-5 occupancies in the following areas: concession stands, retail areas, press boxes and other accessory use areas in excess of 1,000 square feet. — 903.2.1.5
Group S-1: An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following conditions exists: — 903.2.9
1. A Group S-1 fire area exceeds 12,000 square feet
2. A Group S-1 fire area is located more than three stories above grade plane
3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 24,000 square feet
4. A Group S-1 fire area used for the storage of commercial motor vehicles where the fire area exceeds 5,000 square feet.
5. A Group S-1 occupancy used for the storage of upholstered furniture or mattresses exceeds 2,500 square feet.

**San Rafael, CA code of ordinances/Title 12 Chapter 12.12 Section 903.2:**

903.2 Where Required; All Occupancies and Facilities. An automatic fire sprinkler system shall be installed in all of the following:
1. Every newly constructed, building or facility.

**Fire Alarm Systems**
Where required - new buildings and structure. An approved fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures accordance with Sections 907.2.1 through 907.2.23 and provide occupant notification in accordance with Section 907.5k unless other requirements are provided by another section of this code — 907.2

907.5.2.2.

## 10 MEANS OF EGRESS — CHAPTER 10

A. Occupant Load Factors

| Function of Space | | Occupant Load Factor |
|---|---|---|
| Assembly without fixed seats: concentrated | | 7 net |
| Assembly without fixed seats: unconcentrated | | 15 net |
| locker rooms | | 50 gross |
| business area | | 100 gross |
| Accessory storage areas/Mechanical equipment rooms | | 300 gross |
| Pool | | 50 gross |
| Decks | | 15 gross |

Table 1004.1.2

For areas having fixed seating without dividing arms, the occupant load shall not be less than the number of seats based on one person for each 18 inches of seating length. — 1004.4

B. Travel distance – maximum allowable travel distance from any location to an exit, with sprinkler system:

| Occupancy | Travel Distance |
|---|---|
| Group A-5, S, B | 250 feet |

Table 1017.2

D. Spaces with one exit or exit access doorway — 1006.2.1

| occupancy | maximum Occupant Load | maximum common path of egress travel with sprinkler: occupant load<30 | maximum common path of egress travel with sprinkler: occupant load>30 |
|---|---|---|---|
| S | 29 | 100 | 75 |
| A | 49 | 100 | 100 |

E. Minimum number of exits per story — Table 1006.3.1

| Occupant Load (per story) | Number of Exits (per story) |
|---|---|
| per conditions | 1 |
| 1 - 500 | 2 |
| 501 – 1,000 | 3 |
| Over 1,001 | 4 |

G. Exterior Exit Stairs and Ramps
1. Shall be adjoined by yards, courts, or public ways — 1027.4
2. Must be open on at least one side — 1027.3

H. Exit Discharge
1. Exterior stairways and ramps shall be located 10 feet from adjacent lot lines and from other buildings on the same lot — 1027.5

I.1 Assembly Other Exit: Not less than one exit shall discharge on a street or an unoccupied space of not less than 20 feet in capacity that joins a street or public way. — 1029.3

I.2 Assembly occupancies with an occupant load of 100 or more and 300 or less, shall have at least one required means of egress directly to an exit, or through a lobby that is not used to access the other required exit. At least one exit shall discharge on a street or unoccupied space of not less than 20 feet in width that adjoins a street or a public way. — 1029.3.1

J. Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress are required by Section 1006 or 1022 from any accessible space, each accessible portion of the space shall be served by accessible means of egress in at least the same number as required by Section 1015.1 or 1021.1. In addition to the requirements of this chapter, means of egress, which provide access to, or egress from, buildings for persons with disabilities, shall also comply with the requirements of Chapter 11A or 11B as applicable. — 1009.1

1. The common path of egress travel shall not exceed 30 feet (9144 mm) from any seat to a point where an occupant has a choice of two paths of egress travel to two exits. — 1028.8

1. Where more than one exit, or access to more than one exit, is required, the means of egress shall be configured such that the loss of any one exit, or access to one exit, shall not reduce the available capacity to less than 50% of the required capacity. — 1005.5

2. Capacity of stairways is calculated for floors individually, not cumulatively. — 1005.3.1

1. Outdoor area — 1004.5

Yards, patios, courts and similar outdoor areas accessible to and usable by the building occupants shall be provided with means of egress as required by this chapter. The occupant load of such outdoor areas shall be assigned by the building official in accordance with the anticipated use. Where outdoor areas are to be used by persons in addition to the occupants of the building, and the path of egress travel from the outdoor areas passes through the building, means of egress requirements for the building shall be based on the sum of the occupant loads of the building plus the outdoor areas.

2. multiple occupancies — 1004.6

Where a building contains two or more occupancies, the means of egress requirements shall apply to each portion of the building based on the occupancy of that space. Where two or more occupancies utilize portions of the same means of egress system, those egress components shall meet the more stringent requirements of all occupancies that are served.

2. Egress width per occupant served, in sprinklered buildings

| Use Area | Allowance for buildings with sprinklers | |
|---|---|---|
| Stairways | 0.20 inches | 1005.3.1 |
| Other egress component (Assembly) | 0.15 inches | 1005.3.2 |

K. Lighting
1. Means of egress illumination to be 1 foot candle minimum (11 lux) at the walking surface until discharge at exterior — 1008.2.1
2. Illumination required. The means of egress serving a room or space shall be illuminated at all times that the room or space is occupied. — 1008.2
3. Emergency power provided for 90 minutes minimum — 1008.3
a) Illumination under emergency power must be 1 foot candle average, with a minimum of 0.1 foot candles at any point with 1/40 max ratio. These may decline 40 percent at the end of the emergency duration — 1006.3.1

L. Accessible Means of...
1. Accessible means of egress are required in the same numbers as required for other means of egress — 1009.1
2. Accessible means of egress may include:
a) Accessible stairs,
b) Accessible routes
c) Elevators
d) Horizontal exits
e) platform lifts — 1009.5

M. Doors
1. Doors shall have a clear width of at least 32 inches and no door leaf shall be greater than 48 inches — 1010.1.1
2. With limitations, egress doors may include: — 1010.1.4
a) Revolving doors
b) Power-operated doors
c) Horizontal sliding doors
d) Access-controlled doors
3. Panic hardware required on exit doors from Assembly occupancies over 50 people, and electrical rooms rated over... — 1010.1.10

N. Stairways
1. Minimum width is 44 inches unless serving fewer than 50 people — 1011.2
2. Minimum headroom clearance is 80 inches — 1011.3
3. Riser height
a) Minimum – 4 inches
b) Maximum – 7 inches — 1011.5.2
4. Tread depth
1. Minimum – 11 inches — 1011.5.2


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Sheet Number
**G1.01A**

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| | | |
|---|---|---|
| P. Ramps | | 1012 |
| | 1. Maximum slope – 1 in 12 | 1012.1 |
| | 2. Maximum cross slope – 2% | 1012.3 |
| | 3. Maximum vertical rise 30 inches | 1012.4 |
| | 4. Ramps with rise greater than 6 inches shall have handrails on both sides | 1012.8 |
| Q. Handrails and Guards | | |
| | Handrail height not less than 34 inches and not more than 38 inches. | 1014.2 |
| | handrails shall return to a wall, guard or the walking surface or shall be continuous to the handrail of an adjacent flight of stairs or ramp run. Where not continuous, handrails shall extend horizontally not less than 12 inches beyond top riser and continue to slope for the depth of one tread beyond the bottom riser. | 1014.6 |
| | 1. Intermediate handrails to be provided when necessary, so that all parts of egress capacity on stairs and ramps are within 30 inches of a handrail | 1014.9 |
| | 2. Guards required on elevated surfaces with an adjacent drop more than 30 inches | 1015.2 |
| | 3. Guards required to be 42 inches high minimum | 1015.3 |
| | 4. Guards shall have opening protection that will not allow a 4 inch diameter sphere to pass | 1015.4 |
| R. Exit Signs | | |
| | 1. Not required in rooms or areas requiring only one exit | 1013.1.1 |
| | 2. Required at exit and exit access doors and other areas so that no place in a corridor is more than 100 feet from an exit sign | 1013.1 |
| | 3. Exit signs may be either internally or externally illuminated | 1013.3 |
| | 4. Illumination required to be on emergency power with 90 minute duration | 1013.6.3 |
| | 5. Emergency evacuation signage required. | Title 19 |
| S. Exit Access | | |
| | 1. Egress shall not pass through adjoining rooms except where such rooms are accessory, not high-hazard, and provide a discernable path to an exit | 1016.2 |
| | 2. Common path of travel limited to 75 feet in Group A when the building is equipped with sprinklers | Table 1006.2.1 |
| | 3. Common path of travel in assembly seating area limited to 30 feet | 1029.8 |
| | 3. When two or more exits are required, they shall be separated by one third the diagonal dimension of the space | 1007.1.1.2 |

| | | |
|---|---|---|
| **15** | **ROOF ASSEMBLY AND ROOFTOP STRUCTURES** | **CHAPTER 15** |
| | A. Roofing classification – Class C | Table 1505.1 |
| **27** | **EMERGENCY POWER** | **CHAPTER 27** |
| | A. Where required: | 2702.2 |
| | 1. Exit signs | 2702.2.3 |
| | 2. Means of egress illumination | 2702.2.4 |
| **31** | **POOL** | **CHAPTER 31** |
| | A. ANCILLARY FACILITIES | |
| | Number of sanitary facilities | 3116B.2 |
| | one pool user shall be considered for every 15 square feet of pool water surface area and/or spray ground splash zone area | |

**Showers** 1 for every 50 pool users

**Toilet** Separated toilet facilities shall be provided for each sex. 1 toilet for every 60 women or less and 1 toilet plus 1 urinal for every 75 ma...

**Lavatories** 1 for every 80 pool users

| | | | | |
|---|---|---|---|---|
| women | Shower | WC | | Lav |
| | 5 | 5 | | 3 |
| men | Shower | WC | UR | Lav |
| | 5 | 4 | 4 | 3 |

**drinking fountains** One guarded jet drinking fountain shall be provided for the first 250 pool users and an additional fountain shall be provided for each additional 200 pool users or fraction thereof. 3117B

B. pool enclosure 3119B.1

The enclosure shall have a minimum effective perpendicular height of 5 feet

Openings, holes or gaps in the enclosure, doors and/or gates shall not allow the passage of a 4 inch diameter sphere

Horizontal and diagonal member designs which might serve as a ladder for small children are prohibited. Horizontal members shall be spaced at lest 48 inches apart. No planters or other structures that can be climbed shall be permitted within 5 feet of the outside of the pool enclosure or within 5 feet of the outside of the pool enclosure.

Chain link may be used, provided that the openings are not greater than 1 3/4 inches measured horizontally.

C. Gates 3119B.2

Gates and doors shall be equipped with self-closing and self-latching devices. Gates and doors shall open outwardly away from the pool except where otherwise prohibited by law. Hand activated door or gate opening hardware shall be located at a height no lower than 42 inches but no higher than 44 inches above the deck or walkway.

The pool enclosure shall have at least one means of egress without a key or emergency purposes.


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SAN RAFAEL
CALIFORNIA 94901

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*ARCHITECTURE INTERIORS PLANNING URBAN DESIGN*

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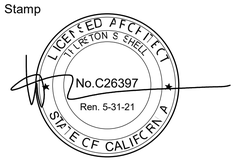
Consultant

Stamp

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Scale

Drawn by
**Author**

EHDD Job Number
**17067**

Sheet Title
**CODE ANALYSIS**

Sheet Number
**G1.01B**


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# MARIN ACADEMY AQUATIC CENTER

## CITY OF SAN RAFAEL, CALIFORNIA

### CIVIL SCOPE OF WORK

THE CIVIL SCOPE OF WORK INCLUDES:
DEMOLITION OF EXISTING SITE, PROPOSED GRADING AT THE CURB LINE ON MISSION AVENUE, ADJACENT STREET RESURFACING, STRIPING OF AN ADA PARKING STALL, EARTHWORK CALCULATIONS, DRAINAGE MANAGEMENT PLAN, AND NEW UTILITY SERVICES FOR WATER, SANITARY SEWER, AND STORM DRAIN.

### EXISTING CONDITIONS

1. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON SURVEY PREPARED BY LEON E. OBERKAMPER IN SEPTEMBER, 2018. PHONE NUMBER: 415-897-2800. GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.

2. THIS TOPOGRAPHIC SURVEY IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. INFORMATION REGARDING EXISTING SURFACE OR SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS REFLECTS INCOMPLETE AVAILABLE INFORMATION AS OF THE DATE OF DESIGN. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.

### APPLICABLE CODES AND STANDARDS

THE DESIGN SHOWN IN THESE DRAWINGS WAS BASED UPON THE FOLLOWING STANDARDS. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE WORK SHALL FOLLOW THE MORE STRINGENT STANDARD OR THE ORDER LISTED BELOW.

1. CITY OF SAN RAFAEL STANDARD SPECIFICATIONS AND DETAILS
2. MARIN COUNTY STANDARD SPECIFICATIONS AND DETAILS
3. MMWD CODES AND REGULATIONS
4. SAN RAFAEL SANITATION DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS

### GEOTECHNICAL REPORT

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF OR HERSELF WITH THE GEOTECHNICAL INVESTIGATION LETTER FOR THE PROPOSED AQUATICS CENTER DATED JULY 16, 2018, BY MILLER PACIFIC ENGINEERING GROUP, AND KEEP A COPY OF THIS REPORT ON SITE. THE GEOTECHNICAL REPORT IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED THEREIN.

### EROSION AND SEDIMENTATION CONTROL

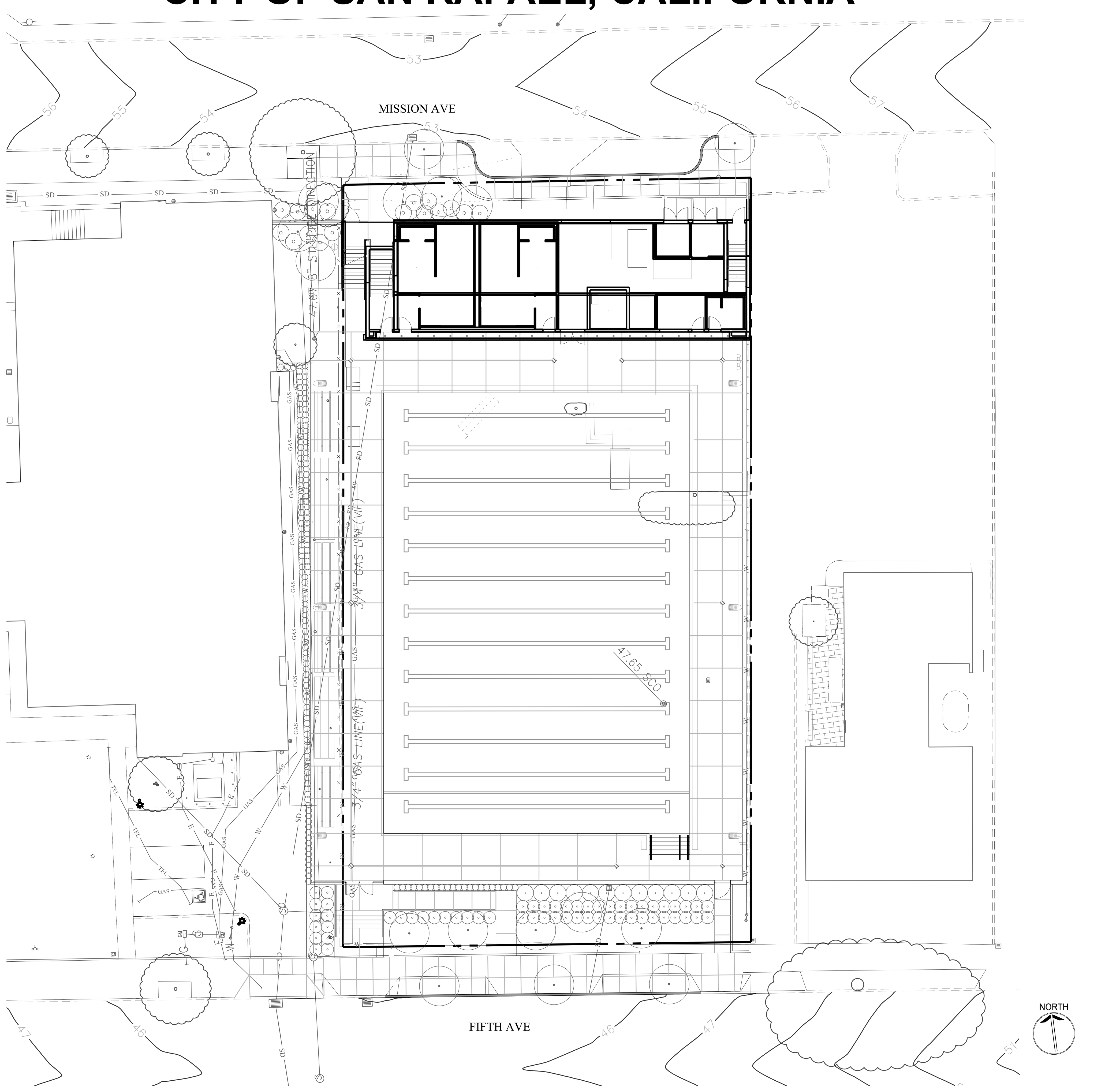
SEDIMENT AND EROSION CONTROL MEASURES, AS SPECIFIED IN THE ATTACHED EROSION CONTROL PLAN AND DETAILS, SHALL BE INSTALLED PRIOR TO START OF DEMOLITION AND MAINTAINED THROUGHOUT THE PROJECT. MONITORING REQUIREMENTS SHALL BE CONDUCTED BY QUALIFIED PERSONNEL AS INDICATED IN THE SWPPP.

### UNAUTHORIZED CHANGES AND USE

1. SHERWOOD DESIGN ENGINEERS, LTD. SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, FOR THE SAFETY OF THE PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUR THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. THE CIVIL DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS. ANY MODIFICATIONS TO THIS DOCUMENT, WITHOUT THE WRITTEN PERMISSION OF SHERWOOD DESIGN ENGINEERS, LTD., SHALL RENDER THE PLANS INVALID AND UNUSABLE.
3. NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING, OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF SHERWOOD DESIGN ENGINEERS, LTD., EXCEPT THAT ANY REGULATORY AUTHORITY MAY REPRODUCE AND TRANSMIT COPIES, AS REQUIRED, IN CONJUNCTION WITH PERFORMANCE OF OFFICIAL BUSINESS UNDER ITS JURISDICTION.

### SITE ACCESSIBILITY NOTES

1. ALL SITE WORK SHOWN ON THE PLANS HAS BEEN DESIGNED IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE APPLICABLE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT. IT IS THE CONTRACTOR'S REPSONSIBILITY TO ENSURE ALL ACCESSIBLE SITE FEATURES ARE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND WITH THE FOLLOWING DEFINITIONS AND MINIMUM REQUIREMENTS:
   a. ACCESSIBLE PATHS AND WALKWAYS HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5 PERCENT.
   b. RAMPS (INCLUDING CURB RAMPS) ARE DEFINED AS ANY PATH OR WALKWAY WITH LONGITUDINAL SLOPE BETWEEN 5% (1:20) AND 8.33% (1:12). NO ACCESSIBLE ROUTE MAY EXCEED A SLOPE OF 8.33%.
   c. RAMPS (EXCEPTING CURB RAMPS) ARE REQUIRED TO HAVE RAILINGS, AS SHOWN ON THE ARCHITECTURAL AND/OR LANDSCAPE PLANS.
   d. RAMPS EXCEEDING A TOTAL VERTICAL RISE OF 2'-6" SHALL HAVE INTERMEDIATE LANDINGS WITH A 2% MAXIMUM SLOPE, IN ANY DIRECTION, AND A MINIMUM LENGTH OF 60" IN THE DIRECTION OF TRAVEL. BOTTOM LANDINGS AND LANDINGS AT CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72".
   e. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES OF THE BUILDINGS. THE LANDINGS SHALL HAVE A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING OR 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPEN ONTO THE LANDING.
   f. ALL ACCESSIBLE PATHS, WALKWAYS, RAMPS AND LANDINGS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%.
   g. THE FULL EXTENTS OF ACCESSIBLE PARKING STALLS AND ACCESS AISLES SHALL HAVE A MAXIMUM 2% SLOPE, IN ANY DIRECTION.




SITE PLAN

### ABBREVIATIONS

| | | | |
|---|---|---|---|
| ABD | ABANDONED | PIP | PROTECT IN PLACE |
| AC | ASPHALT CONCRETE | PIV | POST INDICATOR VALVE |
| AD | AREA DRAIN | PL | PROPERTY LINE |
| ADA | AMERICANS WITH DISABILITIES ACT | POC | POINT OF CONNECTION |
| BC | BOTTOM OF CURB | PUE | PUBLIC UTILITY EASEMENT |
| BS | BOTTOM OF STEP | R, RAD | RADIUS |
| BW | BOTTOM OF WALL / BACK OF WALK | RCP | REINFORCED CONCRETE PIPE |
| CB | CATCH BASIN | RET | RETAINING |
| CF | CUBIC FEET | RIM | TOP OF STRUCTURE GRATE/ COVER |
| CL | CENTERLINE | RW | RAINWATER |
| CO | CLEAN OUT | RWL | RAINWATER LEADER |
| CONC | CONCRETE | S | SLOPE |
| DEMO | DEMOLISH | SAP | SEE ARCHITECTURAL PLANS |
| DI | DRAINAGE INLET | SD | STORM DRAIN |
| DMA | DRAINAGE MANAGEMENT AREA | SDE | SHERWOOD DESIGN ENGINEERS |
| DS | DOWN SPOUT | SDMH | STORM DRAIN MANHOLE |
| DW | DOMESTIC WATER | SEP | SEE ELECTRICAL PLANS |
| E | EAST | SF | SQUARE FEET |
| (E) | EXISTING | SLP | SEE LANDSCAPE PLANS |
| EB | ELECTRICAL BOX | SMP | SEE MECHANICAL PLANS |
| EL, ELEV | ELEVATION | SPD | SEE PLUMBING DRAWINGS |
| EP | EDGE OF PAVEMENT | SQ | SQUARE |
| FC | FACE OF CURB | SR | SELF-RETAINING |
| FFE | FINISHED FLOOR ELEVATION | SS | SANITARY SEWER |
| FH | FIRE HYDRANT | ST | SELF-TREATING |
| FL | FLOWLINE | SSCO | SANITARY SEWER CLEAN OUT |
| FT | FEET | SSMH | SANITARY SEWER MANHOLE |
| FW | FIRE WATER | SSP | SEE STRUCTURAL PLANS |
| G | GAS | STD | STANDARD |
| GM | GAS METER | TB | TOP OF BANK |
| GV | GATE VALVE | TBD | TO BE DETERMINED |
| HDPE | HIGH-DENSITY POLYETHYLENE | TC | TOP OF CURB |
| INV | INVERT OF PIPE OR CHANNEL | TD | TRENCH DRAIN |
| IRR | IRRIGATION | TEL | TELEPHONE |
| JB | JUNCTION BOX | TEMP | TEMPORARY |
| LA | LANDSCAPE ARCHITECT | TG | TOP OF GRATE |
| LF | LINEAR FEET | TS | TOP OF STEP |
| LT | LEFT | TW | TOP OF WALL |
| MAX | MAXIMUM | TYP | TYPICAL |
| MH | MANHOLE | UG | UNDERGROUND |
| MIN | MINIMUM | UM | UNMITIGATED |
| N | NORTH | VIF | VERIFY IN FIELD |
| NTS | NOT TO SCALE | W | WATER |
| (P) | PROPOSED | WM | WATER METER |
| PED | PEDESTRIAN | WS | WATER SURFACE |
| PG&E | PACIFIC GAS AND ELECTRIC | | |

### SHEET INDEX


C0.00 COVER
C0.10 DEMOLITION PLAN
C1.00 SITE IMPROVEMENT
C2.00 GRADING AND DRAINAGE
C2.01 STORMWATER MANAGEMENT PLAN-PROPOSED POOL SITE
C2.02 STORMWATER MANAGEMENT PLAN-EXISTING POOL SITE
C2.10 EARTHWORK
C2.20 UTILITY PLAN
C3.00 DETAILS 1
C3.01 DETAILS 2
C4.00 EROSION CONTROL
C4.10 EROSION CONTROL DETAILS


### GENERAL NOTES

1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. THE GEOTECHNICAL REPORT IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED THEREIN.
2. SHOULD IT APPEAR THAT THE WORK OUTLINED ON THESE PLANS IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PROCEEDING WITH THE WORK IN QUESTION AND REQUEST CLARIFICATION.
3. WHEN SPECIFICATIONS OR STANDARDS FROM DIFFERENT AUTHORITIES DIFFER FOR THE SAME SUBJECT MATTER, NOTIFY OWNER FOR CLARIFICATION.
4. CONSTRUCTION STAKING SHALL BE PERFORMED BY A LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
5. UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES AND /OR FIELD INVESTIGATION.
6. THE CONTRACTOR OR ANY SUBCONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT ONE CALL PROGRAM 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-227-2600. EXCAVATION IS DEFINED AS REMOVING MATERIAL 18 INCHES OR MORE BELOW EXISTING GRADE.
7. ALL MATERIALS REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL ADJUST TO FINAL GRADE EXISTING AND/OR NEW MANHOLES, CURB INLETS, CATCH BASINS, VALVES, VAULTS, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE WORK AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS, UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL POST ON SITE EMERGENCY TELEPHONE NUMBERS FOR AMBULANCE, POLICE, FIRE DEPARTMENTS, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITE.
10. THE CONTRACTOR SHALL MAINTAIN ON-SITE AND IN ALL VEHICLES A COPY OF THE SPILL PREVENTION AND RESPONSE PLAN AND SHALL BE KNOWLEDGEABLE OF THE REPORTING REQUIREMENTS AND PROCEDURES.
11. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
12. CONTRACTOR SHALL COMPLY WITH STATE, COUNTY AND CITY LAWS AND ORDINANCES; AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.
13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING 24-HOUR PER DAY DUST CONTROL. DUST CONTROL MEASURES SHALL BE APPLIED AS NECESSARY, OR AS DIRECTED BY THE CITY TO PREVENT THE TRANSPORT OFF-SITE OF ANY DUST OR OTHER AIRBORNE NUISANCE.
14. TRUCKS HAULING DIRT AND DEBRIS SHALL BE COVERED TO REDUCE WINDBLOWN DUST SPILLS.
15. ON-SITE STOCKPILES OF IMPORTED AND EXCAVATED MATERIAL TO BE LEFT IN PLACE FOR MORE THAN 24 HOURS SHALL BE COVERED AND WATERED TO PREVENT DUST AND RUNOFF.
16. DURING CONSTRUCTION, THE PUBLIC STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ACCUMULATION OF MUD AND DEBRIS RESULTING FROM CONSTRUCTION. IF IMPORT OR EXPORT OF DIRT IS NECESSARY, THE CONTRACTOR SHALL OBTAIN AN APPROVAL FOR THE HAULING ROUTE FROM THE TOWN BUILDING DEPARTMENT. THE HAULING ROUTES SHALL BE STRICTLY ADHERED TO BY THE CONTRACTOR AND SUBCONTRACTORS.
17. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON CITY STREETS WILL NOT BE PERMITTED.
18. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A STREET, GUTTER, OR STORM DRAIN.
19. TRAFFIC CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
20. THE CONTRACTOR SHALL MAINTAIN THE WORKSITE AND ADJACENT AREAS IN A CLEAN AND ORGANIZED MANNER THROUGHOUT THE PROJECT DURATION.
21. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING SITE FEATURES/STRUCTURES NOT SPECIFICALLY SHOWN TO BE REMOVED. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL MITIGATION TO DAMAGED SITE FEATURES/STRUCTURES.
22. THE COST OF PROTECTION AND/OR REPAIR OF THE CONTRACTOR'S WORK AS AFFECTED BY STORMWATER DURING A STORM EVENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY UNTIL THE IMPROVEMENTS HAVE BEEN ACCEPTED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PROPERTIES OR IMPROVEMENTS AS A RESULT OF NOT PROTECTING SUCH AREAS FROM STORMWATER FLOWING BEYOND THE WORK AREA.
23. THE COST OF CORRECTIVE WORK REQUIRED FOR COMPLETION AND/OR ACCEPTANCE OF THE WORK NECESSITATED BECAUSE OF UNSATISFACTORY WORKMANSHIP OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
24. PRIOR TO THE CONCLUSION OF THE WORK, THE CONTRACTOR SHALL RESTORE TO THEIR PREVIOUS CONDITION OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ALL DAMAGED PROPERTY (WALLS, FENCES, UTILITIES, PAVEMENT, CURB MARKINGS, SIGNS, ETC) OR SITE FEATURE WHICH ARE DAMAGED DUE TO THE CONTRACTOR'S WORK. THIS REPAIR, REPLACEMENT, AND CLEANUP OF WORK SHALL BE SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE OWNER.
25. UPON SATISFACTORY COMPLETION OF THE WORK, THE WORK SITE SHALL BE CLEANED AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.
26. ARTICLE 87 OF THE UNIFORM FIRE CODE SHALL BE FOLLOWED FOR AREAS UNDER CONSTRUCTION. CONTACT THE CITY OF SAN RAFAEL FOR SPECIFIC REQUIREMENTS FOR BUILDINGS UNDER CONSTRUCTION.
27. THE CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATIONS AND TRENCHES.
28. CONSTRUCTION ACTIVITY SHALL BE RESTRICTED TO THE HOURS APPROVED BY CITY OF SAN RAFAEL

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EXP: 9/30/19
No.84120
CIVIL
STATE OF CALIFORNIA

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COVER

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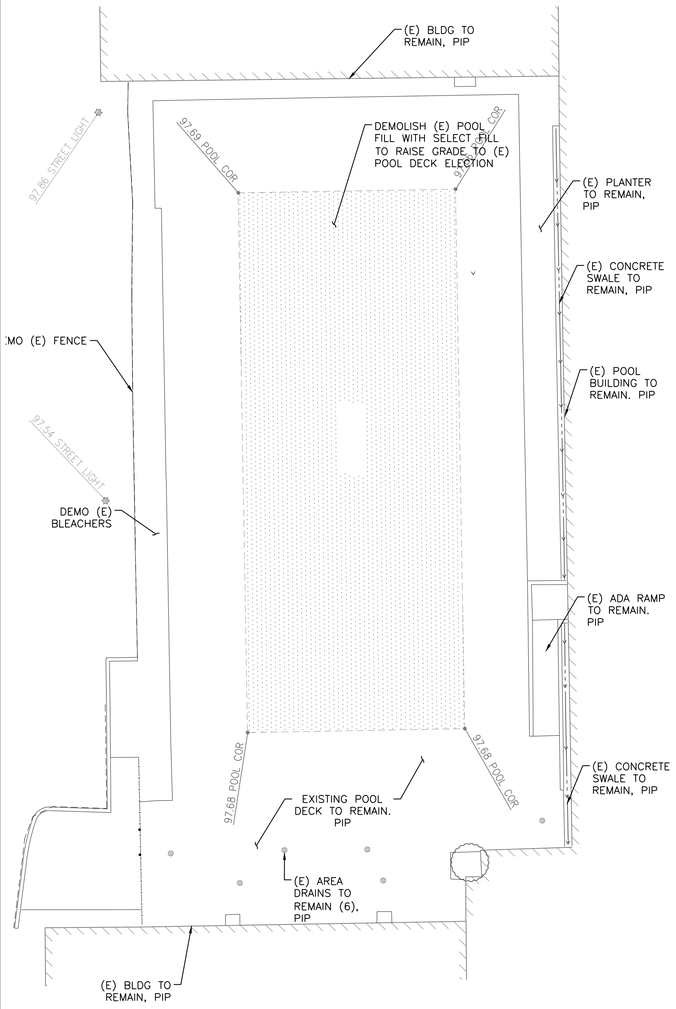
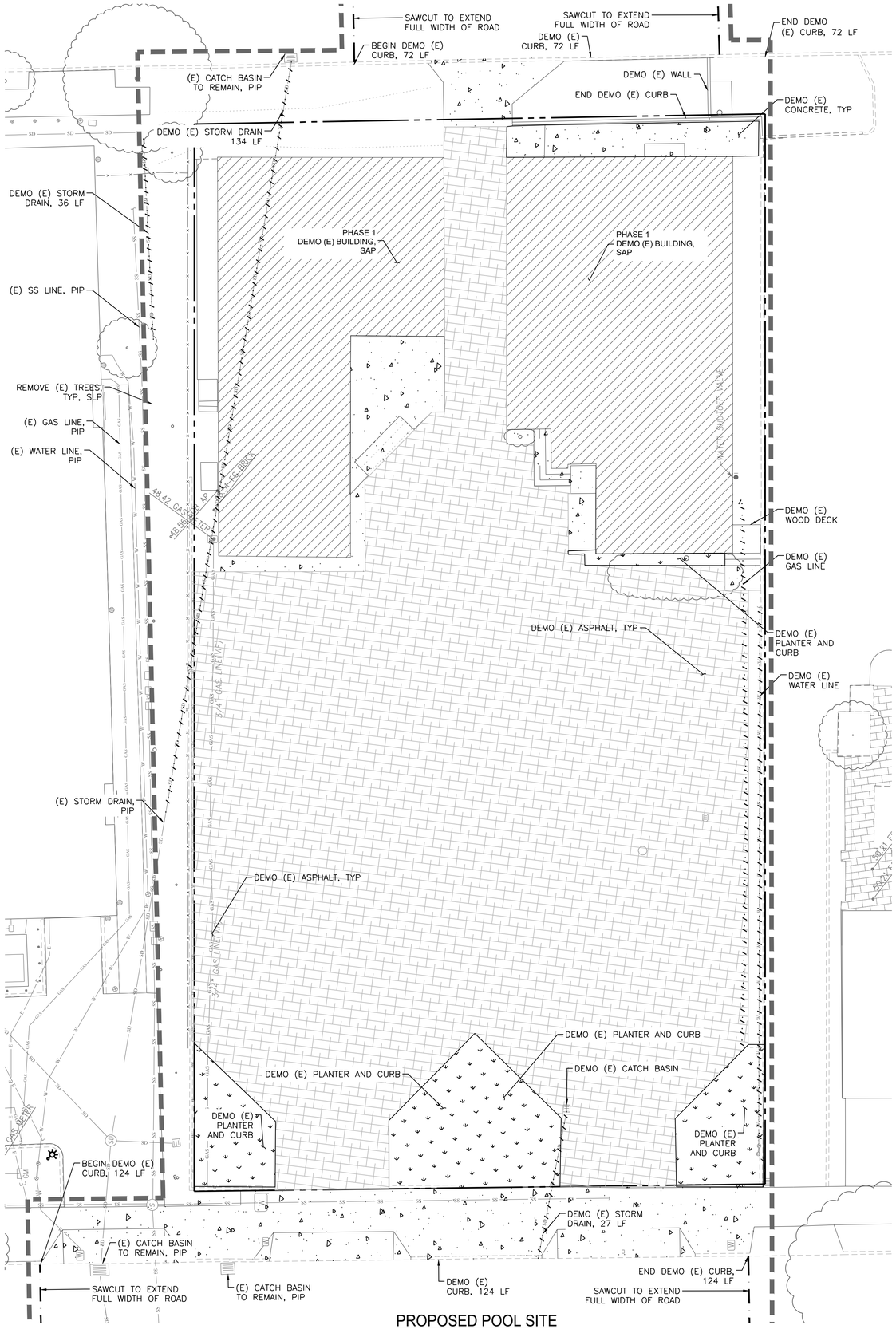



EXISTING POOL SITE




PROPOSED POOL SITE

## LEGEND

- PROPERTY LINE
- CONCRETE REMOVAL
- ASPHALT REMOVAL
- BUILDING REMOVAL
- CLEAR AND GRUB
- DEMO UTILITY LINES
- SAWCUT
- LIMIT OF WORK

## DEMOLITION NOTES

1. SEDIMENT AND EROSION CONTROL MEASURES, AS SPECIFIED IN THE ATTACHED EROSION CONTROL PLAN AND DETAILS, SHALL BE INSTALLED PRIOR TO START OF DEMOLITION.
2. THE CONTRACTOR SHALL PHOTO DOCUMENT EXISTING CONDITIONS OF ADJACENT BUILDINGS AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK.
3. ALL AREAS TO BE IMPROVED SHALL BE STRIPPED OF CONCRETE, LOOSE SURFACE SOIL, VEGETATION, ASPHALT, UTILITY CONDUIT, FOUNDATIONS AND BASE LAYERS, UNLESS OTHERWISE INDICATED. ANY RESULTING EXCAVATIONS THAT EXTEND BELOW FINISHED SUBGRADE SHALL BE BACKFILLED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
4. ALL EXCAVATED AND DEMOLISHED MATERIALS NOT SPECIFIED TO BE REUSED SHALL BE IMMEDIATELY DISPOSED OF ACCORDING TO LOCAL REGULATIONS AND REQUIREMENTS AND NOT ALLOWED TO STOCKPILE ON SITE.
5. ALL PAVEMENT, FLATWORK AND STRUCTURES TO BE PARTIALLY REMOVED SHALL BE NEATLY SAWCUT IN ACCORDANCE WITH THE SPECIFICATIONS or TO FORM A CLEAN EDGE AGAINST WHICH NEW PAVEMENT WILL BE FORMED. SAWCUT EDGES SHALL BE PROTECTED TO ASSURE A NEAT LINE OF CONFORMANCE WITH THE ADJACENT SURFACE. ANY DAMAGED EDGE SHALL BE SAWCUT BACK TO WHERE A CLEAN COMPETENT EDGE CAN BE ACHIEVED, AT THE EXPENSE OF THE CONTRACTOR.
6. PIPES AND CONDUITS TO BE REMOVED SHALL BE REMOVED BACK TO THE NEAREST MANHOLE, JUNCTION BOX, PULL BOX OR OTHER RELEVANT STRUCTURE. THE CONDUIT SHALL BE FULLY REMOVED WHERE IT CAN BE DONE WITHOUT DAMAGE TO THE EXISTING STRUCTURE TO REMAIN AND THE STRUCTURE REPAIRED TO A NEAT, SMOOTH SURFACE. OTHERWISE, THE CONDUIT SHALL BE CUT, PLUGGED AND CAPPED IN ACCORDANCE WITH THE UTILITY OWNER'S STANDARDS.
7. CONTRACTOR SHALL PROTECT ALL EXISTING FENCING, WALLS, TREES, PRIVATE LANDSCAPING, CURBS, ABOVEGROUND UTILITIES (JOINT POLES, STREET LIGHTS), AND UNDERGROUND UTILITIES (STORM DRAIN, SANITARY SEWER, WATER AND GAS) UNLESS OTHERWISE NOTED.
8. SHALLOW UTILITIES MAY BE PRESENT. CONTRACTOR SHALL IDENTIFY AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
9. CONTRACTOR TO PROTECT ALL TREES NOT DESIGNATED TO BE REMOVED, INCLUDING BUT NOT LIMITED TO TREES WITHIN AND OUTSIDE OF THE PROJECT LIMIT OF WORK.
10. ALL REPAIRED OR REPLACED CONCRETE TO BE SAWCUT AT NEAREST CONSTRUCTION JOINT UNLESS OTHERWISE NOTED ON PLANS.

NORTH 0 5' 10' 20'

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REGISTERED PROFESSIONAL ENGINEER TIMOTHY ANDREW EXP: 9/30/19 No. 84210 CIVIL STATE OF CALIFORNIA

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1"=20'

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Sheet Title

DEMOLITION PLAN

Sheet Number

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## LEGEND

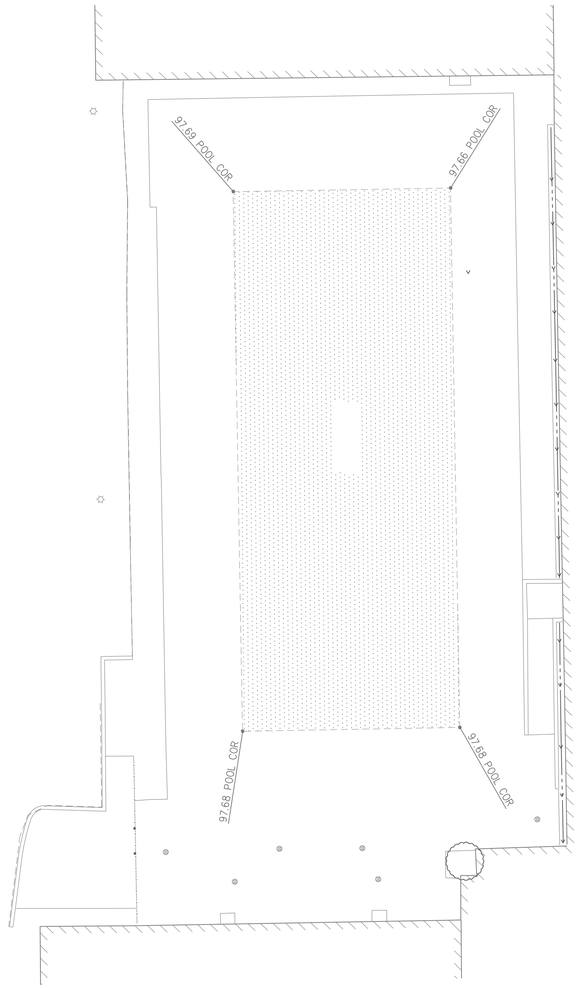
1. (P) CURB PER C3.10/A. CURB TO BE PAINTED YELLOW WITH "LOADING ONLY" IN BLACK LETTERS, PER THE CITY OF SAN RAFAEL MUNICIPAL CODE.
2. (P) CURB PER C3.10/A. CONFORM TO (E) CURB WHERE (P) CURB BEGINS AND ENDS.
3. MISSION AND FIFTH AVE ARE MORATORIUM STREETS. FULL WIDTH RESURFACING ALONG THE LENGTH OF CURB TO BE REPLACED IS REQUIRED BY THE CITY. THE EXISTING PAVEMENT ON FIFTH AVE IS 32.5 LF IN WIDTH, AND THE EXISTING PAVEMENT ON MISSION AVE IS 22.5 LF IN WIDTH.

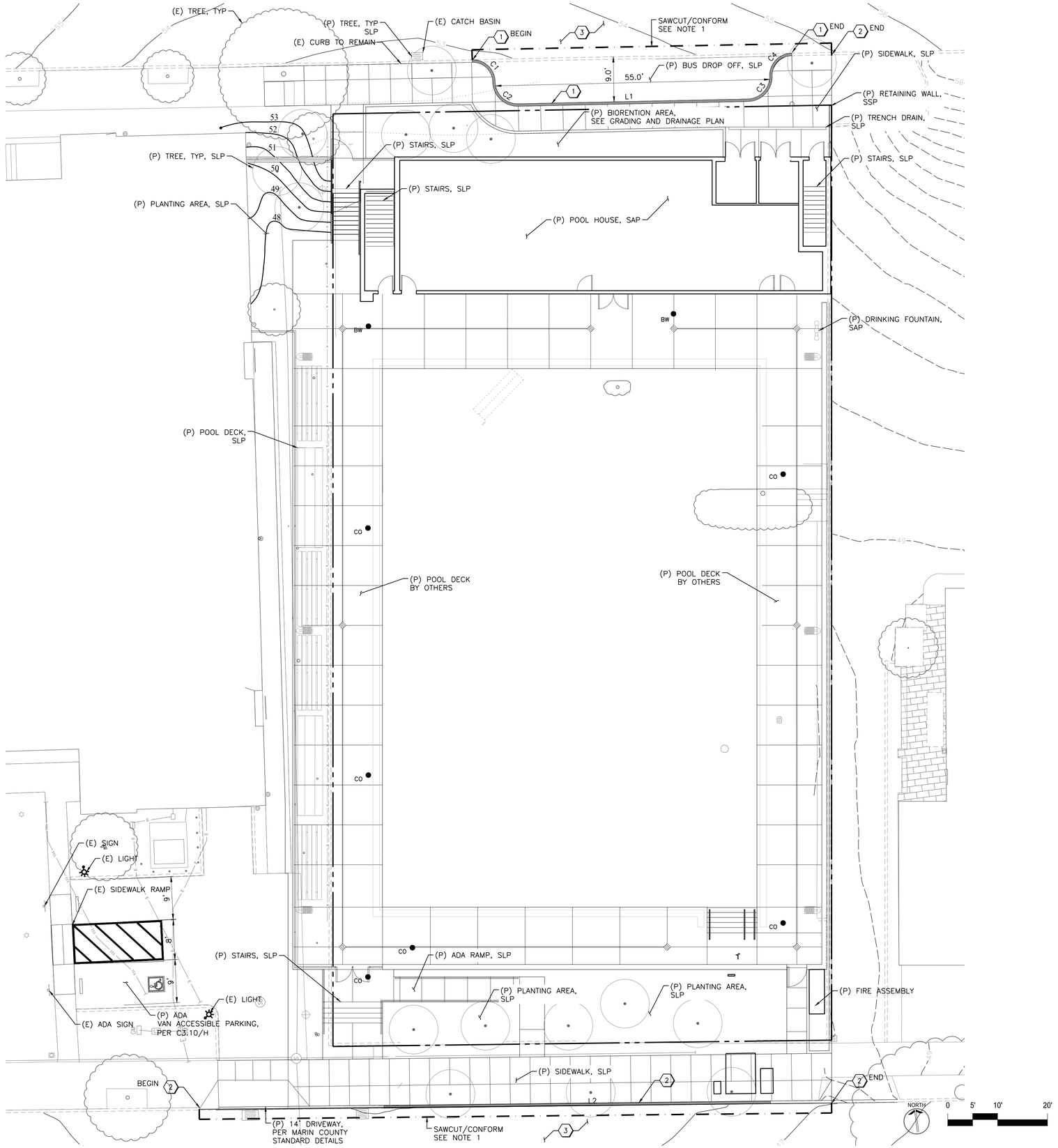
| LINE TABLE | | |
|---|---|---|
| LINE # | LENGTH | DIRECTION |
| L1 | 46.00 | S83° 41' 57.17"E |
| L2 | 77.54 | S83° 12' 49.92"E |

| CURVE TABLE | | | |
|---|---|---|---|
| CURVE # | LENGTH | RADIUS | DELTA |
| C1 | 7.09 | 4.50 | 090.35 |
| C2 | 7.09 | 4.50 | 090.18 |
| C3 | 7.09 | 4.50 | 090.22 |
| C4 | 7.09 | 4.50 | 090.28 |

### SITE IMPROVEMENT NOTES

1. A 2" GRIND AND OVERLAY SHALL EXTEND ENTIRE WIDTH OF ROAD TO LIP OF GUTTER
2. SEE LANDSCAPE PLANS FOR CONCRETE FINISH AND SCORE PATTERN.
3. SEE LANDSCAPE PLANS FOR SITE FURNISHINGS, PLANTING PLANS, LAYOUT, AND IRRIGATION.
4. SEE ARCHITECTURAL PLANS FOR POOL HOUSE DETAILS.
5. SEE STRUCTURAL PLANS FOR RETAINING WALLS AND POOL HOUSE FOUNDATION DETAILS.




# MARIN ACADEMY AQUATIC CENTER

MARIN ACADEMY
1600 MISSION AVE,
SAN RAFAEL
CALIFORNIA 94901


ehdd.

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EHDD Job Number
17067

Sheet Title
SITE IMPROVEMENT PLAN

Sheet Number
C1.00


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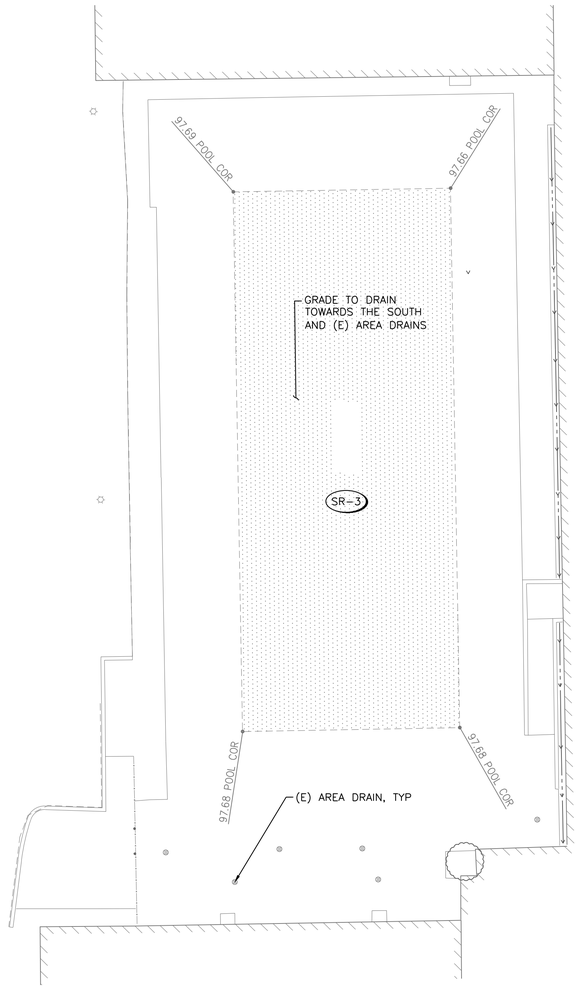
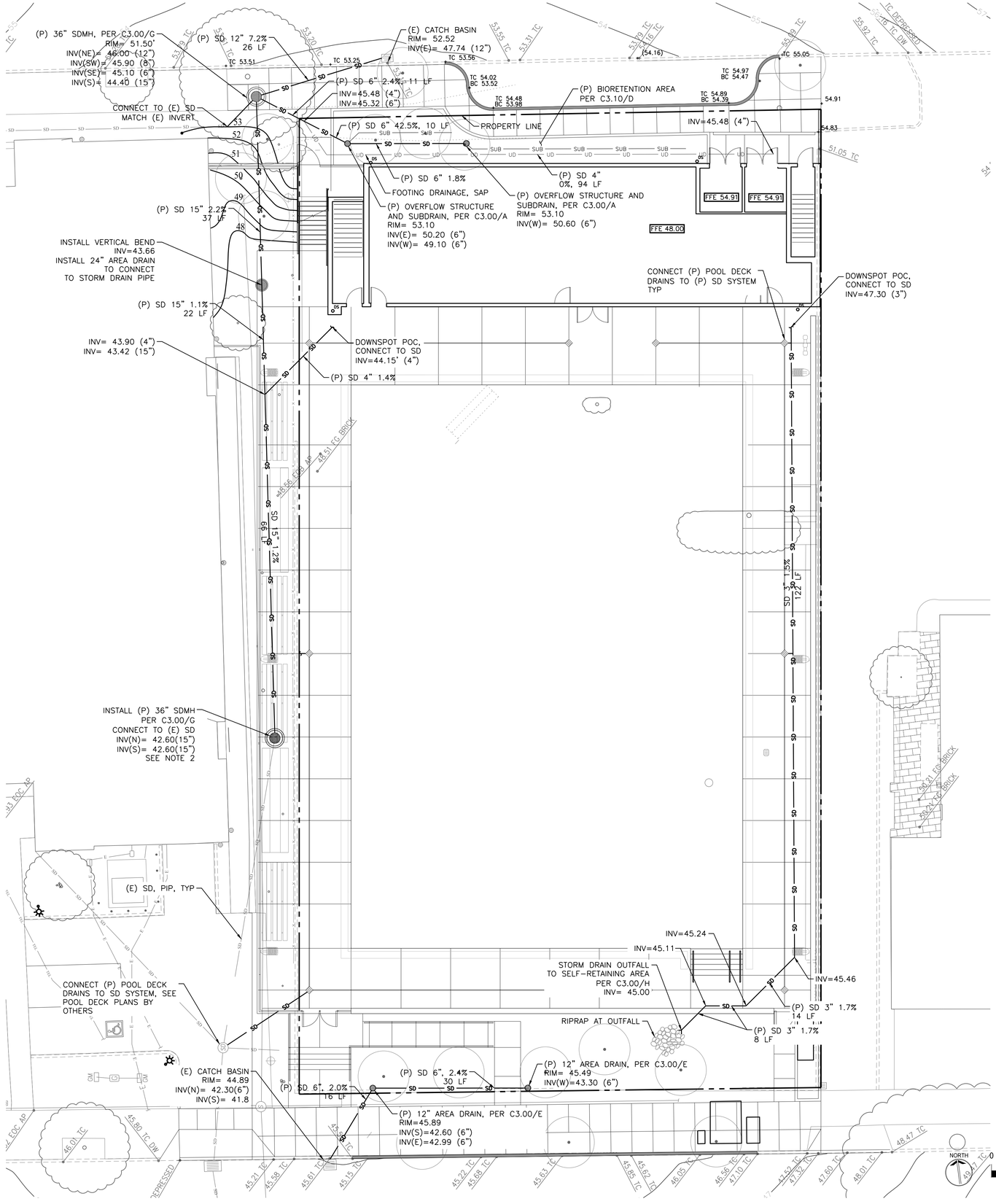
## LEGEND

| | |
|---|---|
| STORM DRAIN LINE | SD — SD |
| STORM DRAIN LATERAL | |
| MANHOLE | |
| AREA DRAIN | |
| CLEAN OUT | |
| DOWNSPOUT | |
| DRAINAGE ARROW | |
| UNDERDRAIN | UD — UD |
| ROOF LEADER | RW — RW |
| TRENCH DRAIN | |
| DRAINAGE AREA | |
| PROPOSED CONTOUR | |
| SAWCUT | |
| SPOT GRADE | + XX.XX |
| SPOT GRADE EXISTING | + (XX.XX) |
| SPOT GRADE BY LANDSCAPE | (48.00) |
| SLOPE | X% |
| FINISH FLOOR ELEVATION | FFE XXX.X |
| DMA LABEL | XX-# |

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STATE OF CALIFORNIA

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| ZONING APPLICATION | 11.13.2019 |

Scale
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**TB/CA**

EHDD Job Number
**17067**

Sheet Title

GRADING AND DRAINAGE

Sheet Number

C2.00


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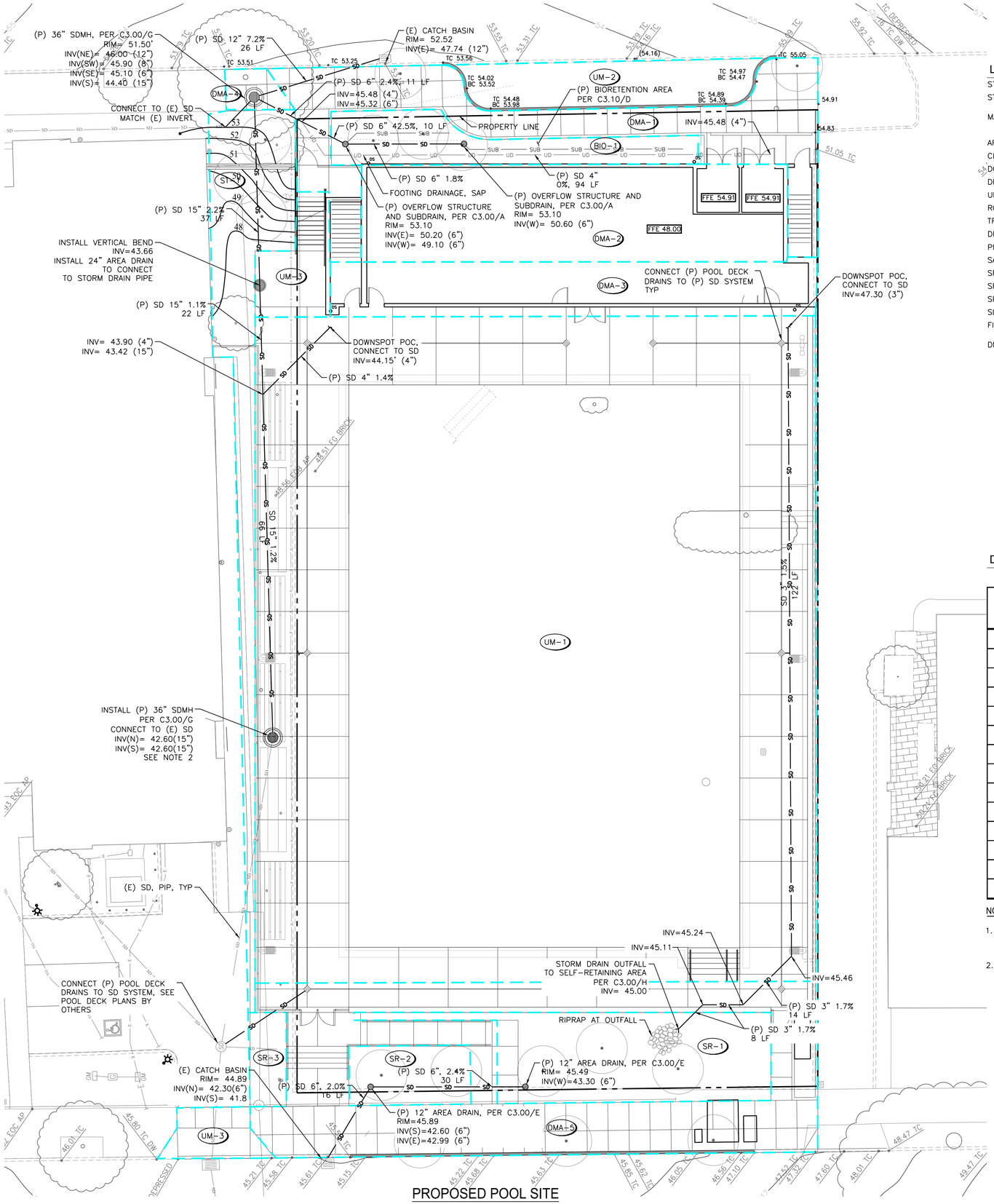


## LEGEND

| | |
|---|---|
| STORM DRAIN LINE | SD SD |
| STORM DRAIN LATERAL | |
| MANHOLE | |
| AREA DRAIN | |
| CLEAN OUT | |
| DOWNSPOUT | |
| DRAINAGE ARROW | |
| UNDERDRAIN | UD UD |
| ROOF LEADER | RW RW |
| TRENCH DRAIN | |
| DRAINAGE AREA | |
| PROPOSED CONTOUR | |
| SAWCUT | |
| SPOT GRADE | xx.xx |
| SPOT GRADE EXISTING | (xx.xx) |
| SPOT GRADE BY LANDSCAPE | (48.00) |
| SLOPE | x% |
| FINISH FLOOR ELEVATION | FFE XXX.X |
| DMA LABEL | XX-# |

## DRAINAGE MANAGEMENT AREAS

| Area | Area (sf) | Type |
|---|---|---|
| BIO-1 | 489 | biorention |
| DMA-1 | 1,244 | concrete |
| DMA-2 | 1,526 | roof |
| DMA-3 | 209 | roof |
| DMA-4 | 29 | concrete |
| DMA-5 | 2,247 | concrete |
| SR-1a | 946 | landscape |
| SR-1b | 265 | landscape |
| SR-2 | 83 | landscape |
| SR-3 | 2,290 | gravel |
| ST-1 | 964 | landscape |
| UM-1 | 13,717 | pool |
| UM-2 | 497 | pavement |
| UM-3 | 163 | pavement |

NOTES

1. INVERT ELEVATIONS OF EXISTING GRAVITY STORM DRAIN PIPES ARE ESTIMATED AT MID-PIPE CONNECTIONS. CONTRACTOR TO VERIFY INVERTS IN FIELD AND ALERT ENGINEER IF INVERTS DIFFER FROM PLANS.
2. SEE POOL AND LANDSCAPE PLANS FOR GRADES WITHIN BACK OF CURB.

NORTH 0 5' 10' 20'

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STORMWATER MANAGEMENT PLAN

Sheet Number

C2.01


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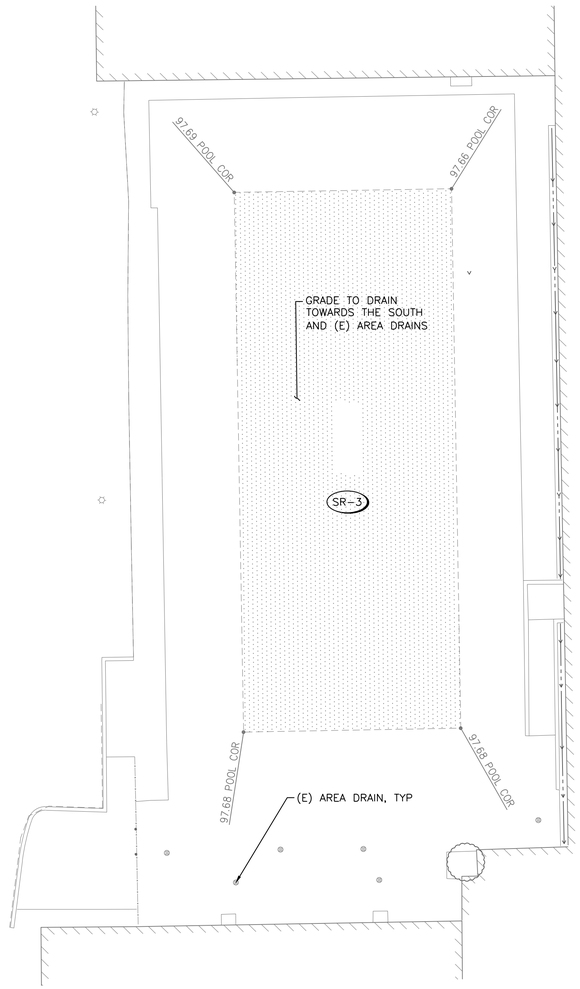


EXISTING POOL SITE

## LEGEND

| | |
|---|---|
| STORM DRAIN LINE | SD SD |
| STORM DRAIN LATERAL | |
| MANHOLE | |
| AREA DRAIN | |
| CLEAN OUT | |
| DOWNSPOUT | DS |
| DRAINAGE ARROW | |
| UNDERDRAIN | UD UD |
| ROOF LEADER | RW RW |
| TRENCH DRAIN | |
| DRAINAGE AREA | |
| PROPOSED CONTOUR | |
| SAWCUT | |
| SPOT GRADE | XX.XX |
| SPOT GRADE EXISTING | (XX.XX) |
| SPOT GRADE BY LANDSCAPE | (48.00) |
| SLOPE | X% |
| FINISH FLOOR ELEVATION | FFE XXX.X |
| DMA LABEL | XX-# |

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| DMA-2 | 1,526 | roof |
| DMA-3 | 209 | roof |
| DMA-4 | 29 | concrete |
| DMA-5 | 2,247 | concrete |
| SR-1a | 946 | landscape |
| SR-1b | 265 | landscape |
| SR-2 | 83 | landscape |
| SR-3 | 2,290 | gravel |
| ST-1 | 964 | landscape |
| UM-1 | 13,717 | pool |
| UM-2 | 497 | pavement |
| UM-3 | 163 | pavement |

NOTES

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2. SEE POOL AND LANDSCAPE PLANS FOR GRADES WITHIN BACK OF CURB.

NORTH 0 5' 10' 20'

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STORMWATER MANAGEMENT PLAN

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## LEGEND

EARTHWORK AREA BOUNDARY

AREA OF CUT

AREA OF FILL

### EARTHWORK ANALYSIS - PROPOSED POOL SITE

| CUT ANALYSIS (CY) | FILL ANALYSIS (CY) |
|---|---|
| 2,850.5 | 59.7 |

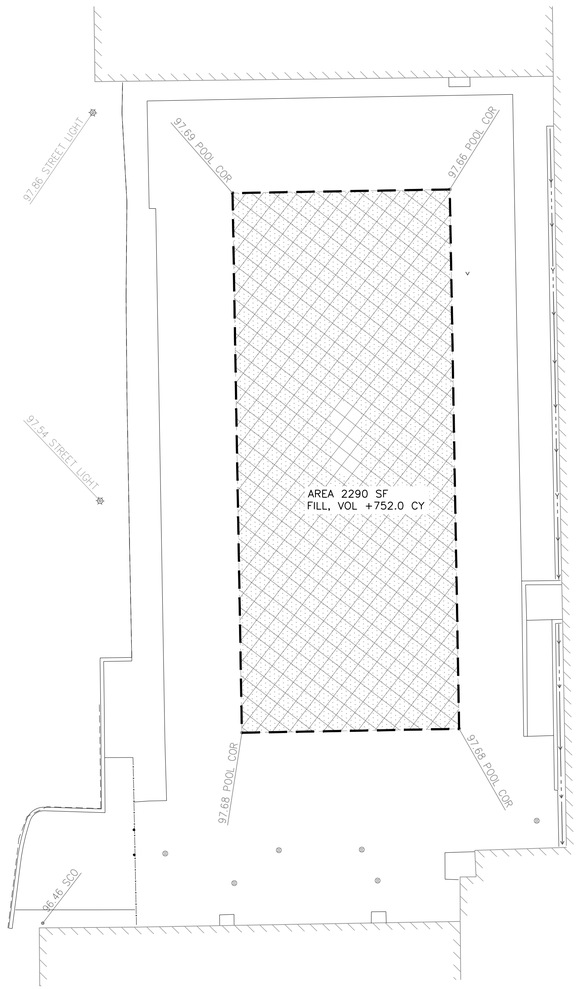
NET −2,790.8 (CUT)

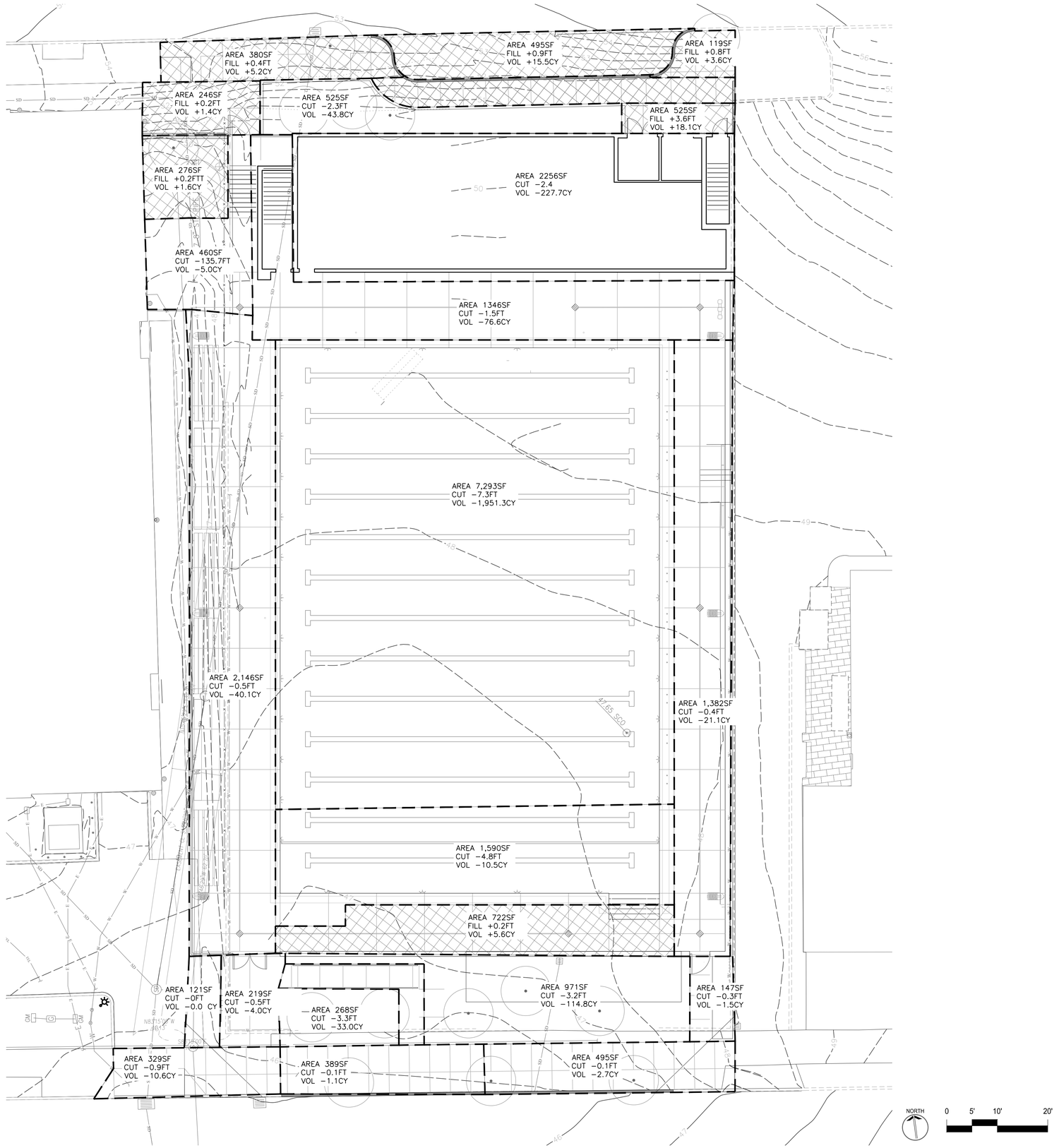
### EARTHWORK ANALYSIS - EXISTING POOL SITE

| CUT ANALYSIS (CY) | FILL ANALYSIS (CY) |
|---|---|
| 0.0 | 752.0 |

NET +752.0 (FILL)

SHERWOOD DESIGN ENGINEERS IS NOT AN ENGINEERING CONTRACTOR, NOR SHOULD OUR RENDERING OF CUT AND FILL EARTHWORK VOLUMES BE CONSIDERED EQUIVALENT TO THE NATURE AND EXTENT OF SERVICE AN ENGINEERING CONTRACTOR WOULD PROVIDE. THIS ESTIMATE IS BASED SOLELY ON OUR OWN ANALYSIS, WHICH IS AS ACCURATE AS THE INFORMATION PROVIDED TO US IN REGARDS TO EXISTING TOPOGRAPHY. THIS ANALYSIS WILL NOT REFLECT THE LOCALIZED SITE CONDITIONS NOT REPRESENTED ON THE TOPOGRAPHIC SURVEY, NOR THOSE THAT MAY BE ENCOUNTERED DURING EXCAVATION, SHRINKAGE, SWELL, LOSS DURING TRANSPORT AND SUBSIDENCE. THIS EARTHWORK VOLUME ANALYSIS SHOULD NOT BE USED FOR BID PURPOSES. DUE TO THESE FACTORS, SHERWOOD DESIGN ENGINEERS CANNOT GUARANTEE THE ACCURACY OF OUR EARTHWORK VOLUME ESTIMATE BEYOND USE AS A PLANNING TOOL.

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Sheet Title

EARTHWORK ANALYSIS

Sheet Number

C2.10


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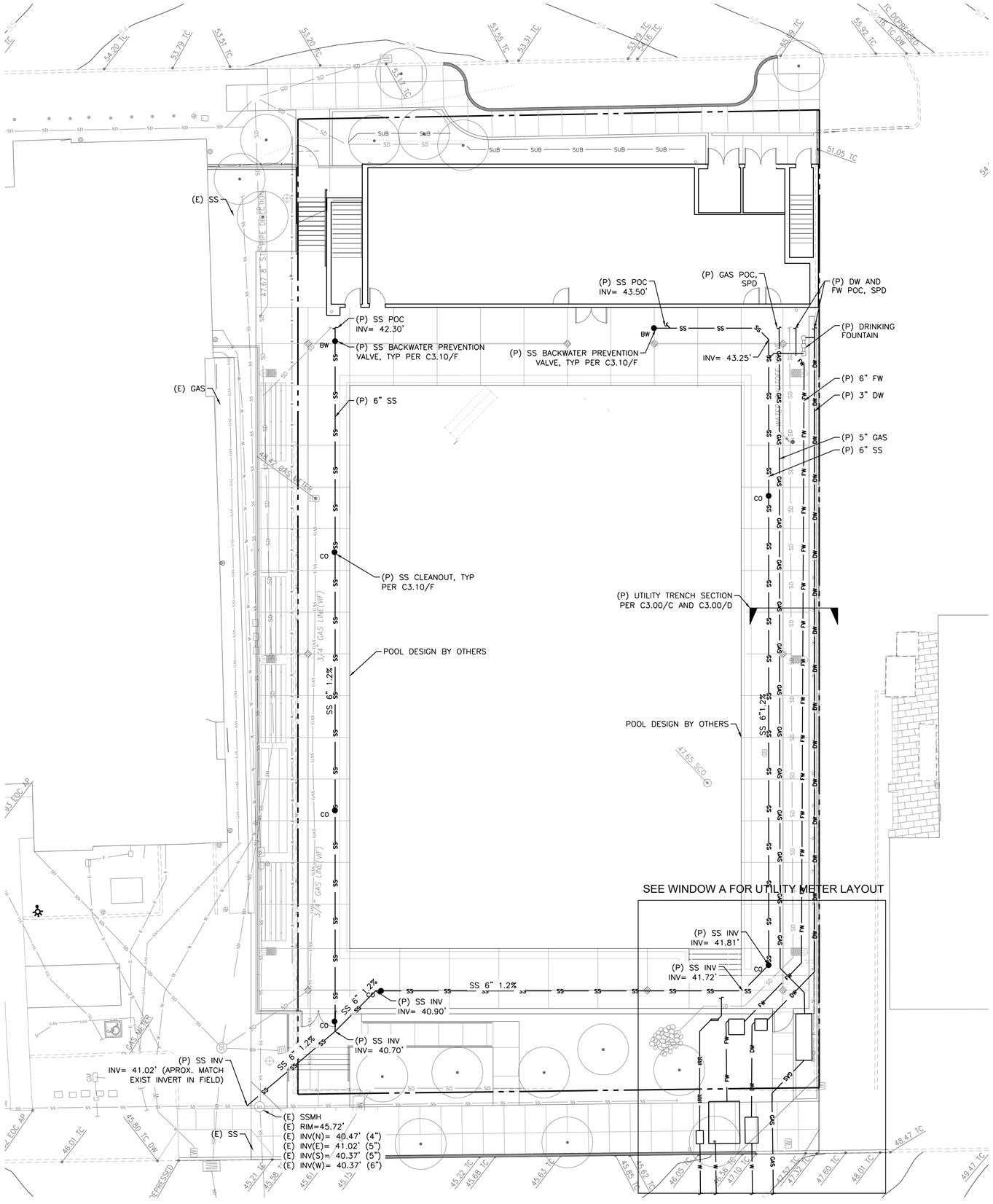
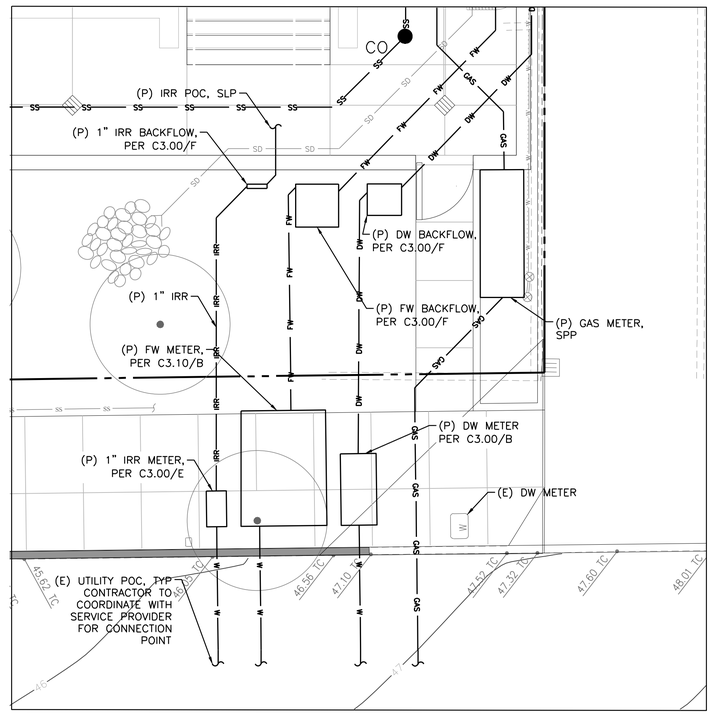



## LEGEND

| | |
|---|---|
| GAS LINE | GAS |
| SANITARY SEWER LINE | SS |
| WATER SERVICE | W |
| DOMESTIC WATER LINE | DW |
| FIRE WATER LINE | FW |
| IRRIGATION LINE | IRR |
| SANITARY SEWER MANHOLE | SS |
| WATER METER | |
| FIRE HYDRANT | |
| BACKFLOW PREVENTER | |

WINDOW A

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Sheet Title
UTILITY LAYOUT

Sheet Number
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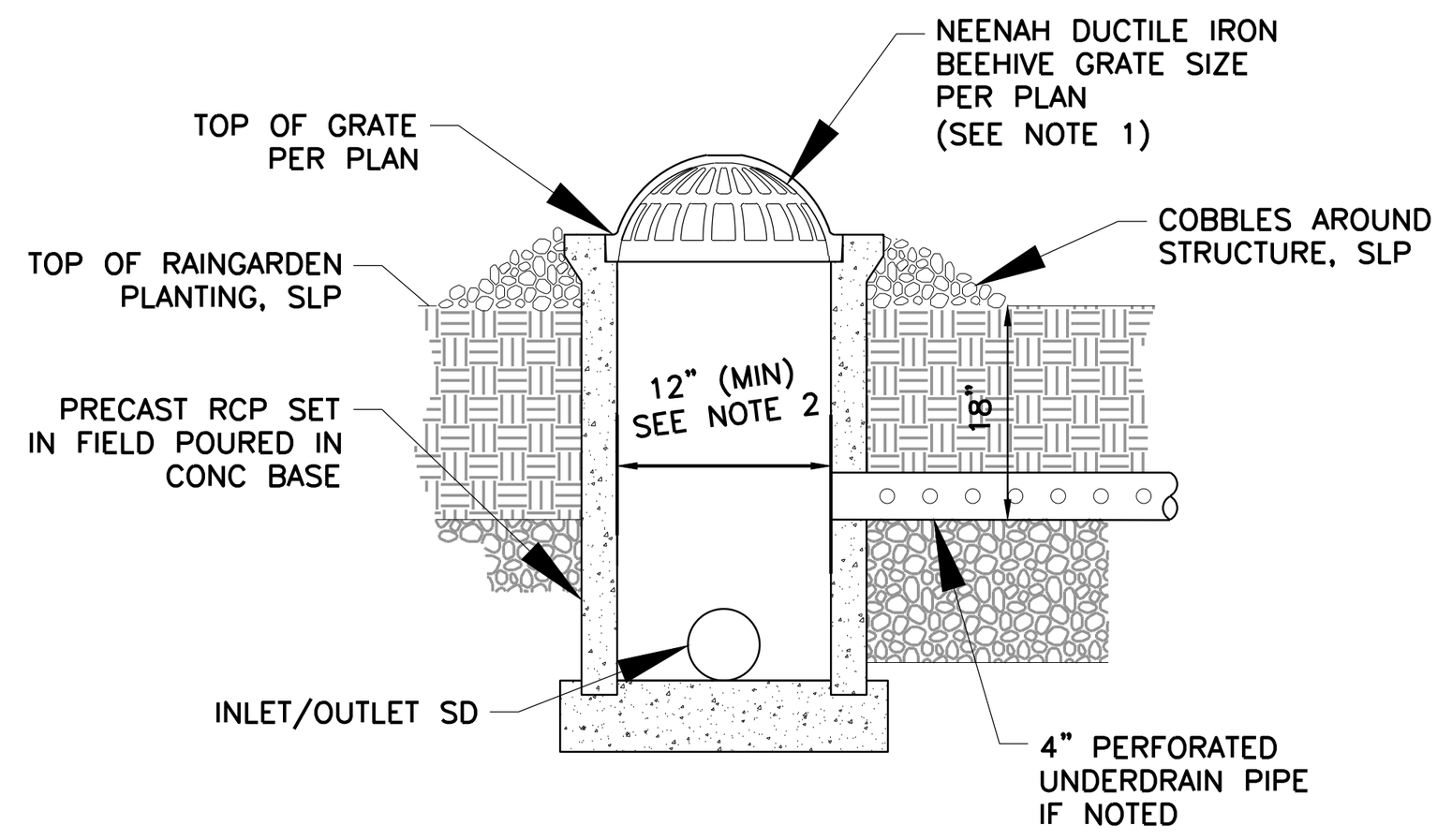


CONSTRUCTION NOTES:

1. SIZE OF GRATE SHALL MATCH SIZE OF RISER SPECIFIED IN PLANS, SHALL BE REMOVABLE TO PROVIDE MAINTENANCE ACCESS, AND SHALL BE BOLTED IN PLACE OR OUTFITTED WITH APPROVED TAMPER-RESISTANT LOCKING MECHANISM. MAXIMUM GRATE OPENING SHALL BE 4 INCHES.
2. IF INTERIOR DEPTH OF OVERFLOW STRUCTURE EXCEEDS 5 FEET, A PERMANENT BOLTED LADDER AND MINIMUM CLEAR SPACE OF 30 IN BY 30 IN SHALL BE PROVIDED FOR MAINTENANCE ACCESS.

## A OVERFLOW STRUCTURE

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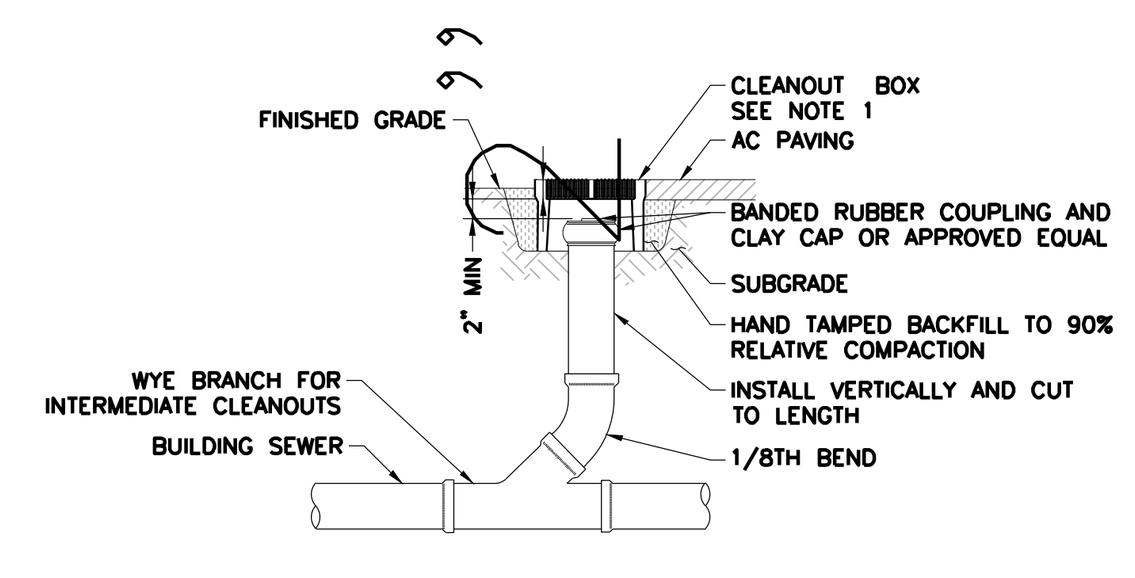
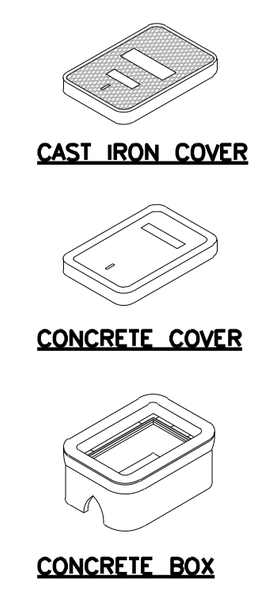



ELEVATION

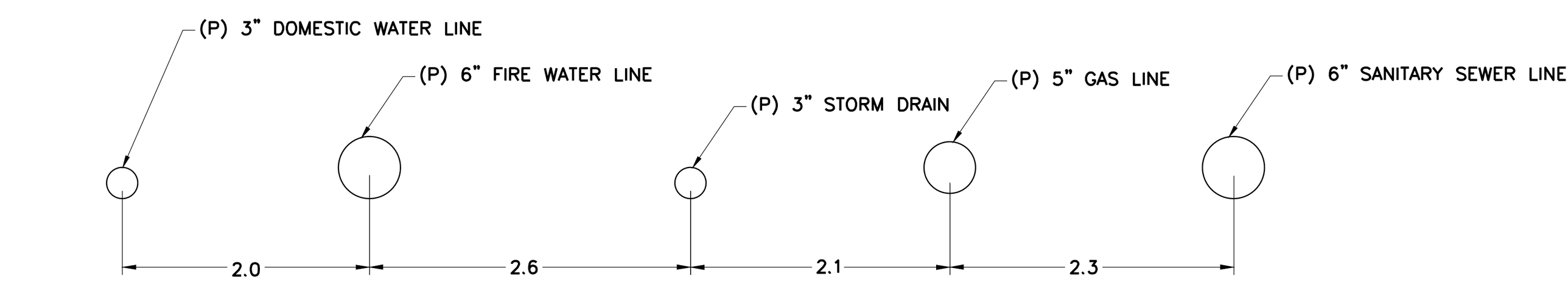



NOTES

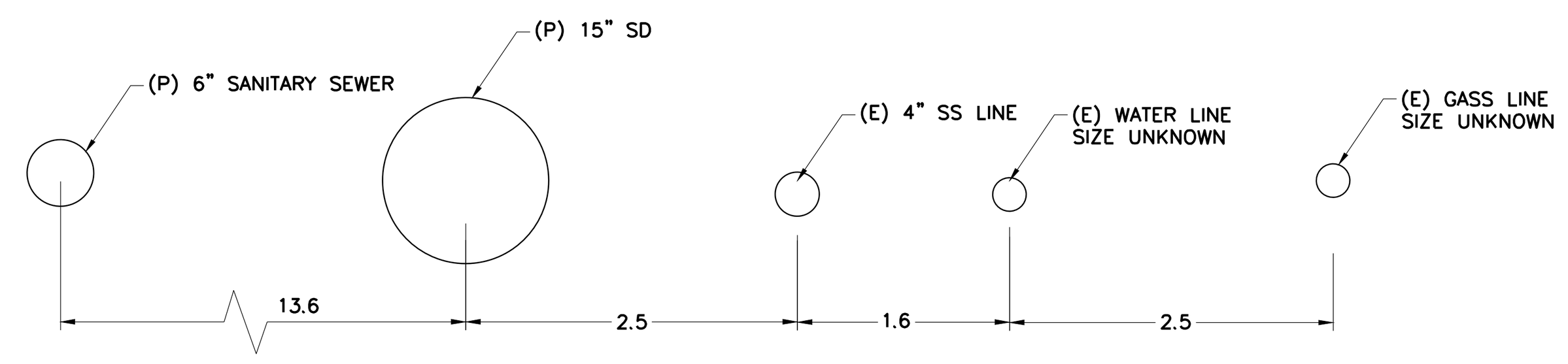
1. A RECTANGULAR BOX AS SHOWN ABOVE SHALL BE USED FOR CLEANOUTS THAT ARE CAPPED USING A BANDED RUBBER COUPLING.
2. CIRCULAR BOXES (CHRISTY OR APPROVED EQUAL) ARE PERMITTED FOR CLEANOUTS THAT ARE CAPPED WITH A SCREW TYPE CAP OR OTHER APPROVED TOP OPENING CAPS.
3. CIRCULAR BOXES INSTALLED IN SIDEWALK AREAS SHALL HAVE A SOLID COVER WITHOUT HOLES.
4. APPROVED RECTANGULAR BOXES ARE:
   A. CHRISTY CONCRETE PRODUCT B3 BOX WITH A B3D CONCRETE LID OR A B3C METAL LID.
   OR
   B. BROOKS PRODUCTS, INC. No. 3 METER BOX WITH A NO.3 HEAVY DUTY CONCRETE LID OR A No. 3 CAST IRON TRAFFIC LID OR AN APPROVED EQUAL.
5. CONCRETE LIDS ARE ACCEPTABLE FOR USE IN NON VEHICULAR TRAFFIC AREAS, WHILE METAL LIDS MUST BE USED IN TRAFFIC AREAS.
6. ALL CLEANOUT BOX LIDS SHALL BE LABELED "STORM" OR "SEWER" AS APPROPRIATE.
7. BRING TO SURFACE WITH TEMPORARY PLUG. AFTER ALL BACKFILL IS COMPLETE AND SUB-GRADE ESTABLISHED IN AREAS TO BE PAVED, THE FINAL RISER PIPE AND BOX SHALL BE INSTALLED AS SHOWN.

## B CLEANOUT

SCALE: NTS




UTILITIES EAST OF POOL

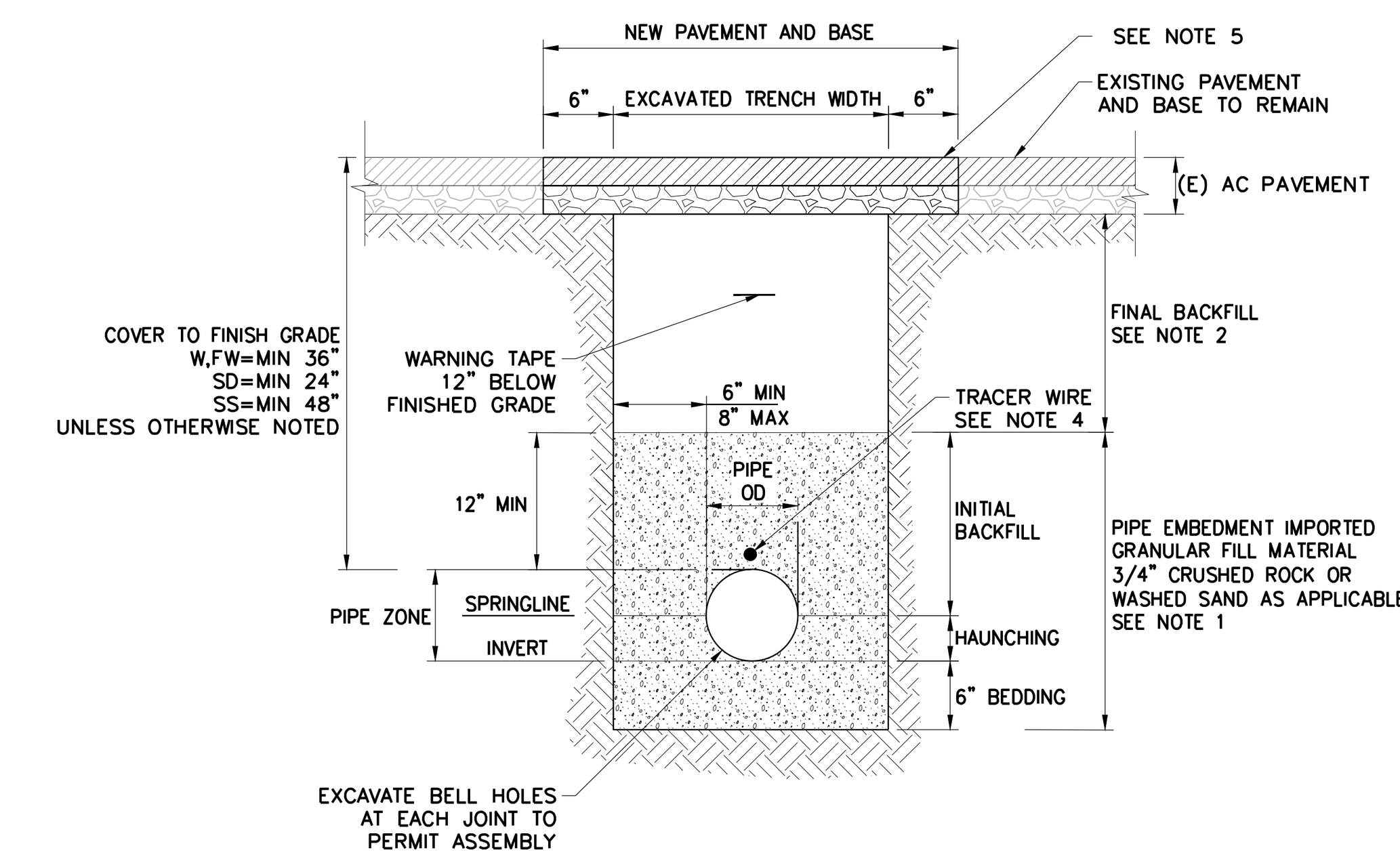



UTILITIES WEST OF POOL

*SEE DRAINAGE AND UTILITY PLANS FOR INVERT ELEVATIONS

## C UTILITY TRENCH

SCALE: NTS

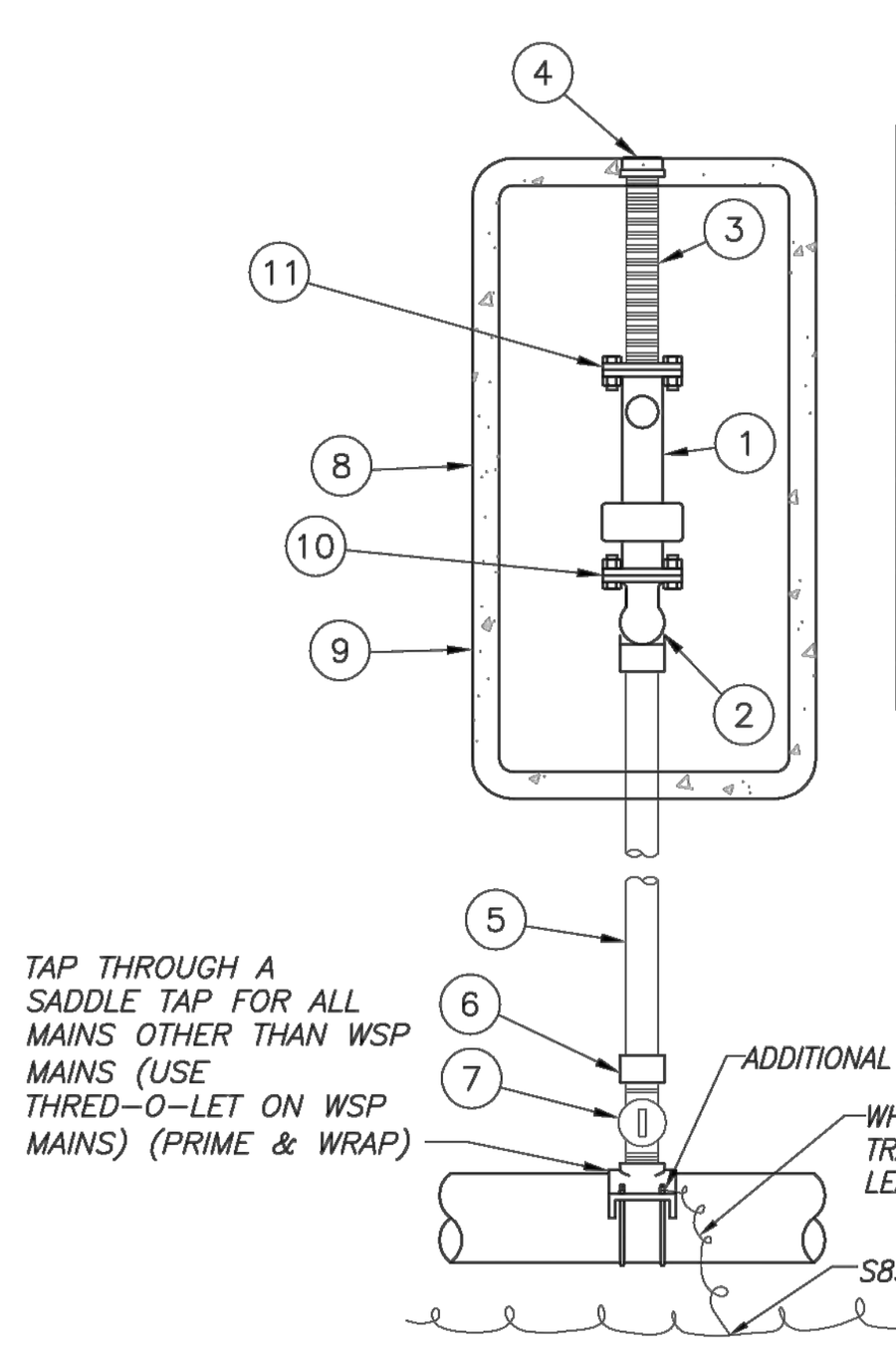



NOTES

1. FOR WATER AND FIRE WATER USE WASHED SAND AND FOR STORM DRAIN AND SANITARY SEWER USE GRANULAR FILL MATERIAL, 3/4" CRUSHED ROCK FOR BEDDING, HAUNCHING AND INITIAL BACKFILL MATERIAL. SAND MATERIAL SHALL BE COMPACTED TO 90% PROCTOR DENSITY. REFER TO PROJECT SPECIFICATIONS ACCORDINGLY.
2. FINAL BACKFILL SHALL CONSIST OF EXCAVATED NATIVE SOIL WHERE SUITABLE FOR FILL, COMPACTED TO 90% PROCTOR DENSITY IN NON-TRAFFIC AREAS. IF EXCAVATED MATERIAL IS NOT SUITABLE, USE IMPORTED GRANULAR MATERIAL. 3/4" CRUSHED ROCK AS APPROVED BY GEOTECHNICAL ENGINEER.
3. BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" MAXIMUM.
4. FOR WATER AND FIRE WATER MAINS INSTALL SINGLE STRAND 12" COPPER WIRE.
5. REMOVE A MINIMUM 6" OF PAVEMENT SURFACE BEYOND EDGE OF TRENCH WHEN INSTALLING UTILITY UNDER EXISTING SURFACE WHERE APPLICABLE PER PLAN.

## D UTILITY TRENCH

SCALE: NTS




MATERIAL LIST

| ITEM NUMBER | DESCRIPTION | NUMBER REQUIRED |
|---|---|---|
| 1 | 2" FLANGED TURBO METER | 1 |
| 2 | 2" COMP x FLG, ANGLE CURB COCK, MUELLER OR EQUAL | 1 |
| 3 | 2" THREADED BRASS NIPPLE (10" LONG) | 1 |
| 4 | 2" THREADED CAP | 1 |
| 5 | 2" COPPER TUBING | |
| 6 | 2" FPT x COMP COUPLING (H15451) | 1 |
| 7 | 2" CORPORATION COCK (NO. 15023) | 1 |
| 8 | CHRISTY B-36 METER BOX WITH COVER | 1 |
| 9 | LUMBER BLOCKS (2x12 REDWOOD) (NOTE 5) | 4 |
| 10 | 2" FLANGE INSULATING KIT | 1 |
| 11 | 2" METER FLANGE | 1 |

NOTES:

1. PRIME AND WRAP ALL BARE METAL IN CONTACT WITH GROUND EXCEPT METAL BONNET AND 3" CAP
2. INSTALL METER BOX 4" ABOVE FINISH GRADE IF IN PLANTER AREA.
3. BURY ANODE 2 FEET BELOW PIPE.
4. PROPER BACKFLOW PROTECTION MUST BE INSTALLED ON THE CONSUMER SIDE OF METER ASSEMBLY.
5. INSTALL REDWOOD BLOCKS UNDER METER BOX ALONG EACH EDGE, SIMILAR SERVICE METER BOX.

**2" IRRIGATION METER**

| NO SCALE | FILE NO. SD0078 | APPROV. BY: JM | REV. DATE: MAY '08 |
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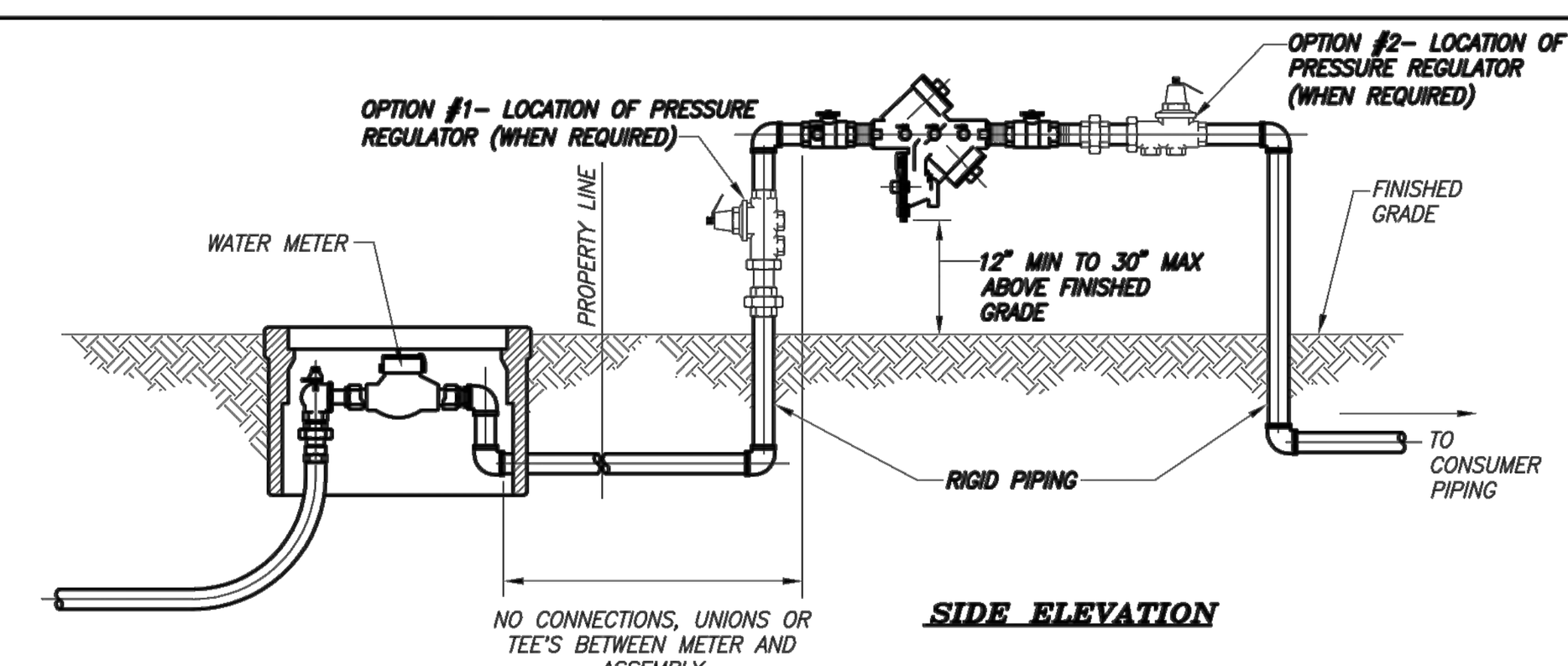
Back to page 1

## E 2" IRRIGATION METER

SCALE: NTS




SIDE ELEVATION

NOTES:

1. Backflow prevention assemblies shall be only those approved by the District.
2. Any deviation from the methods described herein must receive approval prior to installation.
3. Backflow prevention assemblies shall be installed on the customer's property, at the meter, in an orientation shown on the MMWD Approved Assembly List with 12 inches clearance completely around the assembly to allow for testing and maintenance.

   No outlets, tees, taps, by-passes other connections, temporary or permanent shall be installed between the water meter and the backflow prevention assembly. Wye strainer with plugged tap (no method to flush allowed), pressure reducing valve and union may be installed before the backflow prevention assembly. All other appurtenances shall be installed downstream.
4. Alternate installation locations or arrangements shall be reviewed and approved by the District prior to installation.

SPECIAL NOTES:

1. Installation of a backflow prevention assemblies creates a closed water system. Thermal expansion protection is required by the California Plumbing Code.
2. Where necessary the backflow prevention assembly should be protected from vehicle or freeze damage.
3. Water services which cannot be turned off for short durations should have backflow prevention assemblies installed in parallel.
4. Please see the California Plumbing Code for other aspects of installation requirements.

SDE NOTE:

FOR DOMESTIC WATER, USE FEBCO MODEL LF886V OR EQUIVALENT
FOR FIRE WATER, USE FEBCO MODEL LF876V OR EQUIVALENT
FOR IRRIGATION, USE FEBCO MODEL LF850 OR EQUIVALENT

**BACKFLOW ASSEMBLY STANDARD INSTALLATION DIAGRAM**

| NO SCALE | FILE NO. SD0092 | APPROV. BY: DS | REV. DATE: APR '12 |
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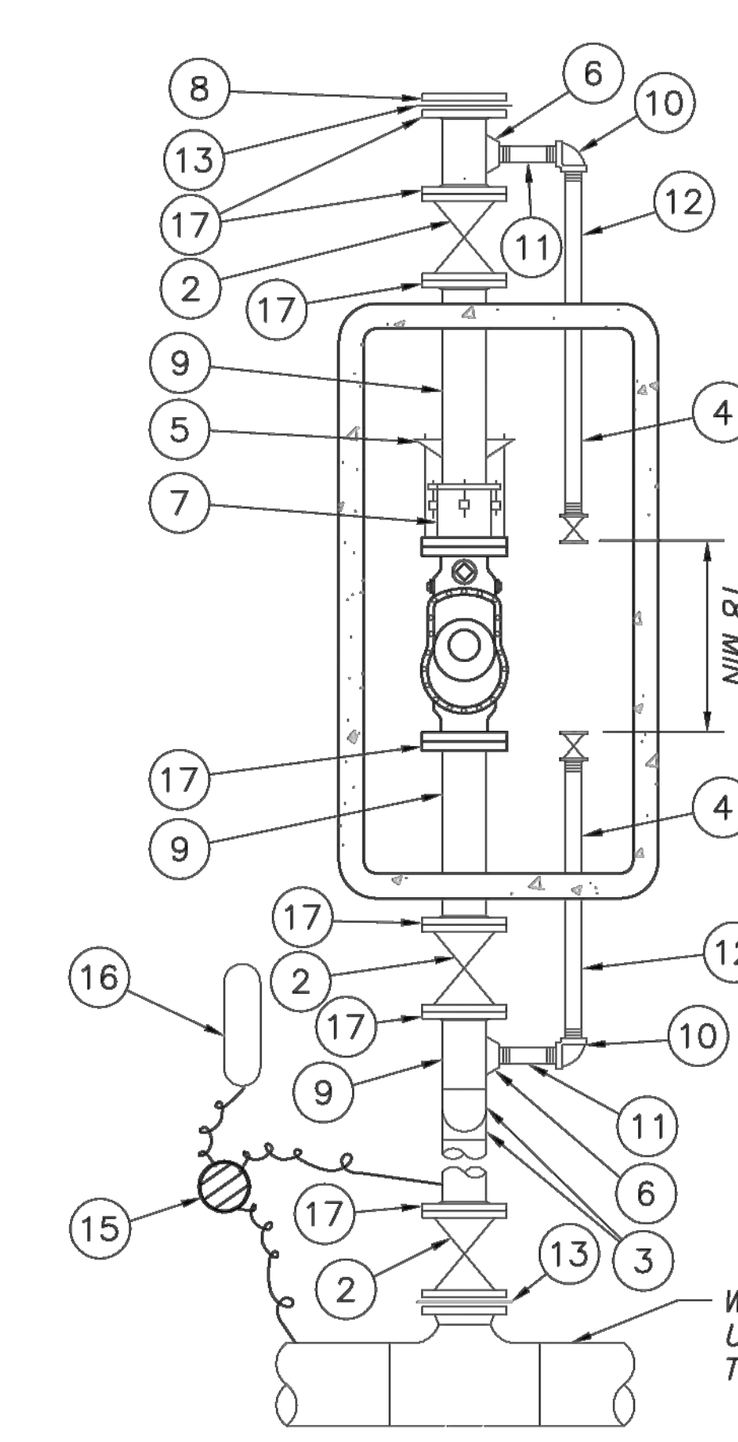
Back to page 1

## F BACKFLOW ASSEMBLY

SCALE: NTS




MATERIAL LIST

| ITEM NO | DESCRIPTION | NO REQUIRED |
|---|---|---|
| 1 | 4" FLANGED COMPOUND METER | 1 |
| 2 | 4" FLANGED GATE VALVE | 3 |
| 3 | 4" 90° WELD ELL | 2 |
| 4 | 2" THREADED BRASS GATE VALVE | 2 |
| 5 | HARNESS (2 RODS & 2 EARS) | 1 |
| 6 | 4"x2" THRED-O-LET | 2 |
| 7 | 4" FLANGE COUPLING ADAPTER | 1 |
| 8 | 4" BLIND FLG | 1 |
| 9 | 4" WELDED STEEL PIPE | |
| 10 | 2" THREADED BRASS ELBOW | 2 |
| 11 | 2" THREADED BRASS NIPPLE (8" LONG) | 2 |
| 12 | 2" BRASS PIPING | |
| 13 | 4" FLANGE INSULATING KIT | 2 |
| 14 | CHRISTY B-52 METER BOX AND B52-62G STEEL COVER | 1 |
| 15 | TYPE "C"CTS | 1 |
| 16 | 32# PACKAGED ANODE | 1 |
| 17 | 4" SLIP-ON FLANGE | 7 |

NOTES:

1. PRIME AND WRAP ALL BARE METAL IN CONTACT WITH GROUND EXCEPT METAL BONNET AND 4" BLIND FLG.
2. INSTALL METER BOX 4" ABOVE FINISH GRADE IF IN PLANTER AREA.
3. BURY ANODE 2 FEET BELOW PIPE.
4. SERVICES FOR SCHOOLS, HOSPITALS, LARGE BUILDINGS AND IRRIGATION, INSTALL PROPER BACKFLOW PREVENTION ON CONSUMER SIDE OF BYPASS.

**4" COMPOUND METER WITH BYPASS**

| NO SCALE | FILE NO. SD0055 | APPROV. BY: RKT | REV. DATE: 3-1-96 |
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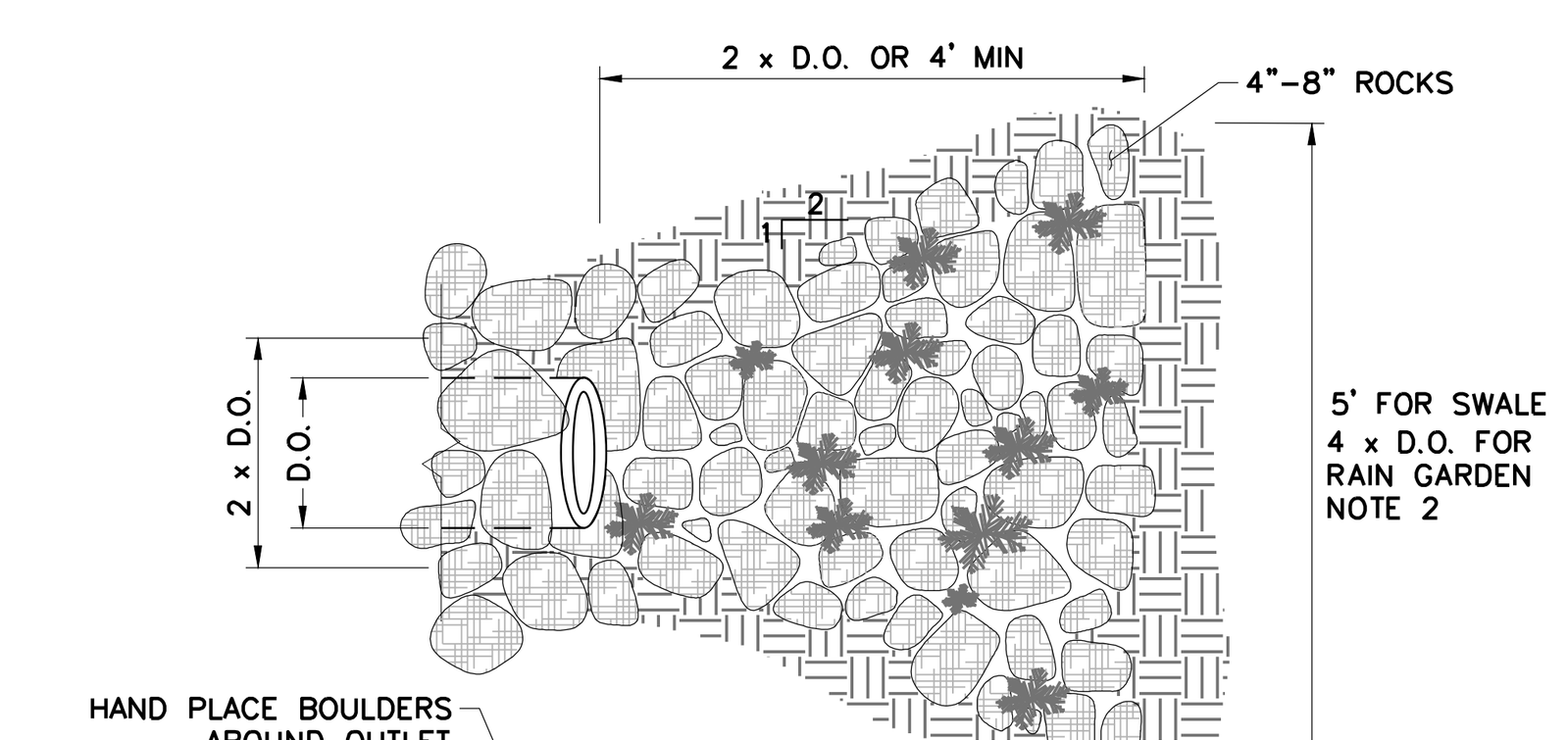
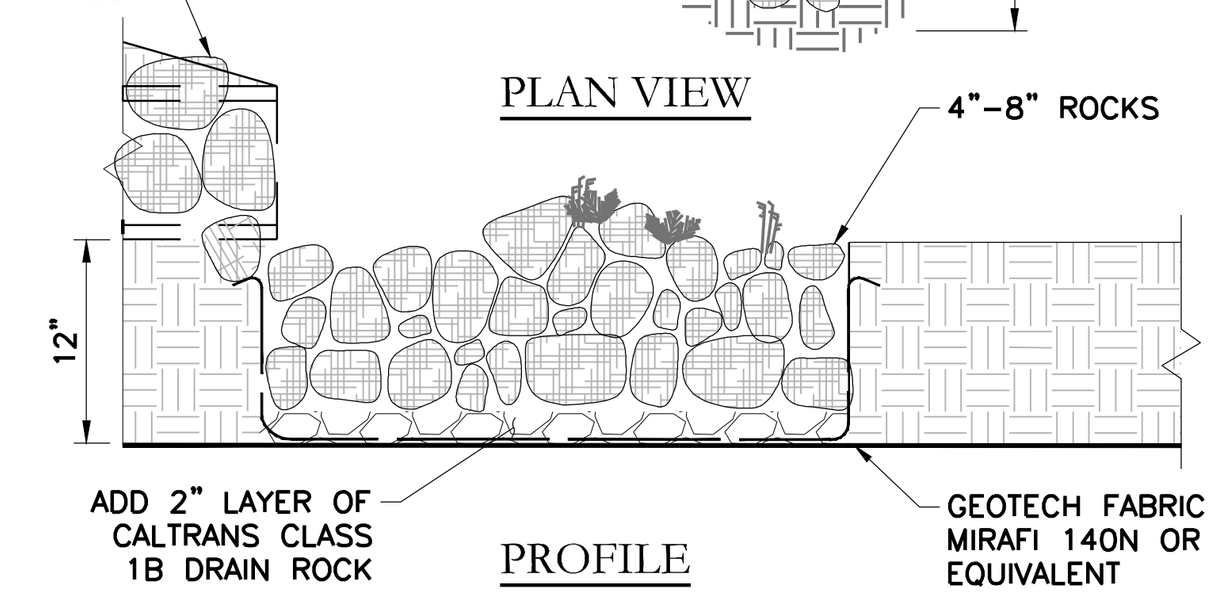
Back to page 1

## G 4" COMPOUND METER WITH BYPASS

SCALE: NTS




PLAN VIEW




PROFILE

NOTES

1. INITIAL WIDTH OF STONE APRON SHALL BE AT A MINIMUM EQUAL TO TWICE THE OUTLET PIPE DIAMETER (D.O.).
2. AT A MINIMUM THE APRON SHALL FAN OUT AT 2:1 (LONGITUDINAL:LATERAL) UP TO AN ULTIMATE WIDTH EQUAL TO THAT OF THE RECEIVING SWALE; IN THE CASE OF A RAIN GARDEN, FOUR (4) TIMES THE OUTLET PIPE DIAMETER.
3. ALL STONE PLACEMENT TO BE APPROVED BY ENGINEER IN THE FIELD PRIOR TO CONSTRUCTION.

## H STORM DRAIN OUTFALL

SCALE: NTS

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CODY ANDERSON
EXP: 9/30/19
No 84120
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STATE OF CALIFORNIA

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| ZONING APPLICATION | 11.13.2019 |

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EHDD Job Number
17067

Sheet Title
DETAILS

Sheet Number
C3.00

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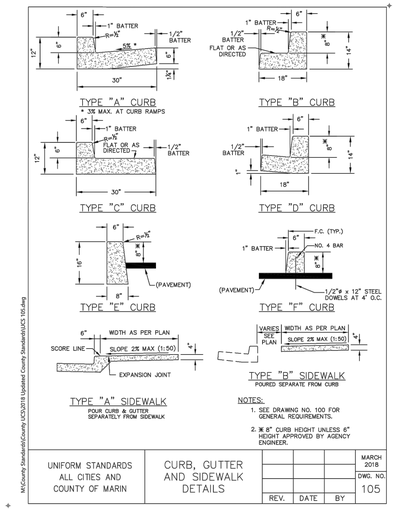
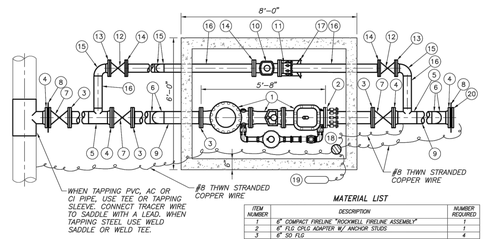



A CURB, GUTTER, AND SIDEWALK
SCALE: NTS




MATERIAL LIST

| ITEM NUMBER | DESCRIPTION | NUMBER REQUIRED |
|---|---|---|
| 1 | 6" COMPACT FIRELINE "ROCKWELL FIRELINE ASSEMBLY" | 1 |
| 2 | 6" FLG CPLG ADAPTER W/ ANCHOR STUDS | 1 |
| 3 | 6" SO FLG | 4 |
| 4 | 6" MN FLG | 4 |
| 5 | 6"x 4" WELD TEE | 2 |
| 6 | 6" 90° WELD ELL | 4 |
| 7 | 6" FE GV | 3 |
| 8 | 6" FLG INSL KIT | 2 |
| 9 | 6" WELDED STEEL PIPE | 1 |
| 10 | 6" FE TURBO MTR | 1 |
| 11 | 4" FLG CPLG ADAPTER | 1 |
| 12 | 4" FE GV | 2 |
| 13 | 4" MN FLG | 2 |
| 14 | 4" SO FLG | 3 |
| 15 | 4" 90° WELD ELL | 4 |
| 16 | 4" WELDED STEEL PIPE | 1 |
| 17 | HARNESS (3 RODS AND 2 EARS) | 1 |
| 18 | TYPE "C" CTS | 1 |
| 19 | 32 LB ANODE | 1 |
| 20 | 6" BLIND FLG TAPPED 2" W/ 2" CTP PLUG | 1 |

NOTES:
1. PRIME AND WRAP ALL BARE METAL IN CONTACT WITH GROUND EXCEPT METAL BONNET AND 6" BLIND FLG.
2. INSTALL VAULT 4" ABOVE FINISH GRADE IF IN PLANTER AREA.
3. BURY ANODE 2 FEET BELOW PIPE.
4. SERVICES FOR SCHOOLS, HOSPITALS, LARGE BUILDINGS AND IRRIGATION, INSTALL PROPER BACKFLOW PREVENTION ON CONSUMER SIDE OF BYPASS.

6" FIRE LINE WATER METER ASSEMBLIES

| NO SCALE | FILE NO. SD0056 | APPROV. BY: EI | REV. DATE: FEB '18 |
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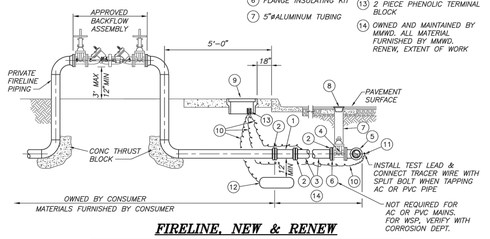
Back to page 1

B 6" WATER LINE FIRE METER ASSEMBLY
SCALE: NTS

NOTES:
1. CONSUMER SHALL MARK LOCATION FOR PROPOSED ASSEMBLY FOR MMWD REVIEW & APPROVAL. ALL MMWD PIPING MUST BE IN THE PUBLIC EASEMENT. ASSEMBLY SHALL HAVE 12" CLEAR ALL AROUND. METER SHALL BE IN ACCESSIBLE LOCATION.
2. CONSUMER FURNISHED APPROVED BACKFLOW ASSEMBLY MUST BE ON SITE FOR MMWD INSPECTION PRIOR TO ANY MMWD PIPING INSTALLATION.
3. WRAP ALL BARE METAL BELOW GROUND.
4. CHLORINATE & TEST PRIOR TO CONNECTION.
5. TEST CORROSION SYSTEM PRIOR TO CONNECTION.
6. HOT TAP OF EX MAIN TO BE COORDINATED WITH MMWD.
7. MMWD WILL NOT TURN ON FIRELINE UNTIL FINAL PAVING & SIDEWALKS ARE COMPLETE.

MMWD FURNISHED MATERIAL

1. HDPE SPOOL KIT, SEE TORQUE SPEC.
2. SLIP-ON FLANGE
3. WELDED STEEL PIPE
4. GATE VALVE
5. TAPPING SLEEVE, TEE OR WELDED OUTLET
6. FLANGE INSULATING KIT
7. 5/8"ø ALUMINUM TUBING
8. CI VALVE CAP
9. B9 METER BOX
10. #8 THWN STANDARD COPPER WIRE
11. #5BS SPLIT BOLT CONNECTOR
12. 32# MAGNESIUM ANODE WITH PACKAGED BACKFILL W/ WIRE.
13. 2 PIECE PHENOLIC TERMINAL BLOCK
14. OWNED AND MAINTAINED BY MMWD. ALL MATERIAL FURNISHED BY MMWD. RENEW, EXTENT OF WORK




FIRELINE, NEW & RENEW

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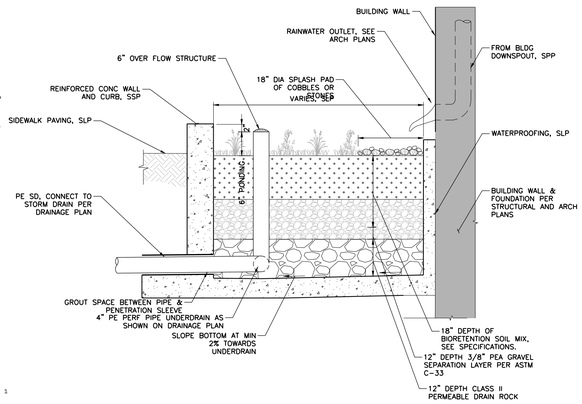
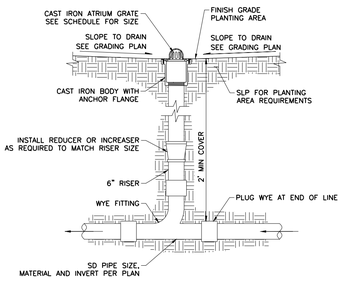
|---|---|---|---|

Back to page 1

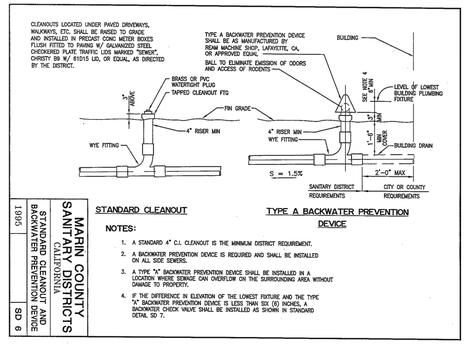
C FIRELINE, NEW, RENEW
SCALE: NTS




D BIORETENTION PLANTER
SCALE: NTS




E AREA DRAIN
SCALE: NTS

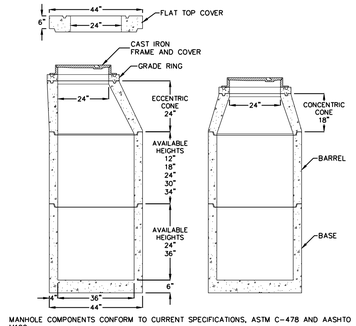



STANDARD CLEANOUT

NOTES:
1. A STANDARD 4" C.I. CLEANOUT IS THE MINIMUM DISTRICT REQUIREMENT.
2. A BACKWATER PREVENTION DEVICE IS REQUIRED AND SHALL BE INSTALLED ON ALL SSE SEWERS.
3. A TYPE "A" BACKWATER PREVENTION DEVICE SHALL BE INSTALLED IN A LOCATION WHERE SEWAGE CAN OVERFLOW ON THE SURROUNDING AREA WITHOUT DAMAGE TO PROPERTY.
4. IF THE DIFFERENCE IN ELEVATION OF THE LOWEST FIXTURE AND THE TYPE "A" BACKWATER PREVENTION DEVICE IS LESS THAN SIX (6) INCHES, A BACKWATER CHECK VALVE SHALL BE INSTALLED AS SHOWN IN STANDARD DETAIL SD 7.

TYPE A BACKWATER PREVENTION DEVICE

F SS CLEANOUT AND BACKWATER PREVENTION DEVICE
SCALE: NTS

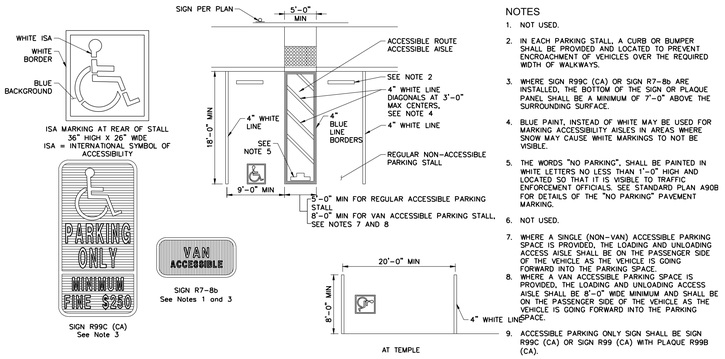



MANHOLE COMPONENTS CONFORM TO CURRENT SPECIFICATIONS, ASTM C-478 AND AASHTO M199.

FLAT TOPS AND BASE SLABS ARE DESIGNED FOR AASHTO HS-20 WHEEL LOADING.

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

G 36" MANHOLE
SCALE: NTS




NOTES
1. NOT USED.
2. IN EACH PARKING STALL, A CURB OR BUMPER SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED WIDTH OF WALKWAYS.
3. WHERE SIGN R99C (CA) OR SIGN R7-8b ARE INSTALLED, THE BOTTOM OF THE SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 7'-0" ABOVE THE SURROUNDING SURFACE.
4. BLUE PAINT, INSTEAD OF WHITE MAY BE USED FOR MARKING ACCESSIBILITY AISLES IN AREAS WHERE SNOW MAY CAUSE WHITE MARKINGS TO NOT BE VISIBLE.
5. THE WORDS "NO PARKING", SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 1'-0" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. SEE STANDARD PLAN A90B FOR DETAILS OF THE "NO PARKING" PAVEMENT MARKING.
6. NOT USED.
7. WHERE A SINGLE (NON-VAN) ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.
8. WHERE A VAN ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE 8'-0" WIDE MINIMUM AND SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.
9. ACCESSIBLE PARKING ONLY SIGN SHALL BE SIGN R99C (CA) OR SIGN R99 (CA) WITH PLAQUE R99B (CA).

H ADA PARKING STALL
SCALE: NTS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Sheet Title

DETAILS

Sheet Number

C3.10

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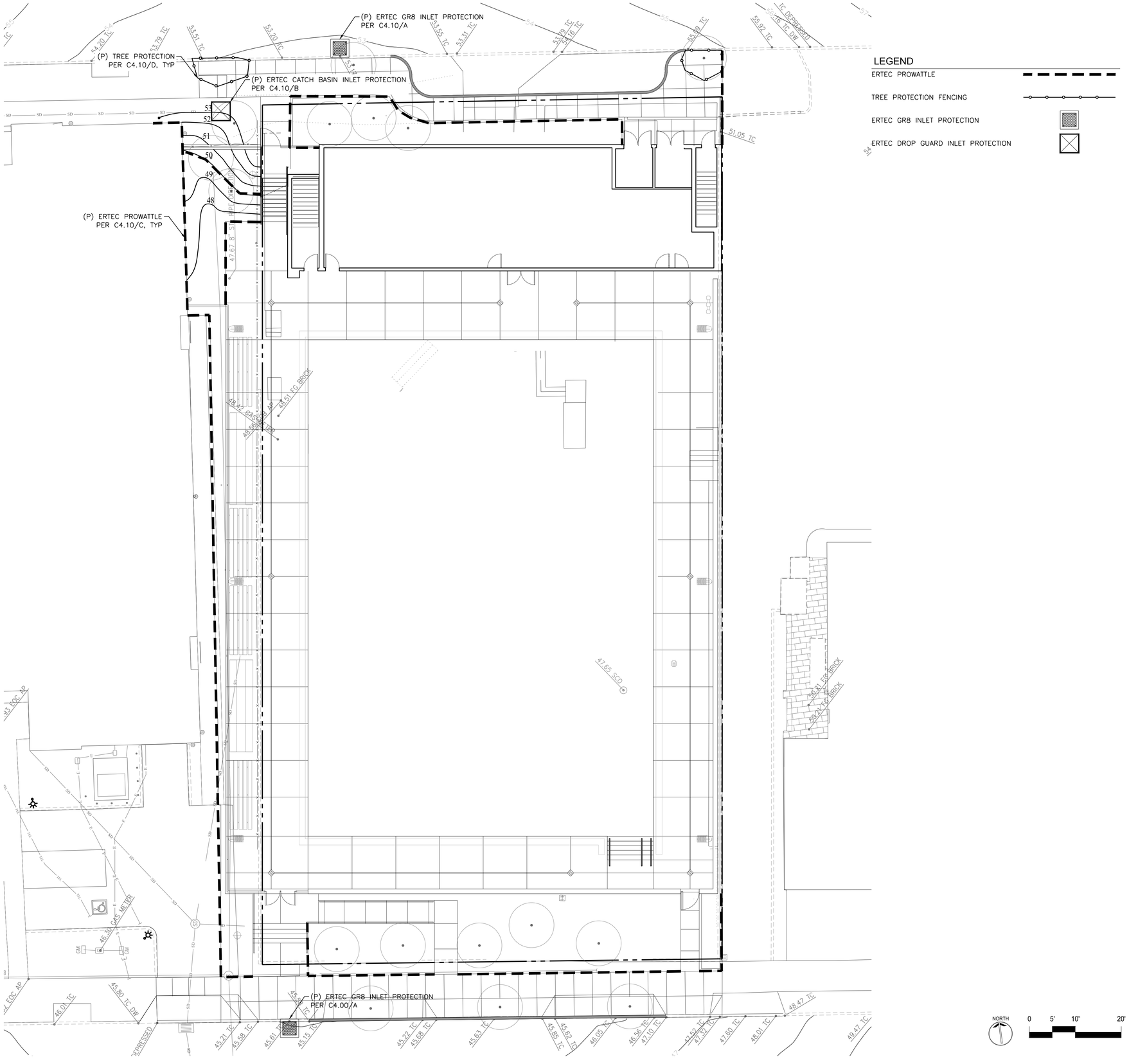


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EROSION CONTROL PLAN

Sheet Number

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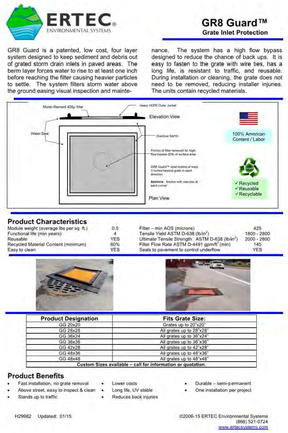


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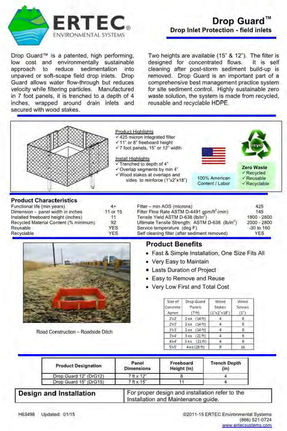
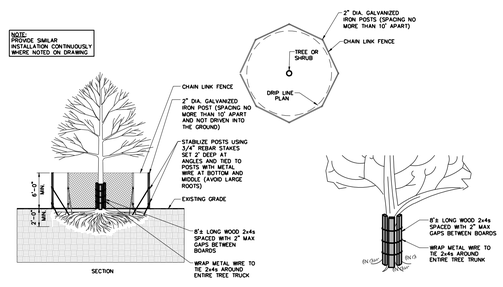



B ERTEC DROP GUARD INLET PROTECTION
SCALE: NTS




C ERTEC PROWATTLE
SCALE: NTS




D TREE PROTECTION
SCALE: NTS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| ZONING APPLICATION | 11.13.2019 |

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**17067**

Sheet Title

# EROSION CONTROL DETAILS

Sheet Number

# C4.10

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LANDSCAPE ELEMENTS

*POOL ENTRIES:* ENTRIES TO THE AQUATIC CENTER WILL BE PAVED WITH COLORED, WATER-WASHED AGGREGATE CONCRETE PAVING. STEPS, WALLS AND RAMPS AT ENTRIES WILL BE COLORED AND FINISHED TO MATCH.

*POOL FENCING:* POOL FENCING WILL BE A COMBINATION OF SOLID FENCES WITH A COLORED, PLASTER FINISH AND METAL PICKET FENCING AND GATES AT THE ENTRIES AND ALONG THE STREET EDGES OF THE SITE. BLACK, VINYL COATED, CHAIN LINK FENCING WILL BE USED ALONG A PORTION OF THE WEST SIDE OF THE SITE ADJACENT TO THE EXISTING LIBRARY.

*SITE LIGHTING:* POLE LIGHTS TO MATCH THE EXISTING LIBRARY LIGHTS WILL BE USED AT THE POOL ENTRIES.

*SITE SIGNAGE:* ENTRY SIGNAGE MATCHING CURRENT CAMPUS SITE SIGNS WILL BE LOCATED AT THE 5TH AVENUE ENTRY.

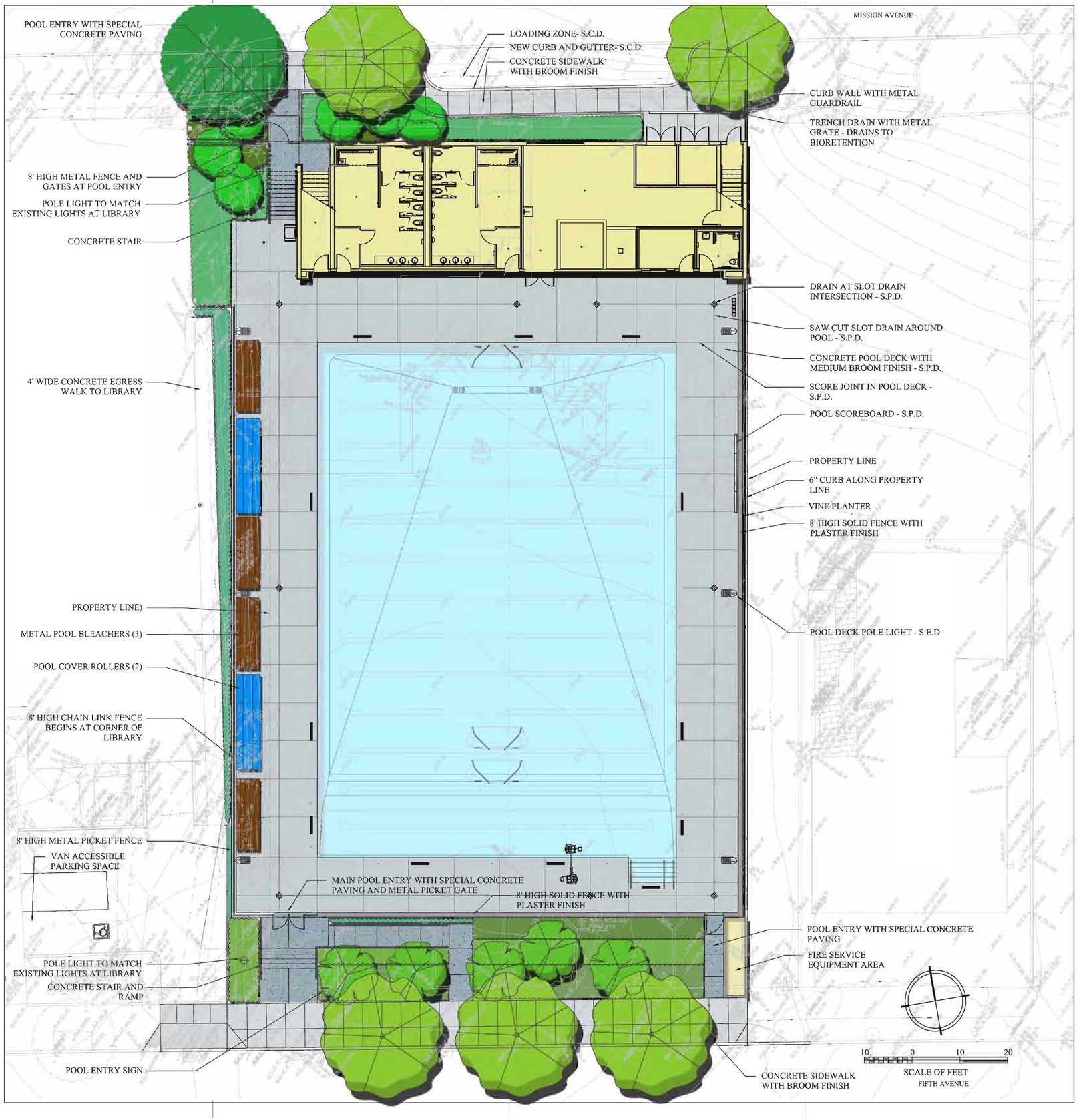
*POOL ELEMENTS:* POOL DECK WILL BE CONCRETE WITH A MEDIUM BROOM FINISH. POOL LIGHTING WILL BE POLE LIGHTS THAT CAN ILLUMINATE THE POOL AND DECK FOR EVENING USE.

*SIDEWALKS:* SIDEWALKS WILL BE BROOM FINISH CONCRETE TO MEET CITY STANDARDS.

*PLANT MATERIALS:* REFER TO SHEET L1.00B.

PROJECT SITE LANDSCAPE AREAS

| | |
|---|---|
| Site Area: | 18,723 sf |
| 10% Landscape Requirement: | 1,872 sf |
| Planting Area: | 1,534 sf |
| Entry Hardscape Area: | 470 sf |
| Total Landscape Area: | 2,004 sf |

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EHDD Job Number
**17067**

Sheet Title

## Landscape Plan

Sheet Number

# L1.00A

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## PLANTING CONCEPTS

THE PLANTING CONCEPT FOR THE PROJECT IS A BALANCE BETWEEN CONNECTING TO THE EXISTING CAMPUS LANDSCAPE FABRIC TO THE WEST AND USING A RICHER PLANT PALETTE TO HIGHLIGHT THE STREET FRONTAGES AND ENTRIES TO THE NEW AQUATIC CENTER.

*5TH AVENUE:* THE MAIN, SOUTH FACING, ENTRY TO THE AQUATIC CENTER IS HIGHLIGHTED BY ACCENT PLANTINGS OF FLOWERING TREES AND SHRUBS THAT MATCH THE SCHOOL COLORS. THE DEEP PLANTER ALONG THE STREET FEATURES A SHAPED MANZANITA HEDGE ALONG THE SITE WALL THAT IS A VISUAL EXTENSION OF THE HEDGES THAT LINE THE SIDEWALK ON THE CAMPUS TO THE WEST. THE RED FLOWERED ISLAND BUSH SNAPDRAGON EXTENDS ALONG THE BASE OF THE HEDGE, WITH CARMEL SUR GROUNDCOVER FILLING THE REMAINDER OF THE PLANTER. THE DEEP PLANTER IS HIGHLIGHTED WITH AN INFORMAL DRIFT OF FLOWERING DOGWOOD TREES, WHICH WILL PROVIDE SCALE AND SEASONAL INTEREST. THIS PLANTER WILL ALSO SERVE AS A RAIN GARDEN, HOLDING STORMWATER RUNOFF UNTIL IT CAN RECHARGE INTO THE SITE.

*MISSION AVENUE:* THE NORTH FACING ENTRY TO THE AQUATIC CENTER IS A SMALLER SCALE ENTRY, REFLECTING ITS PRIMARY USE BY THE STUDENTS. THIS ENTRY IS ALSO HIGHLIGHED BY ACCENT PLANTINGS, IN THIS CASE, RED-BERRIED COFFEEBERRY SHRUBS AND VINE MAPLES, UNDERPLANTED WITH CREEPING MAHONIA, WHICH WILL THRIVE IN THIS SHADY LOCATION. THE PLANTER ALONG THE STREET IS A BIORETENTION PLANTER, TREATING STORMWATER FROM THE ROOF. THE PLANT MATERIALS HAVE BEEN SELECTED FOR USE IN THIS TREATMENT PLANTER.

*PROJECT PERIMETER:* THE EDGES OF THE PROJECT HAVE BEEN TREATED SIMPLY, WITH CLIMBING BOSTON IVY PLANTED ON THE FACE OF THE EAST SITE WALL AND SMALL SCALE, SPREADING GREY RUSH PLANTED BETWEEN THE EDGE OF THE POOL DECK AND THE LIBRARY WALK.

*PLANT MATERIALS:* PLANT MATERIALS ARE PRIMARILY NATIVE, DROUGHT-TOLERANT, CLIMATE-ADAPTED PLANTINGS THAT PROVIDE SEASONAL INTEREST, BIRD AND BUTTERFLY HABIT, REQUIRE LOW MAINTENANCE AND WORK WITH PROJECT STORMWATER TREATMENT MEASURES.

## PLANT LIST

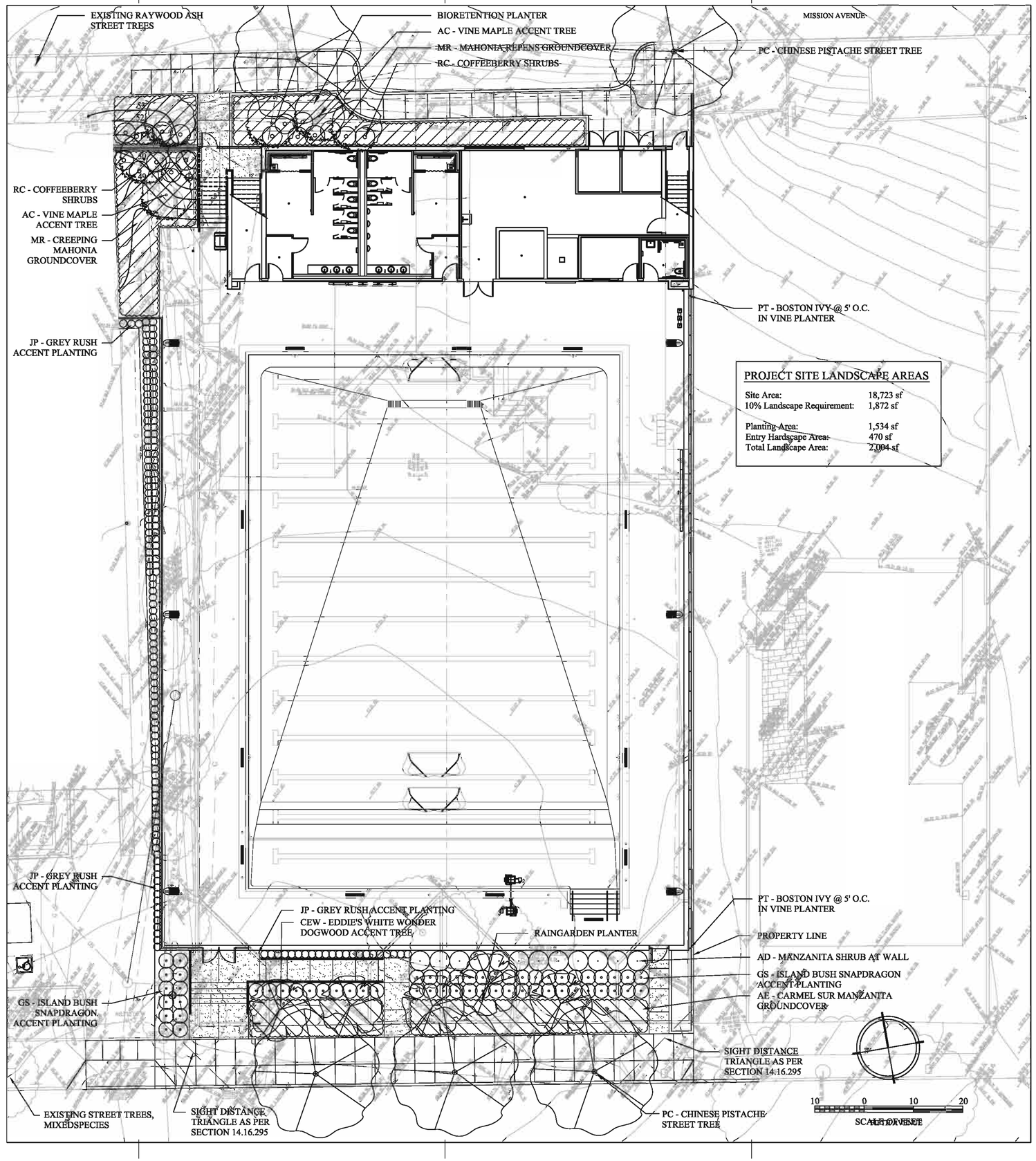
| KEY | QTY | SYMBOL | BOTANICAL NAME | COMMON NAME | SIZE | WATER USAGE |
|---|---|---|---|---|---|---|
| **TREES** | | | | | | |
| | 6 | AC | ACER CIRCINATUM | VINE MAPLE | 15 GAL | M |
| | 5 | CEW | CORNUS 'EDDIE'S WHITE WONDER' DOGWOOD | EDDIE'S WHITE WONDER DOGWOOD | 24" BOX | M |
| | 5 | PC | PISTACIA CHINENSIS (AS PER CITY OF SAN RAFAEL ARBORIST) | CHINESE PISTACHE | 24" BOX | L |
| **SHRUBS, VINES AND GRASSES** | | | | | | |
| | 12 | AD | ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN' | HOWARD MCMINN MANZANITA | 5 GAL | L |
| | 58 | GS | GALVEZIA SPECIOSA 'FIRECRACKER' | ISLAND BUSH SNAPDRAGON | 5 GAL | L |
| | 142 | JP | JUNCUS PATENS | CALIFORNIA GRAY RUSH | 1 GAL | L |
| | 34 | PT | PARTHENOCISSUS TRICUSPIDATA | BOSTON IVY | 1 GAL | L |
| | 17 | RC | RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' | COFFEEBERRY | 5 GAL | L |
| **GROUNDCOVER** | | | | | | |
| | - | AE | ARCTOSTAPHYLOS EDMUNDSII 'CARMEL SUR' | CARMEL SUR MANZANITA | 1 GAL | M |
| | - | MR | MAHONIA REPENS | CREEPING MAHONIA | 5 GAL | L |

## PLANTING NOTES

1. SOIL SHALL BE CONDITIONED AND AMENDED AS PER RESULTS OF A SOILS TEST AND SHALL MEET MINIMUM MARIN MUNICIPALWATER DISTRICT (MMWD) STANDARDS.
2. PLANTING AREAS SHALL BE MULCHED WITH A 3" DEPTH OF MULCH AS PER MMWD STANDARDS.

## IRRIGATION NOTES

1. THE IRRIGATION SYSTEM SHALL BE DESIGNED BY A CERTIFIED IRRIGATION DESIGNER TO MEET MMWD AND MAWA STANDARDS.

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**Landscape Planting Plan**

Sheet Number

**L1.00B**


Chinese Pistache Street Tree


Shaped Manzanita Hedge




Island Bush Snapdragon


Eddie's White Wonder Dogwood


Manzanita Groundcover


California Gray Rush

## 5th Avenue Plant Materials


Chinese Pistache Street Tree


Vine Maple


Coffeeberry


Creeping Mahonia

## Mission Avenue Plant Materials


Vine Maple


Coffeeberry


Creeping Mahonia


California Gray Rush


Boston Ivy

## Perimeter Plant Materials


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**Plant Images**

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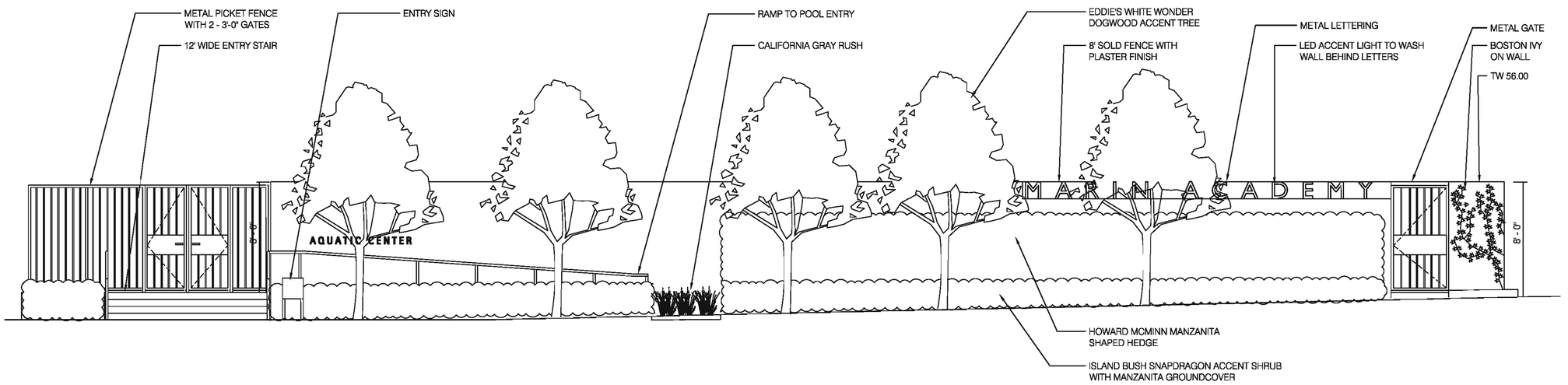


ELEVATION

1 SOUTH FENCE AND GATE
1/4" = 1' - 0"

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Sheet Title

**Landscape Elevation**

Sheet Number

# L1.00D

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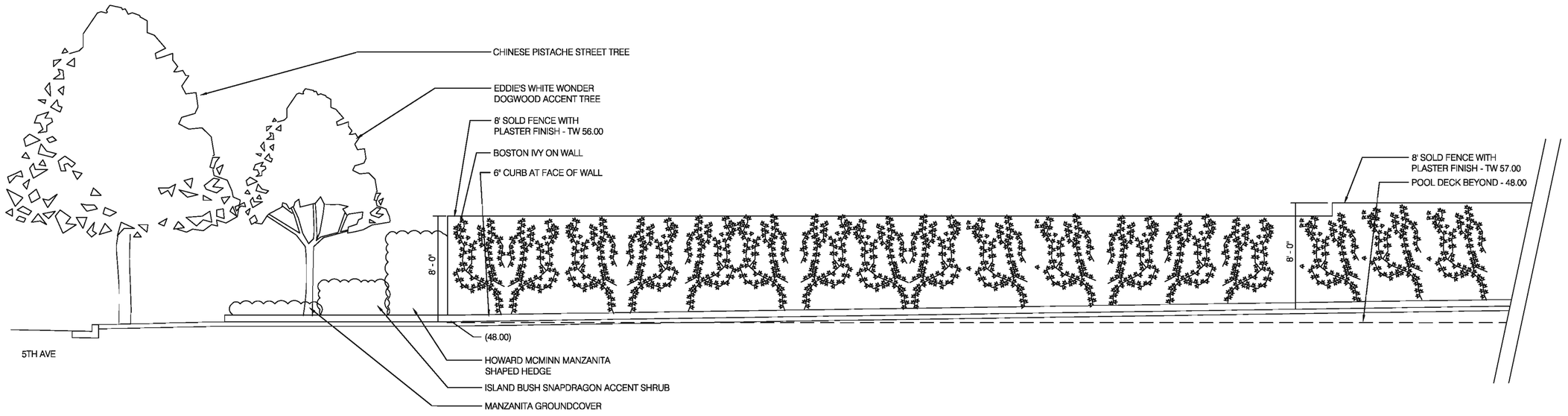
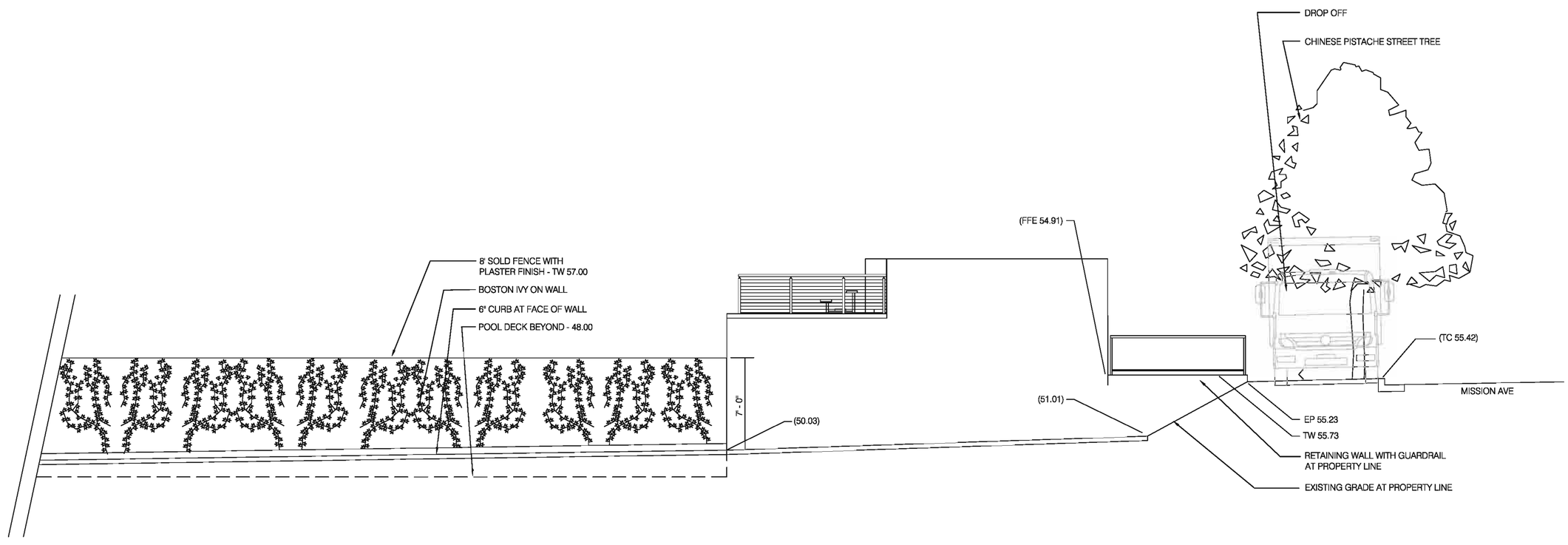



ELEVATION

## 1A EAST FENCE AT PROPERTY LINE

1/4" = 1' - 0"




ELEVATION

## 1B EAST FENCE AT PROPERTY LINE

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Sheet Title

**Landscape Elevation**

Sheet Number

# L1.00E

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LAYOUT NOTES

1. THE TOPOGRAPHIC SURVEY AND EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS AS SCREENED LINEWORK WAS PROVIDED BY THE OWNER AND HAS NOT BEEN VERIFIED BY THE DESIGN TEAM.

2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, SUBGRADES AND SITE IMPROVEMENTS PRIOR TO CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE OF UNSATISFACTORY CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

3. CONTRACTOR SHALL PROTECT ALL EXISTING SITE IMPROVEMENTS AND PLANTING TO REMAIN FROM DAMAGE DURING CONSTRUCTION.

4. CONTRACTOR SHALL VERIFY DISTANCES AND DIMENSIONS IN THE FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE OF UNSATISFACTORY CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

5. CONTRACTOR SHALL STAKE THE LOCATION OF ALL WALKS, WALLS, HEADERS, PAVING AREAS AND OTHER SITE IMPROVEMENTS FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

6. ALL IMPROVEMENTS ARE TO BE ALIGNED AND DIMENSIONED AS SHOWN IN THE DRAWINGS. ALL CURVES AND RADII ARE TO BE SMOOTH AND HAVE CONTINUOUS TRANSITIONS WITHOUT ABRUPT CHANGES OR BENDS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.

7. ALL SITE FURNISHINGS SHALL BE LOCATED IN THE FIELD BY THE OWNER'S REPRESENTATIVE.

8. ALL WRITTEN DIMENSIONS PREVAIL OVER DIMENSIONS SCALED FROM DRAWINGS. ALL DIMENSIONS ARE FROM THE BACK OF CURB, EDGE OF PAVING, OR FACE OF BUILDING OR WALL. REFER TO DETAILS FOR SPECIFIC DIMENSIONS OF SITE ELEMENTS SUCH AS WALLS, ETC.

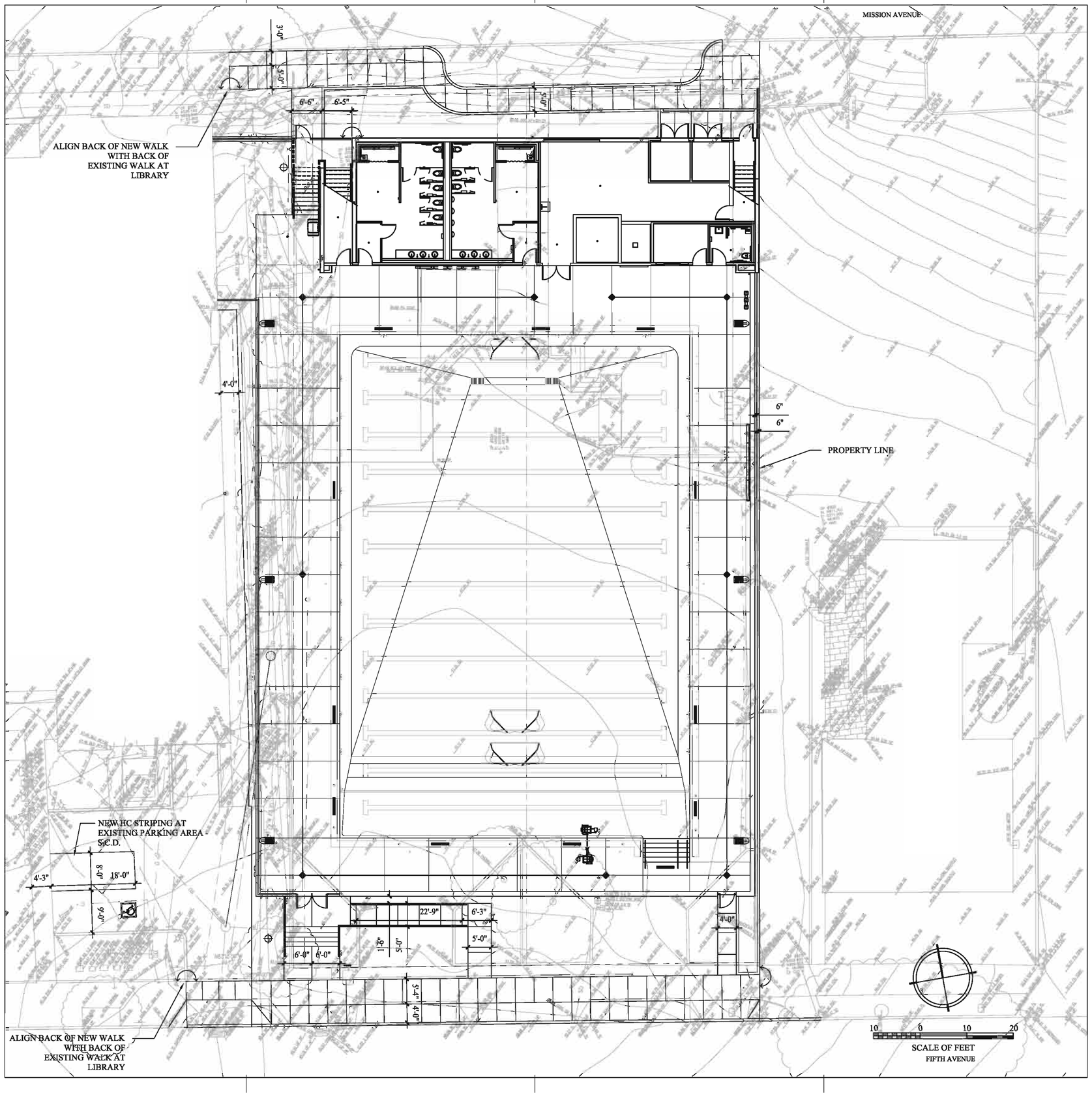
9. DRAIN INLETS ARE SHOWN FOR LOCATIONAL PURPOSES ONLY. REFER TO CIVIL ENGINEERING DRAWINGS FOR DETAILS OF STORM DRAINAGE SYSTEM.

10. FOR PAVING MATERIALS SEE SHEET L1.02

11. REFER TO SHEETS L3.01 FOR SLEEVING FOR IRRIGATION PIPING.

LAYOUT KEY

| | |
|---|---|
| EJ | EXPANSION/CONSTRUCTION JOINT - REFER TO DETAIL 3/L5.01 |
| EJ-CB | EXPANSION JOINT AT CONCRETE BAND - REFER TO DETAIL 6/L5.01 |
| CJ-G7 | CONTROL JOINT AT STRUCTURAL GRID LINE 8 - S.A.D. |
| | POLE LIGHT - SED |
| | WALL LIGHT - SED |
| | DOWNSPOUT |
| | AREA DRAIN |
| | ALIGN |
| | IRRIGATION SLEEVE - S.I.D. FOR SIZING |
| CL | CENTER LINE |
| EQ | EQUAL |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| OC | ON CENTER |
| R | RADIUS |
| SAD | SEE ARCHITECTURE DRAWINGS |
| SSD | SEE STRUCTURAL DRAWINGS |
| SCD | SEE CIVIL DRAWINGS |
| SED | SEE ELECTRICAL DRAWINGS |
| SPD | SEE POOL DRAWINGS |
| SP | SPACE |
| TYP | TYPICAL |
| VIF | VERIFY IN FIELD |

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**Layout Plan**

Sheet Number
**L1.01**

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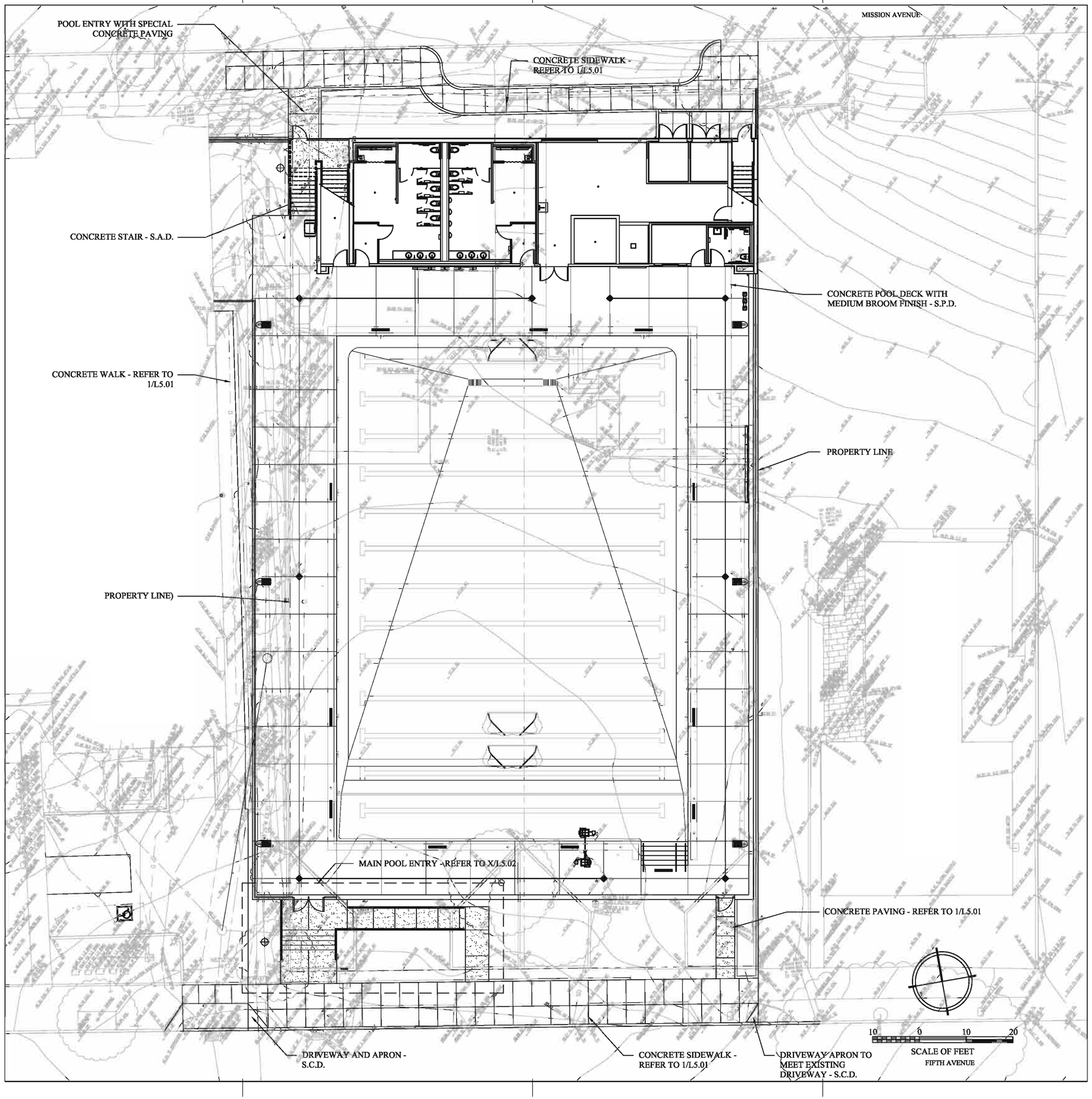
PAVING KEY

TYPE 1 CONCRETE PAVING:
INTEGRAL COLOR AND WATER WASHED EXPOSED AGGREGATE FINISH- REFER TO DETAILS 1 - 5/L-5.01

TYPE 2 CONCRETE PAVING:
NO COLOR, BROOM FINISH - MATCH CITY STANDARDS - REFER TO DETAILS 1 - 5/L-5.01

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## Detail Key and Paving Plan

Sheet Number

# L1.02

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GRADING NOTES

1. THE TOPOGRAPHIC SURVEY AND EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS AS SCREENED LINEWORK WAS PROVIDED BY THE OWNER AND HAS NOT BEEN VERIFIED BY THE DESIGN TEAM.

2. ALL GRADES SHALL PROVIDE FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. IN PLANTING AREAS FLOW LINES SHALL BE ACCURATELY SET AND SHALL NOT BE LESS THAN 2% GRADIENT UNLESS OTHERWISE NOTED.

3. TOPS AND TOES OF ALL SLOPES SHALL BE ROUNDED TO PRODUCE A GRADUAL AND NATURAL APPEARING TRANSITION BETWEEN LEVEL AREAS AND SLOPES.

4. SPOT ELEVATIONS ARE SHOWN TO ILLUSTRATE DESIGN INTENT OF GRADING OF NEW CONCRETE PAVING. NEW CONCRETE PAVING SHALL DRAIN AT 1.8% MAXIMUM AWAY FROM BUILDINGS AND INTO ADJACENT PLANTING AREAS OR DRAINS UNLESS OTHERWISE NOTED. WALKS SHALL HAVE A 4.75% MAXIMUM RUNNING SLOPE AND A 1.8% MAXIMUM CROSS SLOPE UNLESS OTHERWISE NOTED. VERIFY GRADES WITH THE OWNER'S REPRESENTATIVE PRIOR TO POURING CONCRETE.

5. HOLD FINISH GRADE AS FOLLOWS:

PLANTING AREAS TO BE MULCHED WITH GRAVEL MULCH: 2-1/2" BELOW TOP OF ADJACENT PAVEMENT, CURBS AND HEADERS.

PLANTING AREAS TO BE MULCHED WITH BARK MULCH: 2-1/2" BELOW TOP OF ADJACENT PAVEMENT, CURBS AND HEADERS.

BARK MULCH: 1/2" BELOW TOP OF ADJACENT PAVEMENT, CURBS AND HEADERS.

GRAVEL MULCH: 1/2" BELOW TOP OF ADJACENT PAVEMENT, CURBS AND HEADERS.

SEEDED OR SODDED LAWN: 1" BELOW TOP OF ADJACENT PAVEMENT, CURBS AND HEADERS.

6. SITE STAIRS ASSUME A 1.8% SLOPE ON TREADS

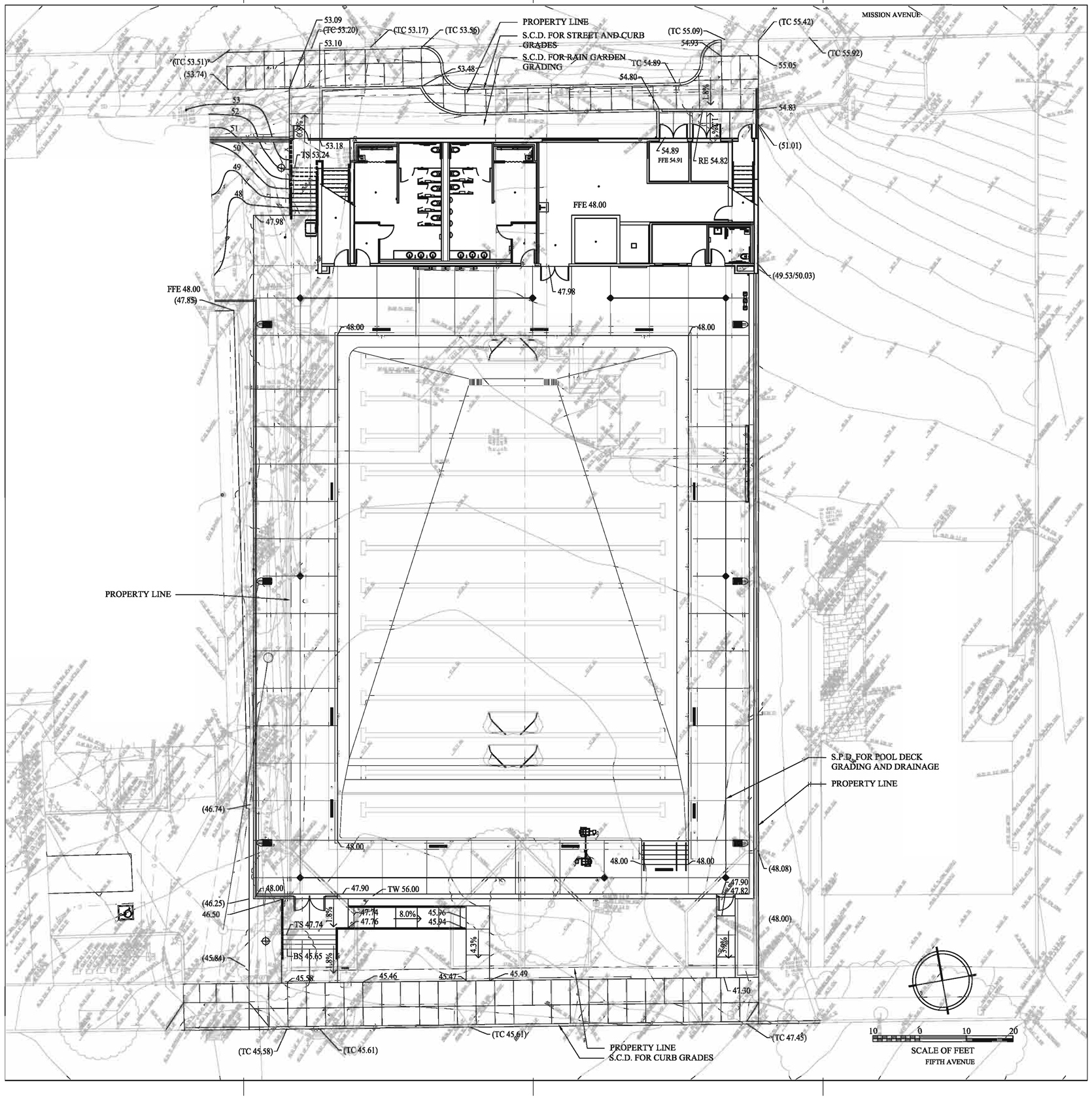
7. DRAIN INLETS ARE SHOWN FOR LOCATIONAL PURPOSES ONLY. REFER TO CIVIL ENGINEERING DRAWINGS FOR DETAILS OF STORM DRAINAGE SYSTEM.

8. ALL NEW CONSTRUCTION SHALL MEET EXISTING GRADES AT THE LIMIT OF WORK. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IN FIELD CONDITIONS REQUIRE CHANGES TO THE GRADING PLAN TO MEET CODES AND PRESERVE DESIGN INTENT.

9. ADJUST RIM ELEVATIONS OF EXISTING MANHOLES, WATER METERS AND OTHER SITE UTILITY COVERS TO BE FLUSH WITH THE NEW FINISH GRADES.

GRADING KEY

| | |
|---|---|
| ⌒ | FLUSH |
| (1.5%) → | EXISTING SLOPE |
| 1.5% → | PROPOSED SLOPE |
| (107.17) | EXISTING GRADE |
| 107.17 | PROPOSED GRADE |
| BC | BOTTOM OF CURB |
| BR | BOTTOM OF RAMP |
| BS | BOTTOM OF STAIR |
| BW | BOTTOM OF WALL |
| PD | PLANTER DRAIN |
| FFE | FINISH FLOOR ELEVATION |
| FG | FINISH GRADE |
| FL | FLOW LINE |
| GB | GRADE BREAK |
| MAX | MAXIMUM |
| RE | RIM ELEVATION AT DRAIN GRATE |
| TC | TOP OF CURB |
| TR | TOP OF RAMP |
| TS | TOP OF STAIR |
| TW | TOP OF WALL |
| TYP | TYPICAL |
| VIF | VERIFY IN FIELD |

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Sheet Title
**Grading Plan**

Sheet Number
**L2.01**

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PLANTING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON-SITE UTILITIES AND SUBGRADE IMPROVEMENTS PRIOR TO TREE PIT EXCAVATION.

2. PLANTING QUANTITIES ARE FOR REFERENCE ONLY. IF A DISCREPANCY ARISES, THE PLANT SPACING ON THE DRAWINGS, DETAILS AND PLANT LIST SHALL PREVAIL. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PLANT QUANTITIES.

3. CONTRACTOR SHALL PROVIDE MATCHING SIZES AND FORMS FOR ALL LIKE SPECIES TO BE PLANTED IN FORMALLY ALIGNED ROWS OR GRIDS. ALIGN AND SPACE PLANTS AS SHOWN ON THE DRAWINGS.

4. CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREES FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION OF THE TREE PITS. FOLLOWING EXCAVATION OF THE TREE PITS, THE OWNER'S REPRESENTATIVE SHALL APPROVE FINAL PLACEMENT AND ORIENTATION OF ALL TREES.

5. CONTRACTOR SHALL LAYOUT AND STAKE THE LOCATION OF ALL HEDGES FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION OF THE PLANT PITS.

6. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO PLANTING LAYOUT TO PROVIDE 1'-0" WIDE ACCESS TO METERS, VALVES, HOSE BIBS, ETC.

7. ALL DIMENSIONS ARE FROM BACK OF CURBS AND WALLS, EDGE OF PAVING, OR FACE OF BUILDING.

8. FOR PLANT LIST SEE L-4.02

9. FOR TREE PLANTING SEE 1 - 2/L-4.02

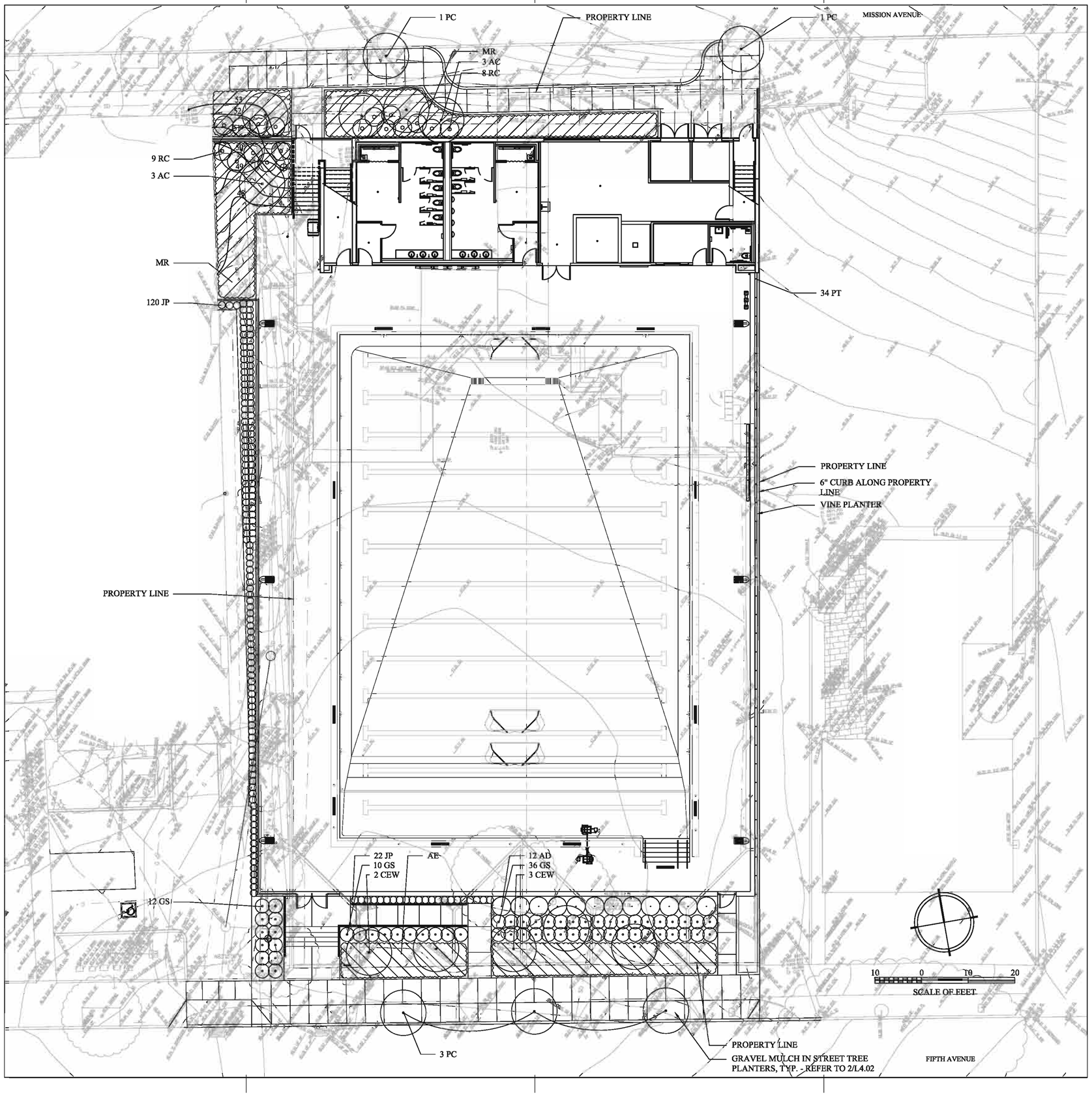
10. FOR SHRUB PLANTING SEE 3/L-4.02

11. FOR VINE PLANTING SEE 4/L4.02

12. FOR PLANT SPACING SEE 5/L-4.02

PROJECT SITE LANDSCAPE AREAS

| | |
|---|---|
| Site Area: | 18,723 sf |
| 10% Landscape Requirement: | 1,872 sf |
| Planting Area: | 1,534 sf |
| Entry Hardscape Area: | 470 sf |
| Total Landscape Area: | 2,004 sf |

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# MARIN ACADEMY AQUATIC CENTER

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## Planting Plan

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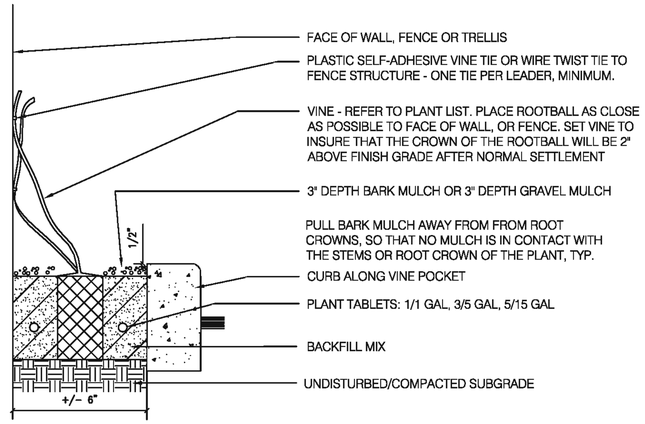


SECTION

## 4 VINE PLANTING
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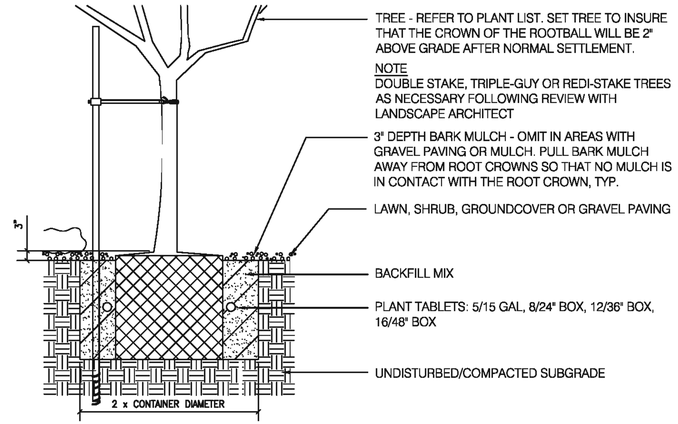


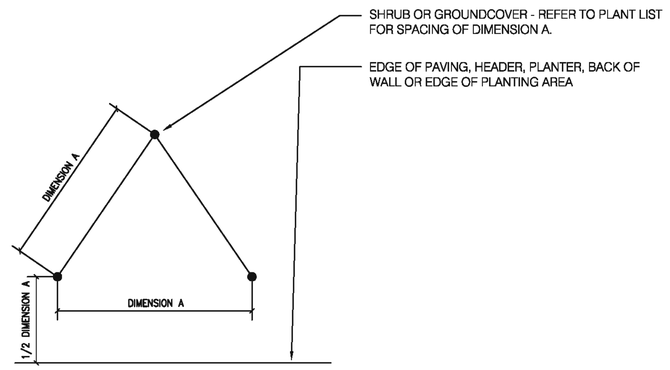

SECTION

## 1 TREE PLANTING
NO SCALE

PLANT LIST

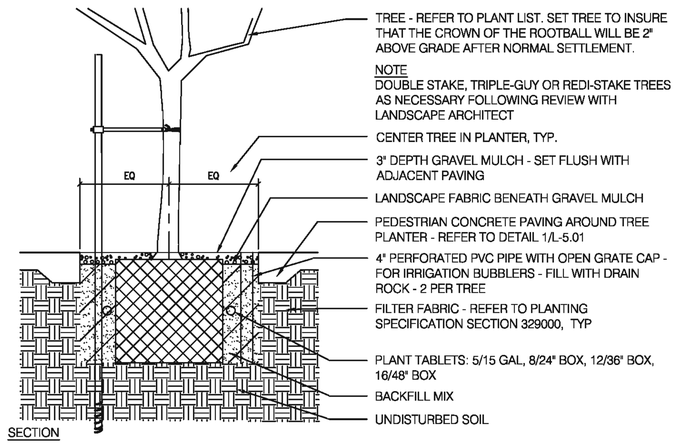
| QTY | SYMBOL | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | WATER USE* |
|---|---|---|---|---|---|---|
| TREES | | | | | | |
| 6 | AC | ACER CIRCINATUM | VINE MAPLE | 15 GAL | | M |
| 5 | CEW | CORNUS 'EDDIES' WHITE WONDER DOGWOOD | WHITE WONDER DOGWOOD | 24" BOX | | M |
| 5 | PC | PISTACIA CHINENSIS (AS PER CITY OF SAN RAFAEL ARBORIST) | CHINESE PISTACHE | 24" BOX | | L |
| SHRUBS, VINES AD GRASSES | | | | | | |
| 12 | AD | ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN' | HOWARD MCMINN MANZANITA | 5 GAL | 48" O.C. | L |
| 58 | GS | GALVEZIA SPECIOSA 'FIRECRACKER' | ISLAND BUSH SNAPDRAGON | 5 GAL | 36" O.C. | L |
| 142 | JP | JUNCUS PATENS | CALIFORNIA GRAY RUSH | 1 GAL | 18" O.C. | L |
| 34 | PT | PARTHENOSISSUS TRICUSPIDATA | BOSTON IVY | 1 GAL | 60" O.C. | L |
| 17 | RC | RHAMNUS CALIFORNICA 'MOUND SAN BRUNO' | MOUND SAN BRUNO COFFEEBERRY | 5 GAL | 48" O.C. | L |
| GROUNDCOVER | | | | | | |
| | AE | ARCTOSTAPHYLOS EDMUNDSII 'CARMEL SUR' | CARMEL SUR MANZANITA | 1 GAL | 48" O.C. | L |
| | MR | MAHONIA REPENS | CREEPING MAHONIA | 1 GAL | 24" O.C. | L |

*WATER USE BASED ON WUCOLS IV 2014, ZONE 1



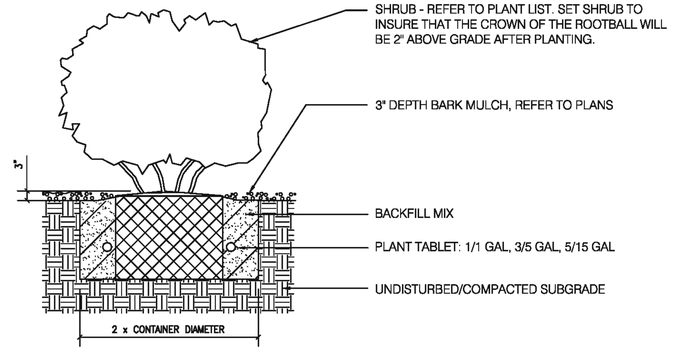

PLAN

## 5 TRIANGULAR SPACING
NO SCALE




SECTION

## 2 TREE PLANTING IN CONCRETE PAVING
NO SCALE




SECTION

## 3 SHRUB PLANTING
NO SCALE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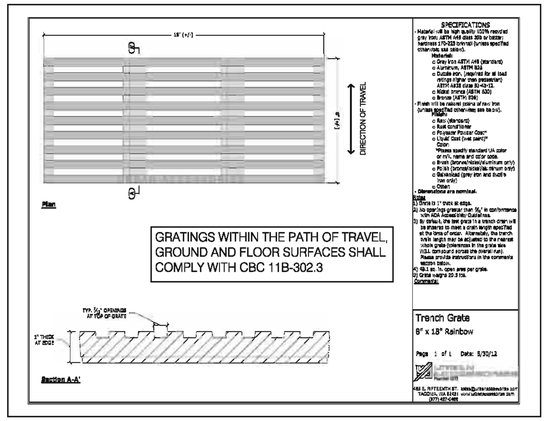
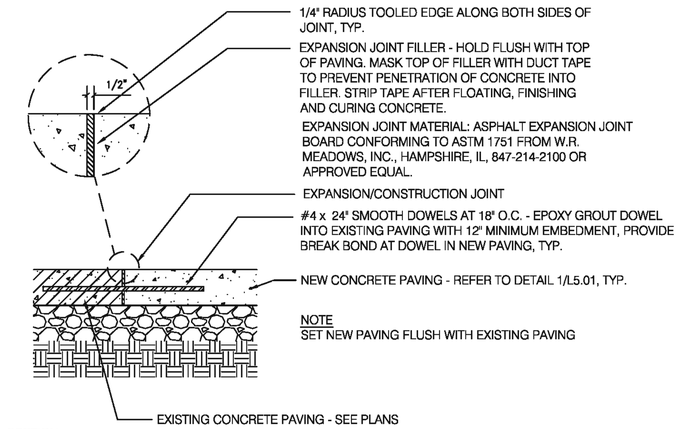



7 ADA COMPLIANT TRENCH DRAIN COVER

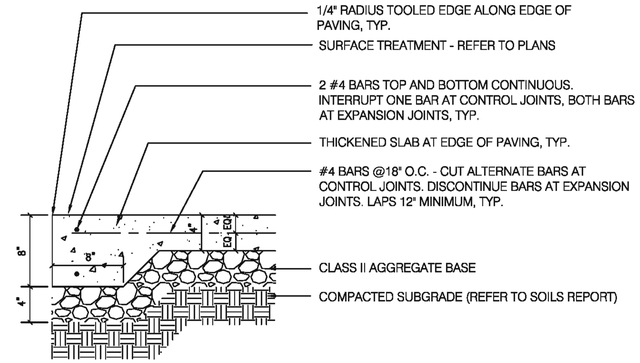
NO SCALE




SECTION

4 CONCRETE PAVING - EXISTING TO NEW

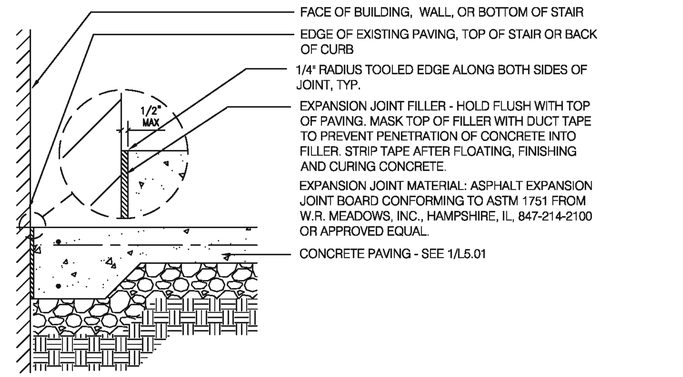
1 - 1/2" = 1' - 0"




SECTION

1 CONCRETE PAVING

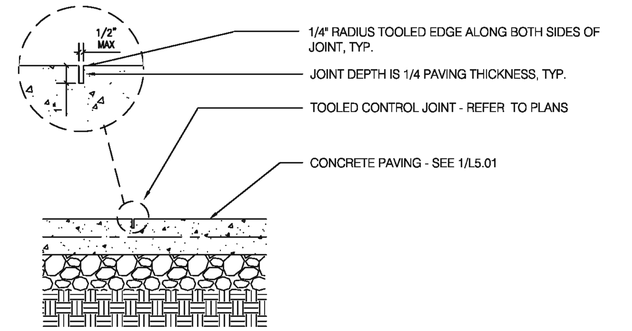
1 - 1/2" = 1' - 0"




SECTION

5 EXPANSION JOINT AT EDGE OF PAVING

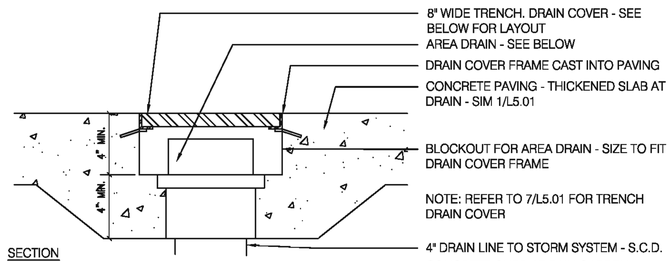
1 - 1/2" = 1' - 0"




SECTION

2 CONTROL JOINT

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

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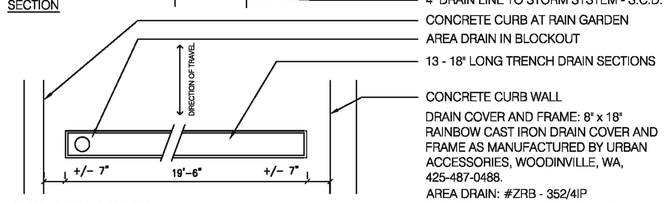
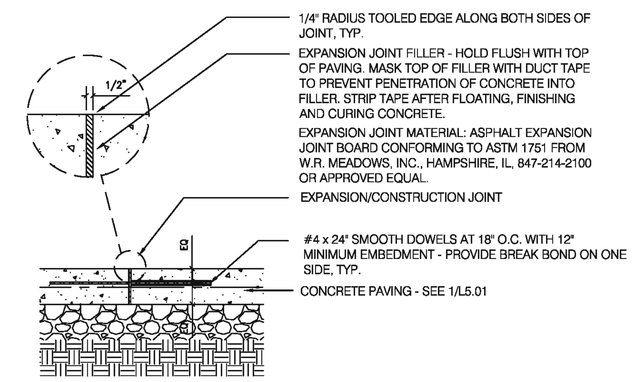



PLAN AT RAMP LANDING

6 TRENCH DRAIN

NO SCALE




SECTION

3 EXPANSION/CONSTRUCTION JOINT

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

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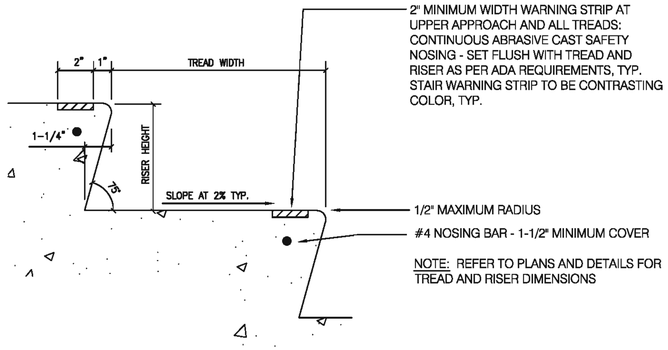
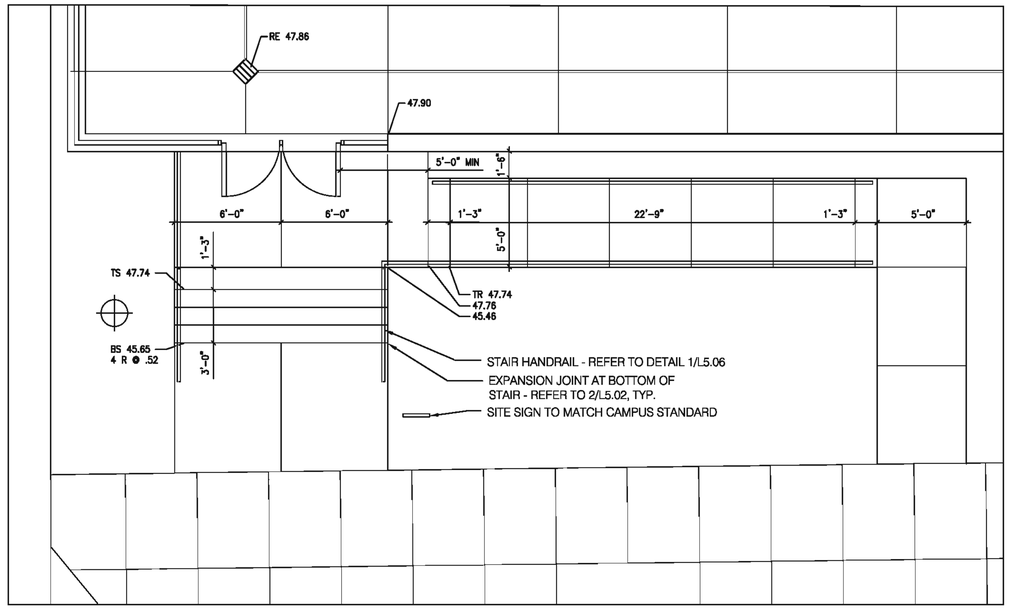



SECTION

3 STAIR TREAD AND RISER - TYP.

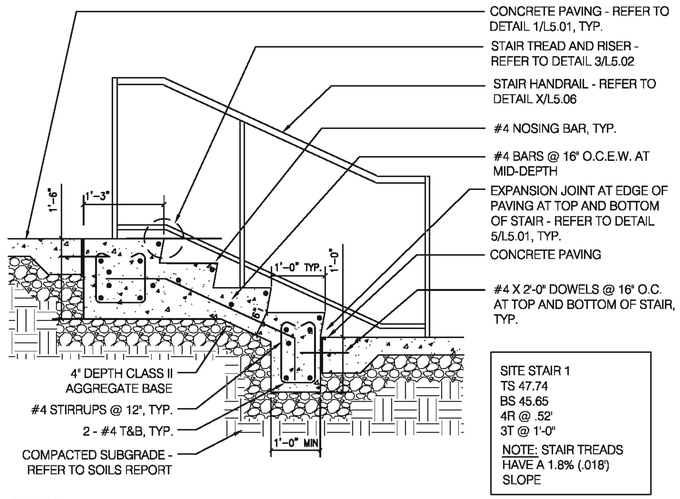
3" = 1' - 0"




PLAN

1 SITE STAIR 1 - PLAN

1/4" = 1' - 0"




SECTION

2 STAIR 1 - SECTION AT EAST SIDE

3/4" = 1' - 0"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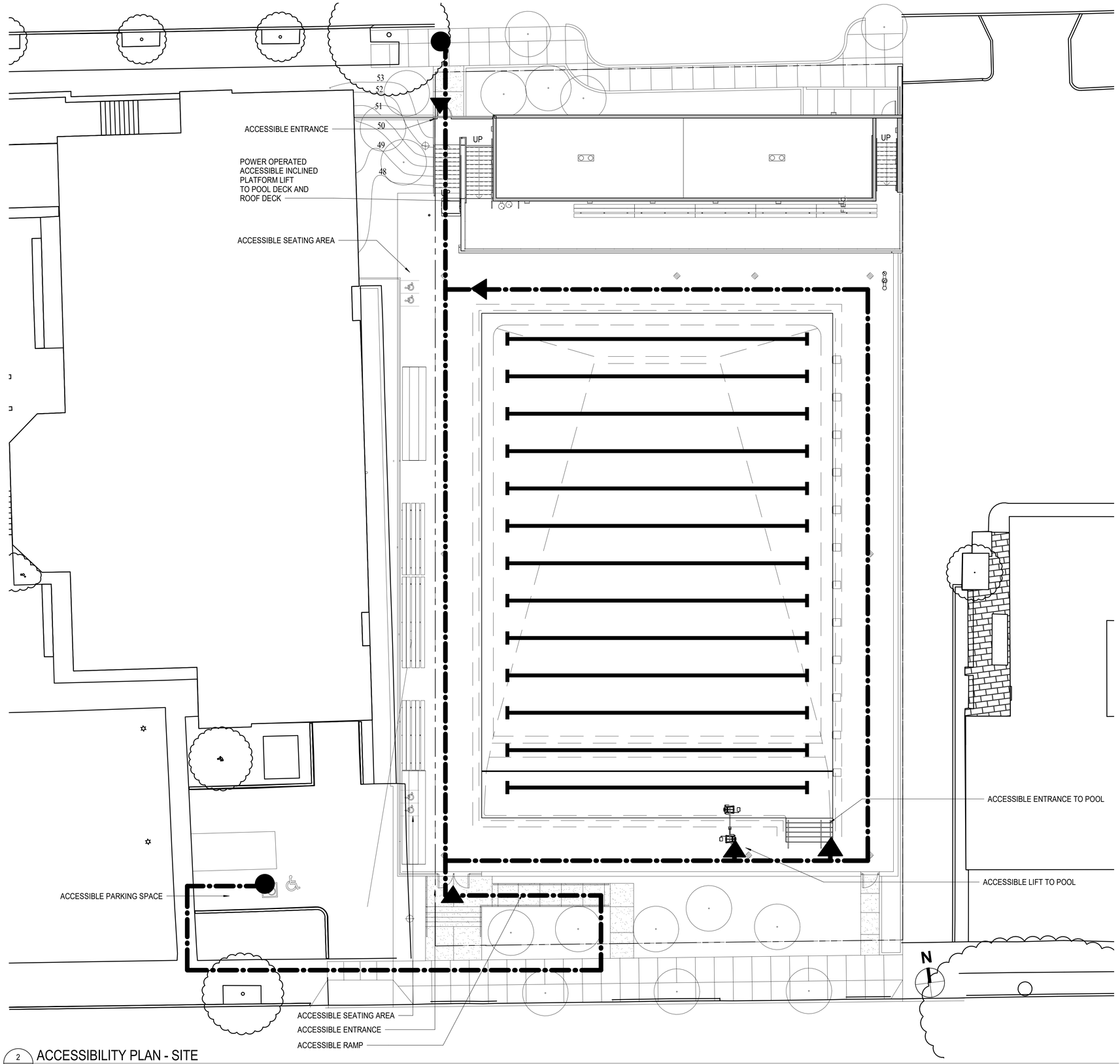


2 G1.02A ACCESSIBILITY PLAN - SITE

SCALE: 1" = 10'-0"

## LEGEND

- ACCESSIBLE BUILDING ENTRANCES
- ACCESSIBLE PATH OF TRAVEL
- ACCESSIBLE FEATURE
- PROPERTY LINE

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**ACCESSIBILITY SITE PLAN**

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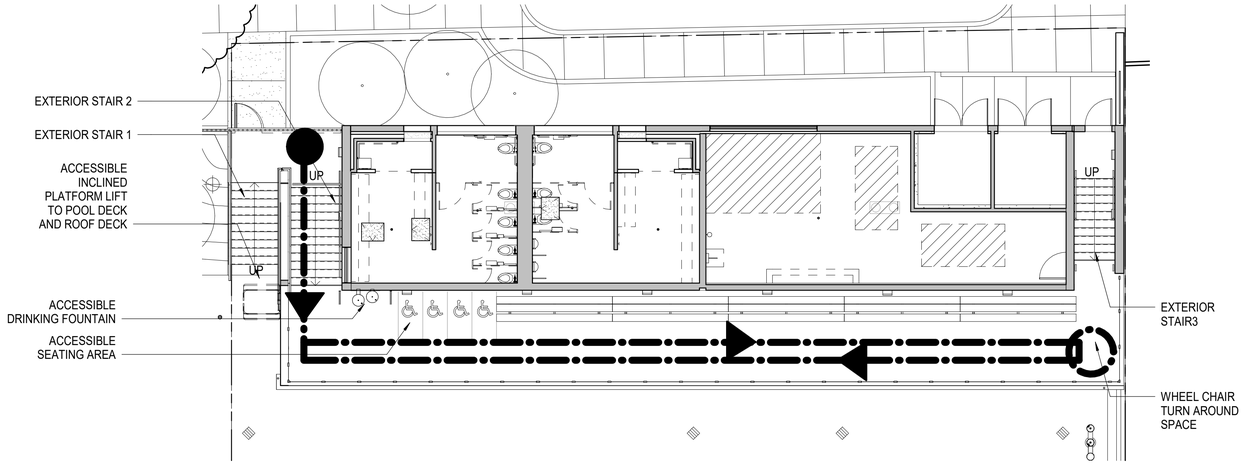
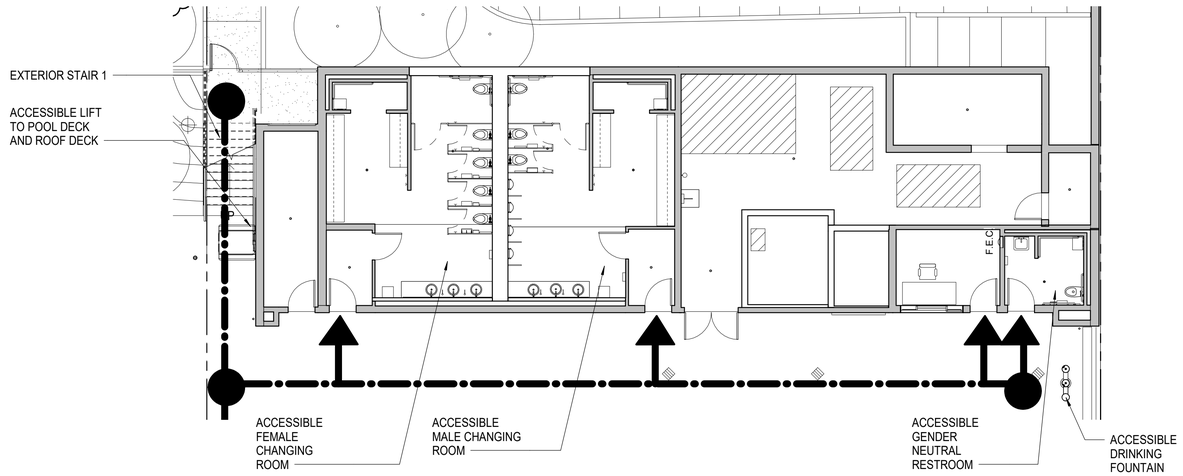



1 G1.02B ACCESSIBLE PLAN - ROOF

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




2 G1.02B ACCESSIBLE PLAN - LEVEL 1

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

## LEGEND

- ACCESSIBLE BUILDING ENTRANCES
- ACCESSIBLE PATH OF TRAVEL
- ACCESSIBLE FEATURE
- PROPERTY LINE

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| No. | Revisions | Date |
|---|---|---|
| | | |

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**ACCESSBILITY PLANS**

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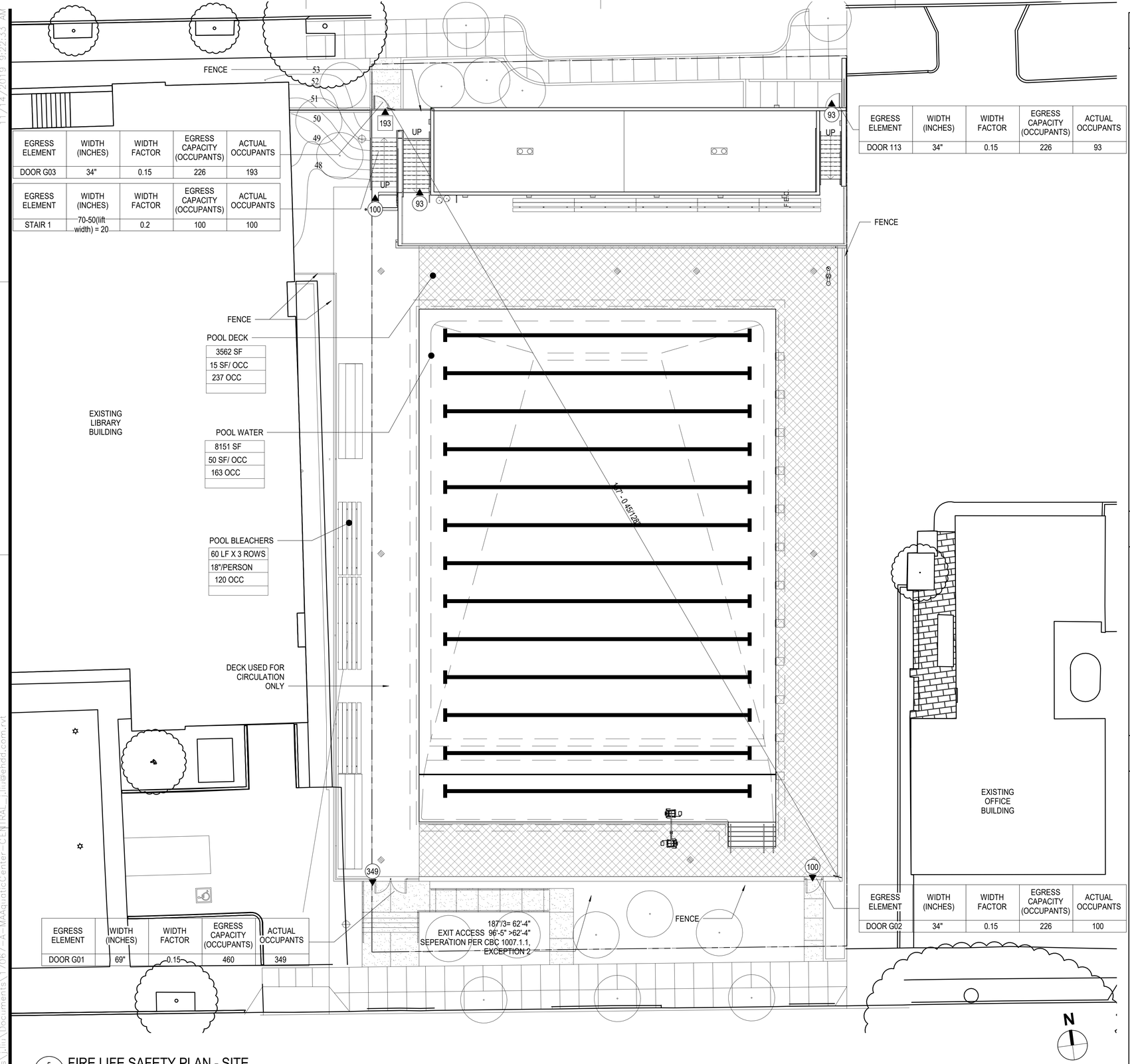


| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| DOOR G03 | 34" | 0.15 | 226 | 193 |

| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| STAIR 1 | 70-50(lift width) = 20 | 0.2 | 100 | 100 |

| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| DOOR 113 | 34" | 0.15 | 226 | 93 |

| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| DOOR G01 | 69" | 0.15 | 460 | 349 |

| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| DOOR G02 | 34" | 0.15 | 226 | 100 |

5 / G1.03A FIRE LIFE SAFETY PLAN - SITE

SCALE: 1" = 10'-0"

## CODE COMPLIANCE SUMMARY

1. SEE G1.10 FOR BUILDING AREA AND CONSTRUCTION TYPE SUMMARY

3. MEANS OF EGRESS

OCCUPANT LOAD:
29 OCCUPANTS - ACCESSORY STORAGE, MECHANICAL, CHANGING AREAS
2 OCCUPANTS - CHEMICAL STROAGES
163 OCCUPANTS - POOL WATER
234 OCCUPANTS - POOL DECK
120 OCCUPANTS - ASSEMBLY WITH FIXED SEATING ON DECK
170 OCCUPANTS - ACCESSORY ASSEMBLY STANDING SPACE ON ROOF

718 TOTAL OCCUPANTS

MEANS OF EGRESS SIZING:
PER 1005.3.1 , USE EGRESS CAPACITY FACTOR OF 0.2 FOR STAIRWAYS

PER 1005.3.2 , USE EGRESS CAPACITY FACTOR OF 0.15 FOR MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS

NUMBER OF EXITS AND EXIT ACCESS DOOWAYS:
THE OCCUPANT LOAD OF THE POOL AREA IS 554

THE OCCUPANT LOAD ON ROOF DECK IS 170 USING STANDING SPACE CALCULATION

THE POOL SITE HAS 4 EXITS

EXIT AND EXIT ACCESS DOORWAYS CONFIGURATION:
THE BUILDING IS EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM. THE SEPARATION DISTANCE BETWEEN EXITS IS NOT LESS THAN ONE THIRD THE LENGTH OF THE OVERALL DIAGONAL DIMENSION OF THE AREA SERVED ON ANY FLOOR IN ACCORDANCE WITH 1007.1.1, EXCEPTION 2.

ACCESSIBLE MEANS OF EGRESS:
THE BUILDING IS EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM. AREAS OF REFUGE AT STAIRWAYS AND ELEVATORS ARE NOT REQUIRED

EXIT TRAVEL DISTANCE:
THE BUILDING IS EQUIPPED WITH AN AUTOMATIC FIRE SPRINKLER SYSTEM. PER TABLE 1017.2, EXIT ACCESS TRAVEL DISTANCE FOR A OCCUPANCIES DOES NOT EXCEED 250 FEET.

EXIT ACCESS STAIRS:
STAIR 1 AND STAIR 2 ARE EXIT ACCESS STAIRWAYS THAT ATMOSPHERICALLY COMMINUCATE BETWEEN ONLY TWO STORIES. (CBC1919.3.1)

DOORS
DOORS SERVE MORE THAN 50 OCCUPANTS ARE EUIPPED WITH PANIC HARDWARE.

## PLUMBING FIXTURE COUNT SUMMARY

BASED ON 2016 CALIFORNIA BUILDING CODE TITLE 24 SECTION 3116B

| | AREA (SF) | OLF | OCCUPANTS |
|---|---|---|---|
| POOL WATER SURFACE | 8151 | 1/15 | 543 |

**REQUIRED FIXTURE COUNT**

| OCCUPANTS M | OCCUPANTS F | WATER CLOSET M | WATER CLOSET F | URINAL | LAVATORY M | LAVATORY F | SHOWER M | SHOWER F |
|---|---|---|---|---|---|---|---|---|
| 272 | 272 | 4 | 5 | 4 | 3 | 3 | 5 | 5 |

DRINKING FOUNTAINS 3

## LIFE SAFETY AND EXITING LEGEND

| Name | |
|---|---|
| 150 SF | AREA |
| 200 SF/OCC | FLOOR AREA PER OCCUPANT |
| 2 OCC | OCCUPANT COUNT |
| A | OCCUPANCY TYPE |

0 — ACCUMULATED LOAD AND TRAVEL DIRECTION

0 — OCCUPANT LOAD WITHIN INDIVIDUAL SPACE AND TRAVEL DISTANCE

START POINT OF EXIT TRAVEL

EXIT PATH OF TRAVEL

1 HOUR FIRE RATED PARTITION

# MARIN ACADEMY AQUATIC CENTER

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Scale
**As indicated**

Drawn by
**Author**

EHDD Job Number
**17067**

Sheet Title

**FIRE LIFE SAFETY SITE PLAN**

Sheet Number

# G1.03A

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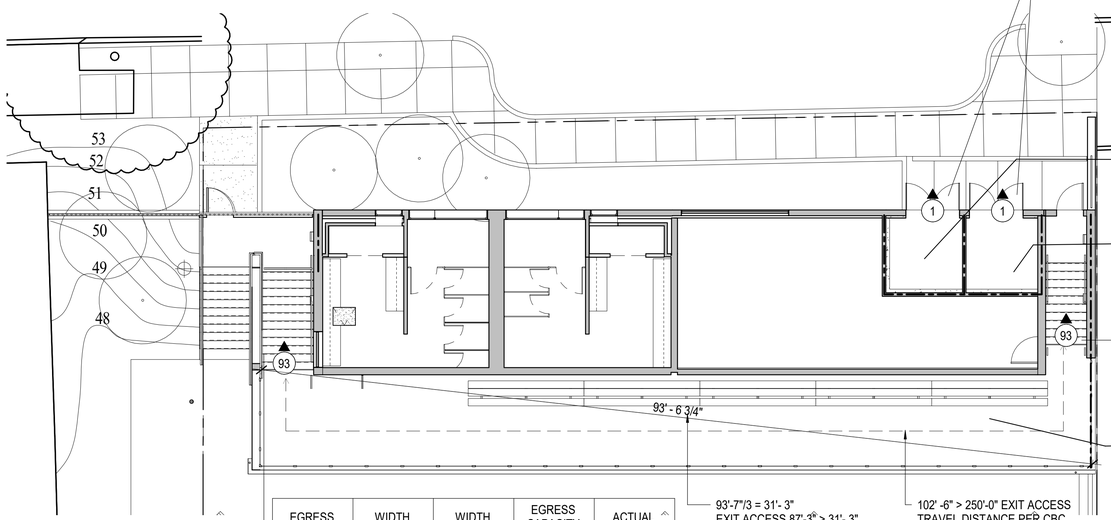



| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| DOOR 111\| 112 | 69 | 0.15 | 460 | 1 |

CHEMICAL STORAGE
77 SF
300 SF/OCC
1 OCC

CHEMICAL STORAGE
72 SF
300 SF/OCC
1 OCC

| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| STAIR 3 | 55 | 0.2 | 275 | 93 |

ROOF DECK
927 SF
5 SF/OCC
186 OCC

ROOF DECK ALT
64 LF X 2 ROWS
18 IN/OCC
85 OCC + 4 ADA
A-5

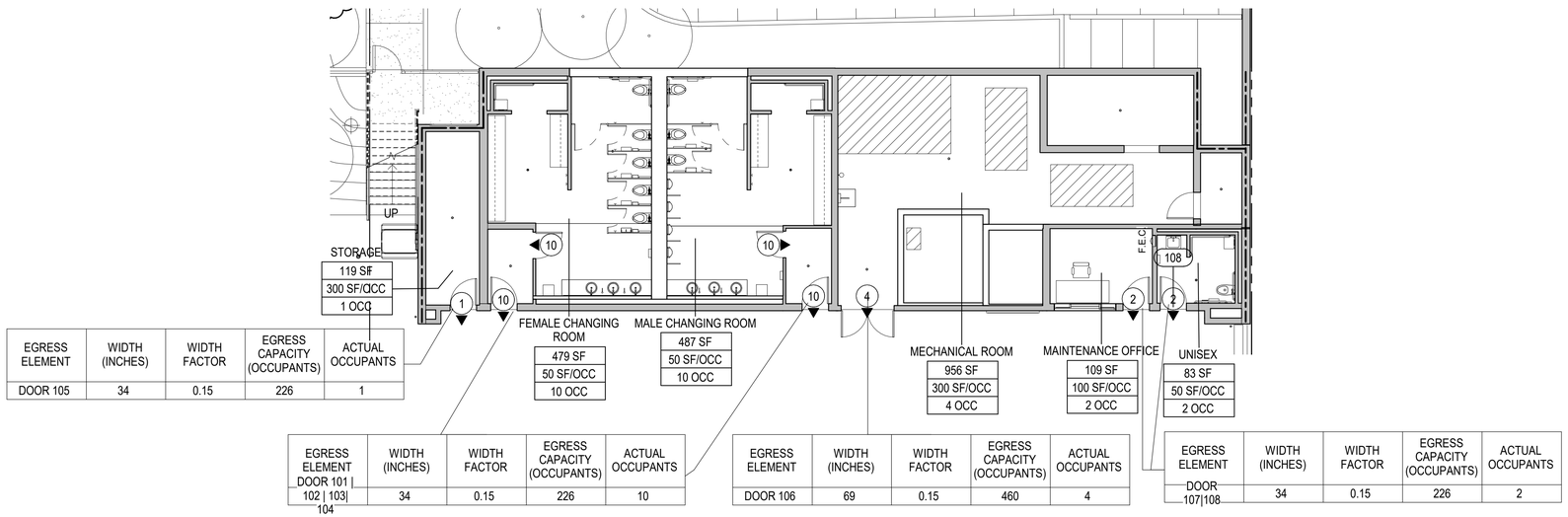
| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| STAIR 2 | 71-50(lift width) = 21 | 0.2 | 105 | 93 |

93'-7"/3 = 31'- 3"
EXIT ACCESS 87'-3" > 31'- 3"
SEPERATION PER CBC
1007.1.1, EXCEPTION 2

102' -6" > 250'-0" EXIT ACCESS
TRAVEL DISTANCE PER CBC
1017.2

## 2 G1.03B FIRE LIFE SAFETY PLAN - MISSION AVE LEVEL

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




| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| DOOR 105 | 34 | 0.15 | 226 | 1 |

| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| DOOR 101 \| 102 \| 103\| 104 | 34 | 0.15 | 226 | 10 |

| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| DOOR 106 | 69 | 0.15 | 460 | 4 |

| EGRESS ELEMENT | WIDTH (INCHES) | WIDTH FACTOR | EGRESS CAPACITY (OCCUPANTS) | ACTUAL OCCUPANTS |
|---|---|---|---|---|
| DOOR 107\|108 | 34 | 0.15 | 226 | 2 |

## 1 G1.03B FIRE LIFE SAFETLY PLAN - GROUND LEVEL

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

## LIFE SAFETY AND EXITING LEGEND

| Name | |
|---|---|
| 150 SF | AREA |
| 200 SF/OCC | FLOOR AREA PER OCCUPANT |
| 2 OCC | OCCUPANT COUNT |
| A | OCCUPANCY TYPE |

0 — ACCUMULATED LOAD AND TRAVEL DIRECTION

0 — OCCUPANT LOAD WITHIN INDIVIDUAL SPACE AND TRAVEL DISTANCE

START POINT OF EXIT TRAVEL

EXIT PATH OF TRAVEL

1 HOUR FIRE RATED PARTITION

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Sheet Title
**FIRE LIFE SAFETY PLANS**

Sheet Number
**G1.03B**

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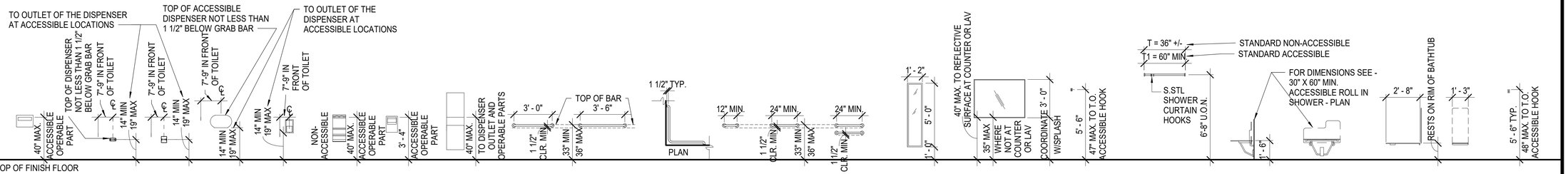
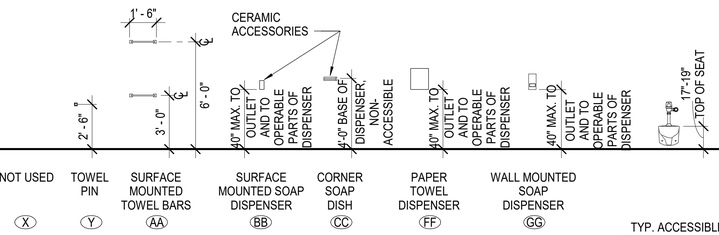
## ACCESSORIES



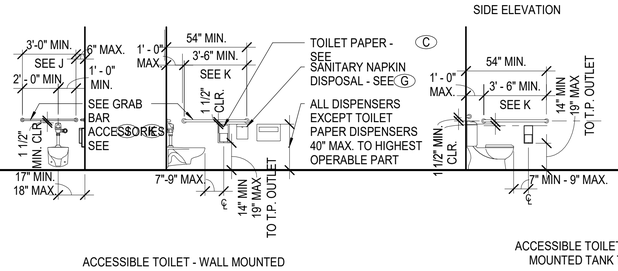

SURFACE MOUNTED TOILET SEAT COVER DISPENSER (A) | SURFACE MOUNTED SINGLE ROLL TOILET TISSUE DISPENSER (B) | RECESSED SINGLE ROLL TOILET TISSUE DISPENSER (C) | SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER (D) | SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER (E) | SURFACE MOUNTED HAND DRYER (F) | SANITARY NAPKIN DISPOSAL (G) | SURFACE MOUNTED TRASH RECEPTACLE WITH HAND TOWEL DISPENSER (H) | GRAB BAR (J) | GRAB BAR (K) | CONTINUOUS L-SHAPED GRAB BAR (L) | GRAB BAR (M) | GRAB BAR (N) | GRAB BARS (P) | FULL LENGTH MIRROR (Q) | MIRROR (R) | COAT HOOK WITH BUMPER (S) | EXTRA HEAVY DUTY SHOWER CURTAIN ROD WITH S.STL SHOWER CURTAIN HOOKS (T) (T1) | REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT (U) | FOLDING BATHTUB SEAT (V) | SURFACE MOUNTED ROBE HOOK (W)

## ACCESSORIES




NOT USED (X) | TOWEL PIN (Y) | SURFACE MOUNTED TOWEL BARS (AA) | SURFACE MOUNTED SOAP DISPENSER (BB) | CORNER SOAP DISH (CC) | PAPER TOWEL DISPENSER (FF) | WALL MOUNTED SOAP DISPENSER (GG)

## ACCESSIBLE PLUMBING FIXTURES

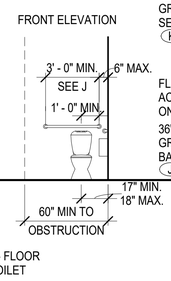


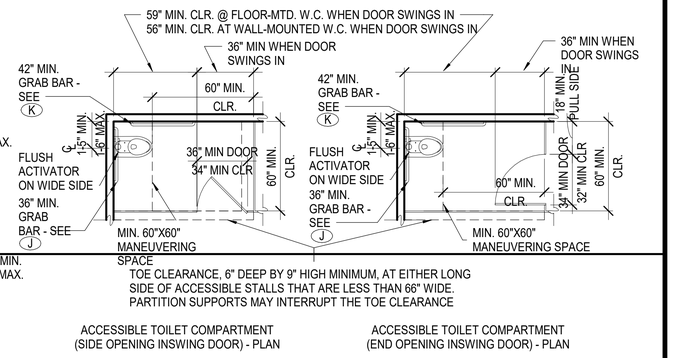

TYP. ACCESSIBLE TOILET SEAT HEIGHT

ACCESSIBLE TOILET - WALL MOUNTED




ACCESSIBLE TOILET - FLOOR MOUNTED TANK TOILET

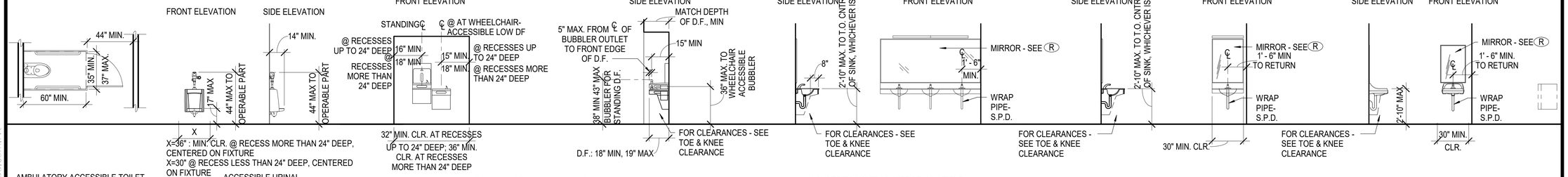



ACCESSIBLE TOILET COMPARTMENT (SIDE OPENING INSWING DOOR) - PLAN

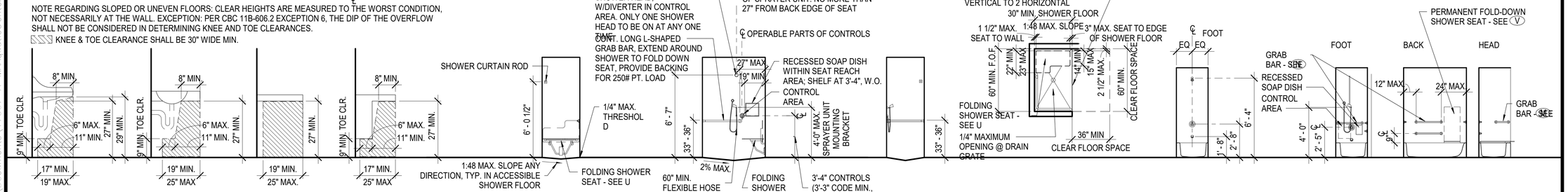
ACCESSIBLE TOILET COMPARTMENT (END OPENING INSWING DOOR) - PLAN

## ACCESSIBLE PLUMBING FIXTURES




AMBULATORY ACCESSIBLE TOILET | ACCESSIBLE URINAL | DRINKING FOUNTAIN - ALCOVE | LAVATORY, VANITY & MIRROR (MULTIPLE) | VANITY & MIRROR (SINGLE) | LAVATORY & MIRROR (SINGLE)

## ACCESSIBLE PLUMBING FIXTURES




ACCESSIBLE LAVATORIES | ACCESSIBLE SINKS | ACCESSIBLE DINING & WORK SURFACES | OTHER ACCESSIBLE SURFACES

TOE & KNEE CLEARANCE
SCALE: 1/2" = 1' - 0"

ACCESSIBLE ROLL IN SHOWER - ELEVATIONS

30" X 60" MIN. ACCESSIBLE ROLL IN SHOWER - PLAN

NON-ACCESSIBLE TUB

ACCESSIBLE TUB WITH SEAT IN TUB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Scale
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Sheet Title
**ACCESSIBLE MOUNTING HEIGHTS**

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**G3.01**

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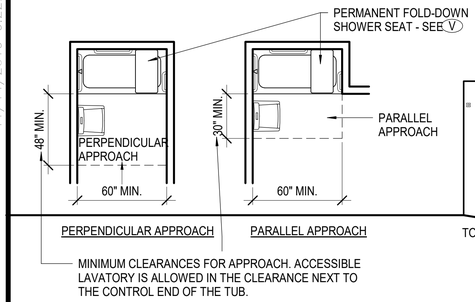
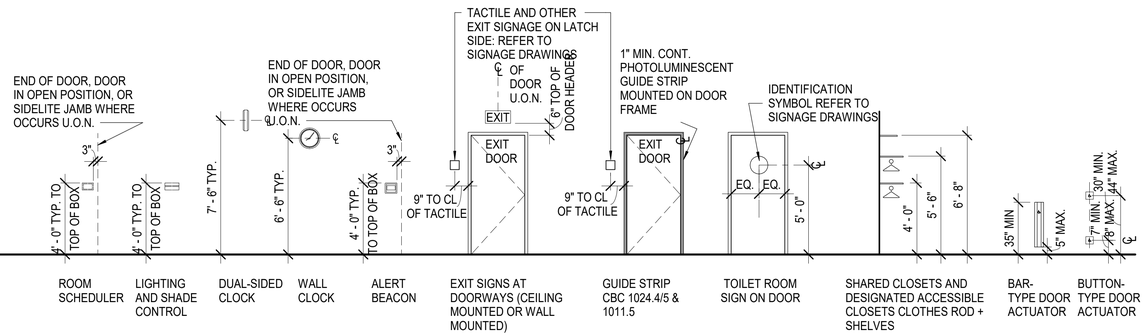
## ACCESSIBLE PLUMBING FIXTURES

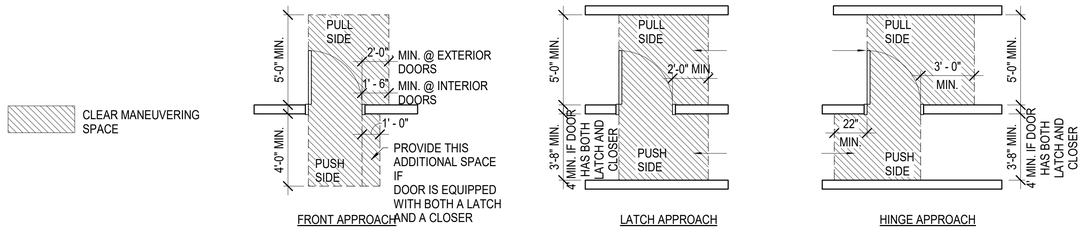



## TYPICAL INTERIOR SIGNAGE AND FIXTURES




## REQUIRED LEVEL MANEUVERING CLEARANCE AT DOORS

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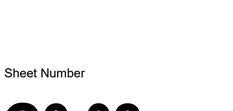


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Scale
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**ACCESSIBLE MOUNTING HEIGHTS**

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**G3.02**

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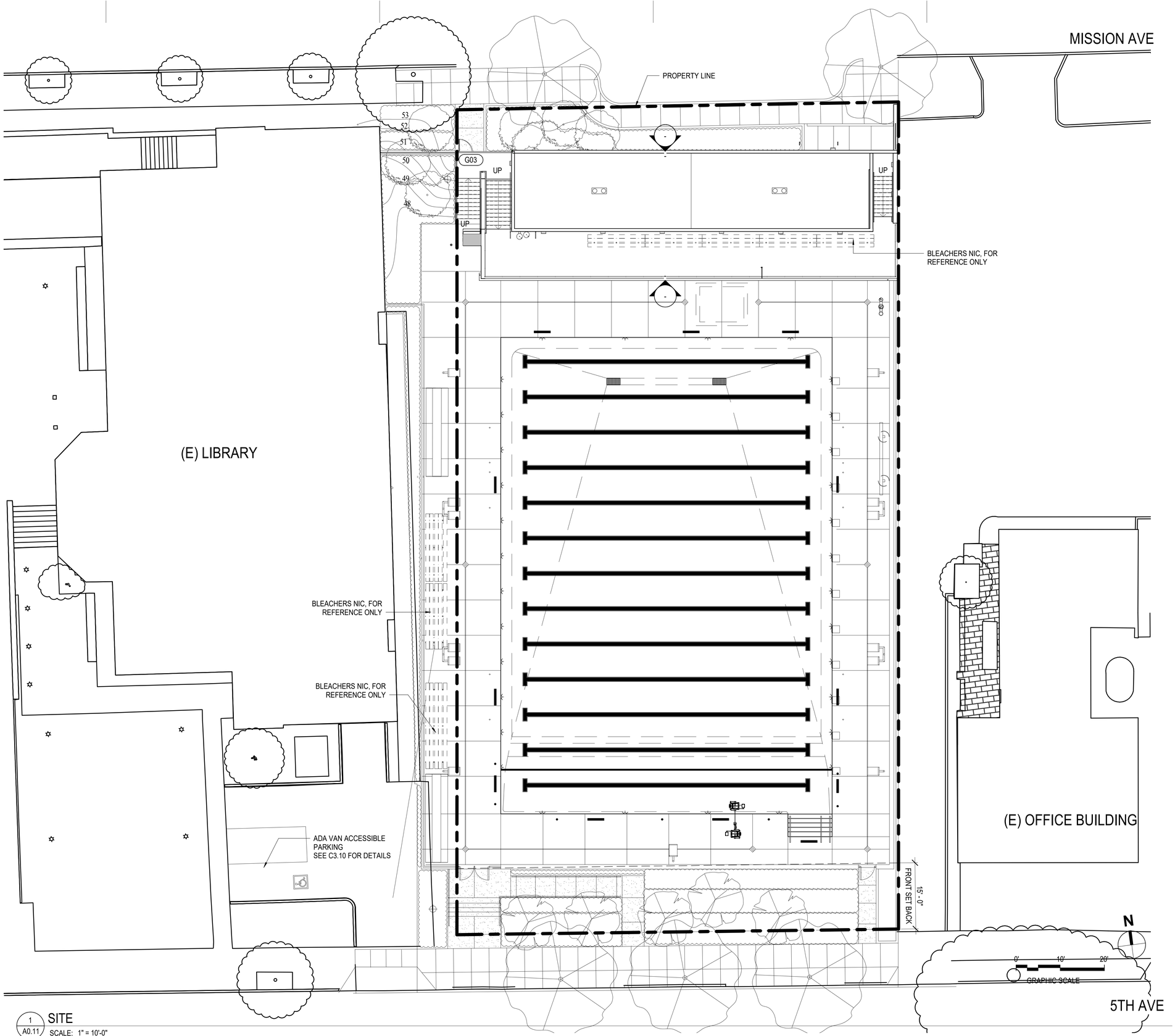


1 / A0.11 SITE
SCALE: 1" = 10'-0"

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| | | |

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Sheet Title
**SITE PLAN**

Sheet Number
**A0.11**

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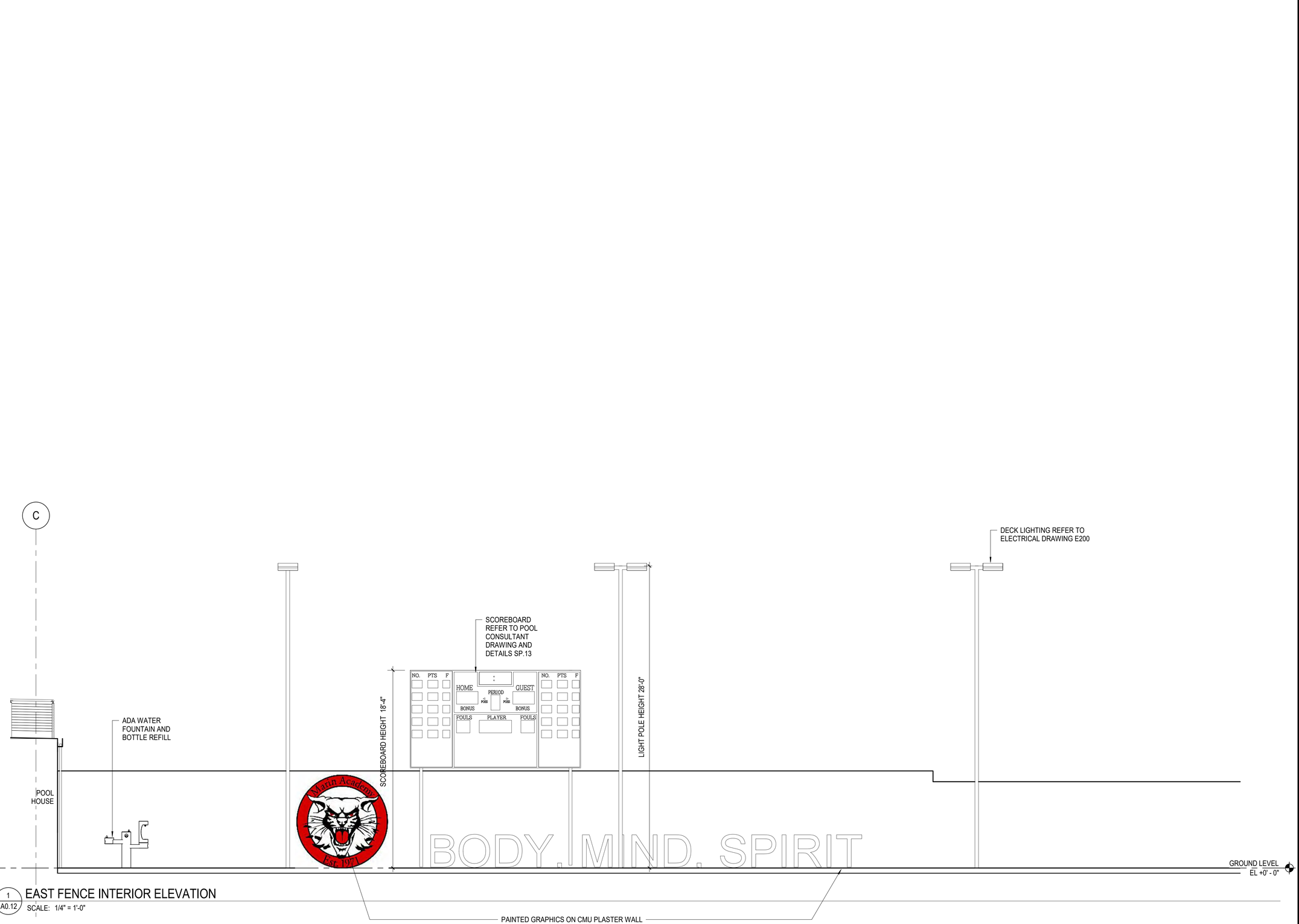


1 / A0.12 EAST FENCE INTERIOR ELEVATION

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

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|---|---|---|

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## FENCE INTERIOR ELEVATION

Sheet Number

# A0.12

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# INTERIOR FINISHES

## WALL FINISHES

PAINT

PT-1
Description: TYPICAL WALL PAINT
Section: 09 91 00
Manufacturer: BENJAMIN MOORE
Number: 967
Color: CLOUD WHITE
Note: SEMI-GLOSS, TYP.
USE EGGSHELL IN OFFICE

TILE

TL-2
Description: INTERIOR WALL TILE
Manufacturer: DESIGN & DIRECT SOURCE
Product: SCOUSE MADRAS
Color: WHITE
Size: 3'X 10"

## FLOOR FINISHES

CONCRETE

CON-1
Section: 03 05 00
Product: TROWELED & SEALED CONCRETE
Note: LEVEL 2 FINISH

RESILIENT FLOORING

RF-1
Description: RUBBER FLORING
Section: 09 65 16
Manufacturer: NORA
Product: NORAMENT 926 SATURA
Number: 1880
Color: 5114 CIRCINUS
Size: ~40" X ~40"

TILE

TL-3
Description: FLOOR MOSAIC TILE
Manufacturer: DESIGN & DIRECT SOURCE
Product: UNGLAZED PORCELAIN
Color: GALAXY BLUE
Size: 2"X2"

## BASE FINISHES

RB-1
Description: WALL BASE
Section: 09 65 16
Manufacturer: NORA
Product: NORA WALL BASE
Number: 820
Color: TO MATCH ADJACENT FLOOR COLOR(RF-1 OR CON-1)

TILE

TLB-1
Description: MOSAIC TILE BASE AND COVE
Manufacturer: DESIGN & DIRECT SOURCE
Product: UNGLAZED PORCELAIN
Color: GALAXY BLUE

## CEILING FINISHES

CT-1
Description: ACOUSTICAL CEILING PANELS
Section: 09 51 13
Manufacturer: ARMSTRONG
Product: OPTIMA VECTOR
Number: 3908
Color: WHITE
Size: 24" x 48"

PT-1
Description: TYPICAL CEILING PAINT
Section: 09 91 00
Manufacturer: BENJAMIN MOORE
Number: 967
Color: CLOUD WHITE
Note: SEMI-GLOSS, TYP.

## MILLWORK FINISHES

SS-1
Description: SOLID SURFACE COUNTER TOP
Section: 12 36 61
Manufacturer: CORIAN
Number: 000-4CORIEN (890.426.7426)
Color: SEAFOAM

## SHADE FINISHES

SD-1
Description: WINDOW SHADE
Manufacturer: MECHO
Product: ECOVEIL SCREENS
Number: 1550
Color: 1563 GREY
Note: 3% OPENING

# EXTERIOR FINISHES

## WALL FINISHES

TILE

TL-1
Description: TILE ALT1
Manufacturer: HEATH
Color: G40 FROST
Size: 6" TRIANGLE

Description: TILE ALT2
Manufacturer: DALTILE
Product: COLOR WAVE GLASS TILE
Color: CW13 BLUE LAGOON
Size: 2"X12"

Description: TILE ALT3
Manufacturer: DALTILE
Product: ARTIGIANO
Color: AR98 ROMAN SKYLINE
Size: 3"X12"

Description: TILE ALT4
Manufacturer: DALTILE
Product: COLORMATCH
Color: 0169 WATERFALL
Size: 4"X12"

PLASTER

PL-1
Description: CEMENT PLASTER
Manufacturer: LAHABRA
Color: A-50 CRYSTAL WHITE
Note: FINISH: FINE LIGHT BASE

METAL

MT-1
Description: KYNAR PAINTED METAL
Manufacturer: PPG
Product: DURANAR
Number: UC106715XL
Color: MINIERAL BROWN METALLIC

MT-2
Description: KYNAR PAINTED METAL
Manufacturer: PPG
Color: TO MATCH TL-1

## FLOOR FINISHES

CONCRETE

CON-2
Section: 03 05 00
Product: TROWELED & SEALED CONCRETE
Note: BROOM FINISH

## FINISH SHEET NOTES

1. USE PAINT PT-1 THROUGHOUT, U.O.N.
2. PERIMETER WINDOW SHALL RECEIVE SD-1, TYP., U.O.N.
3. PROVIDE WALL BASE RB-2 AT ALL GYPSUM BOARD WALLS, U.O.N.
4. NO BASE AT MECHANICAL ROOM 06.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL MANUFACTURER INFORMATION
6. SEE SHEETS A2.21, A5.01, A5.02 AND A6.01 FOR ADDITIONAL FINISH INFORMATION.

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Scale
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Sheet Title
**FINISH SCHEDULE**

Sheet Number
**A0.20**

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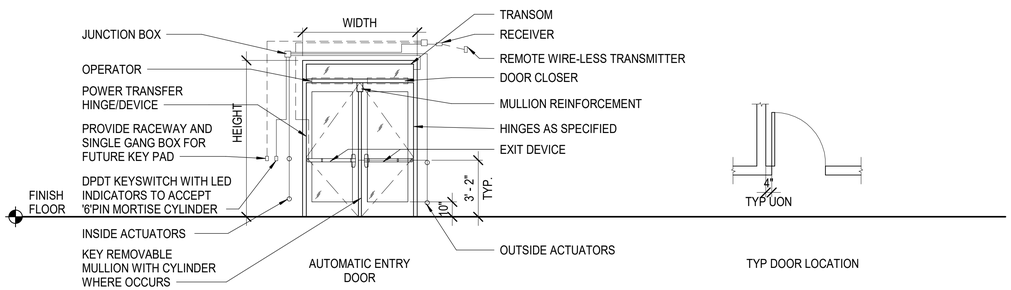
| DOOR SCHEDULE | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DOOR NUMBER | FUNCTION | DOOR SIZE | | DOOR | | | FRAME MATERIAL | FRAME FINISH | FRAME DETAILS | | | RATING | HDWR SET | COMMENTS |
| | | WIDTH | HEIGHT | TYPE | MATERIAL | FINISH | | | HEAD | JAMB | THRESHOLD | | | |
| GROUND LEVEL | | | | | | | | | | | | | | |
| 101 | Exterior | 3' - 0" | 7' - 0" | A1 | HM | PTD-MT-2 | HM | PTD | | | | NR | 01 | |
| 102 | Interior | 3' - 0" | 7' - 0" | A1 | HM | PTD | HM | PTD | | | | NR | 08 | |
| 103 | Exterior | 3' - 0" | 7' - 0" | A1 | HM | PTD-MT-2 | HM | PTD | | | | NR | 01 | |
| 104 | Interior | 3' - 0" | 7' - 0" | A1 | HM | PTD | HM | PTD | | | | NR | 08 | |
| 105 | Exterior | 3' - 0" | 7' - 0" | A1 | HM | PTD-MT-2 | HM | PTD | | | | NR | 02 | |
| 106 | Exterior | 6' - 0" | 7' - 0" | B4 | HM | PTD-MT-2 | HM | PTD | | | | NR | 05 | |
| 107 | Exterior | 3' - 0" | 7' - 0" | A1 | HM | PTD-MT-2 | HM | PTD | | | | NR | 03 | |
| 108 | Exterior | 3' - 0" | 7' - 0" | A1 | HM | PTD-MT-2 | HM | PTD | | | | NR | 04 | |
| 109 | Interior | 3' - 0" | 7' - 0" | A1 | HM | PTD | HM | PTD | | | | NR | 07 | |
| G01 | Exterior | 6' - 0" | 7' - 0" | B2 | MP | PTD | | | | | | | G-01 | ON SITE FENCE |
| G02 | Exterior | 3' - 0" | 7' - 0" | B1 | HM | PTD | HM | PTD | | | | | G-02 | ON SITE FENCE |
| G03 | Exterior | 3' - 0" | 7' - 0" | B1 | MP | PTD | | | | | | | G-03 | ON SITE FENCE |
| MISSION AVE LEVEL | | | | | | | | | | | | | | |
| 111 | Exterior | 6' - 0" | 7' - 0" | B7 | HM | PTD-MT-1 | HM | PTD | | | | NR | 05 | |
| 112 | Exterior | 6' - 0" | 7' - 0" | B7 | HM | PTD-MT-1 | HM | PTD | | | | NR | 05 | |
| 113 | Exterior | 3' - 0" | 7' - 0" | A1 | HM | PTD-MT-1 | HM | PTD | | | | NR | 06 | |

# DOOR TYPES

*NOTE: REFER TO EXTERIOR AND INTERIOR GLAZING SYSTEM SCHEDULE AND GLASS SCHEDULE FOR ADDITIONAL INFORMATION



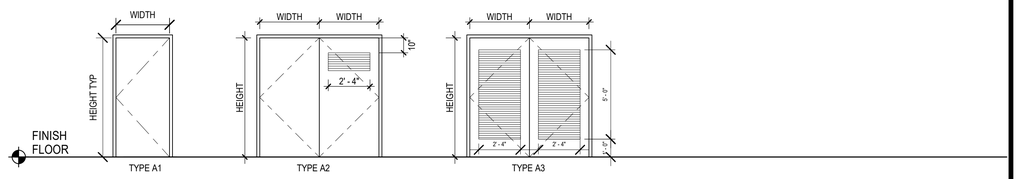

## SCHEDULE ABBREVIATIONS

| | |
|---|---|
| HM | HOLLOW METAL |
| MP | METAL PICKET |
| FIN | FINISH |
| REQ'D | REQUIRED |
| MAT | MATERIAL |
| PTD | PAINTED |
| SS | STAINLESS STEEL |
| WD | WOOD |

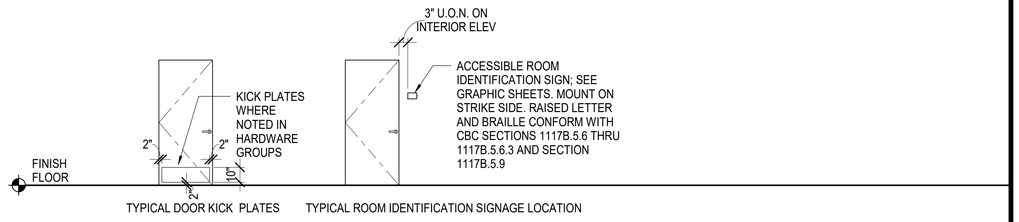
## NOTES

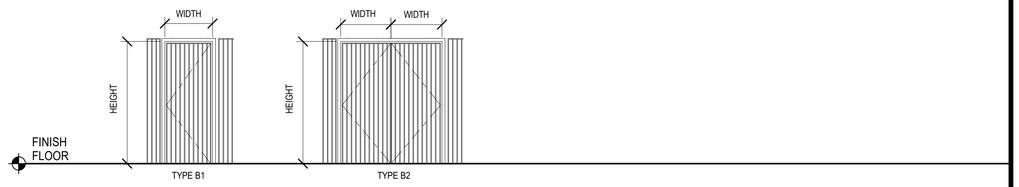
1. THRESHOLD DETAILS: SEE FINISH PLANS AND SHEET A9.21 FOR INTERIOR DOORS
2. HARDWARE INFORMATION: SEE SPECIFICATIONS
3. DOOR SWINGS: SEE FLOOR PLANS
4. GASKETED DOOR DETAIL: SEE A9.21

SEE ENLARGED FLOOR PLANS + ELEVATIONS FOR SIZE & DIMENSIONS




**DOOR TYPE A: HOLLOW METAL DOORS, HOLLOW METAL FRAMES**




**DOOR TYPE B: METAL PICKET DOOR IN FENCE**

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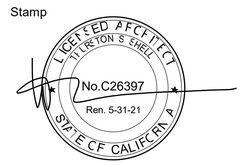


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**DOOR SCHEDULE**

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## PLAN SHEET NOTES

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3. REFER TO G0.08 AND G0.09 FOR SIGNAGE INFORMATION.
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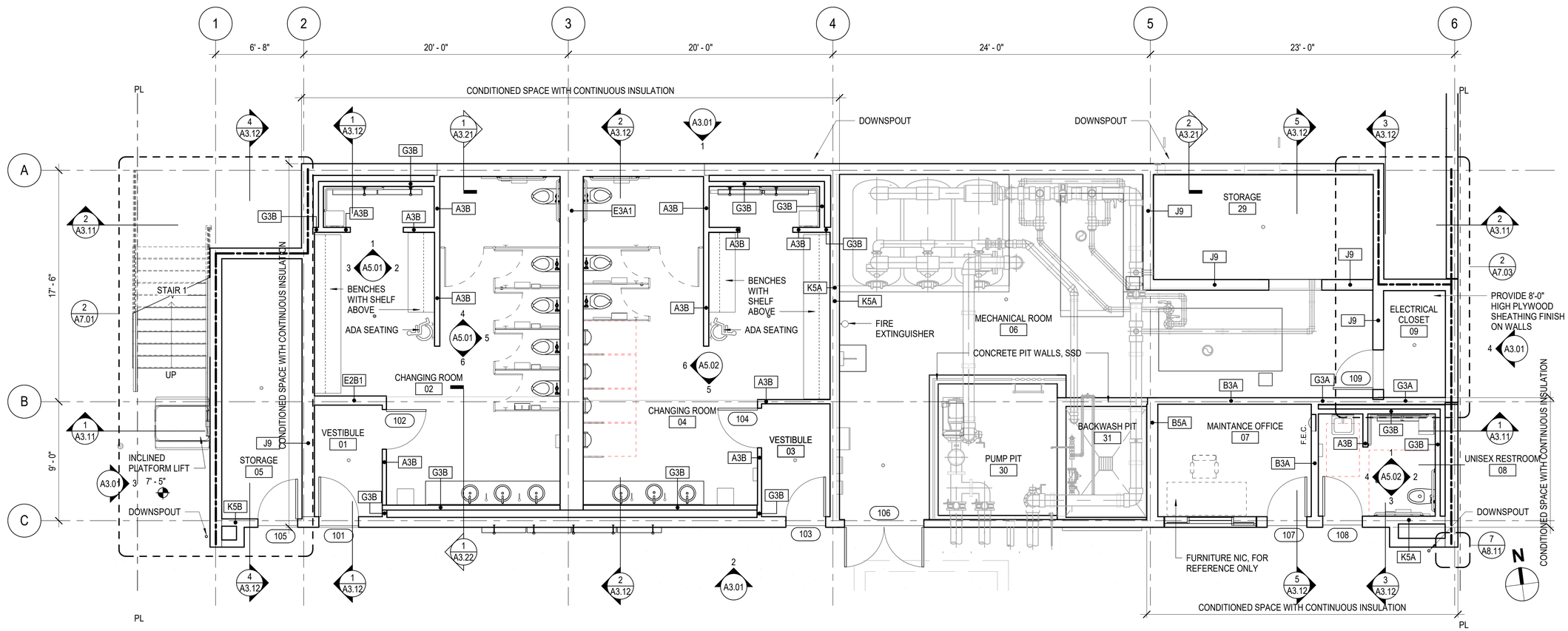
5. REFER TO A7 SERIES FOR ENLARGED STAIR PLANS AND SECTIONS.
6. REFER TO A2.21 FOR FINISH AND TOILET ACCESSORIES INFORMATION.

## PLAN LEGEND

- 1 HR FIRE RATED PARTITION
- PROPERTY LINE
- FIRE EXTINGUISHER CABINET (F.E.C.)




1 A2.01 GROUND LEVEL PLAN
SCALE: 1/4" = 1'-0"

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## GROUND FLOOR PLAN

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# A2.01

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PLAN LEGEND

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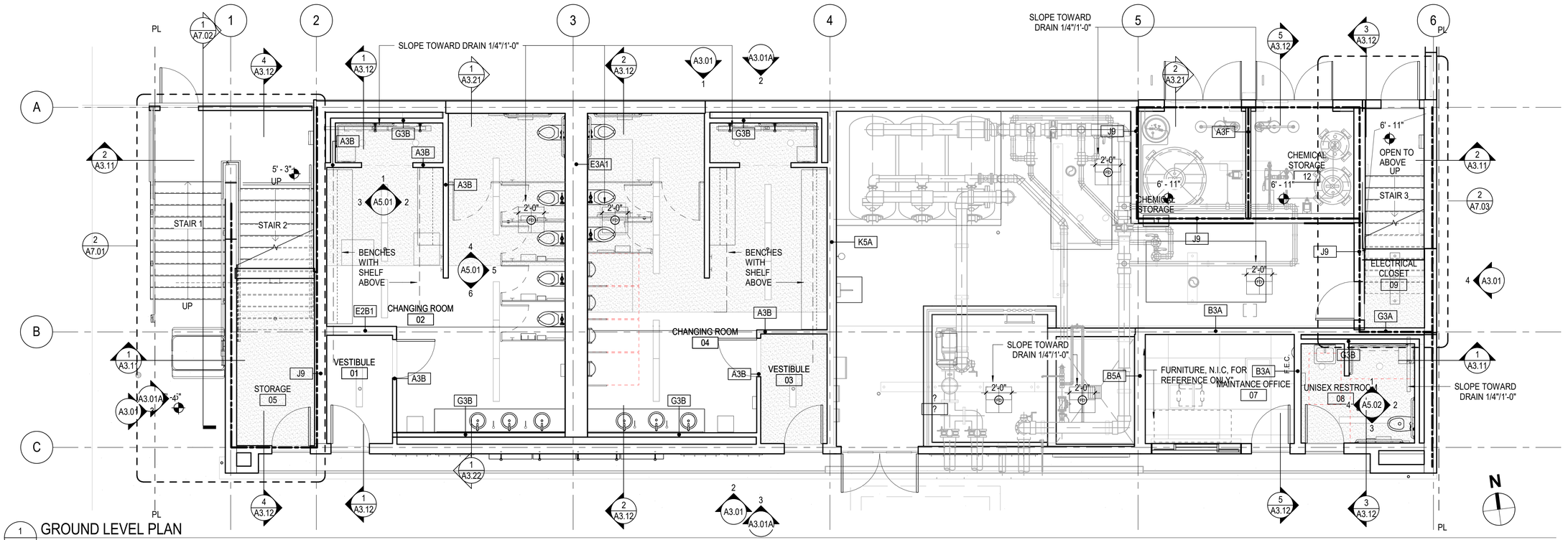
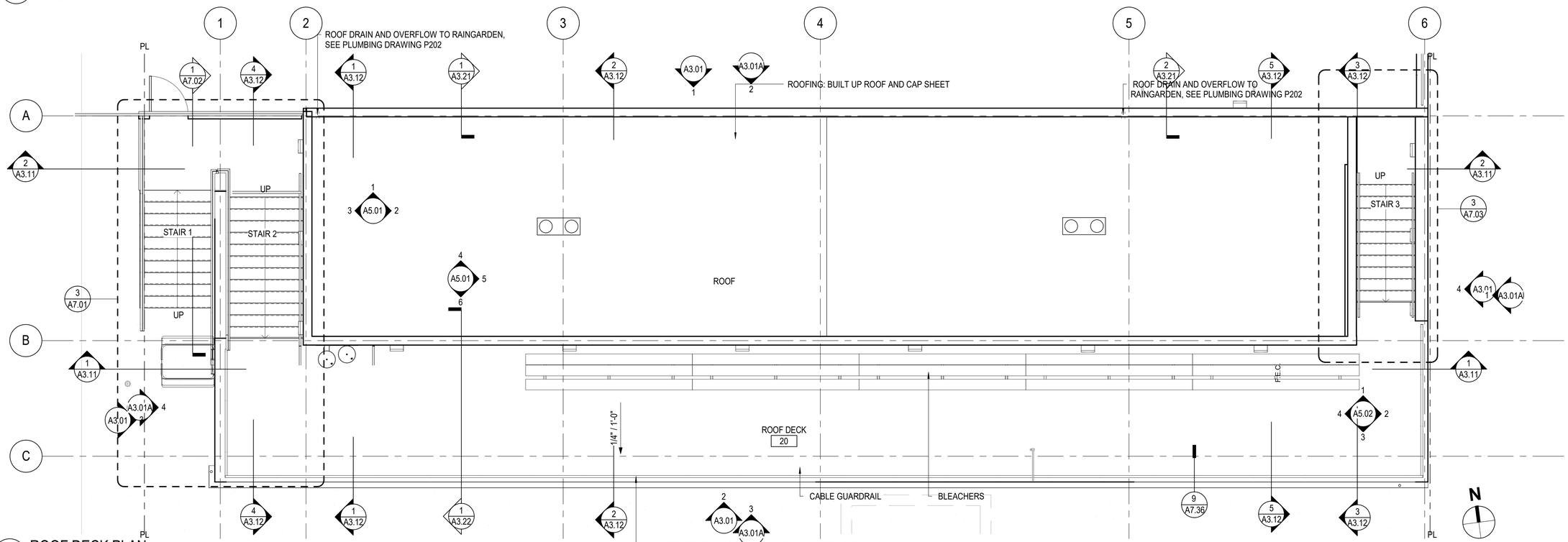
PROPERTY LINE




1 A2.01A GROUND LEVEL PLAN
SCALE: 1/4" = 1'-0"




2 A2.01A ROOF DECK PLAN
SCALE: 1/4" = 1'-0"

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**FLOOR PLAN**

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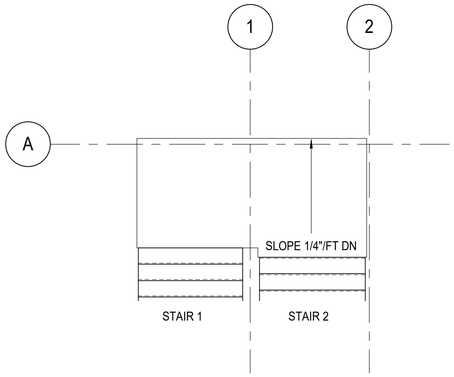
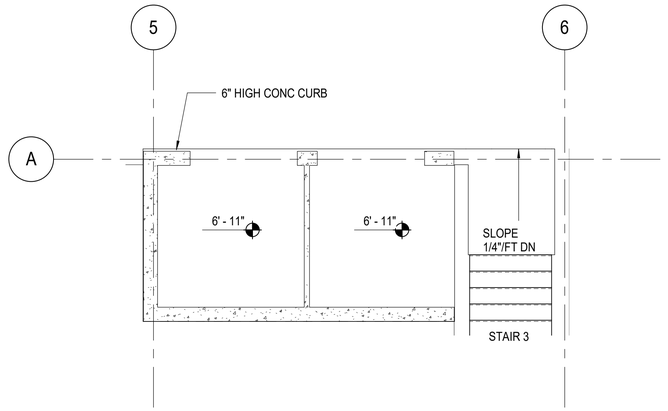



3 A2.01S MISSION AVE LEVEL SLAB PLAN - WEST
SCALE: 1/4" = 1'-0"

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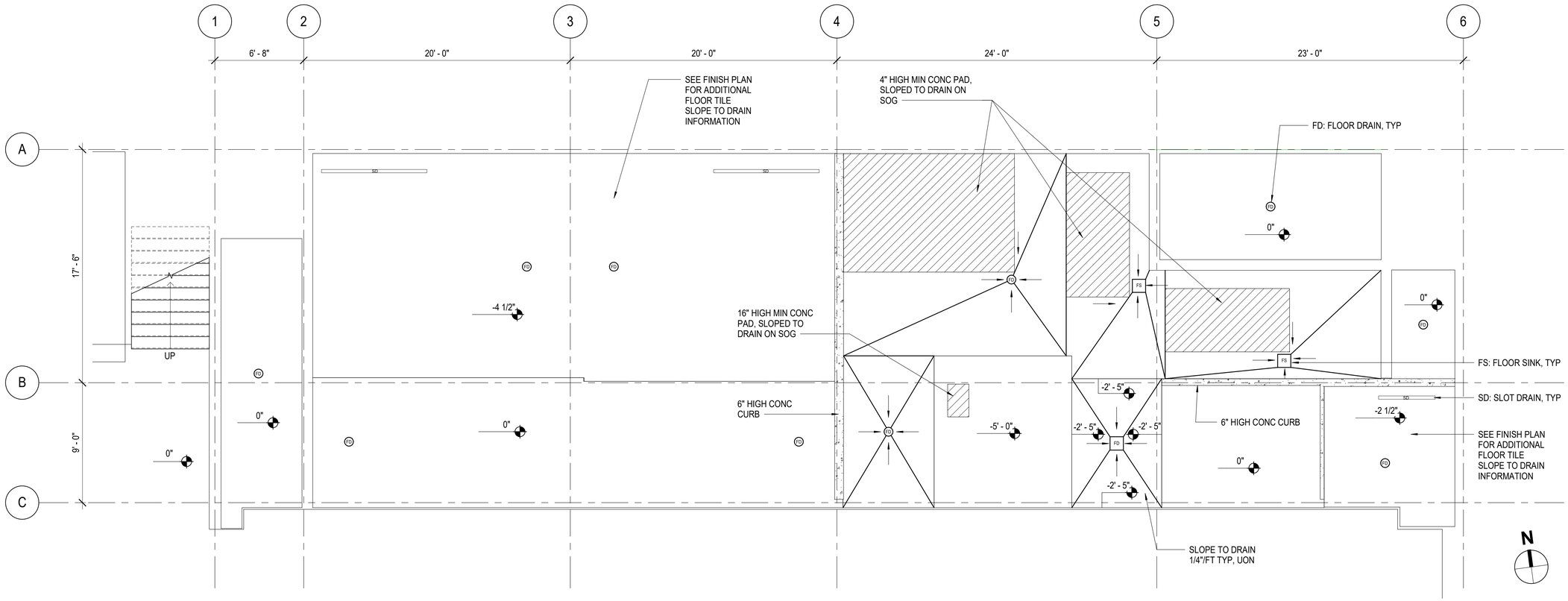
SCALE: 1/4" = 1'-0"




1 A2.01S GROUND LEVEL SLAB PLAN
SCALE: 1/4" = 1'-0"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**SLAB PLANS**

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## PLAN SHEET NOTES

1. FOR GENERAL NOTES APPLICABLE TO ALL DRAWINGS REFER TO THE "PROJECT GENERAL NOTES" ON SHEET G0.02.
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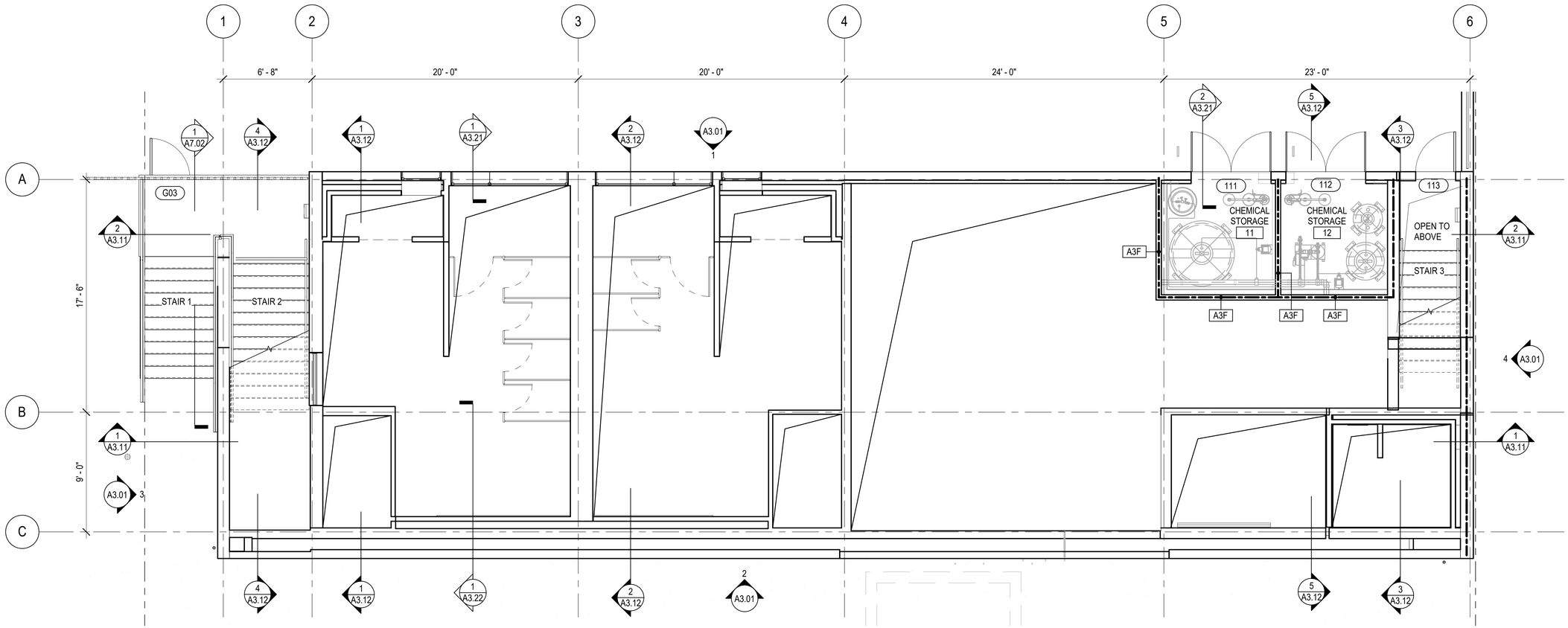
## PLAN LEGEND

- 1 HR FIRE RATED PARTITION
- PROPERTY LINE
- F.E.C. — FIRE EXTINGUISHER CABINET




1 A2.02 MISSION AVE LEVEL PLAN
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**MISSION AVE FLOOR PLAN**

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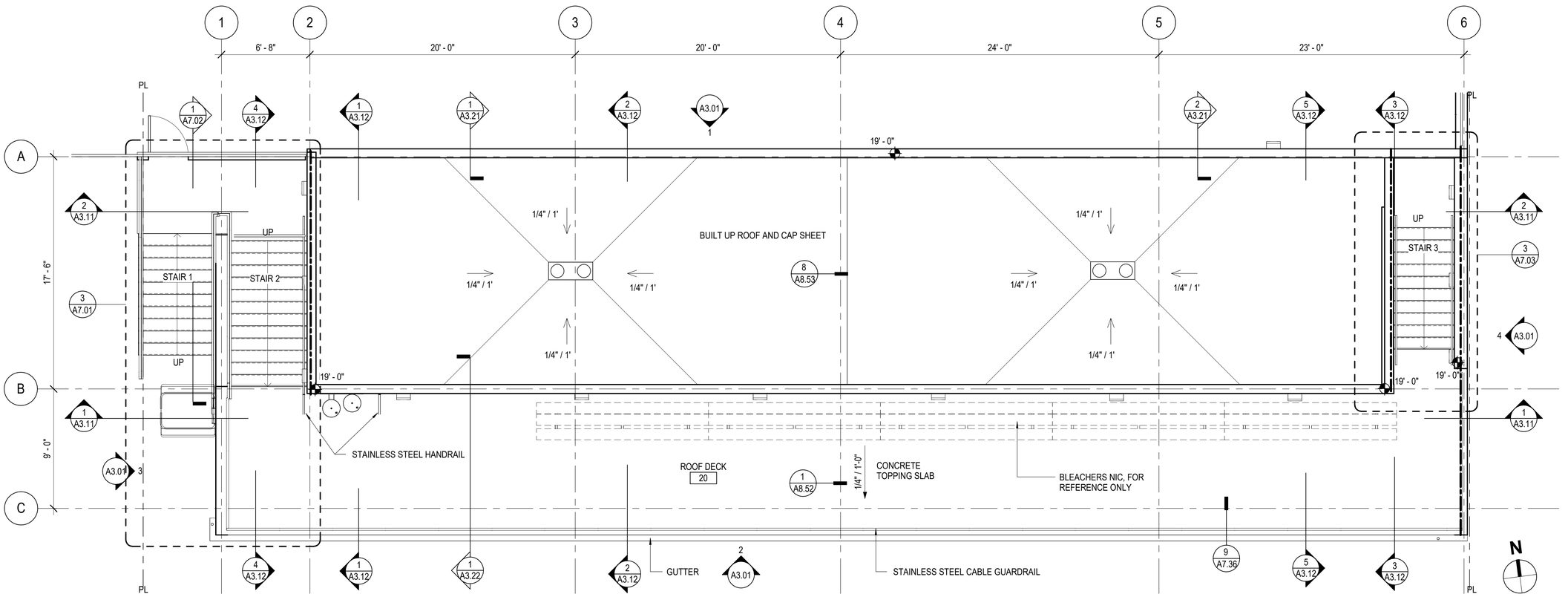
## PLAN LEGEND

- 1 HR FIRE RATED PARTITION
- PROPERTY LINE
- F.E.C. FIRE EXTINGUISHER CABINET




1 A2.03 ROOF DECK PLAN
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Sheet Title
**ROOF PLAN**

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**A2.03**


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## FINISH PLAN NOTES

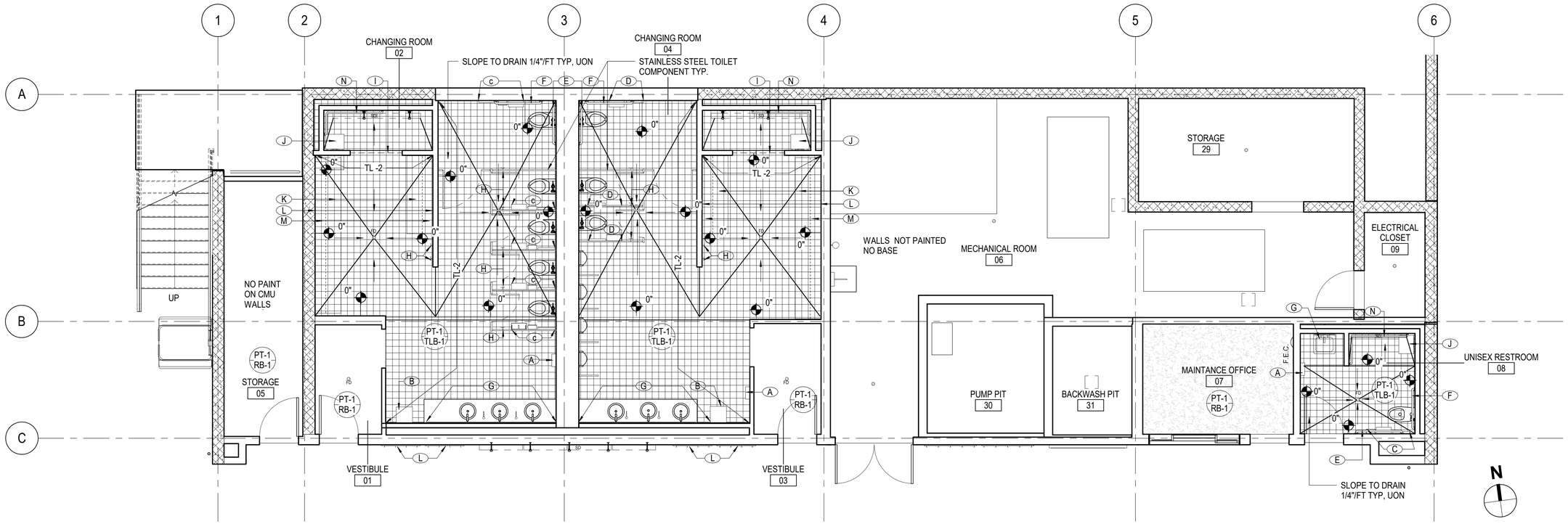
1. REFER TO SHEET A0.20 FOR MATERIAL FINISH SCHEDULE.
2. REFER TO INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.
3. DOOR FRAME AND LEAF FINISHES ARE INDICATED ON DOOR SCHEDULE.
4. FLOOR MATERIAL TRANSITIONS OCCURRING IN OPENINGS WITH DOORS ARE LOCATED AT THE CENTER OF THE DOOR IN CLOSED POSITION.
5. ALL FINISHES, FURNISHINGS AND MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF 2016 CBC.CFC CHAPTER 8 AND CCR TITLE 19 FOR FLAME SPREAD AND SMOKE DEVELOPMENT.

## RESTROOM ACCESSORIES LEGEND

- (A) SURFACE MOUNTED HAND DRYER
- (B) SWIM SUIT DRYER
- (C) SURFACE MOUNTED SEAT-COVER DISPENSER, SANITARY NAPKIN DISPOSAL, SHELF AND TOILET TISSUE DISPENSER
- (D) SURFACE MOUNTED SEAT-COVER DISPENSER, SHELF AND TOILET TISSUE DISPENSER
- (E) 36" GRAB BAR
- (F) 42" GRAB BAR
- (G) MIRROR
- (H) HOOK
- (I) SHOWER ROD
- (J) SHOWER SEAT
- (K) WALL HUNG BENCH WITH SHOETRAY
- (L) LINEAR MULTIPLE HOOKS
- (M) WALL HUNG SHELF
- (N) SHOWER L SHAPED GRAB BAR

## FLOOR PLAN FINISH LEGEND

- FLOORING - CON -1
- FLOORING - CON-2
- FLOORING - TL- 3
- FLOORING - RB - 1
- XX-# / XX-# — WALL FINISH / BASE FINISH




2 A2.21 GROUND FLOOR FINISH PLAN

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


**MARIN ACADEMY AQUATIC CENTER**

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**FINISH PLAN - GROUND LEVEL**

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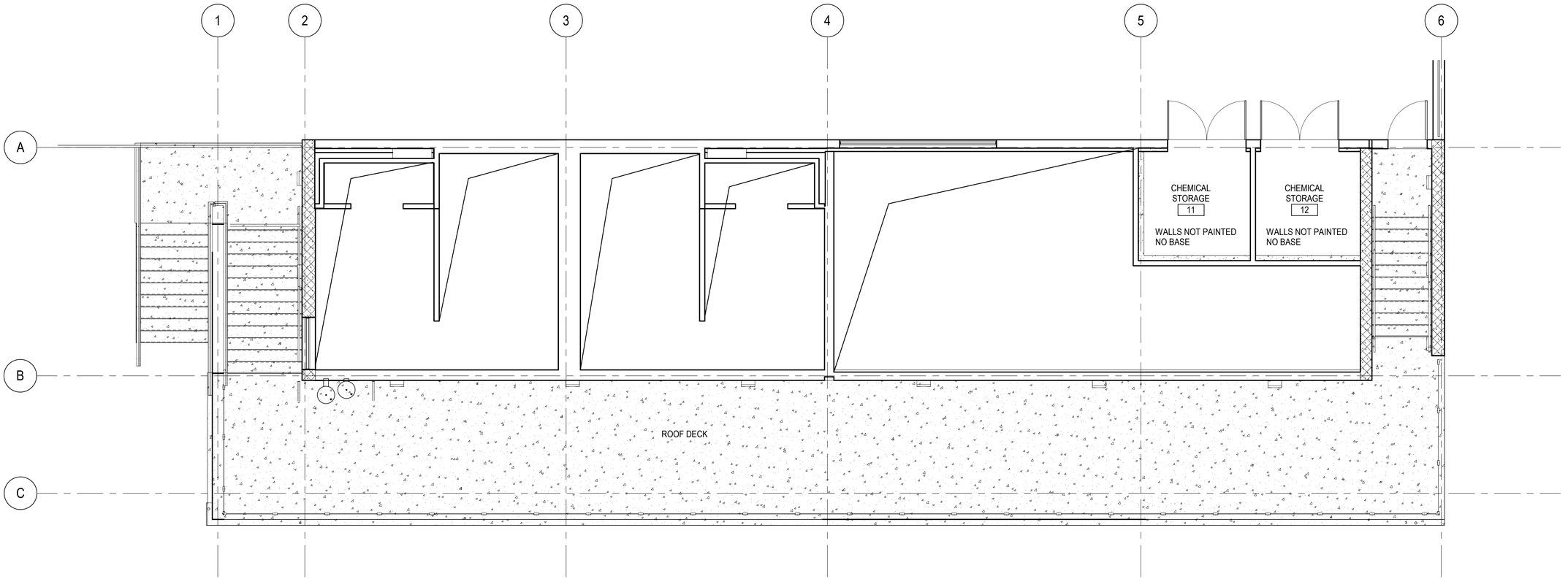
- (F) 42" GRAB BAR
- (G) MIRROR
- (H) HOOK
- (I) SHOWER ROD
- (J) SHOWER SEAT
- (K) WALL HUNG BENCH WITH SHOETRAY
- (L) LINEAR MULTIPLE HOOKS
- (M) WALL HUNG SHELF
- (N) SHOWER L SHAPED GRAB BAR

## FLOOR PLAN FINISH LEGEND

- FLOORING - CON -1
- FLOORING - CON-2
- FLOORING - TL- 3
- FLOORING - RB - 1
- XX-# / XX-# — WALL FINISH / BASE FINISH




1 / A2.22 MISSION AVE LEVEL FINISH PLAN
SCALE: 1/4" = 1'-0"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Sheet Title
**FINISH PLAN - MISSION LEVEL**

Sheet Number
**A2.22**


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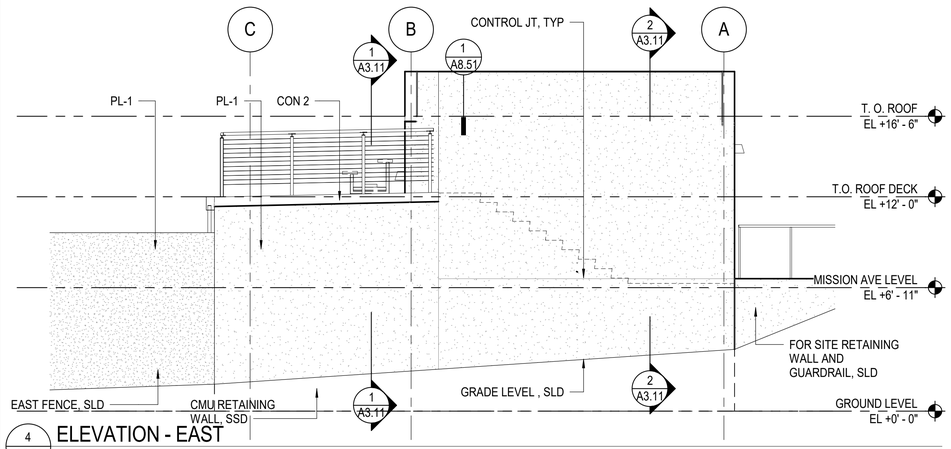
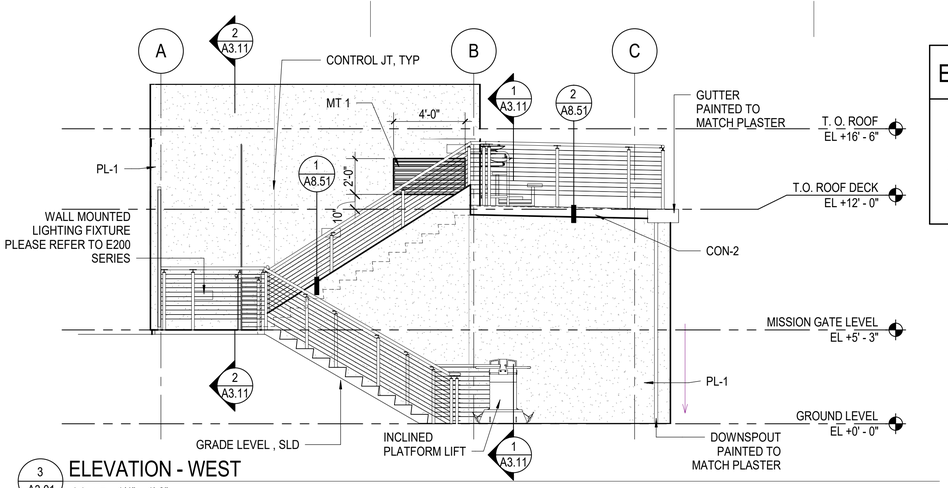



4 A3.01 ELEVATION - EAST

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

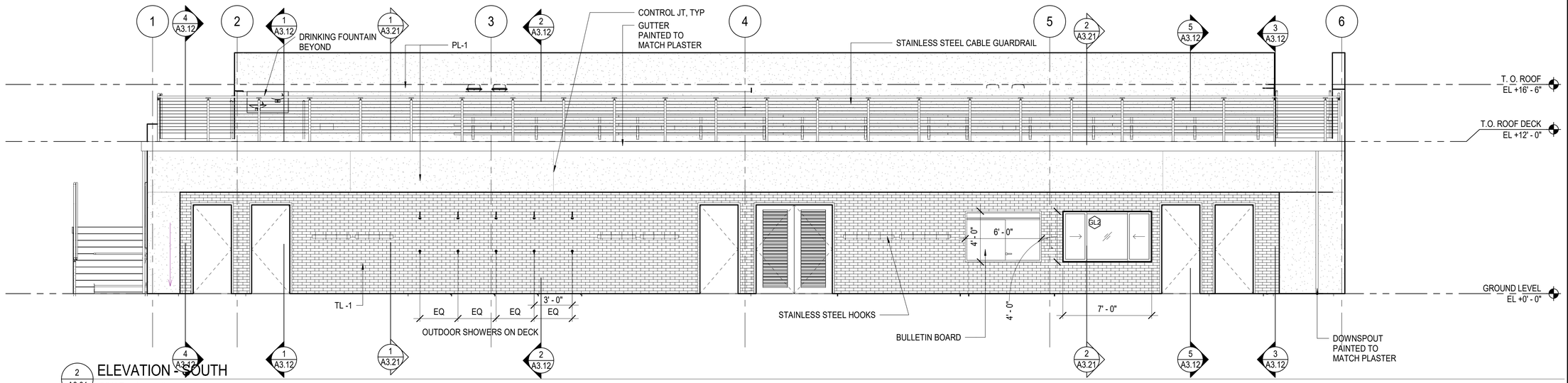



3 A3.01 ELEVATION - WEST

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

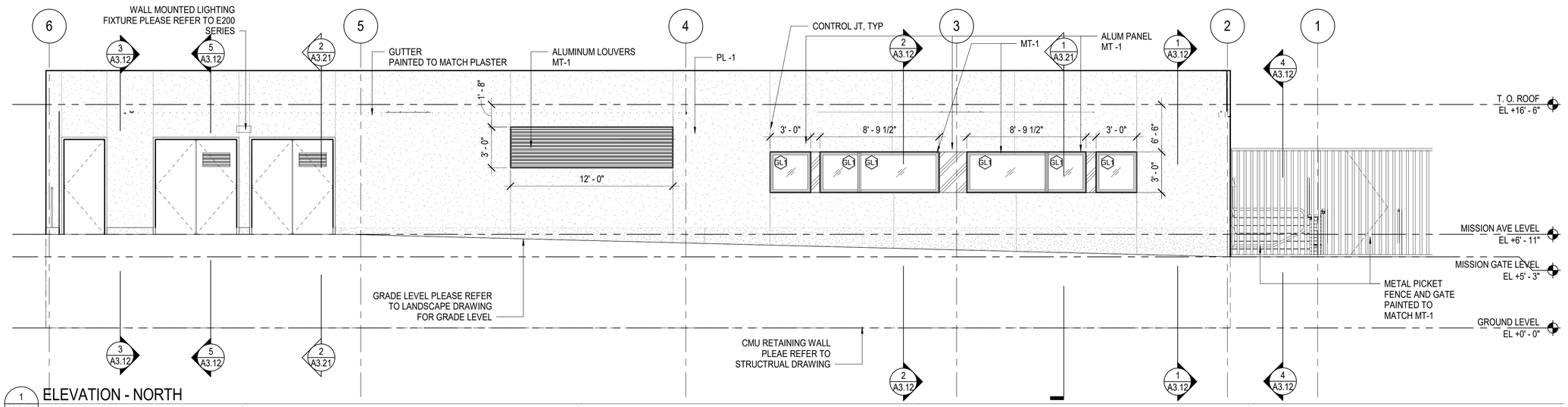
## EXTERIOR ELEVATION NOTES

1. REFER TO SPECIFICATIONS FOR WINDOW, GLAZING SYSTEM AND GLASS TYPES.
2. REFER TO A2.0 SERIES FOR DOOR NUMBER AND A0.30 FOR DOOR FINISH.
3. GLASS IS GL-# TYP UON.




2 A3.01 ELEVATION - SOUTH

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




1 A3.01 ELEVATION - NORTH

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

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**BUILDING ELEVATIONS**

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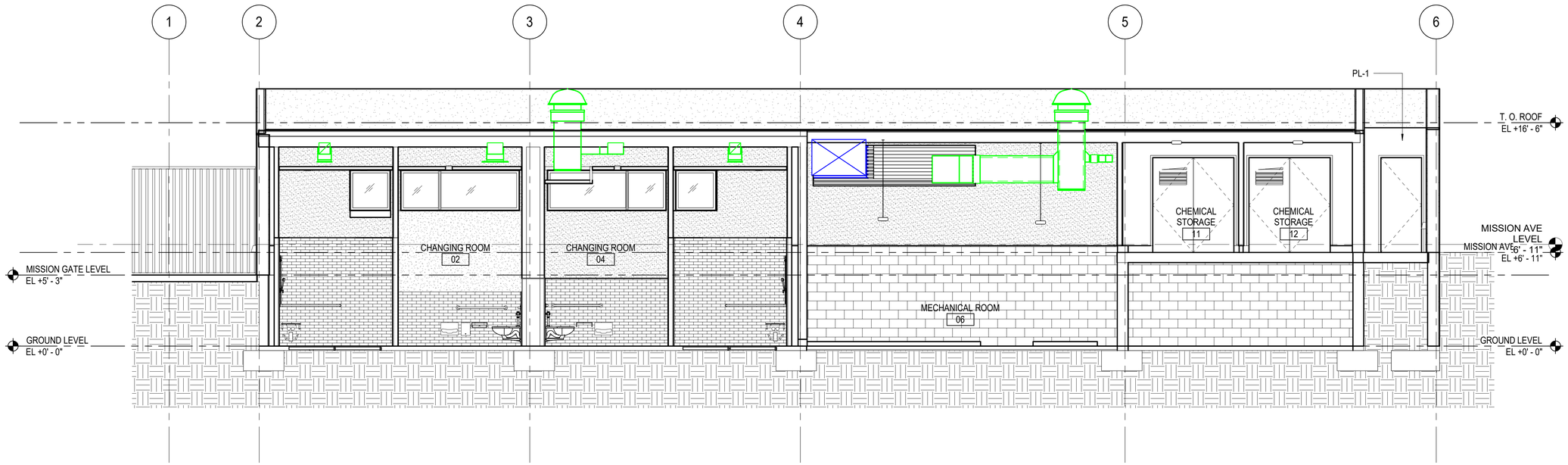
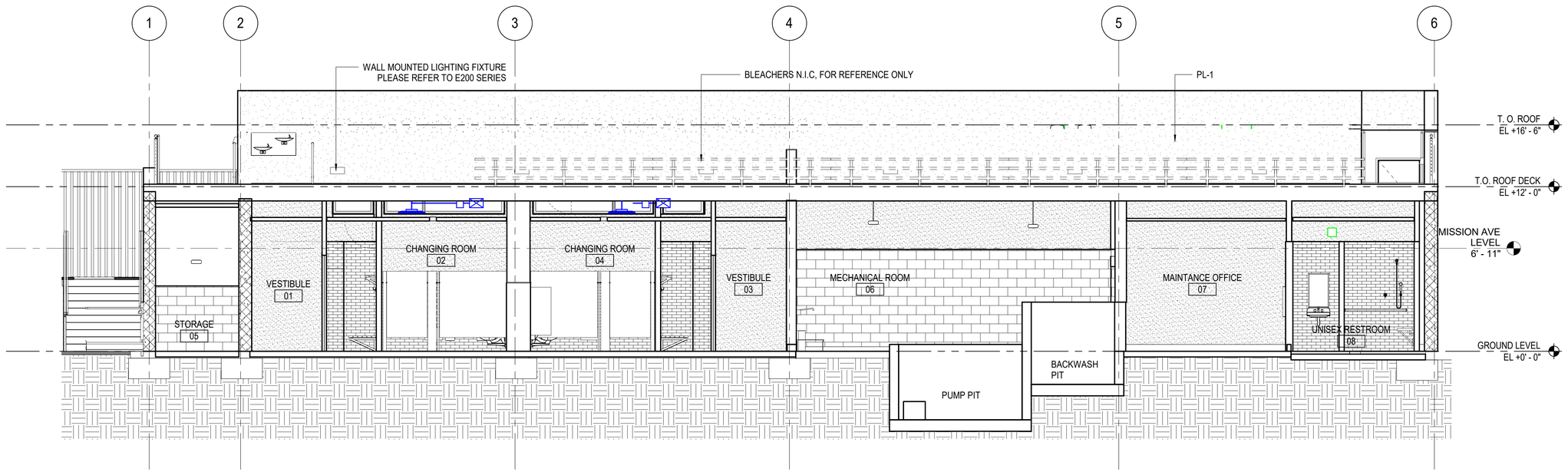



2 A3.11 SECTION THROUGH UPPER ROOF

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




1 A3.11 SECTION THROUGH ROOF DECK

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

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## BUILDING SECTIONS

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# A3.11

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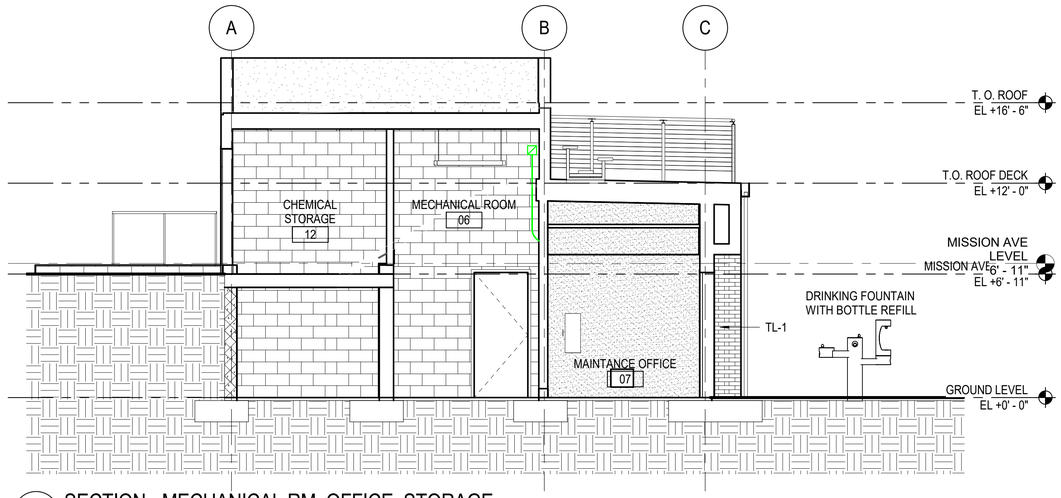
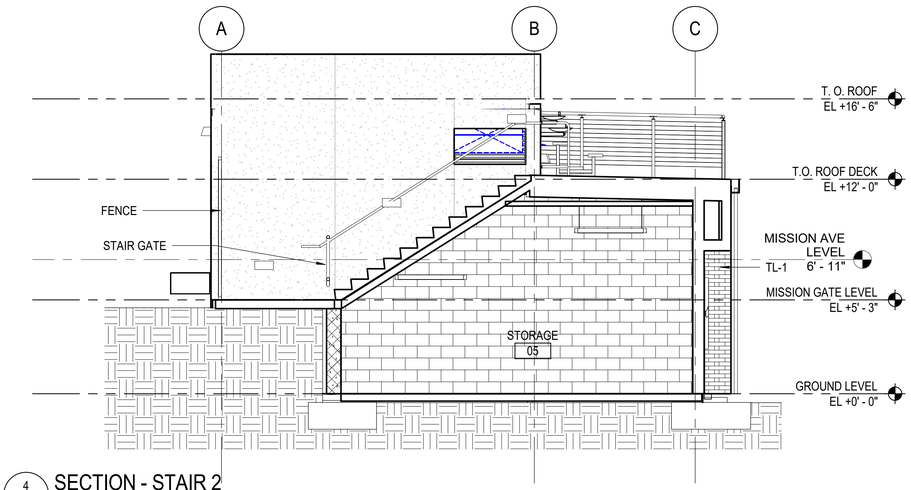


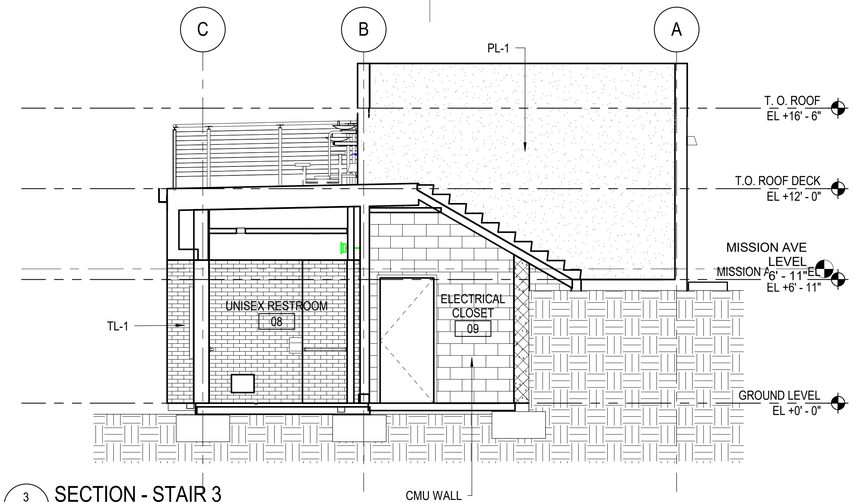

5 A3.12 SECTION - MECHANICAL RM, OFFICE, STORAGE

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




4 A3.12 SECTION - STAIR 2

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




3 A3.12 SECTION - STAIR 3

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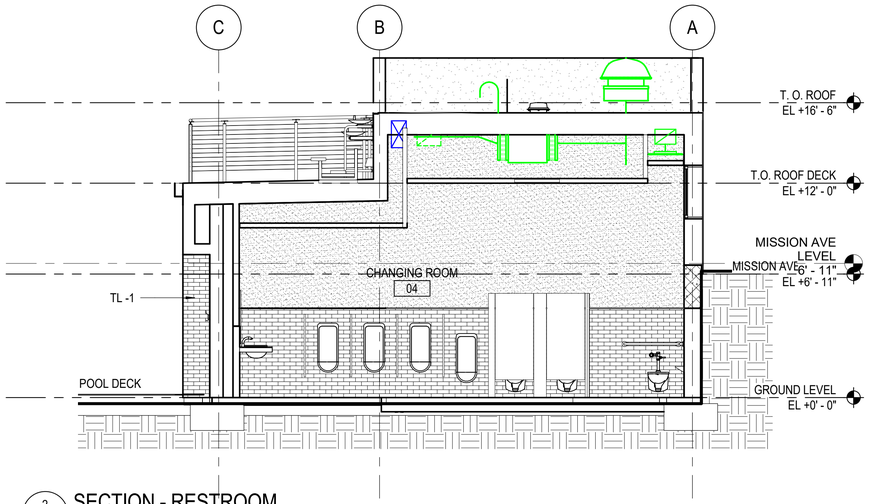
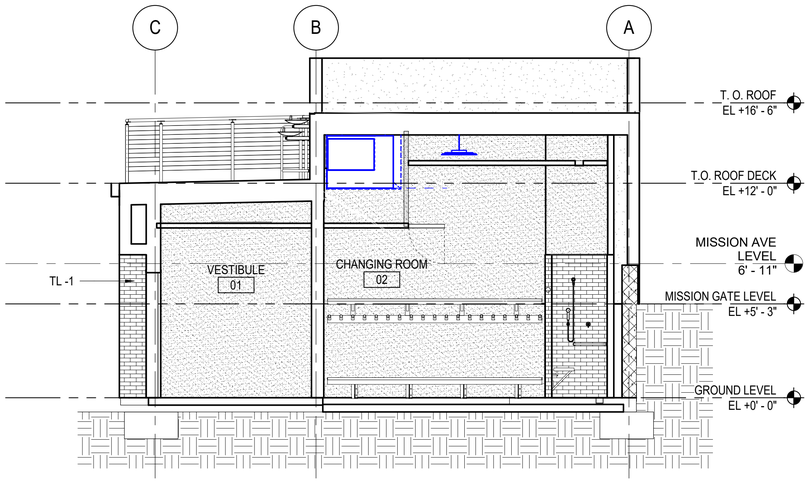



2 A3.12 SECTION - RESTROOM

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




1 A3.12 SECTION - CHANGING ROOM

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

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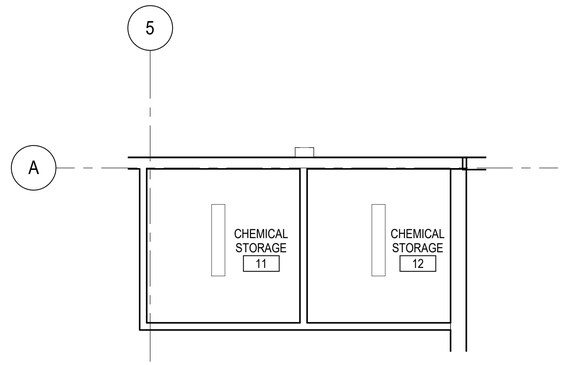
## REFLECTED CEILING LEGEND

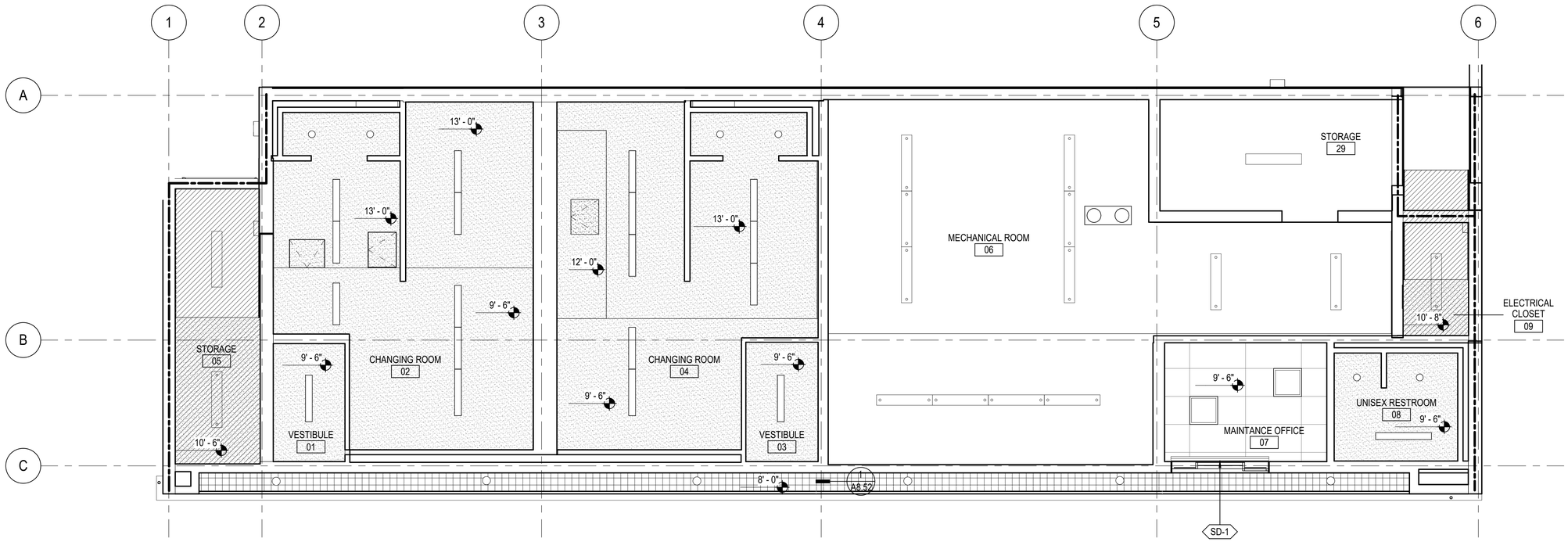
- EXPOSED STRUCTURE
- GYPSUM BOARD CEILING
- ACCESS PANEL
- RECESSED DOWNLIGHT
- 2'X4' LAY IN ACOUSTIC TILE CEILING
- 1 HOUR RATED UNDERSIDE OF STAIR
- +X'-X" — HEIGHT OF CEILING FINISH ABOVE FINISH FLOOR
- RECESSED LIGHT
- SURFACE LINEAR LIGHT
- PORCELAIN TILE
- WINDOW SHADE
- PENDANT LINEAR LIGHT

## REFLECTED CEILING PLAN NOTES

1. FOR GENERAL NOTES APPLICABLE TO ALL DRAWINGS REFER TO THE "PROJECT GENERAL NOTES" ON SHEET G0.02.
2. REFER TO SHEETS A9.11 FOR TYPICAL SUSPENDED CEILING DETAILS.
3. PAINT EXPOSED ACCESS PANELS TO MATCH ADJACENT SURFACE.
4. REFER TO SHEET A0.20 FOR MATERIAL FINISH SCHEDULE.
5. PENDENT LIGHT FIXTURES TO BE MOUNTED AT ____.
6. DIMENSIONS ARE TO CENTERLINE OF FIXTURE OR DEVICE UON.
7. CEILING ACCESS PANEL SIZE TO BE 24"X30" TYP UON.
8. WINDOW SHADE LENGTH TO BE VIF.




1 / A6.01 MISSION AVE LEVEL
SCALE: 1/4" = 1'-0"




2 / A6.01 GROUND LEVEL
SCALE: 1/4" = 1'-0"

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**REFLECTED CEILING PLAN**

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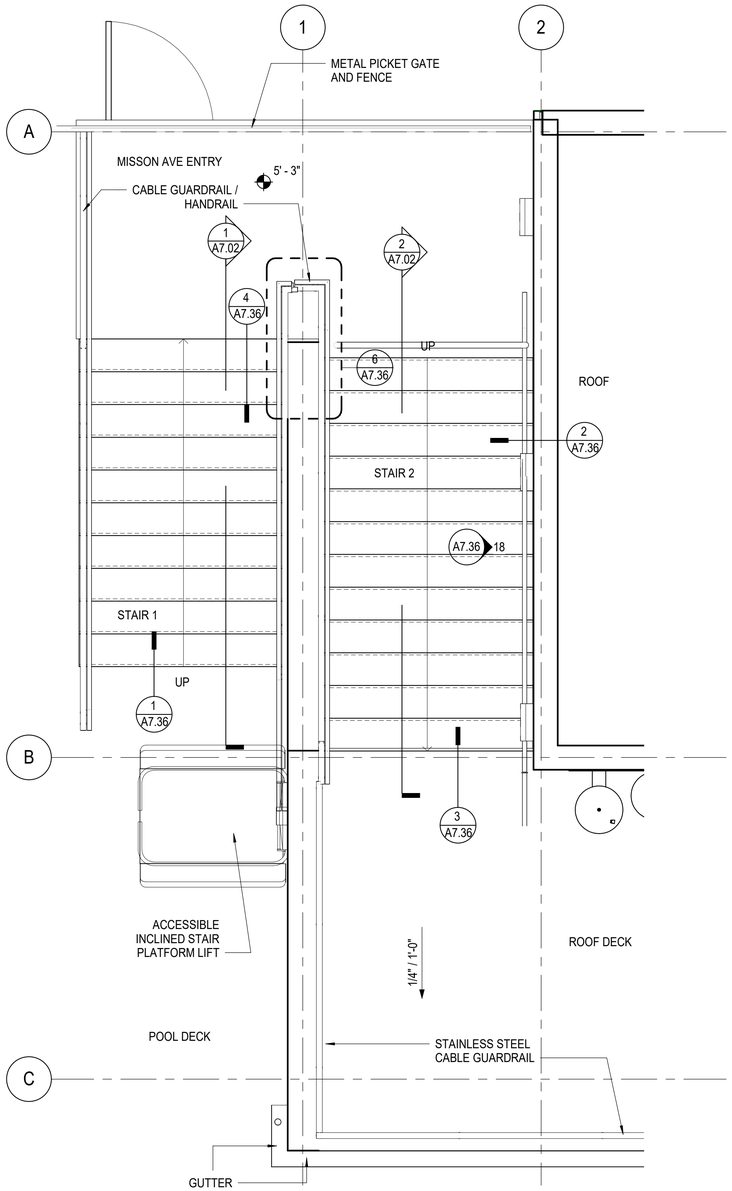
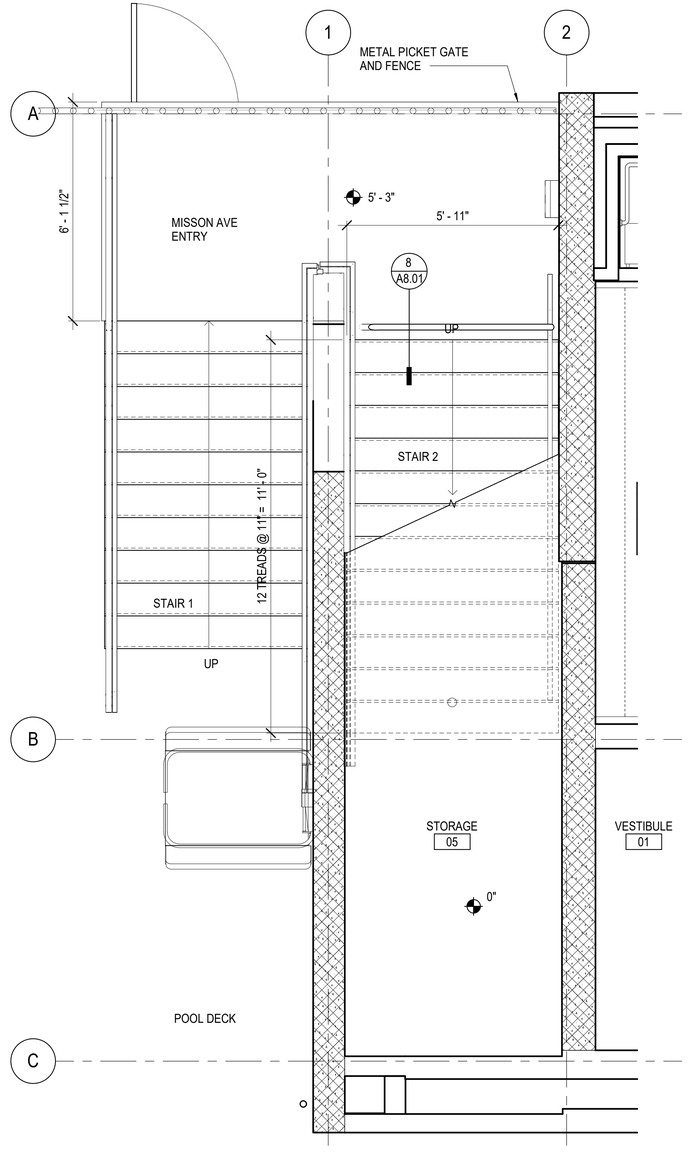
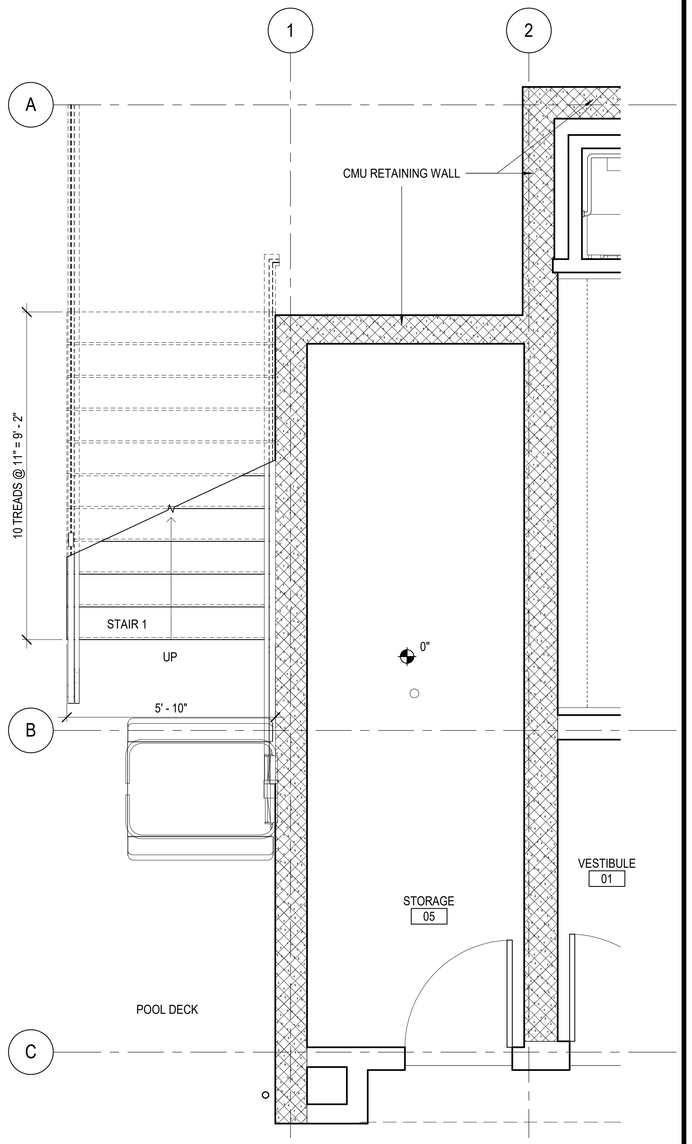



3 A7.01 ENLARGED PLAN - STAIR 1 & 2 ROOF LEVEL
SCALE: 1/2" = 1'-0"




2 A7.01 ENLARGED PLAN - STAIR 1 & 2 MISSION LEVEL
SCALE: 1/2" = 1'-0"




1 A7.01 ENLARGED PLAN - STAIR 1 & 2 GROUND LEVEL
SCALE: 1/2" = 1'-0"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**STAIR 1 AND 2 PLANS**

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**A7.01**

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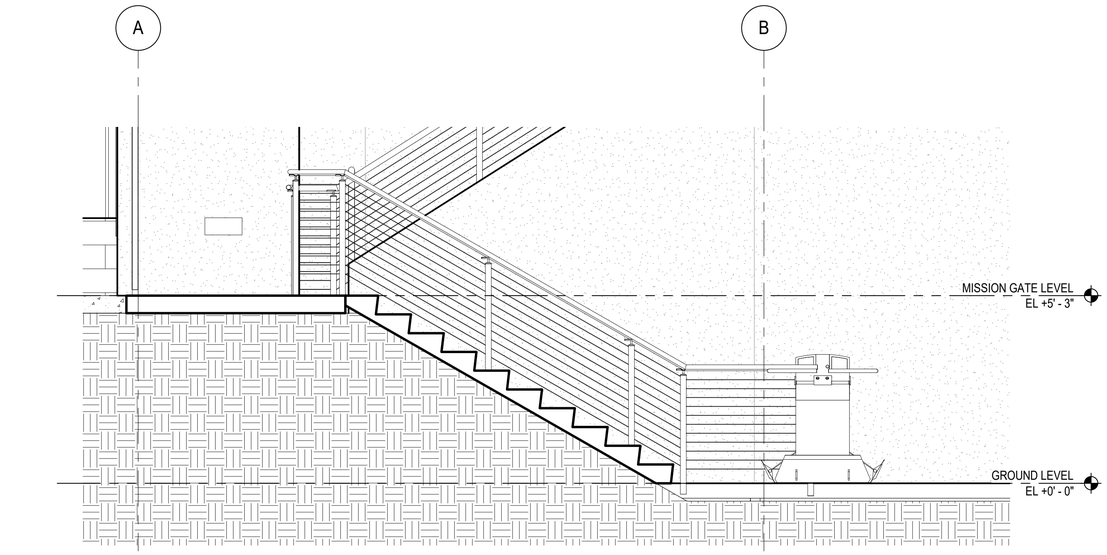
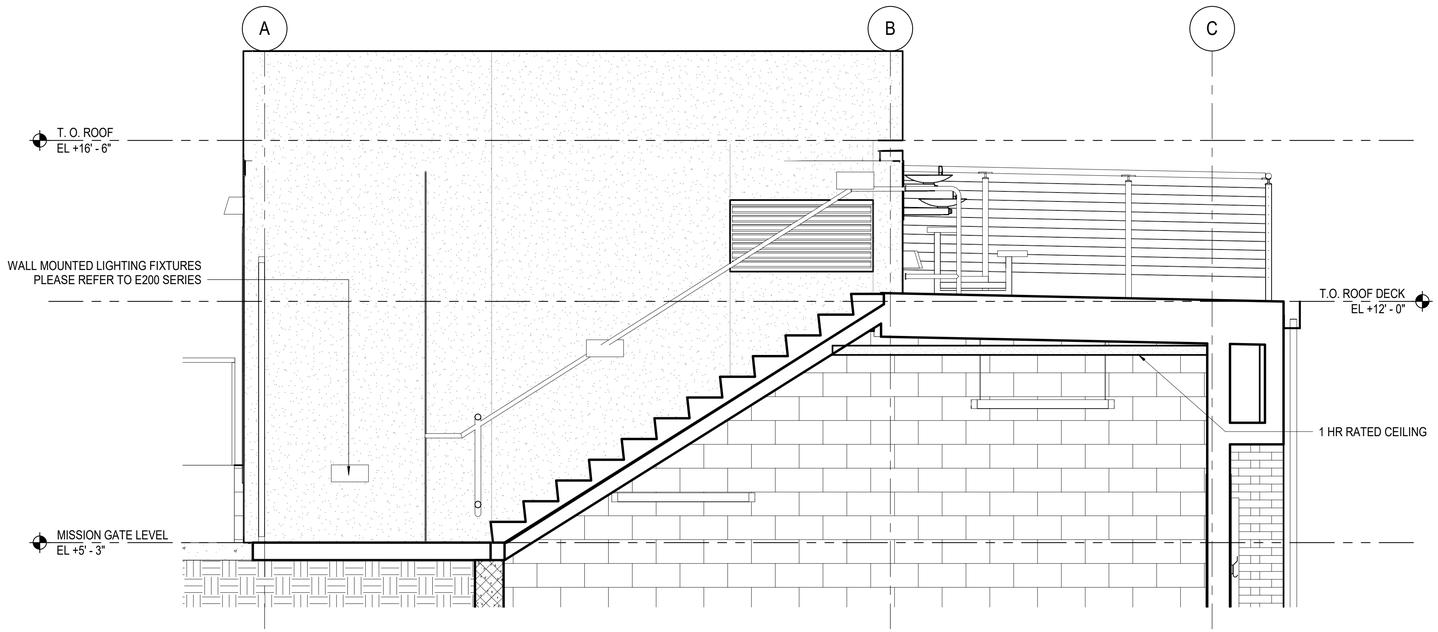



1 / A7.02 STAIR 1 SECTION

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




2 / A7.02 STAIR 2 SECTION

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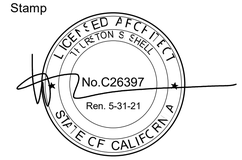


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## STAIR 1 AND 2 SECTIONS

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# A7.02

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## GENERAL

1. FOR MORE DETAILED INFORMATION, SEE PROJECT SPECIFICATIONS. THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THESE NOTES.
2. ALL CONSTRUCTION SHALL CONFORM TO THE CALIFORNIA BUILDING CODE (CBC), TITLE 24, 2016 EDITION.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
4. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT.
6. THE CONTRACTOR MUST SUBMIT IN WRITING ANY REQUESTS FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING REQUESTED.
7. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF LOADS IMPOSED ON STRUCTURE DURING CONSTRUCTION.

## DIMENSIONAL CONTROL

1. DO NOT USE SCALED DIMENSIONS. WHERE DIMENSIONS CANNOT BE ACCURATELY ESTABLISHED FROM DRAWINGS, REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH AFFECTED WORK.
   A. CENTER MEMBERS ON GRID LINES THAT ARE SHOWN ON GRID LINES.
   B. SPACE MEMBERS EQUALLY BETWEEN LOCATED MEMBERS, WHERE MEMBERS ARE SHOWN EQUALLY SPACED.
2. ELEVATIONS ARE NOTED USING THE FOLLOWING CONVENTIONS:
   A. ELEVATIONS DESIGNATED IN DECIMAL FEET (EL +203.58') REFERENCE NGVD DATUM.
   B. ELEVATIONS DESIGNATED IN FEET AND INCHES (EL +23'-0") ARE REFERENCED TO GROUND FLOOR AT EL +0'-0".
   C. FEATURES THAT ARE CLOSELY RELATED TO OTHER SIMILAR ELEMENTS ARE REFERENCED TO THE OFFSET IN ELEVATION TO THE TYPICAL ELEMENT. EXAMPLE: T.O.C. AT DEPRESSED AREAS IS RELATED TO TYP T.O.C. [T.O.C. -2"].
3. DIMENSION POINTS ARE AS FOLLOWS, UNLESS OTHERWISE INDICATED:
   A. TYPICAL, U.O.N.: CENTERLINE.
   B. WALLS: FACE OF CONCRETE, MASONRY, OR STUDS.
   C. STEEL ANGLES AND CHANNELS: FACE
   D. HORIZONTAL FRAMING: TOP OF WOOD, STEEL, OR CONCRETE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL CONTROL FOR THE FOLLOWING STRUCTURAL FEATURES, UNLESS DIMENSIONS ARE DESIGNATED ON THE STRUCTURAL DRAWINGS:
   A. EDGE OF SLAB AT BUILDING PERIMETER, SHAFTS, OPENINGS, AND SKYLIGHTS.
   B. OPENINGS AT CONCRETE AND MASONRY WALLS.
   C. PLAN LOCATION OF CHANGES IN ELEVATION OF TOP OF CONCRETE SLABS, INCLUDING DEPRESSIONS, STEPS, AND TRENCHES.
   D. PLAN LOCATION AND ELEVATION OF SLOPE BREAKS AT RAMPS AND SLOPED SLABS.
   E. LOCATION AND SIZE OF CURBS & PADS.

## COORDINATION OF DOCUMENTS

1. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF NON-BEARING INTERIOR AND EXTERIOR WALL CONSTRUCTION.
2. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATIONS AND SIZES OF THE FOLLOWING ITEMS:
   A. ANCHOR BOLTS, INSERTS AND HANGERS FOR ATTACHMENT OF NONSTRUCTURAL BUILDING COMPONENTS TO THE BUILDING STRUCTURE.
   B. ITEMS EMBEDDED IN STRUCTURAL ELEMENTS, INCLUDING DRAINS, SLEEVES, CONDUITS, AND BOXES.
   C. SMALL OPENINGS AND RECESSES IN STRUCTURAL ELEMENTS FOR NONSTRUCTURAL BUILDING COMPONENTS.
   D. CONCRETE PADS AND CURBS FOR SUPPORT OF EQUIPMENT AND PIPING.
   E. MISCELLANEOUS STEEL FOR SUPPORT OF EQUIPMENT, PIPING AND DUCTWORK.
3. ITEMS THAT ARE NOT SHOWN ON STRUCTURAL DRAWINGS, BUT AFFECT STRUCTURAL ELEMENTS, SHALL BE SUBJECT TO LIMITATIONS OF THE STRUCTURAL DETAILS LISTED BELOW, EXCEPT AS APPROVED BY OWNER'S REPRESENTATIVE.

| ITEM | REFERENCE |
|---|---|
| UNDERGROUND PIPING AT FOOTINGS | XX-SXXX |
| PIPE SLEEVES THROUGH FOOTINGS AND GRADE BEAMS | XX-SXXX |
| CONDUITS BELOW SLAB ON GROUND | XX-SXXX |
| CONDUITS EMBEDDED IN SLAB ON GROUND | XX-SXXX |
| ALLOWABLE SUSPENDED LOADS FROM ROOF DECKS | XX-SXXX |
| HOLES IN SHEAR WALL BLOCKING | 6-S602 |
| SMALL OPENINGS AT PLYWOOD SHEATHED WALLS | XX-SXXX |
| SMALL OPENINGS IN ROOF DECKS | 7-S602 |
| HOLES IN STUDS, PLATES, AND SILLS | 8-S603 |

## CONTRACTOR FURNISHED DESIGN

THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER, LICENSED IN THE STATE OF CALIFORNIA, TO PREPARE A FULLY ENGINEERED DESIGN OF THE ITEMS LISTED BELOW, IN ACCORDANCE WITH THE DESIGN DRAWINGS, SPECIFICATIONS AND THE CURRENT CALIFORNIA BUILDING CODE. DRAWINGS, SPECIFICATIONS, AND CALCULATIONS SHALL BE STAMPED BY THE PROFESSIONAL ENGINEER.

A. TBD
B. TBD
C. TBD

2. DRAWINGS, SPECIFICATIONS AND CALCULATIONS FOR ALL CONTRACTOR FURNISHED DESIGN ITEMS SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT AND ENGINEER-OF-RECORD.
3. THE ARCHITECT AND ENGINEER-OF-RECORD WILL REVIEW ALL CONTRACTOR FURNISHED DESIGN ITEMS FOR STRUCTURAL CRITERIA, FOR LOADS IMPOSED ON THE MAIN BUILDING STRUCTURE AND FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING.
4. WHEN THE CONTRACTOR DESIGNED ITEMS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING, THE ARCHITECT AND ENGINEER-OF-RECORD WILL INDICATE AS SUCH ON THE SUBMITTAL DOCUMENTS WITH THEIR REVIEW STAMPS.
5. THE CONTRACTOR WILL FORWARD THE STAMPED SUBMITTALS TO THE BUILDING OFFICIAL FOR APPROVAL.
6. CONTRACTOR FURNISHED DESIGN ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

## DESIGN CRITERIA

1. APPLICABLE CODE: ALL WORK SHALL CONFORM TO THE CALIFORNIA BUILDING CODE (CBC), TITLE 24, 2016 EDITION AS ADOPTED BY THE CITY OF SAN RAFAEL, CALIFORNIA.

2. GRAVITY DESIGN CRITERIA
   A. LIVE LOADS:
      a. ROOF: 20 PSF (PLUS EQUIPMENT WEIGHT)
   B. DEFLECTION: ROOF MEMBERS WILL DEFLECT DUE TO LIVE LOADS. MEMBERS HAVE BEEN DESIGNED TO LIMIT DEFLECTION UNDER DESIGN LIVE LOADS TO THE VALUES LISTED BELOW.
      1. TYP ROOF MEMBERS: SPAN/240 TYPICAL
         SPAN/180 WHERE DROP CEILING OCCURS

3. WIND DESIGN PARAMETERS:
   1. BASIC WIND SPEED: 110 MPH (RISK CATEGORY II)
   2. EXPOSURE: C

4. SEISMIC DESIGN:
   SITE LOCATION: LATITUDE 37.97N LONGITUDE -122.53W
   Ie = 1.0
   RISK CATEGORY II
   SEISMIC DESIGN CATEGORY D
   SOIL SITE CLASS C

   SPECIAL REINFORCED MASONRY SHEAR WALLS (N-S DIRECTION), R = 5, Ωo = 2.5, Cd =3.5

   LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD
   STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE (E-W DIRECTION), R = 6.5, Ωo = 3, Cd = 4

   $S_{DS}$ = 1.00g
   $S_{D1}$ = 0.52g

   BUILDING PERIODS:

   NORTH/SOUTH DIRECTION T = 0.164 SEC
   EAST/WEST DIRECTION T = 0.164 SEC

   SEISMIC INTERSTORY DRIFT:
   △= 0.020 x HEIGHT

5. FOUNDATION DESIGN CRITERIA:
   A. THE FOUNDATION DESIGN IS BASED ON CRITERIA AND RECOMMENDATIONS PRESENTED IN THE REPORT PREPARED BY MILLER PACIFIC ENGINEERING GROUP TITLED, " Geotechnical Investigation Proposed Aquatics Center", DATED JULY 16, 2018. .
   B. FOUNDATION SYSTEM DESCRIPTION: SHALLOW SPREAD FOOTINGS AND GRADE BEAMS BEARING ON NATIVE SOILS.
   C. FOUNDATION LOAD BEARING VALUES (FOR CBC SEC. 1605.3.1 LOAD COMBINATIONS):

| LOAD CONDITION | RESISTANCE |
|---|---|
| ALLOWABLE DEAD | NOT PROVIDED |
| ALLOWABLE TOTAL LOAD (MAY BE INCREASED x1.33 FOR SEISMIC OR WIND) | 3000 PSF |

   D. FOUNDATION LATERAL RESISTANCE AT FOUNDATIONS AND GRADE BEAMS

| PARAMETER | RESISTANCE |
|---|---|
| PASSIVE RESISTANCE | 300 PSF/FT. OF DEPTH |
| BOTTOM ADHESION | FRICTION COEFF.=0.35 |

   E. RETAINING WALLS
      a. LATERAL EARTH PRESSURES

| LOAD CONDITION | LATERAL EARTH PRESSURE |
|---|---|
| UNRESTRAINED | 40 PCF + 15H (EQ) |
| RESTRAINED | 60 PCF + 15H (EQ) |

   F. DESIGN GROUNDWATER ELEVATION
      a. THE SLABS OF THE STRUCTURE ARE NOT SUBJECT TO GROUNDWATER LOADS.

## CAST-IN-PLACE CONCRETE

1. REINFORCING MATERIALS
   A. BARS, TYP: ASTM A615, GR 60, DEFORMED; OR ASTM A706, U.O.N.
   B. HEADED BARS (#11 AND SMALLER): ASTM A706 BARS, END HEADED IN CONFORMANCE WITH ASTM A970, INCLUDING ANNEX A1 CLASS HA HEAD DIMENSIONS; NET HEAD AREA EQUAL TO 4 TIMES BAR AREA. ROUND HEAD EXCEPT AS OTHERWISE NOTED.
      a. PROVIDE HEADED BARS WHERE DESIGNATED (H#) ON DRAWINGS.
      b. HEADS MAY BE SUBSTITUTED FOR HOOKS WHERE BARS ARE SPACED AT 5 BAR DIAMETERS MINIMUM, SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE.
   C. HEADED BARS (#14 AND #18): ASTM A706 BARS, END HEADED IN CONFORMANCE WITH ASTM A970, INCLUDING ANNEX A1 CLASS HA HEAD DIMENSIONS; NET HEAD AREA EQUAL TO 9 TIMES BAR AREA.
   D. THREAD BARS (TB 75): ASTM A615, GR 75 BARS WITH SPECIALTY DEFORMATIONS THAT PROVIDE A CONTINUOUS THREAD. PROVIDE WHERE DESIGNATED (TB) ON DRAWINGS.
   E. BAR COUPLERS: ACI 318, TYPE 1 OR TYPE 2, EXCEPT TYPE 2 WHERE (TYPE 2) DESIGNATED ON DRAWINGS.
      a. COUPLERS MAY BE SUBSTITUTED FOR LAP SPLICES, SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE.
      b. MAINTAIN COVER AND CLEARANCE REQUIREMENTS AT COUPLERS.
   F. WELDED WIRE FABRIC (WWF): ASTM A185, SMOOTH, PLAIN FINISH.
   G. BAR REINFORCEMENT SHALL NOT BE FIELD BENT AFTER BEING EMBEDDED IN HARDENED CONCRETE.

2. REINFORCING SPLICES:
   A. DOWELS SHALL MATCH THE NUMBER AND SIZE OF MAIN REINFORCING BARS, U.O.N.
   B. PROVIDE CONTACT LAPS AND TIE BARS TOGETHER AT SPLICES, U.O.N.
      a. PROVIDE MECHANICAL SPLICES WHERE DESIGNATED ON DRAWINGS OR AT CONTRACTOR'S OPTION.
   C. MAINTAIN BARS IN SPECIFIED LAYER AT SPLICES, U.O.N.
      a. STAGGER SPLICES WHERE REQUIRED TO MAINTAIN REQUIRED BAR SPACING AT LAP.
      b. OFFSET SPLICES MAY BE USED AT BEAMS, WHERE NECESSARY TO REDUCE CONGESTION, SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE.
   D. USE LAP SPLICE LENGTH DESIGNATED IN TYPICAL DETAIL, EXCEPT WHERE LAP LENGTH IS SPECIFICALLY DESIGNATED ON DRAWING DETAILS.
   E. LAP WWF TWO FULL MESH PANELS AND WIRE TIE. STAGGER LAPS IN ONE DIRECTION TO AVOID EXCESSIVE BUILD AT PANEL CORNERS.

3. CONCRETE MIXES: REFER TO SPECIFICATION 03 30 00 FOR DETAILED REQUIREMENTS FOR CONCRETE MIXES FOR CAST-IN-PLACE CONCRETE. EXCEPT AS OTHERWISE DESIGNATED ON DRAWINGS, USE SPECIFIED MIXES FOR THE FOLLOWING USES.

| USE | MIX ID | MIN. STRENGTH | AGG. SIZE | MAX. SLUMP | OTHER |
|---|---|---|---|---|---|
| FOOTINGS AND GRADE BEAMS | A | 4,000 PSI | SIZE 57 OR SIZE 67 | 6" | 25% FLYASH |
| FOOTINGS AND GRADE BEAMS | A (ALT) | 4,000 PSI | SIZE 57 OR SIZE 67 | 5" | 50% CEMENT & 50% FLYASH OR 40-50% CEMENT, 30-40% SLAB & 15-20% FLASH |
| SLAB ON GROUND, TOPPING SLAB OVER 3" THICK, NWC CURBS AND EQUIPMENT PADS | B | 4,000 PSI | SIZE 67 | 6" | SHRINKAGE CONTROLLED AGGREAGATE |

4. CONSTRUCTION JOINTS:
   A. CONTRACTOR SHALL SUBMIT LAYOUT OF ALL PROPOSED CONSTRUCTION JOINTS PRIOR TO PROCEEDING WITH AFFECTED WORK.
   B. CLEAN AND ROUGHEN HORIZONTAL CONSTRUCTION JOINTS TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN MORTAR MATRIX TO FULL 1/4-INCH AMPLITUDE.
   C. JOINT DETAILS VARY DEPENDING ON THE TYPE AND SIZE OF ELEMENTS BEING JOINED. WHERE CONDITIONS DEVIATE FROM THOSE SHOWN ON THE DRAWINGS, REQUEST CLARIFICATION OF JOINT REQUIREMENTS PRIOR TO PROCEEDING WITH AFFECTED WORK.
   D. CONFORM TO REQUIREMENTS OF ARCHITECTURAL DRAWINGS FOR JOINT LOCATION AND FINISH JOINT PROFILE AT SURFACES THAT ARE EXPOSED TO VIEW IN COMPLETED CONSTRUCTION. PROVIDE RUSTICATION STRIPS AT ALL EXPOSED SURFACES. WHERE FINISH JOINT PROFILE IS NOT SHOWN, REQUEST CLARIFICATION.
   E. REVIEW AND COORDINATE WATERSTOP REQUIREMENTS AT JOINTS IN BELOW GRADE CONSTRUCTION AND AT CONCRETE ELEMENTS THAT ARE EXPOSED TO WEATHER.
      a. PROVIDE AN EVEN CONCRETE SURFACE FOR THE INSTALLATION OF ROPE-TYPE WATERSTOPS.

## DRILLED DOWELS

1. HIT RE500-SD ADHESIVE ANCHORING SYSTEM, HILTI, INC. (ICC ESR)

## CONCRETE MASONRY

1. MASONRY MATERIALS
   A. CONCRETE MASONRY UNITS: ASTM C90, MEDIUM WEIGHT, MINIMUM COMPRESSIVE STRENGTH 1,900 PSI.
   B. GROUT: ASTM C476, MIMIMUM COMPRESSIVE STRENGTH 2,000 PSI.
   C. MORTAR: ASTM C270, TYPE S.
   D. MASONRY STRENGTH: f'm = 1,500 PSI.

2. CONSTRUCT WALLS USING DOUBLE OPEN ENDED BOND BEAM UNITS TYPICAL. GROUT ALL CELLS.

## SHEET LIST



| | |
|---|---|
| S001 | GENERAL NOTES |
| S002 | GENERAL NOTES |
| S003 | GENERAL NOTES |
| S200 | LEVEL1 AND MISSION AVE. PLANS |
| S201 | ROOF DECK AND HIGH ROOF PLANS |
| S301 | TYPICAL CONCRETE DETAILS |
| S302 | TYPICAL CONCRETE DETAILS |
| S303 | TYPICAL CONCRETE DETAILS |
| S304 | TYPICAL CONCRETE DETAILS |
| S305 | CONCRETE DETAILS |
| S306 | TYPICAL RETAINING WALL DETAILS |
| S307 | TYPICAL MASONRY DETAILS |
| S400 | BUILDING CROSS SECTIONS |
| S401 | BUILDING CROSS SECTIONS |
| S402 | ELEVATIONS |
| S601 | TYPICAL WOOD DETAILS |
| S602 | TYPICAL WOOD DETAILS |
| S603 | TYPICAL WOOD DETAILS |
| S604 | WOOD DETAILS |
| S700 | STAIR ELEVATION AND DETAIL |



# MARIN ACADEMY AQUATIC CENTER

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| No. | Revisions | Date |
|---|---|---|

Scale
**12" = 1'-0"**

Drawn by
**Author**

EHDD Job Number

Sheet Title

**GENERAL NOTES**

Sheet Number

**S001**

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## TIMBER

1. MOISTURE CONTENT:
   A. AIR DRY OR KILN DRY NON-PRESSURE TREATED LUMBER. UNLESS OTHERWISE NOTED, MOISTURE CONTENT AT TIME OF SURFACING SHALL BE 15 PERCENT MAXIMUM. MOISTURE CONTENT SHALL BE 15 PERCENT MAXIMUM AT TIME OF DELIVERY TO JOBSITE.
   B. KILN DRY PRESSURE TREATED LUMBER AFTER TREATMENT TO MAXIMUM 19 PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE 19 PERCENT MAXIMUM AT TIME OF DELIVERY TO JOBSITE.
   C. SEE SPECIFICATIONS FOR MOISTURE CONTENT OF ENGINEERED LUMBER.

2. FRAMING LUMBER: PROVIDE DOUGLAS FIR STRUCTURAL LUMBER OF THE GRADES LISTED BELOW FOR THE VARIOUS PURPOSES, EXCEPT AS OTHERWISE DESIGNATED ON THE DRAWINGS:
   A. STUDS, BLOCKING, BACKING AND NAILERS (2 TO 4 INCHES THICK, 4 INCHES WIDE): WCLIB CONSTRUCTION GRADE.
   B. STUDS, BLOCKING, BACKING AND NAILERS (2 TO 4 INCHES THICK, 6 INCHES AND WIDER): WCLIB NO. 1 & BETTER GRADE.
   C. PLATES AND SILLS (2 INCHES THICK): WCLIB NO. 1 & BETTER GRADE.
   D. BUILT-UP HEADERS, JOISTS, AND BLOCKING (2 INCHES THICK, 6 INCHES AND WIDER): WCLIB NO. 1 & BETTER GRADE, S-DRY.
   E. HEADERS, FRAMING BEAMS, LEDGERS AND BLOCKING: (NOMINAL 4 INCHES AND THICKER, 6 INCHES AND WIDER): ANSI/AITC A190.1 GLUE-LAMINATED LUMBER, STRESS CLASS SC 24F-1.8E, FRAMING APPEARANCE GRADE. NOMINAL 6 INCH MATERIAL MAY BE FURNISHED IN 5-1/4 INCH OR 5-1/2 INCH WIDTH.
   F. POSTS (6 INCHES THICK, 6 INCHES AND WIDER): WCLIB NO. 1 GRADE, 25 MAXIMUM PERCENT MOISTURE CONTENT.
   G. PRESERVATIVE TREATED LUMBER: WCLIB NO. 1 & BETTER GRADE, PRESSURE PRESERVATIVE TREATED AS SPECIFIED HEREIN.

3. ENGINEERED LUMBER: ALL GLU-LAMS SHALL BE PREMIUM APPEARANCE CLASS WHERE EXPOSED, FRAMING APPEARANCE CLASS ELSEWHERE.
   A. GLU-LAM BEAMS & POSTS:
      a. DEPTH UP TO AND INCLUDING 12": COMB. 24F-V4 DF/DF, ANSI A190.1.
      b. DEEPER THAN 12": COMB. 24F-V8 DF/DF, ANSI A190.1

4. PLYWOOD IS 15/32 APA STRUCTURAL I RATED SHEATHING, EXPOSURE 1, 5-PLY MINIMUM, U.O.N.

5. CROSS LAMINATED TIMBER DECKING: SPRUCE-PINE-FIR NO.2 CLT DECK BY STRUCTURLAM OR EQUAL.

6. PRESERVATIVE TREATED LUMBER: PRESSURE TREATMENT OF WOOD PRODUCTS SHALL CONFORM TO THE REQUIREMENTS FOR THE SPECIFIED USE CATEGORY IN ACCORDANCE WITH AWPA U1. THE FOLLOWING ITEMS SHALL BE PRESERVATIVE TREATED
   A. WOOD SILLS IN CONTACT WITH CONCRETE FROUNDATIONS OR FLOOR SLABS ON GROUND: USE CATEGORY UC2.
   B. WOOD SILLS OR LEDGERS IN CONTACT WITH CONCRETE MASONRY: USE CATEGORY UC2.

7. NAILS: ALL NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE SHOWN. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN 1/2 OF THEIR LENGTH NOR CLOSER TO THE EDGE OF THE MEMBER THAN 1/2 OF THEIR LENGTH, AND SHALL BE PREDRILLED WHERE WOOD TENDS TO SPLIT. THE PENETRATION OF NAILS INTO THE PIECE RECEIVING THE POINT SHALL NOT BE LESS THAN 1/2 THE NAIL LENGTH. GALVANIZED WHERE EXPOSED TO WEATHER.

8. STAPLES: ASTM F1667.

9. METAL FRAMING ACCESSORIES:
   A. TYPICAL: MANUFACTURED BY SIMPSON STRONGTIE COMPANY OR APPROVED EQUAL, U.O.N. INSTALLATION SHALL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
   B. CONCEALED FRAMING CONNECTORS: RICON S VS CONNECTORS AS MANUFACTURED BY MYTICON TIMBER CONNECTORS.

## TIMBER FRAMING NOTES

1. WOOD AND GLUE LAMINTAED FRAMING SHALL BE ERECTED TRUE TO LINE, AND/OR SQUARE, WITH CAMBER OR CROWN SIDE UP. PROVIDE FULL CONTACT BETWEEN FRAMING MEMBERS AND SUPPORTS AT BEARING SURFACES. MEMBERS SHALL BE CUT TRUE TO LENGTH WITH MAXIMUM 1/8" GAP BETWEEN MEMBER END AND ABUTTING FRAMING. COMPLY WITH THE 2012 EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION FOR NAIL, BOLT, OR OTHER FASTENER EDGE AND END DISTANCES AND SPACINGS NOT NOTED OR SHOWN.

2. ALL WOOD THAT WILL BE EXPOSED TO VIEW SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS FROM DAMAGE BY THE ENVIRONMENT AND CONSTRUCTION.

## STRUCTURAL OBSERVATION

1. STRUCTURAL ENGINEER WILL MAKE PERIODIC VISITS TO THE SITE TO GENERALLY REVIEW THE PROGRESS OF THE WORK, BUT THIS REVIEW SHALL NOT BE CONSTRUED AS SPECIAL INSPECTION IN ACCORDANCE WITH CBC SECTION 1704.

2. STRUCTURAL ENGINEER WILL MAKE VISITS TO THE SITE AT THE STAGES OF CONSTRUCTION LISTED BELOW TO MAKE STRUCTURAL OBSERVATIONS OF SEISMIC RESISTANCE IN ACCORDANCE WITH CBC SECTION 1704.5.1.
   A. TO OBSERVE PLACEMENT OF FOUNDATION REINFORCEMENT, PRIOR TO PLACMENT OF CONCRETE (1 VISIT).
   B. TO OBSERVE ERECTION OF TIMBER FRAME (2 VISITS)

## STEEL

1. W-SHAPES: ASTM A992.

2. ANGLES, CHANNELS, BENT PLATES, SOLID RODS AND FLAT BARS: ASTM A36, U.O.N.

3. PLATE:
   A. GRADE 50, TYPICAL U.O.N.-ASTM A572, ASTM A588 OR ASTM A529.
   B. GRADE 36 TYPICAL AT BOLTED SHEAR TABS OR AS NOTED ON THE DRAWINGS-ASTM A36.

4. ROUND, SQUARE, AND RECTANGULAR TUBES: ASTM A500, GRADE B.

5. PIPES: ASTM A53, TYPE E, GRADE B, TYP. U.O.N. ASTM A53, TYPE S, GRADE B FOR AESS SHAPES.

6. HIGH STRENGTH BOLTS: ASTM A325, U.O.N. BOLTS ARE INSTALLED AS PRETENSIONED, U.O.N. IF CONTRACTOR CHOOSES TO USE TWIST-OFF TENSION-CONTROL TYPE BOLTS, ASTM F1852 MAY BE SUBSTITUTED FOR ASTM A325. TWIST-OFF BOLTS ARE NOT PERMITTED AT AESS. ASTM A490 WHERE NOTED.

7. MACHINE BOLTS AND THRU-BOLTS: ASTM A307.

8. STANDARD ANCHOR BOLTS (AT ALL NON FRAME COLUMNS): ASTM F1554, GRADE 36, U.O.N.

9. HIGH STRENGTH ANCHOR BOLTS (AT ALL FRAME COLUMNS): ASTM F1554, GRADE 1O5.

10. WELDING :
    A. ELECTRODES: E70XX
    B. DEMAND CRITICAL WELDS: WELDS USED FOR CONNECTIONS IN THE SEISMIC LOAD RESISTING SYSTEM, INCLUDING COMPLETE PENETRATION, PARTIAL PENETRATION AND FILLET WELDS. SEE SPECIFICATIONS FOR REQUIREMENTS. EXCEPT AS SPECIFICALLY NOTED ON DRAWINGS, ALL WELDS AT THE FOLLOWING LOCATIONS SHALL BE CONSIDERED DEMAND CRITICAL WELDS:
       a. MOMENT FRAME COLUMN SPLICES AND BASE PLATE CONNECTIONS.
       b. MOMENT FRAME BEAM -TO- COLUMN CONNECTIONS.
       c. BRACE CONNECTIONS, INCLUDING GUSSETS.
       d. COLLECTOR BEAM END CONNECTIONS.
       e. CONNECTIONS AS DESIGNATED ON DRAWINGS.

11. EXPANSION OR WEDGE ANCHORS: HILTI KWIK BOLT TZ EXPANSION ANCHOR, OR APPROVED EQUAL

12. U.O.N., STEEL ELEMENTS AT EXTERIOR LOCATIONS ARE HOT DIPPED GALVANIZED. AESS MEMBERS ARE NOT HOT-DIPPED GALVANIZED; SEE SPECIFICATIONS FOR PRIMER REQUIREMENTS. PROVIDE GALVANIZING RELIEF HOLES AS REQUIRED, AND FILL WITH FREEZE PLUGS.

13. AT MEMBERS NOTED AESS, CONFORM TO REQUIREMENTS FOR ARCHITECTURAL EXPOSED STRUCTURAL STEEL.

## HAZARDOUS MATERIALS

1. RUTHERFORD + CHEKENE ASSUMES NO RESPONSIBILITY FOR THE MANAGEMENT OF HAZARDOUS MATERIALS THAT MAY BE ON THE SITE.

2. RUTHERFORD + CHEKENE HAS NOT PERFORMED INVESTIGATIONS TO DETERMINE THE PRESENCE OF HAZARDOUS MATERIALS. THE OWNER WILL PROVIDE THE RESULTS OF SUCH INVESTIGATIONS IF THEY HAVE BEEN PERFORMED.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PERSONNEL WITHIN THE WORK AREA ARE PROTECTED FROM EXPOSURE TO HAZARDOUS MATERIALS. IF HAZARDOUS MATERIALS ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND CEASE WORK UNTIL CONDITIONS CAN BE MAINTAINED IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS.

## STRUCTURAL TESTING AND INSPECTION

1. THE FOLLOWING CHECKLISTS ARE TO ASSIST THE CONTRACTOR IN SCHEDULING OF TESTING AND INSPECTION RELATED TO STRUCTURAL FEATURES. THE WORK OF OTHER DISCIPLINES MAY REQUIRE TESTING AND INSPECTION THAT IS ADDITIONAL TO THE ITEMS LISTED BELOW.

2. REFER TO APPLICABLE PROVISIONS OF DIVISION 1 OF THE PROJECT SPECIFICATIONS AND THE GENERAL CONDITIONS OF THE CONTRACT FOR OWNER'S REPRESENTATIVE, OWNER'S TESTING LABORATORY, GEOTECHNICAL ENGINEER AND CONTRACTOR'S RESPONSIBILITIES REGARDING TESTING AND INSPECTION.

3. REFER TO PROJECT SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS FOR TESTS AND INSPECTIONS. THE PROJECT SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THESE CHECKLISTS.

4. SPECIAL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND MUST BE ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. INSPECTORS SHALL THOROUGHLY REVIEW THE APPLICABLE PORTIONS OF THE DOCUMENTS. INSPECTORS SHALL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY CBC SECTION 1704.

| SPECIAL INSPECTION CHECKLIST | | |
|---|---|---|
| ITEM | SPECIFICATION SECTION | NOTES |
| BUILDING PAD PREPARATION AND FOOTING EXCAVATION | 31 23 00 | GEOTECHNICAL ENGINEER |
| PLACEMENT OF REINFORCEMENT, ANCHOR BOLTS, AND EMBEDS | 03 10 00, 03 20 00<br>03 30 00, 05 12 00 | |
| CONCRETE PLACEMENT | 03 30 00 | CONTINUOUS |
| EXPANSION ANCHOR INSTALLATION | VARIOUS | PER ICC REPORT |
| GROUTED DOWELS | 03 61 00 | PER ICC REPORT |
| MASONRY CONSTRUCTION | 04 22 15 | LEVEL B |
| STRUCTURAL STEEL SHOP FABRICATION | 05 12 00 | |
| STRUCTURAL STEEL WELDING | 05 12 00 | CONTINUOUS |
| STRUCTURAL WELDING, SINGLE PASS | 05 12 00 | PERIODIC |

5. MATERIAL TESTING: THE ITEMS INDICATED BELOW REQUIRE SAMPLING AND/ OR TESTING IN ACCORDANCE WITH PROVISIONS OF THE CBC AND REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
   A. ADDITIONAL SAMPLING AND TESTING WILL BE REQUIRED WHERE MATERIALS CANNOT BE POSITIVELY TRACED TO MILL CERTIFICATES.

| MATERIAL TESTING CHECKLIST | | |
|---|---|---|
| ITEM | SPECIFICATION SECTION | NOTES |
| FILL MATERIAL COMPACTION | | GEOTECHNICAL ENGINEER |
| CONCRETE | 03 30 00 | SLUMP, STRENGTH, TEMP., AIR |
| DRILLED DOWELS IN CONCRETE | 03 61 00 | PULL TEST |
| EXPANSION ANCHORS | VARIOUS | TORQUE OR PULL TEST |
| GROUT, COMPRESSIVE STRENGTH | 03 30 00<br>04 22 15 | |
| STRUCTURAL WELDING | 05 12 00 | MT |
| PLYWOOD DIAPHRAGM NAILING | 06 10 00 | PERIODIC |
| PLYWOOD SHEAR WALL NAILING, FASTENER AND HOLDOWNS | 06 10 00 | PERIODIC |
| WALL TIE ANCHOR ASSEMBLIES | 03 61 00<br>06 10 00 | PERIODIC |

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Scale
**12" = 1'-0"**

Drawn by
**Author**

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Sheet Title

**GENERAL NOTES**

Sheet Number

**S002**

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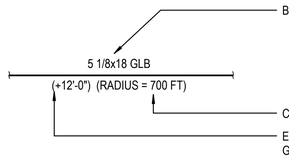
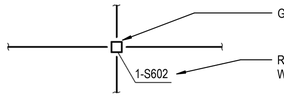
## LEGEND:




BEAM OR GIRDER SIZE

CAMBER RADIUS

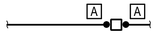
ELEVATION RELATIVE TO GROUND FLOOR



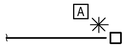

GLULAM COLUMN.

REFERS TO SPECIFIC DETAIL WHEN NOTED ON PLAN.

GLULAM SECTION




DRAG BEAM CONNECTION, SEE

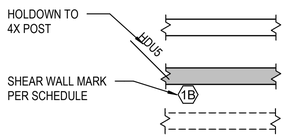



BEAM CONNECTION THAT VARIES FROM TYPICAL SCHEDULE, SEE



CONCRETE

STEP IN STRUCTURAL FINISH ELEVATION




CONCRETE CURB IN PLAN, SEE XXX FOR TYPICAL DETAILS

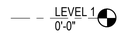
PLYWOOD SHEAR WALL. SEE S601.

PLYWOOD SHEAR WALL BELOW.

STUD WALL S.A.D. & SEE S601.

STUD WALL BELOW

EXPANDED POLYSTYRENE IN SECTION



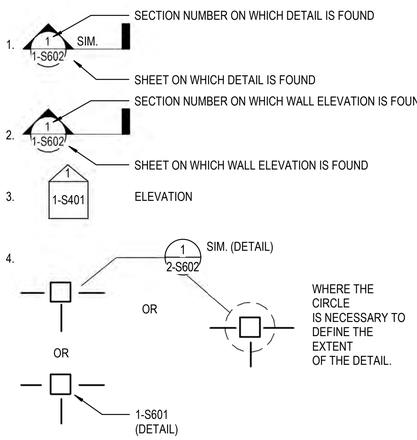

FINISH ELEVATION DESIGNATION OF TOP OF STRUCTURAL CONCRETE OR DECK. SEE PLANS FOR ELEVATION ASSOCIATED WITH DESIGNATION, TYPICAL, U.O.N.




GRIDLINE

## DRAWING SYMBOLS:

A. THE SYMBOLS ON PLANS TO INDICATE SECTIONS, ELEVATIONS, AND DETAILS ARE AS FOLLOWS:




B. SEE LEGEND ON PLAN SHEETS FOR ADDITIONAL SYMBOLS.

## DETAIL NUMBERING:

THE NUMBERING SYSTEM FOR SECTIONS, ELEVATIONS AND DETAILS ON THESE DRAWINGS TYPICALLY IS AS SHOWN ON THE FOLLOWING DIAGRAM:

| | | | | |
|---|---|---|---|---|
| 20 | 16 | 12 | 8 | 4 |
| 19 | 15 | 11 | 7 | 3 |
| 18 | 14 | 10 | 6 | 2 |
| 17 | 13 | 9 | 5 | 1 |

WHERE MORE THAN ONE BLOCK IS USED FOR A SINGLE DETAIL, THE NUMBER OF THE LOWER RIGHT CORNER IS USED; THUS NUMBERS ARE ALWAYS IN THE SAME LOCATION ON THE SHEET.

## ABBREVIATIONS (MAY BE USED WITH OR WITHOUT PERIOD)

| | |
|---|---|
| # | POUND OR NUMBER |
| & | AND |
| @ | AT |
| Ø | DIAMETER OR ROUND |
| A.B. | ANCHOR BOLT (ROD) |
| ABV | ABOVE |
| ACI | AMERICAN CONCRETE INSTIUTE |
| ADD'L | ADDITIONAL |
| ADJ | ADJACENT |
| AESS | ARCHITECTURALLY EXPOSED STRUCTURAL STEEL |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| AISI | AMERICAN IRON AND STEEL INSTITUTE |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL |
| ASCE | AMERICAN SOCITY OF CIVIL ENGINEERS |
| ASTM | ASTM INTERNATIONAL |
| AWS | AMERICAN WELDING SOCIETY |
| (B) | BOTTOM |
| B.O. | BLOCK OUT |
| B.O.F. | BOTTOM OF FOOTING |
| BF | BRACED FRAME |
| BLDG | BUILDING |
| BLKG | BLOCKING |
| BLW | BELOW |
| BM | BEAM |
| BOT | BOTTOM |
| BRB | BUCKLING-RESTRAINED BRACE |
| BRBF | BUCKLING-RESTRAINED BRACED FRAME |
| BRDG | BRIDGING |
| BTWN | BETWEEN |
| B.U. | BACK-UP |
| C | CAMBER |
| CALC | CALCULATION |
| CANT | CANTILEVER |
| CBC | CALIFORNIA BUILDING CODE |
| C-C | CENTER TO CENTER |
| C.E. | CIVIL ENGINEER |
| CEM | CEMENT |
| C.I.P. | CAST-IN-PLACE |
| C.J. | CONSTRUCTION JOINT |
| CL | CENTERLINE |
| CLG | CEILING |
| CLR | CLEAR |
| CLSM | CONTROLLED LOW STRENGTH FILL |
| CMU | CONCRETE MASONRY UNIT (BLOCK) |
| COL | COLUMN |
| CONC | CONCRETE |
| COND | CONDITION |
| CONN | CONNECTION |
| CONST | CONSTRUCTION |
| CONT | CONTINUOUS OR CONTINUITY (PL) |
| CONTR | CONTRACTOR |
| CP | COMPLETE PENETRATION (WELD) |
| CTR | CENTER |
| DBA | DEFORMED BAR ANCHOR |
| DBL | DOUBLE |
| DCW | DEMAND CRITICAL WELD |
| DEFL | DEFLECTION |
| DEG | DEGREES |
| DEPR | DEPRESSION |
| DET | DETAIL |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIM | DIMENSION |
| DL | DEAD LOAD |
| DN | DOWN |
| D.O. | DITTO (REPEAT) |
| DWG | DRAWING |
| DWL | DOWEL |
| E | EAST |
| (E) | EXISTING |
| EA | EACH |
| (EC) | EPOXY COATED |
| E.F. | EACH FACE |
| E.J. | EXPANSION JOINT |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| ELEV | ELEVATION |
| EMBED | EMBEDMENT |
| ENGR | ENGINEER OR ENINEERED |
| E.O.D. | EDGE OF DECK |
| E.P.S. | EXPANDED POLYSTYRENE |
| EQ | EQUAL |
| EQPT | EQUIPMENT |
| E.S. | EACH SIDE |
| ESR | EVALUATION SERVICE REPORT (ICC OR IAPMO) |
| E-W | EAST-TO-WEST (DIRECTION) |
| E.W. | EACH WAY |
| EXP | EXPANSION (ANCHOR) |
| EXT | EXTERIOR |
| F.D.P.P. | FULL DEPTH PARTIAL PENETRATION |
| FDN | FOUNDATION |
| F.F. | FAR FACE |
| FIN | FINISH |
| FLG | FLANGE |
| FLR | FLOOR |
| F.O. | FACE OF |
| F.O.C. | FACE OF CONCRETE |
| F.O.S. | FACE OF STUD |
| F.O.W. | FACE OF WALL |
| FPRF | FIREPROOF |
| FRM | FRAME |
| F.S. | FAR SIDE |
| FT | FEET |
| FTG | FOOTING |
| FUT | FUTURE |
| GA | GAUGE |
| GALV | GALVANIZED |
| G.B. | GRADE BEAM |
| GEO | GEOTECHNICAL |
| GLB | GLUED LAMINATED BEAM (WOOD) |
| GR | GRADE |
| (H) | HORIZONTAL |
| H.B. | HOLLO-BOLT (OR EQUAL) |
| HD | HEAD OR HEADED BAR |
| HDR | HEADER |
| HGR | HANGER |
| HK | HOOK |
| HORIZ | HORIZONTAL |
| H.P. | HIGH POINT |
| H.S.B. | HIGH STRENGTH BOLT |
| HSS | HOLLOW STRUCTURAL SECTION |
| HT | HEIGHT |
| I | MOMENT OF INERTIA (IN^4) |
| ICC | INTERNATIONAL CODE COUNCIL |
| I.D. | INSIDE DIAMETER |
| ID | IDENTIFICATION OR MARK |
| I.F. | INSIDE FACE |
| I.J. | ISOLATION JOINT |
| IN. | INCHES |
| INFO | INFORMATION |
| INSUL | INSULATION |
| INT | INTERIOR |
| JT | JOINT |
| K | KIPS (1000 LBS) |
| "K" | AISC K DIMENSION (DETAILING) |
| "K1" | AISC K1 DIMENSION (DETAILING) |
| KSF | KIPS PER SQUARE FOOT |
| KSI | KIPS PER SQUARE INCH |
| L | ANGLE |
| LB(S) | POUND(S) |
| LL | LIVE LOAD |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LONG | LONGITUDINAL |
| L.P. | LOW POINT |
| LSL | LONG SLOTTED HOLE |
| LTWT | LIGHTWEIGHT |
| LW | LIGHTWEIGHT |
| LWC | LIGHTWEIGHT STRUCTURAL CONCRETE |
| MAX | MAXIMUM |
| M.B. | MACHINE BOLT |
| MECH | MECHANICAL |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MTL | METAL |
| (N) | NEW |
| N | NORTH |
| NAVD | NORTH AMERICAN VERTICAL DATUM |
| N.F. | NEAR FACE |
| NGVD | NATIONAL GEODETIC VERTICAL DATUM |
| N.I.C. | NOT IN CONTRACT |
| NO. | NUMBER |
| NOM | NOMINAL |
| N-S | NORTH-TO-SOUTH (DIRECTION) |
| N.S. | NEAR SIDE |
| N.T.S. | NOT TO SCALE |
| NWC | NORMAL WEIGHT CONCRETE |
| O.C. | ON CENTER |
| O.D. | OUTSIDE DIAMETER |
| O.F. | OUTSIDE FACE |
| O.H. | OPPOSITE HAND |
| OPNG | OPENING |
| OPP | OPPOSITE |
| OVS | OVERSIZED HOLE |
| P/C | PRECAST CONCRETE |
| PDF | POWDER DRIVEN FASTENER |
| PERP | PERPENDICULAR (AT 90 DEGREES) |
| PH | PENTHOUSE |
| PIL | PILASTER |
| PL | PLATE |
| PLWD | PLYWOOD (OR OSB) |
| PP | PARTIAL PENETRATION |
| P.Q.R. | PROCEDURE QUALIFICATION RECORD |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | POINT |
| P/T | PRESTRESSED OR POST-TENSIONED |
| PTD | PRIME PAINTED |
| PTN | PARTITION |
| R | RADIUS |
| RAD | RADIUS |
| R/C | REINFORCED CONCRETE |
| R.D. | ROOF DRAIN |
| REF | REFERENCE |
| REINF | REINFORCING |
| REQ'D | REQUIRED |
| REV | REVISION OR REVISED |
| R.O. | ROUGH OPENING |
| S | SOUTH |
| S.A.D. | SEE ARCH DRAWINGS |
| S.C. | SLIP CRITICAL |
| S.C.D. | SEE CIVIL DRAWINGS |
| SCHED | SCHEDULE |
| SDC | SEISMIC DESIGN CATEGORY |
| SDI | STEEL DECK INSTIUTE |
| SECT | SECTION |
| S.E.D. | SEE ELECTRICAL DRAWINGS |
| SF | SQUARE FEET |
| SFRS | SEISMIC FORCE RESISTING SYSTEM |
| SHT | SHEET |
| SHTG | SHEATHING |
| SIM | SIMILAR |
| S.J. | SAWCUT JOINT |
| S.L.D. | SEE LANDSCAPE DRAWINGS |
| SLRS | SEISMIC LOAD RESISTING SYSTEM |
| S.M.D. | SEE MECH. DRAWINGS |
| SMF | STEEL MOMENT FRAME |
| SMS | SHEET METAL SCREW |
| S.O.G. | SLAB ON GRADE |
| S.P.D. | SEE PLUMBING DRAWINGS |
| SPEC | SPECIFICATION |
| SQ | SQUARE |
| S.S. | STAINLESS STEEL |
| SSL | SHORT SLOTTED HOLE |
| STD | STANDARD |
| STIFF | STIFFENER (PL) |
| STIRR | STIRRUP |
| STL | STEEL |
| STRUCT | STRUCTURAL |
| SYM | SYMMETRIC (ABOUT) |
| (T) | TOP |
| T.B. | TIE BEAM |
| THK | THICK |
| THRU | THROUGH |
| TJI | PREFABRICATED I-JOIST (WOOD) |
| T.O.C. | TOP OF CONCRETE |
| T.O.F. | TOP OF FOOTING |
| T.O.S. | TOP OF STEEL |
| T.O.W. | TOP OF WALL |
| TRANS | TRANSVERSE |
| T&B | TOP AND BOTTOM |
| TSW | TOP SEAM WELD |
| TYP | TYPICAL |
| U.O.N. | UNLESS OTHERWISE NOTED |
| U.T. | ULTRASONIC TESTING |
| ULT | ULTIMATE |
| (V) | VERTICAL |
| VERT | VERTICAL |
| V.I.F. | VERIFY IN FIELD |
| W | WEST |
| W.A. | WEDGE ANCHOR |
| W/ | WITH |
| WF | WIDE FLANGE BEAM (W-SHAPE) |
| WK.PT. | WORK POINT |
| W/O | WITHOUT |
| W.P. | WATERPROOFING |
| W.P.S. | WELD PROCEDURE SPECIFICATION |
| WT | WEIGHT |
| WWF | WELDED WIRE FABRIC |
| XS | EXTRA STRONG |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Scale
**12" = 1'-0"**

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**GENERAL NOTES**

Sheet Number

**S003**

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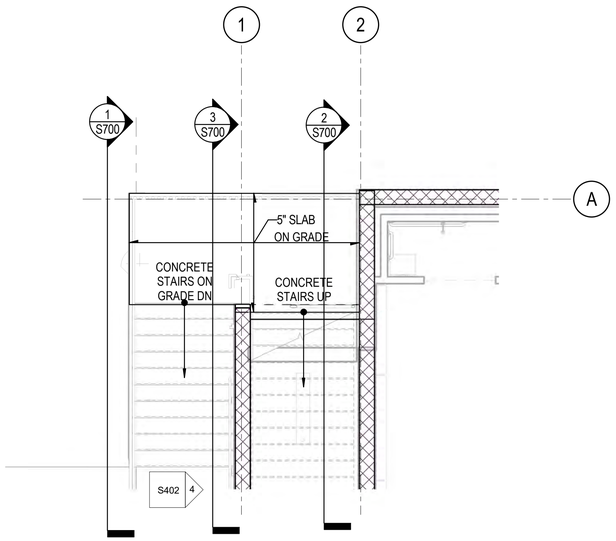
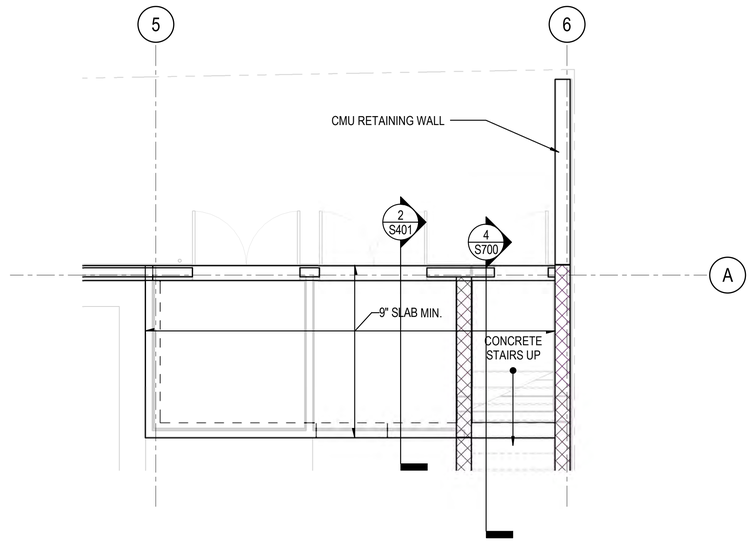



MISSION GATE LEVEL

1/4" = 1'-0" 2

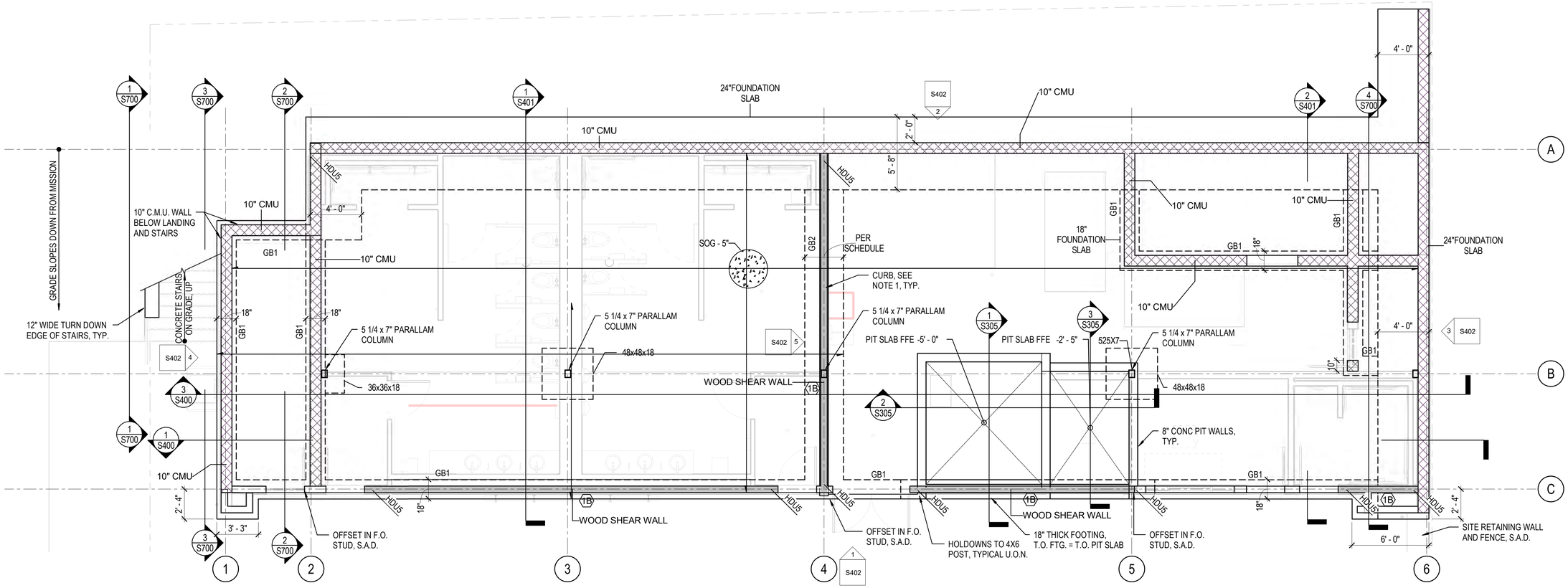
NOTES:

1. S.A.D. FOR ELEVATION OF TOP OF SLAB, SLAB DEPRESSIONS, SLAB SLOPE, CURBS AND HOUSEKEEPING PADS.
2. TEMPORARY SHORING OF SOIL AND STRUCTURE @ ADJACENT PROPERTIES BY OTHERS.




MISSION AVE LEVEL

1/4" = 1'-0" 3




LEVEL 1

1/4" = 1'-0" 1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## LEVEL1 AND MISSION AVE. PLANS

Sheet Number

# S200

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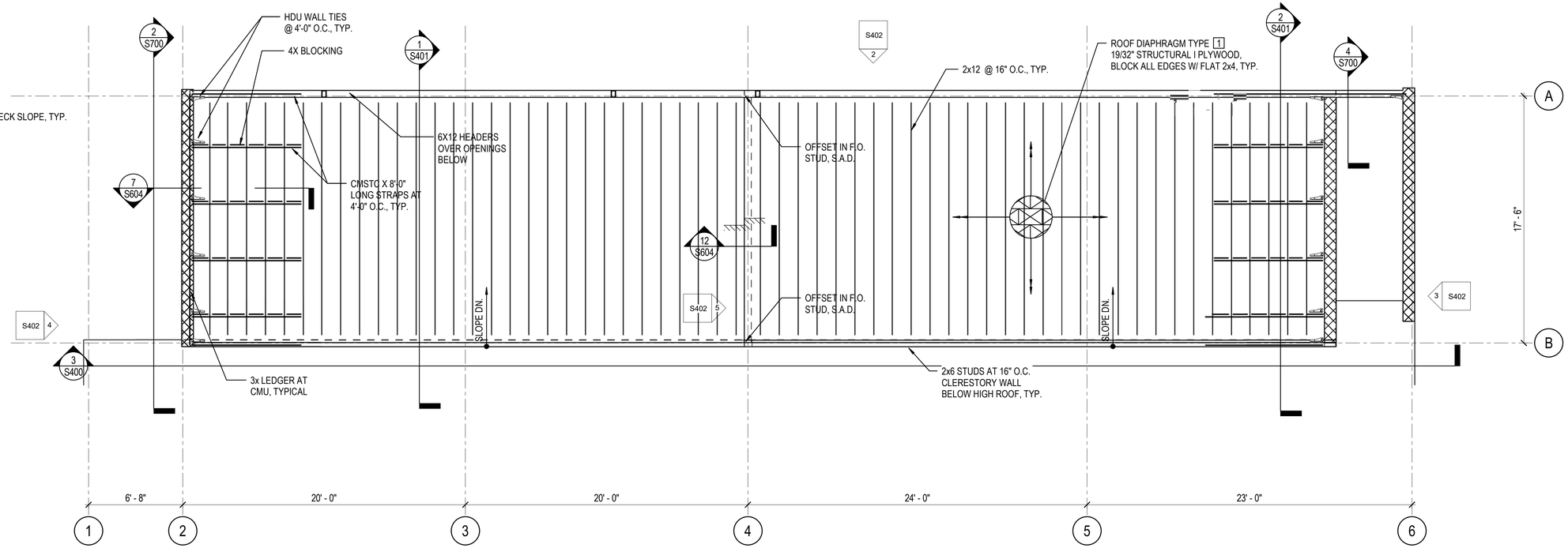
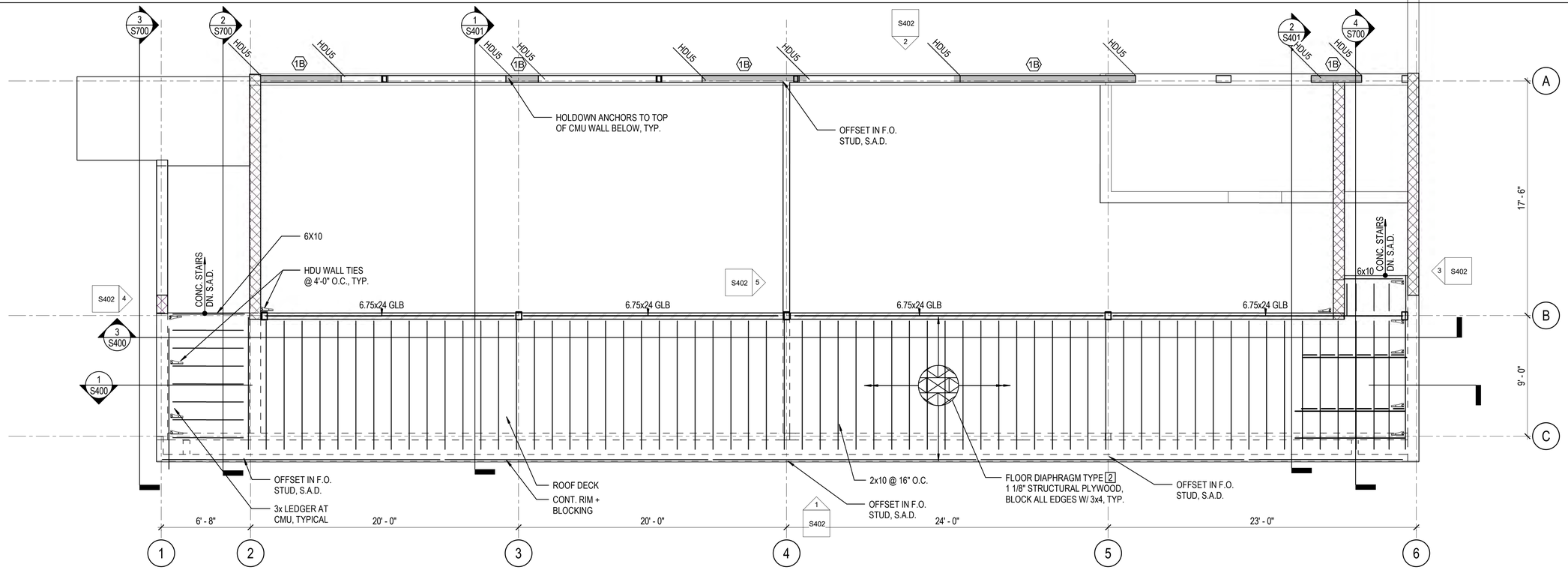
NOTES:

1. S.A.D. FOR ROOF AND ROOF DECK SLOPE, TYP.




## HIGH ROOF PLAN

1/4" = 1'-0" 2




## ROOF DECK

1/4" = 1'-0" 1

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|---|---|---|

Scale
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# ROOF DECK AND HIGH ROOF PLANS

Sheet Number

# S201

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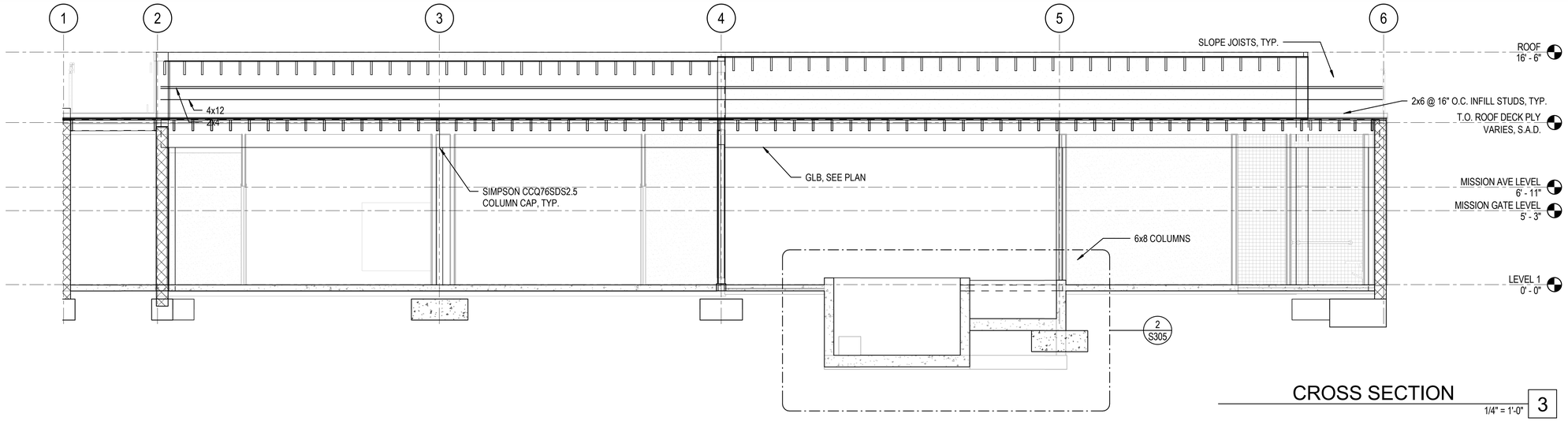
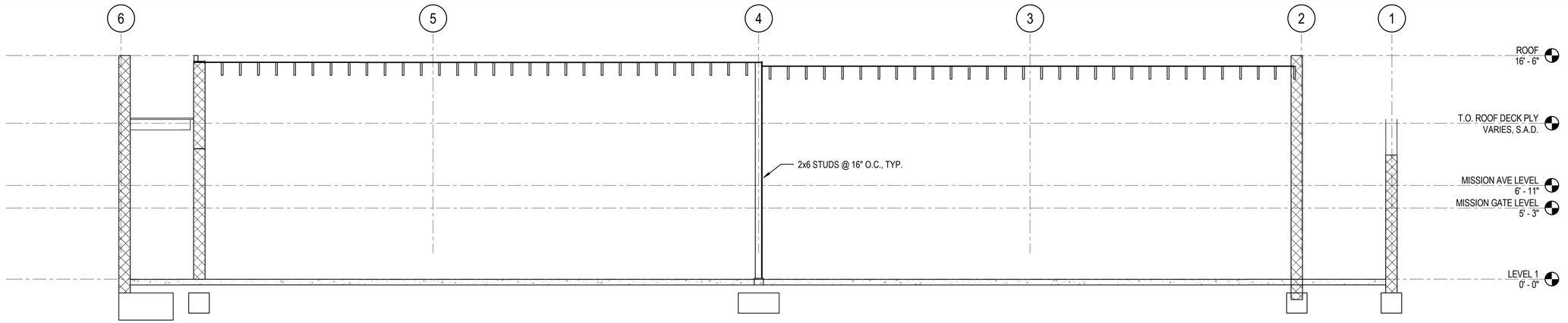


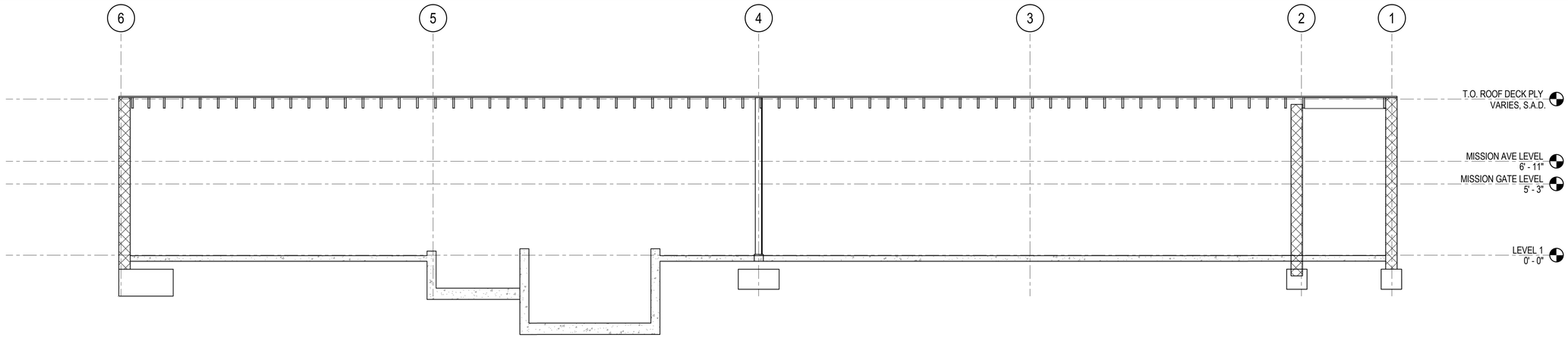

CROSS SECTION

1/4" = 1'-0" 3




CROSS SECTION

1/4" = 1'-0" 2




CROSS SECTION

1/4" = 1'-0" 1

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## BUILDING CROSS SECTIONS

Sheet Number

# S400

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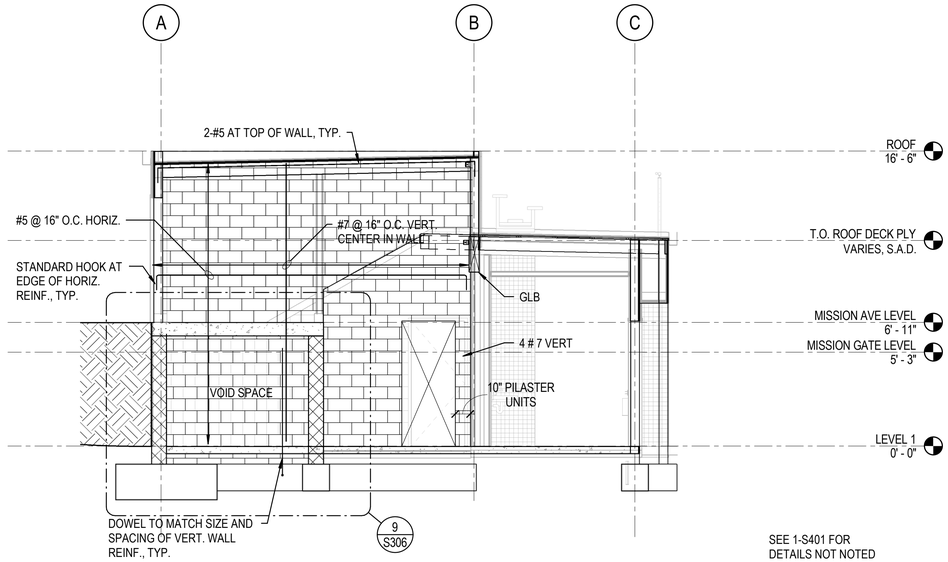
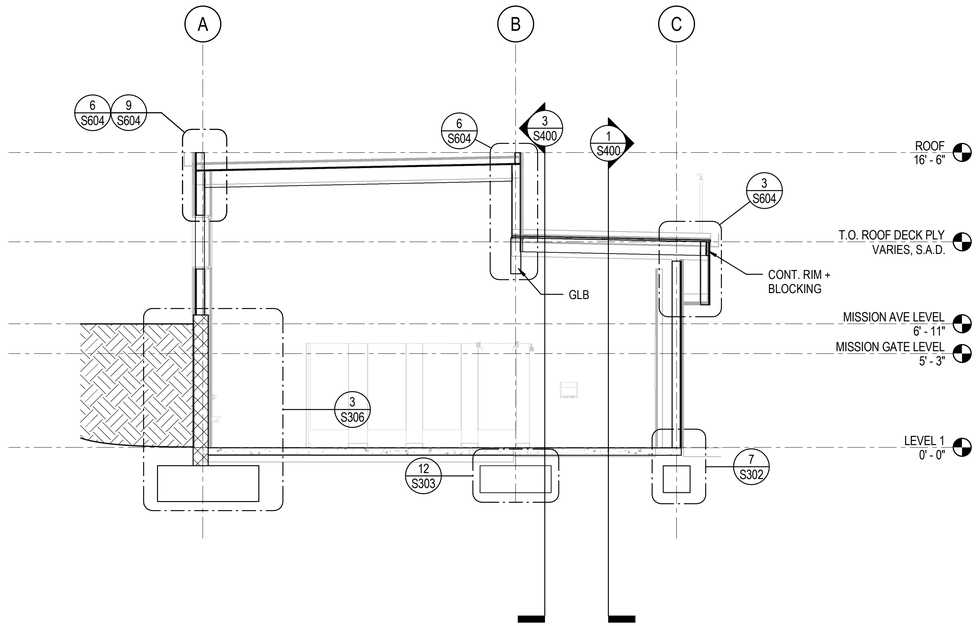



CROSS SECTION 2

1/4" = 1'-0"




CROSS SECTION 1

1/4" = 1'-0"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| 100% SCHEMATIC DESIGN | 09.21.2018 |
| 50% CONSTRUCTION DOCUMENTS | 01.18.2019 |

| No. | Revisions | Date |
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Scale
**1/4" = 1'-0"**

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**Author**

EHDD Job Number

Sheet Title

## BUILDING CROSS SECTIONS

Sheet Number

# S401

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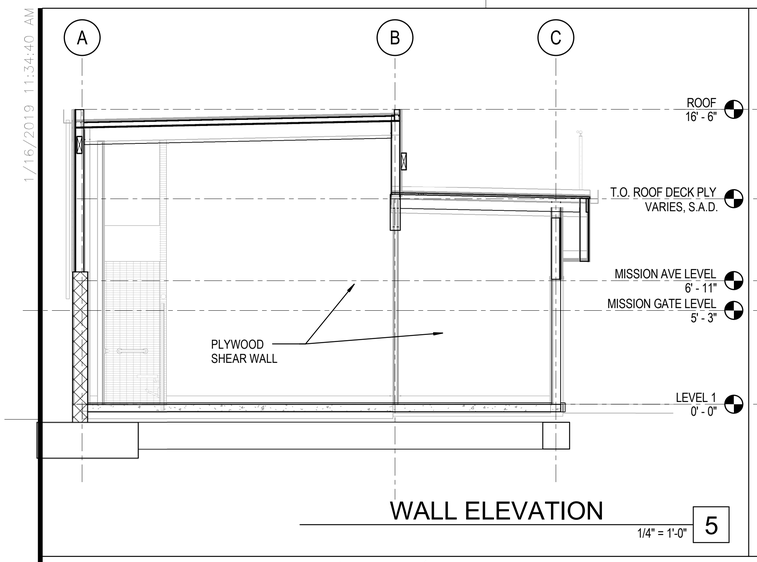


WALL ELEVATION

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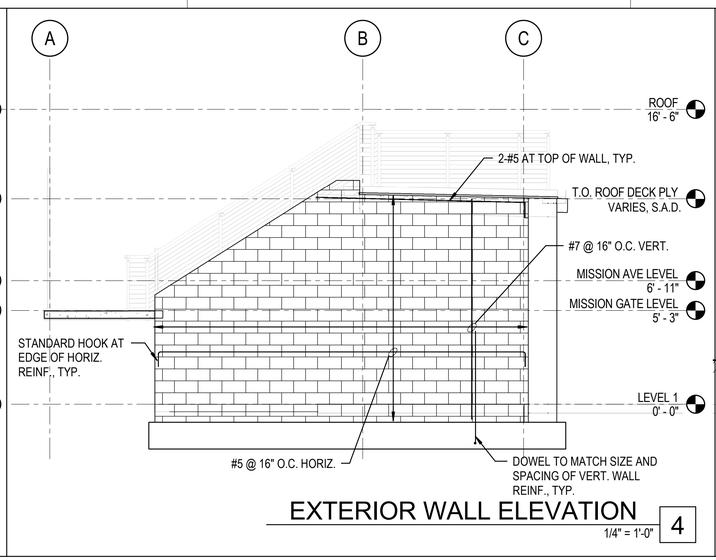


EXTERIOR WALL ELEVATION

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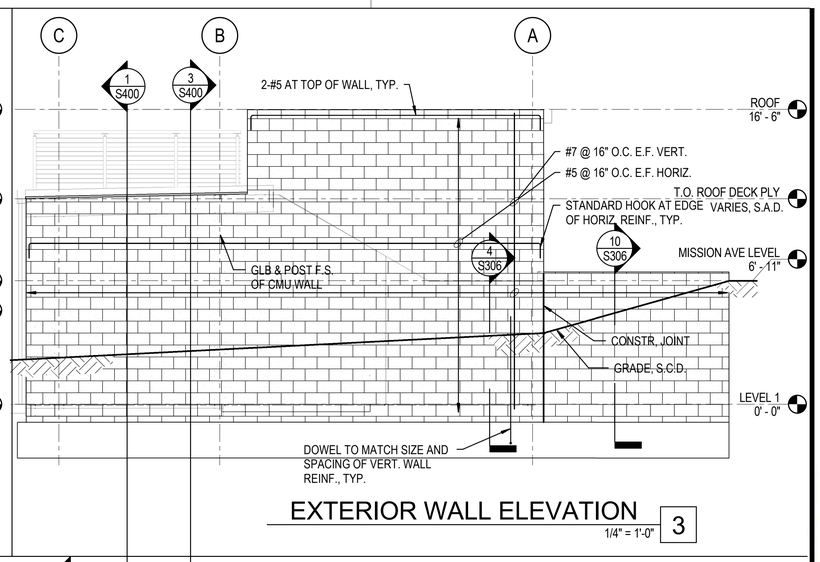
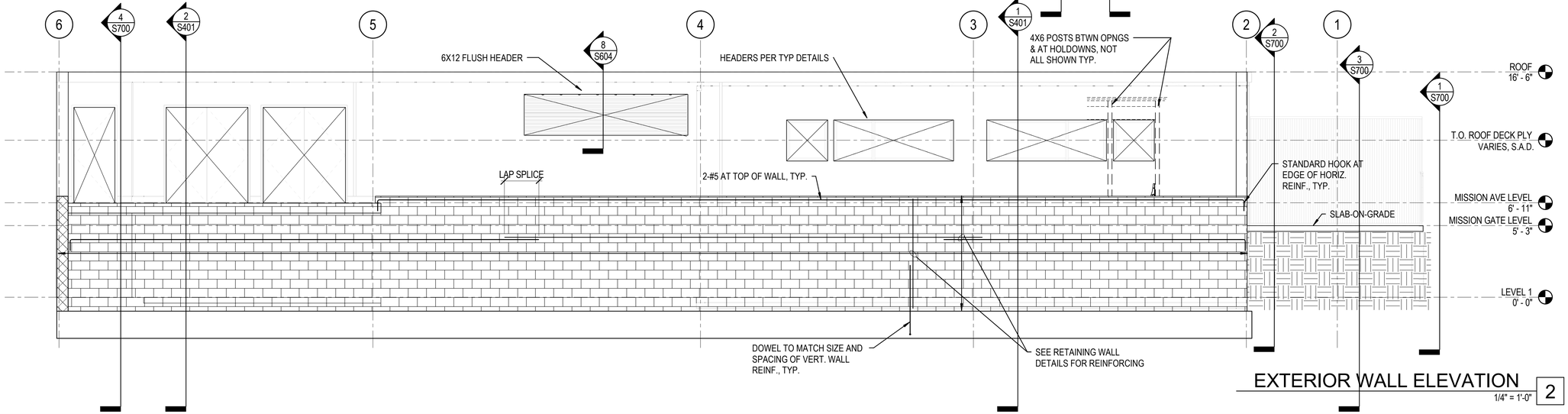



EXTERIOR WALL ELEVATION

1/4" = 1'-0" 3




EXTERIOR WALL ELEVATION

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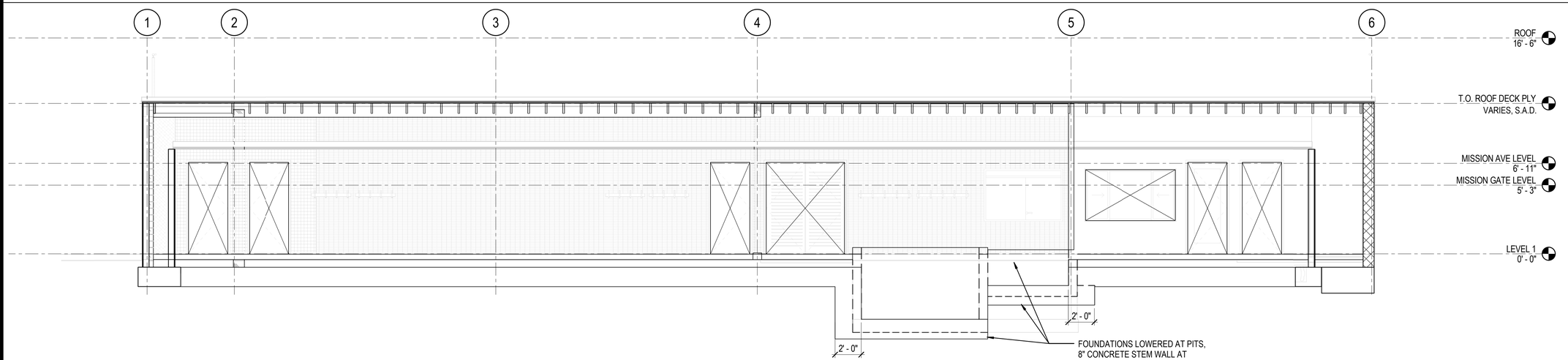


EXTERIOR WALL ELEVATION

1/4" = 1'-0" 1

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# MARIN ACADEMY AQUATIC CENTER

MARIN ACADEMY
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ehdd.

*ARCHITECTURE INTERIORS*
*PLANNING URBAN DESIGN*

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**1/4" = 1'-0"**

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Sheet Title

## ELEVATIONS

Sheet Number

# S402

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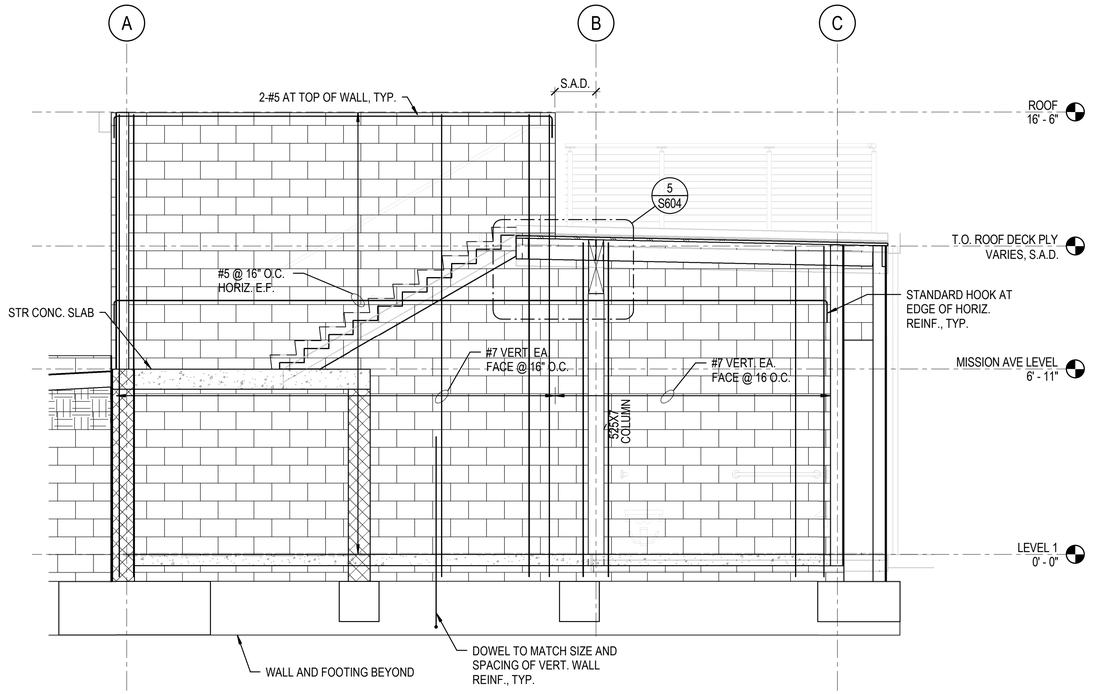
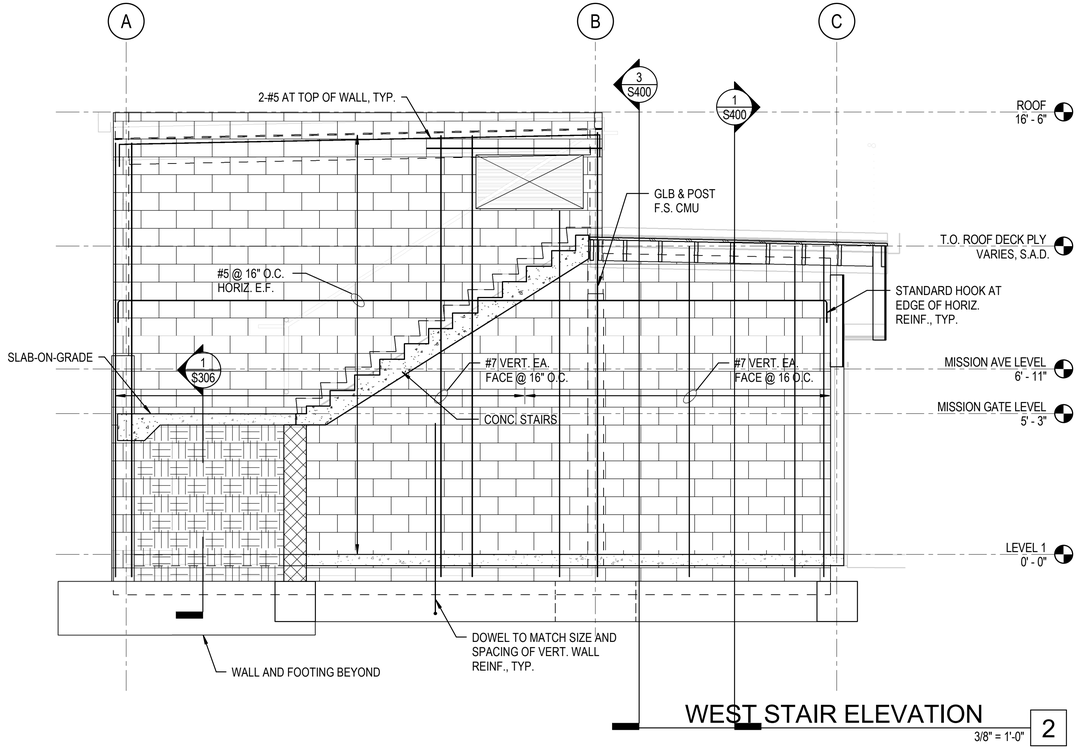



EAST STAIR ELEVATION 4
3/8" = 1'-0"




WEST STAIR ELEVATION 2
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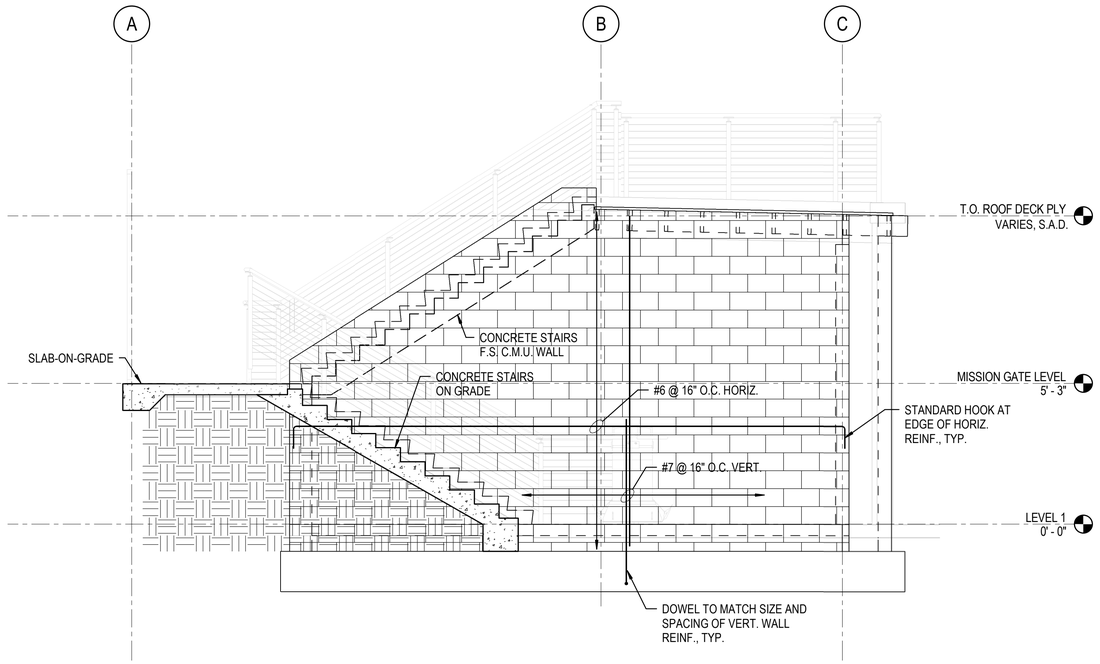
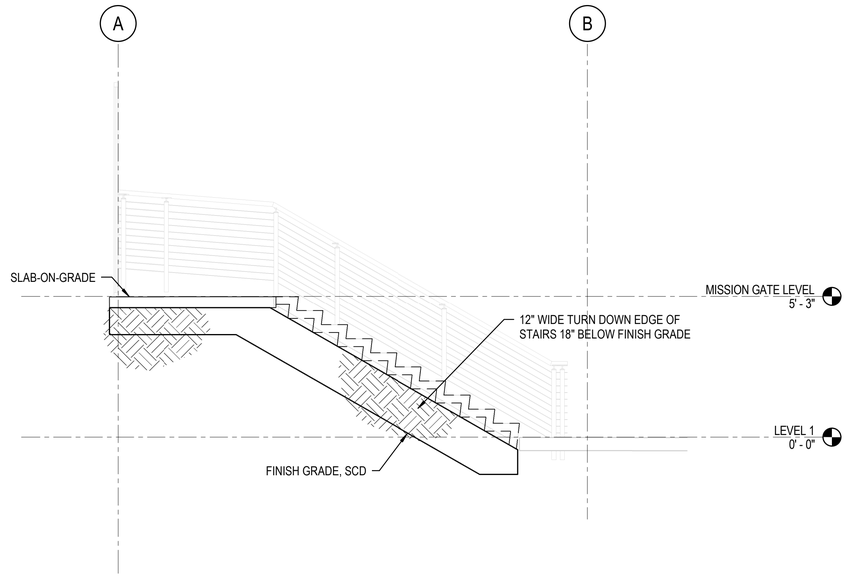



WEST STAIR ELEVATION 3
3/8" = 1'-0"




WEST STAIR ELEVATION 1
3/8" = 1'-0"

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EHDD Job Number

Sheet Title

## STAIR ELEVATION AND DETAIL

Sheet Number

# S700

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# ABBREVIATIONS

| | |
|---|---|
| AFF | ABOVE FLOOR FINISH |
| AI | ANALOG INPUT |
| AO | ANALOG OUTPUT |
| AP | ACCESS PANEL |
| ARCH | ARCHITECTURAL |
| AVV | AUTO AIR VENT |
| BHP | BRAKE HORSEPOWER |
| CAP | CAPACITY |
| CFM | CUBIC FEET PER MINUTE |
| DB | DRY BULB |
| dB | DECIBELS |
| DI | DIGITAL INPUT |
| DIA | DIAMETER |
| DN | DOWN |
| DO | DIGITAL OUTPUT |
| DP | DIFFERENTIAL PRESSURE |
| EAT | ENTERING AIR TEMPERATURE |
| EA | EXHAUST AIR |
| EF | EXHAUST FAN |
| ELEC. | ELECTRICAL |
| EMS | ENERGY MANAGEMENT SYSTEM |
| E.S.P. | EXTERNAL STATIC PRESSURE |
| EXH. | EXHAUST |
| °F | FAHRENHEIT |
| FC | FLEXIBLE CONNECTION |
| FCU | FAN COIL UNIT |
| FLA | FULL LOAD AMP |
| FPI | FIN PER INCH |
| FPM | FEET PER MINUTE |
| FT | FEET |
| GA | GAUGE |
| GALV | GALVANIZED |
| GPM | GALLON PER MINUTE |
| HP | HORSEPOWER |
| HR | HOUR |
| HT | HEIGHT |
| Hz | HERTZ |
| IN. | INCHES |
| KW | KILOWATT |
| LAT | LEAVING AIR TEMPERATURE |
| LBS | POUND |
| LWT | LEAVING WATER TEMPERATURE |
| LRA | LOCKED ROTOR AMPS |
| MAX | MAXIMUM |
| MBH | BRITISH THERMAL UNIT x1000 PER HOUR |
| MCA | MINIMUM CURRENT AMPACITY |
| MECH | MECHANICAL |
| MFG | MANUFACTURER |
| MIN. | MINIMUM |
| MOCP | MAXIMUM OVER CURRENT PROTECTION |
| (N) | NEW |
| N.C. | NORMALLY CLOSED |
| N.O. | NORMALLY OPENED |
| O.C. | ON CENTER |
| OA | OUTSIDE AIR |
| P | PUMP |
| PH | PHASE |
| P.D. | PRESSURE DROP |
| RA | RETURN AIR |
| REQ'D. | REQUIRED |
| RH | RELATIVE HUMIDITY |
| RLA | RUNNING LOAD AMPS |
| RM | ROOM |
| RPM | REVOLUTION PER MINUTE |
| SA | SUPPLY AIR |
| SCHR | SECONDARY CHILLED WATER RETURN |
| SCHS | SECONDARY CHILLED WATER SUPPLY |
| SEC | SECONDS |
| SF | SUPPLY FAN |
| S.M. | SHEET METAL |
| S.P. | STATIC PRESSURE |
| S.S. | STAINLESS STEEL |
| S.S.D. | SEE STRUCTURAL DRAWING |
| ST | SOUNDTRAP |
| SQ. FT. | SQUARE FEET |
| TEMP | TEMPERATURE |
| T.S.P. | TOTAL STATIC PRESSURE |
| U.L. | UNDERWRITER'S LABORATORIES, INC. |
| V | VOLT |
| VEL | VELOCITY |
| VOL | VOLUME |
| W | WIDTH |
| WB | WET BULB |
| W.C. | WATER COLUMN |
| WT. | WEIGHT |

# APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:
CALIFORNIA CODE OF REGULATIONS TITLE 8 - INDUSTRIAL REGULATIONS.
CALIFORNIA CODE OF REGULATIONS TITLE 19 - PUBLIC SAFETY.
CALIFORNIA CODE OF REGULATIONS TITLE 22 - SOCIAL SECURITY.
CALIFORNIA CODE OF REGULATIONS TITLE 24 - PARTS 2, 3, 4, AND 5.
CALIFORNIA CODE OF REGULATIONS TITLE 24 - ENERGY INSULATION STANDARDS.
2016 CALIFORNIA BUILDING CODE.
2016 CALIFORNIA PLUMBING CODE.
2016 CALIFORNIA MECHANICAL CODE.
2016 CALIFORNIA ELECTRIC CODE.
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS.

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

# CALGREEN BUILDING REQUIREMENTS

1. SECTION 5.410.4 TESTING AND ADJUSTING:
SEE SPECIFICATION SECTION 230590 AND SECTION 230593 FOR TESTING AND BALANCING REQUIREMENTS.

2. SECTION 504.4.5 OPERATION AND MAINTENANCE MANUAL:
SEE SPECIFICATION SECTION 230500, 1.9 FOR OPERATION AND MAINTENANCE MANUAL SUBMITTAL REQUIREMENTS.

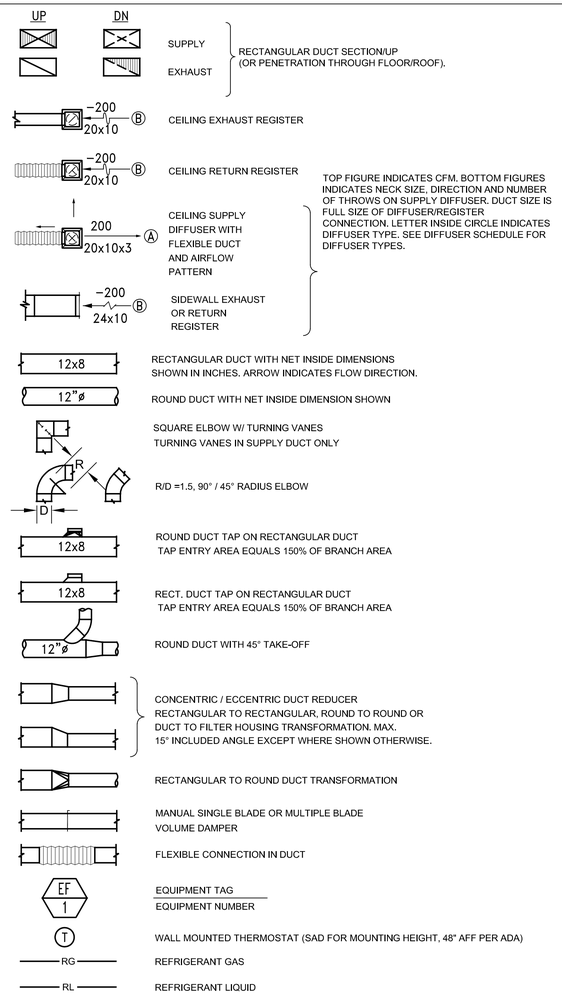
3. SECTION 5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION:
AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER, AND DEBRIS WHICH MAY ENTER THE SYSTEM.

4. SECTION 5.504.4.1 ADHESIVES, SEALANTS, CAULKS:
ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SELANTS, SEALANT PRIMERS AND CAULKS SHALL COMPY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRIC RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN CALGREEN TABLE 5.504.4.1 AND 5.504.4.2.

5. SECTION 5.504.5.3.1 FILTERS, TIER 1:
FOR MECHANICAL VENTILATED AREAS, PROVIDE MINIMUM AIR FILTRATION MEDIA OF MERV 11. REFER TO SCHEDULE FOR FCU-1 WHICH REQUIRES MINIMUM MERV-13 FILTRATION, EXCEEDING THIS REQUIREMENT. FCU-2 DOES NOT SERVE REGULARLY OCCUPIED AREAS AND IS EXCLUDED FROM THIS REQUIREMENT.

6. SECTION 5.508.1, 5.508.1.1, 5.508.1.2: OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS, CFCS, AND HALONS:
INSTALLATIONS OF HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT FOR THIS PROJECT SHALL NOT CONTAIN CFCs AND/OR HALONS.

# SYMBOLS & LEGEND




# DRAWING INDEX


| | |
|---|---|
| M001 | LEGEND, SYMBOLS, ABBREVIATION, AND NOTES |
| M002 | MECHANICAL SCHEDULES |
| M101 | PARTIAL LEVEL 1 FLOOR PLAN - MECHANICAL |
| M102 | PARTIAL ROOF PLAN - MECHANICAL |
| M301 | SECTIONS |
| M501 | DETAILS |
| M502 | DETAILS |


# SEISMIC BRACING NOTES

1. SUPPORTS AND ANCHORAGES FOR ALL EQUIPMENT, DUCTS, CONDUITS, AND PIPES SHALL BE DESIGNED, CALCULATED, FABRICATED, AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH 2016 CALIFORNIA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE PRIMARY STRUCTURAL FRAMING SYSTEM AND PROVISION OF ALL SECONDARY STRUCTURAL ELEMENTS REQUIRED TO TRANSMIT ALL REACTIONS DUE TO THE LOAD CRITERIA PRESCRIBED HEREIN. ANCHORAGE AND SUPPORT DETAILS PROVIDED IN THIS SET OF DRAWINGS ARE FOR THE CONTRACTOR'S REFERENCE.

2. THE CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR REVIEW BY THE ARCHITECT, STRUCTURAL ENGINEER, AND MECHANICAL ENGINEER (AS APPLICABLE) AND FOR APPROVAL BY OSHPD;
   a. STRUCTURAL CALCULATIONS;
   b. INSTALLATION AND FABRICATION DRAWINGS, INCLUDING PLANS AND APPLICABLE SPECIFIC DETAILS;
   c. MATERIAL SPECIFICATIONS DEMONSTRATING COMPLIANCE WITH THE 2016 CALIFORNIA BUILDING CODE (WITH OSHPD AMENDMENTS) AND THE CRITERIA SPECIFIED HEREIN.

3. THE CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA, EXPERIENCED IN BRACING DESIGN FOR EQUIPMENT, DUCT, CONDUIT, AND PIPING SYSTEMS, TO DESIGN AND DETAIL ALL REQUIRED SUPPORT CONDITIONS AND SECONDARY FRAMING ELEMENTS AND THEIR ASSOCIATED CONNECTIONS. THE STRUCTURAL ENGINEER SHALL STAMP AND SIGN BOTH THE CALCULATIONS AND INSTALLATION DRAWINGS.

4. THE CONTRACTOR SHALL EITHER SELECT A OSHPD PRE-APPROVED SEISMIC SUPPORT SYSTEM OR PROVIDE A COMPLETE DESIGN OF THE BRACING SYSTEM PROPOSED FOR THE PROJECT. THE PRE-APPROVED SYSTEM SHALL BE ONE OF THE FOLLOWING:
   a. MASON INDUSTRIES, INC. - SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED PIPING, DUCTWORK, AND ELECTRICAL SYSTEMS [OPM-0043-13]

5. TYPICAL EXPANSION ANCHORS ARE HILTI KWIK BOLT TZ (KB-TZ) CARBON STEEL ANCHORS AND SHALL COMPLY WITH ICC-ES EVALUATION REPORT ESR-1917 (MAY 2015).

6. THE CONTRACTOR-DESIGNED SEISMIC BRACING SYSTEM SHALL SATISFY THE REQUIREMENTS OF ASCE 7 SECTION 13.6 (INCLUDING SUPPLEMENTS #1 AND #2) AS MODIFIED BY CBC 2016 SECTION 1616A. ANCHORAGE OF EQUIPMENT AND PIPING SYSTEM IS NOT REQUIRED WHEN THE EXCEPTIONS SPECIFIED IN CBC 20163 SECTION 1616A ARE COMPLIED.

7. THE SPACING OF BRACING OF DUCTWORK SHALL, AT A MINIMUM, CONFORM TO SMACNA GUIDELINES AND MUST BE CLEARLY SHOWN ON THE INSTALLATION PLANS.

8. ALL DUCTWORK AND PIPE BRACING SUBMITTALS SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:
   a. COVER SHEET WITH NAME OF THE PROJECT, AND AN INDEX OF DRAWINGS AND CALCULATIONS.
   b. NAME AND CONTACT INFORMATION OF THE STRUCTURAL ENGINEER WHO PREPARED THE CALCULATIONS.
   c. DATE OF PREPARATION AND SUBSEQUENT REVISIONS. CLEARLY IDENTIFY REVISIONS MADE.
   d. CALCULATIONS FOR THE SEISMIC BRACING AS REQUIRED BY CBC 2016 SECTION 1616A THAT ARE STAMPED AND SIGNED BY A CALIFORNIA REGISTERED STRUCTURAL ENGINEER RETAINED BY THE CONTRACTOR.

8. CALCULATIONS SHALL INCLUDE THE DESIGN SEISMIC COEFFICIENTS OR SEISMIC FORCE LEVELS THAT ARE SPECIFIC TO THE PROJECT SITE AND THE CALCULATIONS FOR THE SPECIFIC SYSTEM COMPONENTS, USING THE APPROPRIATE AP, SDS, RP, AND IP FACTORS SPECIFIED IN CBC AND THE CONSTRUCTION DOCUMENTS. GENERIC CALCULATIONS OR CALCULATIONS PREPARED FOR OTHER PROJECTS WILL BE REJECTED WITHOUT REVIEW.

9. PRE-APPROVAL COMPONENT SUPPORTS AND ATTACHMENT LIMITATIONS; SOME PRE-APPROVALS HAVE LIMITATIONS THAT MAY REQUIRE EITHER A DEFERRED SUBMITTAL OR SUBMITTAL AS PART OF CONSTRUCTION DOCUMENTS. ALL OF THE PREAPPROVED SYSTEM REQUIRE THAT THE LATERAL FORCE, F , INCLUDING CONSIDERATION OF $a_p$ AND $R_p$, BE DETERMINED AT EACH LEVEL OF THE BUILDING SO THAT BRACE SPACING, SUPPORTS AND ATTACHMENTS REQUIREMENT CAN BE DETERMINED. PROVIDE ALL PARAMETERS REQUIRED TO COMPUTE $F_p$ (e.g. $a_p$, $R_p$, $S_{DS}$, $I_p$, h, AND z AT EACH LEVEL) ON CONSTRUCTION DRAWINGS. THE OSHPD DISTRICT STRUCTURAL ENGINEER (DSE) MAY APPROVE THE SEISMIC LATERAL FORCE COMPUTATIONS.
   a. LAYOUT PLANS INDICATING THE DIMENSIONED LOCATION OF THE SUPPORTS AND BRACING. PLANS SHALL BE CLEAR, LEGIBLE, AND OF SUFFICIENTLY LARGE SCALE SO THAT ALL PERTINENT FEATURES MAY BE READILY IDENTIFIED. PLANS AND ELEVATIONS SHOULD CLEARLY IDENTIFY AND REFERENCE ALL SPECIFIC DETAILS AND SECTIONS.
   b. DETAILS THAT SHOW THE ATTACHMENT OF THE PIPE TO THE SUPPORT STRUCTURE (INCLUDING TRAPEZES WHERE USED) WHERE THE DETAILS DEVIATE FROM THE SUBMITTED PRE-APPROVED SYSTEM. DEVIATE FROM WHAT IS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS, OR ARE DESIGNED BY THE CONTRACTOR.
   c. DETAILS THAT SHOW THE ATTACHMENTS OF THE SUPPORT SYSTEM TO THE PRIMARY STRUCTURE WHERE THE DETAILS DEVIATE FROM THE SUBMITTED PRE-APPROVED SYSTEM, DEVIATE FROM WHAT IS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS, OR ARE DESIGNED BY THE CONTRACTOR.
   d. NOTES ON DRAWINGS SPECIFYING THE CAPACITY OF DRILLED-IN EXPANSION ANCHORS IN ACCORDANCE WITH THE 2016 CBC AND THE LOCATION OF ALL DRILLED-IN ANCHORS IN REFERENCE TO NEW OR AS-BUILT WORK, AVOIDING LOCATIONS WHERE THERE WILL BE LIKELY CONFLICTS WITH REINFORCING BARS. SUCH ANCHORS SHOULD HAVE THE MINIMUM EMBEDMENT IN CONCRETE AS SPECIFIED IN THE APPLICABLE ICC ES EVALUATION REPORT.
   e. SPECIFY ON THE DRAWINGS TESTING FOR ALL DRILLED-IN EXPANSION TYPE ANCHOR BOLTS IN CONCRETE. TEST LOADS AND PROCEDURES SHALL CONFORM TO THE REQUIREMENTS SPECIFIED ON THE STRUCTURAL DRAWINGS AND CBC.
   f. OPERATING WEIGHTS OF EQUIPMENT, PIPING, DUCTWORK, CONDUITS, INCLUDING WATER WHERE APPLICABLE.

10. A COPY OF THE APPROVED PRE-ENGINEERED BRACING SYSTEM MANUAL AND COPIES OF ALL APPROVED BRACING DETAILS SHALL BE ON THE JOB SITE PRIOR TO THE START OF INSTALLATION OF THE HANGERS AND/OR BRACES.

11. A PRE-INSTALLATION CONFERENCE FOR BRACING OF THE DUCT, PIPE, CONDUIT, TELECOMMUNICATION LINE, AND FIRE PROTECTION SYSTEMS SHALL BE HELD PRIOR TO THE START OF WORK. ATTENDEES SHALL INCLUDE THE ARCHITECT, THE STRUCTURAL, MECHANICAL, AND ELECTRICAL ENGINEERS OF RECORD, THE INSPECTOR OF RECORD, THE GENERAL CONTRACTOR, AND ALL SUB-CONTRACTORS INVOLVED IN THE INSTALLATION OF THESE SYSTEMS.

12. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

# GENERAL NOTES

1. ALL WORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE CODES AND REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.

2. IN THE EVENT OF A DISCREPANCY BETWEEN CONTRACT DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.

3. PRIOR TO SUBMISSION OF ANY BID, THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD SURVEY OF THE EXISTING SITE CONDITIONS AND FEATURES. ANY SITE CONDITIONS WHICH MAY CAUSE SIGNIFICANT DEVIATION FROM THE DESIGN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT OF RECORD FOR CLARIFICATION PRIOR TO SUBMISSION OF THE CONTRACTOR'S BID. VERIFY DIMENSIONS OF ALL OWNER-FURNISHED OPERATING EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.

4. ADVISE THE OWNER REPRESENTATIVE IN WRITING IN THE EVENT A CONFLICT WHICH OCCURS BETWEEN REQUIREMENTS OF THE CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL BEAR ALL COSTS FOR RELOCATION OF EQUIPMENT, PIPES DUCTS, ETC. FROM FAILURE TO PROPERLY COORDINATE INSTALLATIONS AND ADVISE OF CONFLICT IN WRITING PRIOR TO INSTALLATION.

5. REQUIRED LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES ARE SHOWN ON THE ARCHITECTURAL REFLECTIVE CEILING PLAN, AND ARCHITECTURAL ROOM ELEVATIONS.

6. LOCATIONS OF ALL SLAB OPENINGS AND THE LOCATIONS OF ALL ROOF MOUNTED EQUIPMENT SUPPORTS SHALL BE FIELD VERIFIED AND COORDINATED BY THE CONTRACTOR.

7. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

8. DUCTWORK SHALL BE INSULATED PER SPECIFICATIONS OR AS NOTED ON DRAWINGS. ALL DUCT SIZES ARE SHEET METAL SIZES. INSULATION SHALL BE PROVIDED FOR SUPPLY AND RETURN DUCTS WHETHER SHOWN OR NOT. ALL DUCT JOINTS AND SEAMS SHALL BE SEALED PER SPECIFICATIONS.

9. MANUAL DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS WHETHER SHOWN OR NOT.

10. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.

11. PENETRATIONS OF PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL. PATCH ALL OPENING AND PENETRATIONS TO MATCH SURROUNDING WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED; PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.

12. CONTRACTOR SHALL BE COGNIZANT WITH BUILDING STRUCTURE AND CEILING SPACE ALLOWED FOR INSTALLATION OF EQUIPMENTS PRIOR TO BID FOR PRICING ADDITIONAL OFFSETS OF DUCTS AND PIPING THAT ARE NOT SHOWN ON DRAWINGS.

13. CONTRACTOR IS TO MAINTAIN RECORDED "AS-BUILT" INFORMATION ON ALL EXISTING SERVICES UNCOVERED DURING CONSTRUCTION AND ALL NEW SERVICES BEING INSTALLED. "AS-BUILT" INFORMATION SHALL BE CLEARLY MARKED IN COLORED PENCIL ON A REPRODUCIBLE PRINT OF CONTRACT DRAWINGS. RECORDED INFORMATION SHALL INCLUDE ROUTING AND INVERT ELEVATIONS, AT THE COMPLETION OF THE CONTRACT. THE CONTRACTOR SHALL TURN RECORDED "AS-BUILT" DRAWINGS IN HARDCOPY AND CAD FORMAT OVER TO THE OWNER.

14. INSTALL ALL PIPING AND DUCTWORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION OF PIPING OR DUCTWORK.

15. CERTAIN VERTICAL AND HORIZONTAL OFFSETS ARE SHOWN IN DUCTS AND PIPING TO INDICATE THE GENERAL RELATIONSHIP OF THE SYSTEMS WITHIN THE SPACE AVAILABLE FOR INSTALLATION. PROVIDE ADDITIONAL OFFSETS SIMILAR TO THOSE SHOWN AS REQUIRED TO COORDINATE WITH INSTALLATION REQUIREMENTS OF OTHER SYSTEMS.

16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE ALL WORK WITH THE OWNERS REPRESENTATIVE INCLUDING CONSTRUCTION ACCESS AND STORAGE.

17. ALL UTILITY TIE-IN/SHUT-DOWN SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL AND COORDINATION IN WRITING AT LEAST TWO WEEKS PRIOR TO THE PROPOSED SCHEDULE OF WORK.

18. SEAL ALL DUCT, PIPE, AND CONTROL CONDUIT PENETRATIONS AIR-TIGHT FOR ALL ACOUSTIC AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION IDENTIFICATION.

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Sheet Title
**LEGEND, SYMBOLS, ABBREVIATION, AND NOTES**

Sheet Number
**M001**

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# MECHANICAL SCHEDULES

## DIFFUSER / GRILLE SCHEDULE

| TYPE DESIGNATION | DESCRIPTION | SERVICE | NECK SIZE | FACE SIZE | MANUFACTURER AND MODEL NO. | MAXIMUM NC LEVEL | REMARKS |
|---|---|---|---|---|---|---|---|
| A | ALUMINUM PERFORATED CEILING DIFFUSER | SUPPLY | AS SHOWN | 24X24 | TITUS PSS-AA | 30 | |
| B | ALUMINUM PERFORATED CEILING DIFFUSER | SUPPLY | AS SHOWN | 12X12 | TITUS PSS-AA | 30 | |
| C | ALUMINUM ADJUSTABLE CEILING DIFFUSER | SUPPLY | AS SHOWN | AS SHOWN | TITUS 250-AA | 30 | |
| D | ALUMINUM PERFORATED EXHAUST GRILLE | EXHAUST | AS SHOWN | 24X24 | TITUS PAR-AA | 30 | |
| E | ALUMINUM EXHAUST GRILLE | EXHAUST | AS SHOWN | AS SHOWN | TITUS 350FL | 30 | |
| F | STAINLESS STEEL EXHAUST GRILLE | EXHAUST | AS SHOWN | AS SHOWN | TITUS 350FL-SS | 30 | |

## GAS-FIRED FAN COIL UNIT SCHEDULE

| UNIT NO. | MANUFACTURER/ MODEL | LOCATION/ SERVICE | SUPPLY FAN DATA | | | ELECTRICAL | | | | | HEATING FURNACE | | | | | | OPER. WEIGHT (LBS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MAX. CFM | E.S.P. (IN. WG.) | FAN RPM | MOTOR BHP/HP | RPM | MCA | MOP | V/ø/Hz | INPUT MBH | OUTPUT MBH | EAT °F DB | LAT °F DB | GAS | FURNACE CONTROL | | |
| FCU-01 | GREENHECK IGX-110-H12 | CHANGING ROOM - MEN/WOMEN | 1,980 | 0.65 | 948 | 0.64/ 1.0 | 1725 | 7.7 | 15 | 208/3/60 | 150 | 120 | 38 | 93.6 | NATURAL | 4 TO 1 ELECTRONIC | 950 | 1-7 |

NOTES:
1. 100% OUTSIDE AIR UNIT FOR MAKE-UP TO CHANGING/RESTROOMS.
2. PROVIDE 2", MERV-13 30% PRE-FILTERS. (4) 16x20x2 FILTERS.
3. SEE DETAIL _/M-___FOR UNIT ANCHORAGE DESIGN DETAILS.
4. PROVIDE WITH PERMATECTOR EXTERIOR COATING FINISH.
5. VERTICAL TWO-PIPE VENT FOR EXHAUST AND COMBUSTION. TERMINATE EXHAUST VENT MIN 2' ABOVE ROOF LEVEL.
6. MIN 6 IN W.G. NATURAL GAS PRESSURE REQUIRED.
7. FURNISH WITH MOTORIZED OUTSIDE AIR DAMPER FOR UNIT SHUTDOWN WHEN UNIT IS NOT OPERATING.

## MAKE-UP AIR VENTILATION SUPPLY FAN UNIT

| UNIT NO. | MANUFACTURER/ MODEL | LOCATION/ SERVICE | SUPPLY FAN DATA | | | | ELECTRICAL | | | | | | | Lwa | dBA IN/OUT | OPER. WEIGHT (LBS) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MAX. CFM | E.S.P. (IN. WG.) | T.S.P. (IN. WG.) | FAN RPM | MOTOR BHP/HP | RPM | FLA | MCA | MOP | RPM | V/ø/Hz | | | | |
| FCU-02 | GREENHECK LFC-65-FC-10 | MECH RM | 2,400 | 0.25 | 0.63 | 851 | 0.78/1.0 | 1725 | 4.6 | 6.2 | 15 | 1725 | 208/3/60 | 72 | 62/63 | 550 | 1-8 |

NOTES:
1. 100% OUTSIDE AIR UNIT FOR MAKE-UP TO MECH ROOM. NO HEATING OR COOLING PROVIDED.
2. PROVIDE 2", MERV-8 30% PRE-FILTERS. (2) 24X24 FILTERS.
3. PROVIDE INLET DAMPER.
5. PROVIDE WITH PERMATECTOR EXTERIOR COATING FINISH.
6. SEE DETAIL _/_ FOR ANCHORAGE AND MOUNTING.
7. PROVIDE DUCT-MOUNTED SMOKE DETECTOR FOR UNIT SHUTDOWN. FURNISHED AND WIRED BY FIRE ALARM AND INSTALLED BY MECH.
8. PROVIDE FACTORY FURNISHED MOUNTING BRACKETS AND LIFTING LUGS.

## EXHAUST FAN SCHEDULE

| UNIT NO. | MANUFACTURER & MODEL NO. | SERVICE / LOCATION | FAN | | | MOTOR DATA | | | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CFM | T.S.P. (IN. W.C.) | RPM | BHP | HP | V/PH | RPM | WT. (LBS.) | |
| EF-1 | GREENHECK SQ-160-VG | CHANGING ROOM - MEN'S & WOMEN'S | 2,160 | 0.5" | 981 | 0.36 | 3/4 | 115/1/60 | 1140 | 160 | 1-5 |
| EF-2 | GREENHECK SQ-160-VG | MEP / POOL HOUSE EQUIPMENT ROOM | 2,400 | 0.5" | 1042 | 0.42 | 3/4 | 115/1/60 | 1140 | 160 | 1-5 |
| EF-3 | GREENHECK AX-31-160-0407-A3 | CHEMICAL STORAGE | 300 | 0.30" | 1770 | 0.04 | 1/3 | 208/3/60 | 1725 | 50 | 1-4 |
| EF-4 | GREENHECK AX-31-160-0407-A3 | CHEMICAL STORAGE | 300 | 0.30" | 1770 | 0.04 | 1/3 | 208/3/60 | 1725 | 50 | 1-4 |
| EF-5 | GREENHECK SQ-65-VG | RESTROOM | 100 | 0.375" | 1689 | 0.03 | 1/10 | 115/1/60 | 1725 | 50 | 1-5 |

NOTES:
1. NEMA-1 DISCONNECT TOGGLE SWITCH PROVIDED BY MANUFACTURER.
2. VARI-GREEN EC MOTOR EQUIPPED W/ 0-10 VDC INPUT SIGNAL, 120/24V TRANSFORMER.
3. GRAVITY BACKDRAFT DAMPER.
4. INTEGRAL DUCT CONNECTION FLANGES.
5. CEILING-HUNG INLINE DIRECT DRIVE FAN.

## RADIANT PANEL HEATER SCHEDULE

| UNIT NO. | LOCATION/SERVICE | HEATING BTUH | ELECTRICAL | | | | | MANUFACTURER AND MODEL NO. | DIMENSIONS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | V | ø | Hz | WATTS | AMPS | | | |
| RP-1 | UNISEX RESTROOM | 5120 | 120 | 1 | 60 | 1500 | 12.5 | QMARK AWH3150F | 19-5/16"H x 15-3/4"W | RECESSED IN WALL |
| RP-2 | OFFICE | 5120 | 120 | 1 | 60 | 1500 | 12.5 | QMARK AWH3150F | 19-5/16"H x 15-3/4"W | RECESSED IN WALL |

## RELIEF VENT/HOOD SCHEDULE

| UNIT NO. | MANUFACTURER AND MODEL NO. | SERVICE / LOCATION | THROAT WIDTH, IN. | THROAT LENGTH, IN. | HOOD WIDTH, IN. | HOOD LENGTH, IN. | CURB WIDTH, IN. | CURB LENGTH, IN. | HOOD HEIGHT, IN. | WEIGHT LBS. | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RV-1 | GREENHECK FGR | EF-1 EXHAUST / ROOF | 24 | 24 | 34 | 36 | 30 | 30 | 19 | 100 | 1-4 |
| RV-2 | GREENHECK FGR | EF-2&5 EXHAUST / ROOF | 24 | 24 | 34 | 36 | 30 | 38 | 19 | 100 | 1-4 |

NOTES:
1. ALUMINUM MILL FINISH.
2. PROVIDE 0.5 INCH ALUMINUM BIRDSCREEN.
3. FURNISH WITH 12"H FACTORY ROOF CURB.
4. PROVIDE HINGED OPENING TO REMOVE HOOD FROM BASE.

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**MECHANICAL SCHEDULES**

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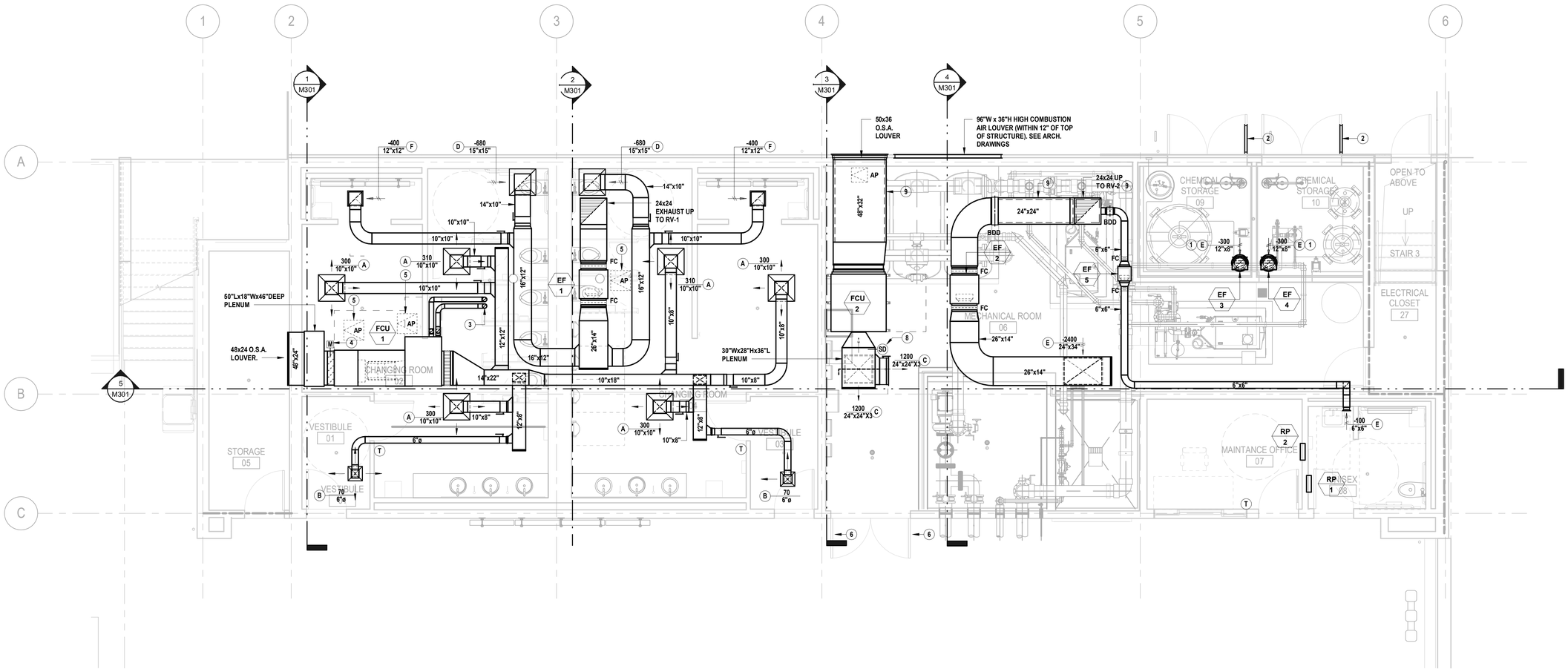
## SHEET NOTES:

1. LOW WALL EXHAUST GRILLE. TERMINATE BOTTOM OF GRILLE NO HIGHER THAN 6" AFF.
2. OSA INTAKE AIR LOUVER BY ARCH. BOTTOM OF LOUVER MINIMUM 60" AFF MINIMUM 24" WIDE x 12" HIGH.
3. 4"Ø VENT AND 4"Ø COMBUSTION AIR INTAKE UP THRU ROOF.
4. MOTORIZED DAMPER FOR UNIT SHUTDOWN.
5. ACCESS PANEL FOR EQUIPMENT MAINTENANCE.
6. LOW COMBUSTION AIR VIA LOUVERED DOORS.
7. INDOOR, WALL-MOUNTED HEAT PUMP UNIT. MOUNT TOP OF UNIT WITHIN 6" OF CEILING. ROUTE CONDENSATE DRAIN TO FLOOR DRAIN IN MECHANICAL ROOM.
8. DUCT-MOUNTED SMOKE DETECTOR. FURNISHED AND WIRED BY FIRE ALARM. INSTALLED BY MECHANICAL.
9. PROVIDE INTERNAL LINING IN DUCTWORK AS IDENTIFIED.

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Sheet Title

# PARTIAL LEVEL 1 FLOOR PLAN - MECHANICAL

Sheet Number

# M101

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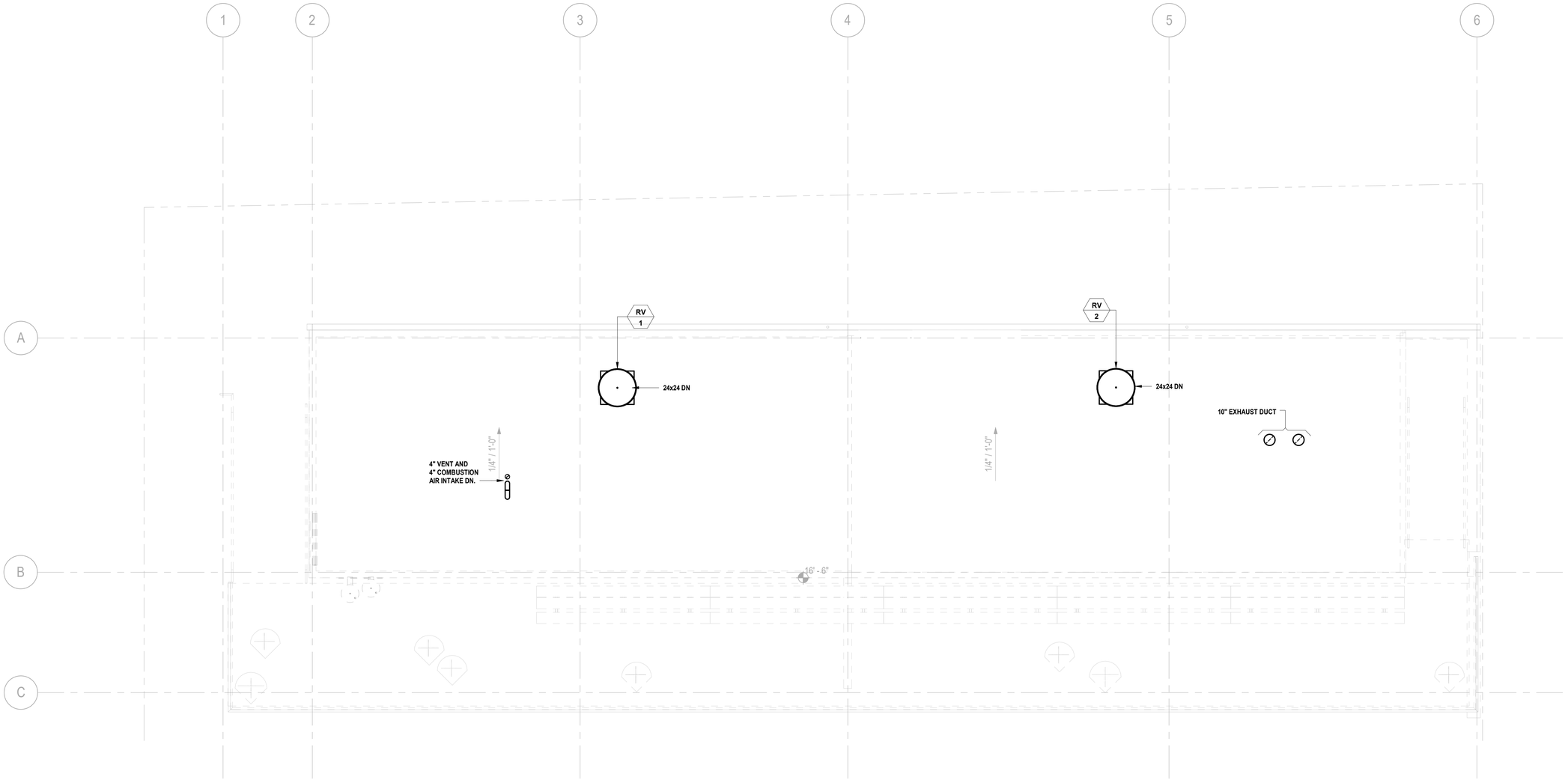


1 Partial Roof Plan Mechanical
1/4" = 1'-0"


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## PARTIAL ROOF PLAN MECHANICAL

Sheet Number

# M102

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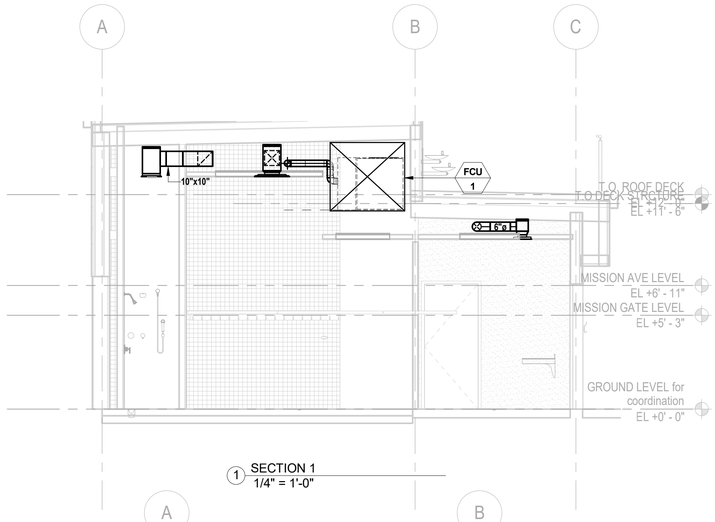


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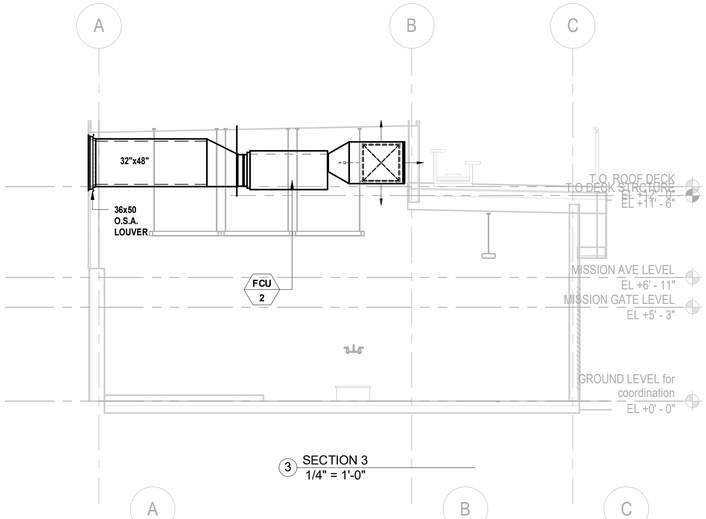


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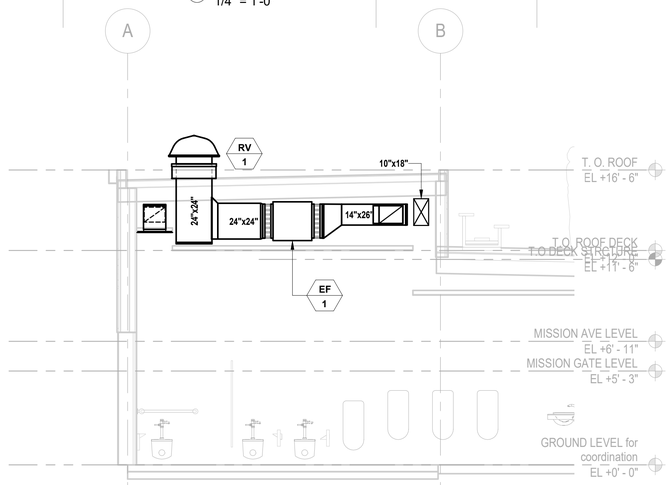


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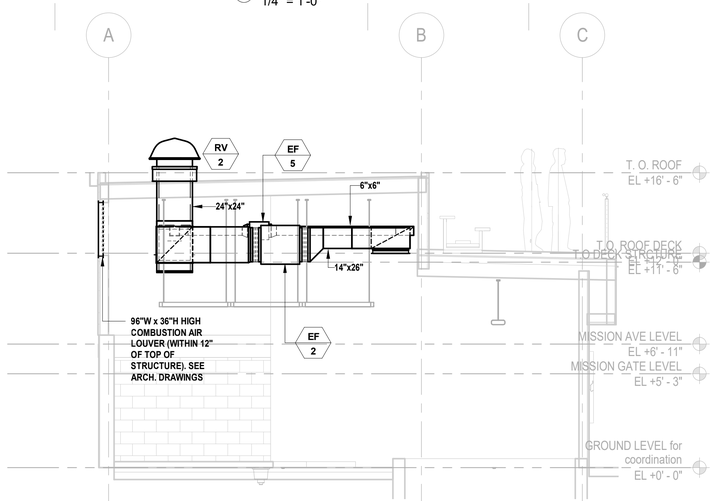


4 SECTION 4
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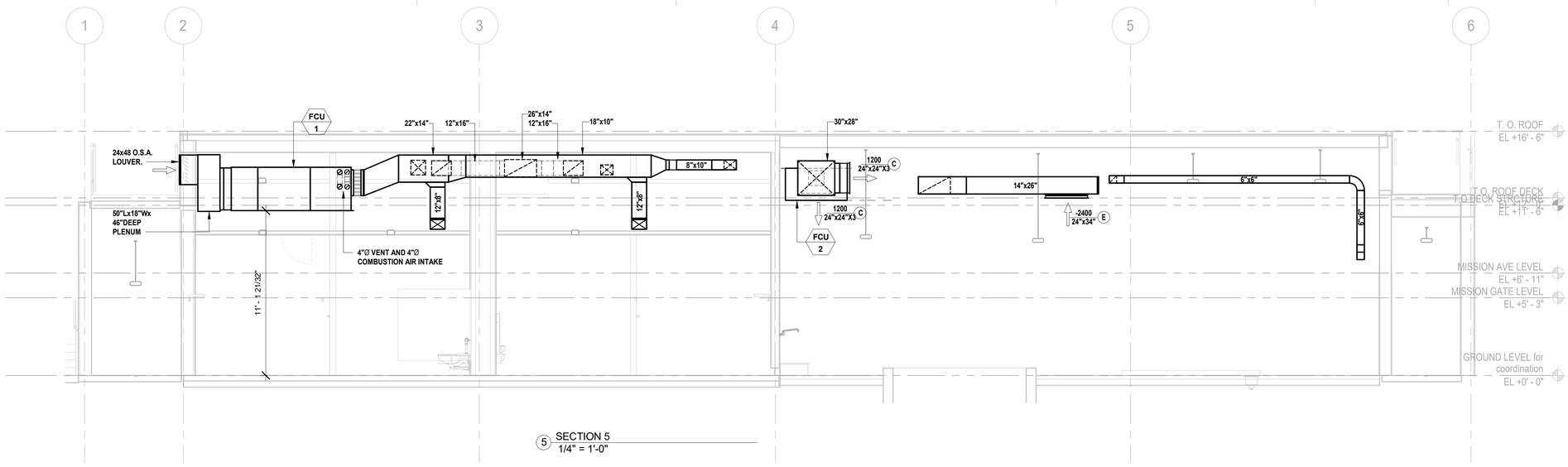


5 SECTION 5
1/4" = 1'-0"


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## Sections

Sheet Number

# M301

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## GENERAL NOTES - CLEANING, TESTING, STERILIZATION

1. THOROUGHLY CLEAN AND FLUSH ALL DRAINAGE AND WATER PIPING SYSTEMS OF ANY NATURE OF PIPING CONTAMINANTS SUCH AS CUTTINGS, FILINGS, LUBRICATION, RUST, SCALE, GREASE, SOLDER, FLUX, DEBRIS WITH CLEAN WATER PRIOR TO TESTING.
2. ANY PIECE OF EQUIPMENT OR PART OF A SYSTEM, WHICH MALFUNCTIONS OR IS DAMAGED DUE TO FAILURE OR NEGLECT TO OBSERVE THIS PARAGRAPH, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.
3. BEFORE CONDUCTING TESTS, VALVE-OFF OR DISCONNECT ANY EQUIPMENT AND APPARATUS WHICH MAY BE DAMAGED BY THE TEST PRESSURES HIGHER THAN NORMAL WORKING PRESSURES.
4. ALL TESTING SHALL BE WITNESSED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
5. SANITARY WASTE AND VENT PIPING: TEST AND PROVE TIGHT WITH 10 FEET HEAD OF WATER, IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.
6. HOT AND COLD WATER: TEST AND PROVE TIGHT HYDROSTATICALLY AT A PRESSURE OF 150 PSI.
7. FINAL PRESSURES AT THE END OF TEST PERIOD SHALL BE NOT MORE THAN THAT CAUSED BY EXPANSION OR CONTRACTION OF THE TEST MEDIUM DUE TO THE TEMPERATURE CHANGES.
8. APPLY TESTS FOR A MINIMUM PERIOD OF TWO (2) HOURS, OR AS NOTED ABOVE, OR UNTIL TESTS ARE COMPLETE, IN THE OPINION OF THE INSPECTING AUTHORITY.
9. WORK MAY BE TESTED IN SECTIONS, IF NECESSARY, FOR CONVENIENCE. IN THIS CASE, TEST OF LAST SECTION SHALL INCLUDE ALL CONNECTION BETWEEN PREVIOUSLY TESTED SECTIONS AND SECTION UNDER TEST.
10. FURNISH ALL LABOR AND ALL OTHER UTILITIES REQUIRED TO MAKE TESTS.
11. WHEN THE VARIOUS SYSTEMS ARE COMPLETED, RUN OPERATION TESTS TO DEMONSTRATE PROPER OPERATING CONDITIONS. RUN THESE TESTS UNDER THE OBSERVATION OF THE AUTHORITY HAVING JURISDICTION. OPERATE THE WATER SYSTEMS THROUGH ALL CYCLES OF OPERATION FOR THIS PERIOD OF 8 HOURS. PERFORM OPERATIONS TESTS UNDER ACTUAL SERVICE CONDITIONS.
12. SHOULD ANY PIECE OF EQUIPMENT, APPARATUS, MATERIAL, OR WORK FAIL IN ANY OF THESE TESTS, IMMEDIATELY REMOVE AND REPLACE BY PERFECT MATERIAL, AND RE-TEST THE PORTION OF THE WORK REPLACED.
13. AT COMPLETION OF THE TESTING AND ADJUSTING AND BEFORE DOMESTIC WATER SYSTEMS ARE PUT INTO USE, THEY SHALL BE STERILIZED BY A COMPANY NORMALLY ENGAGED IN THIS TYPE OF WORK, ALL IN ACCORDANCE WITH AWWA C651. UNTIL STERILIZATION OF THE WATER SYSTEM HAS BEEN MADE, PROVIDE SIGNAGE AT ALL WATER OUTLET LOCATIONS STATING THE WATER SYSTEM HAS NOT BEEN STERILIZED AND SHALL NOT BE USED FOR HUMAN CONSUMPTION. THIS SECTION SHALL FURNISH AND INSTALL ALL VALVES, OUTLETS, AND DEVICES REQUIRED BY THE STERILIZATION SUB-CONTRACTOR TO COMPLETE THE STERILIZATION WORK.
14. PROVE SIGNAGE FOR WATER OUTLETS WHICH ARE NOT STERILIZED, THEREBY NOT SUITABLE FOR HUMAN CONSUMPTION.

## GENERAL NOTES - PLUMBING

1. ALL PIPES, AND RELATED EQUIPMENT SHALL BE SUPPORTED AND BRACED PER THE 2016 CALIFORNIA BUILDING CODE.
2. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE OF APPROVED MATERIAL AS PRESCRIBED IN CALIFORNIA BUILDING CODE, SECTION 714.
3. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL SLAB PENETRATIONS TO MISS REBARS & STRUCTURE MEMBRANE, PRIOR TO BEGINNING WORK.
4. ROUTING OF PLUMBING PIPING SYSTEMS AND MECHANICAL SYSTEMS SHALL BE COORDINATED BY CONTRACTOR.
5. ALL CONDENSATE DRAIN SHALL BE COPPER TYPE M TUBING.
6. ALL NEW PIPING LAYOUT SHOWN ON FLOOR PLAN FOR REFERENCE. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OTHER TRADES TO DETERMINE THE FINAL LAYOUT.
7. ALL WORK SHOWN HERE IS FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR FINAL CONSTRUCTION REQUIREMENTS.
8. EQUIPMENT CAPACITIES SHOWN ARE MIN. ACCEPTABLE REQUIREMENTS.
9. CONTRACTOR TO INCLUDE UTILITY HOOK-UPS FOR ALL OWNER FURNISHED EQUIPMENT. SEE EQUIPMENT CUTSHEETS AND DATA FOR DETAILS.
10. CONTRACTOR SHALL FIELD-VERIFY LOCATION OF EXISTING UNDERGOUND SANITARY SEWER PIPING PRIOR TO BEGINNING WORK. VIDEO EXISTING UNDERGROUND WASTE PIPING AFTER OPENING TO VERIFY CONDITION. NOTIFY OWNER AND DESIGN TEAM FOR PIPES OR SYSTEMS THAT MAY HAVE ISSUES FOR NEW CONNECTIONS.
11. PROVIDE CEILING OR WALL ACCESS PANEL AT ALL VALVES, WATER HAMMER ARRESTERS, AND TRAP PRIMER LOCATIONS.

## FIRE PROTECTION GENERAL NOTES

1. PROJECT AREA SHALL BE FULLY PROTECTED BY AUTOMATIC FIRE SPRINKLERS IN ACCORDANCE WITH NFPA 13 AND LOCAL FIRE MARSHAL REQUIREMENTS. MECHANICAL ROOM AND CHEMICAL STORAGE SHALL BE CONSIDERED ORDINARY HAZARD (GROUP 2), WITH 0.2 GPM/SQ.FT. COVERAGE OVER MOST REMOTE 1500 SQ.FT. BATHROOMS, CHANGING ROOMS, STORAGE, AND OFFICE SHALL BE CONSIDERED ORDINARY HAZARD (GROUP 1), WITH 0.15 GPM/SQ.FT. OVER MOST REMOTE 1500 SQ.FT. FIRE MAINS ARE SHOWN ON PLAN FOR REFERENCE, AND THEY DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
2. BACKFLOW PREVENTER SHALL BE PROVIDED FOR FIRE PROTECTION SUPPLY.
3. FIRE SPRINKLER PIPING, HANGERS & SUPPORT SHALL BE IN ACCORDANCE WITH CALIFORNIA FIRE CODE AND NFPA 13.
4. INSTALLATION OF THE SPRINKLER SYSTEMS SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING HYDRAULIC CALCULATIONS AND WATER SUPPLY INFORMATION) HAVE BEEN APPROVED BY COUNTY FIRE MARSHAL. DRAWINGS AND CALCULATIONS SHALL BE STAMPED SIGNED BY A LICENSED C-16 FIRE PROTECTION CONTRACTOR.
5. PIPING PENETRATIONS THRU RATED ASSEMBLIES SHALL BE FIRE-STOPPED WITH UL FIRE RESISTANCE DIRECTORY LISTED MATERIAL/SYSTEM.
6. ALL PIPING SHALL BE SUPPORTED AND BRACED PER 2016 CBC FOR GUIDELINES OF SEISMIC RESTRAINTS FOR MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS. NUSIG. SPRINKLER PIPING SHALL BE SUPPORTED AND BRACING IN ACCORDANCE WITH NFPA 13.
7. FIRE SPRINKLER WORK SHALL BE A DEFERRED SUBMITTAL.
8. PIPE SIZES SHOWN ARE FOR REFERNCE ONLY. DESIGN-BUILD CONTRACTOR IS RESPONSIBLE FOR FINAL PIPE SIZING BASED ON HYDRAULIC CALCULATION PER NFPA 13 REQUIREMENTS.
9. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN THE MOST CURRENT WATER SUPPLY INFORMATION FROM THE OWNER.
10. CONTRACTOR SHALL INSTALL SPRINKLER SYSTEM TO BE CLEAR OF NEW AND EXISTING EQUIPMENT. ROUTE NEW EXPOSED SPINKLER PIPING TO BE CLEAR OF EXISTING LIGHTING FIXTURES, EXHAUST DIFFUSERS, AND OTHER EQUIPMENT/DEVICES. PROVIDE ADEQUATE CLEARANCE BETWEEN NEW SPRINKLER PIPING AND EXISTING LIGHT FIXTURES/EQUIPMENT/DEVICES FOR MAINTENANCE.
11. COORDINATE LAYOUT OF PIPING WITH OTHER TRADES.

## ABBREVIATIONS

| | |
|---|---|
| ADA | AMERICAN WITH DISABILITIES ACT |
| AFF | ABOVE FINISHED FLOOR |
| AP | ACCESS PANEL |
| BFP | BACKFLOW PREVENTER |
| BLDG | BUILDING |
| BWV | BACK WATER VALVE |
| CFH | CUBIC FEET PER HOUR |
| CD | CONDENSATE DRAIN |
| CONN | CONNECTION |
| CONT | CONTINUATION |
| CPC | CALIFORNIA PLUMBING CODE |
| DF | DRINKING FOUNTAIN |
| DFU | DRAINAGE FIXTURE UNIT |
| DIA/Ø | DIAMETER |
| DN | DOWN |
| DWG(S) | DRAWINGS |
| (E) | EXISTING |
| ELEC | ELECTRICAL/ELECTRIC |
| GAL(S) | GALLON(S) |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| HSB | HOSE SUPPLY BOX |
| HVAC | HEATING VENTILATION AND AIR CONDITION |
| IN | INCHES |
| LB(S) | POUND(S) |
| LV | LAVATORY |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MIN | MINIMUM |
| MSB | MOP SERVICE BASIN |
| (N) | NEW |
| NC | NORMALLY CLOSED |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| N.I.C. | NOT IN CONTRACT |
| NO | NORMALLY OPEN |
| PDI | PLUMBING AND DRAINAGE INSTITUTE |
| PSI(G) | POUNDS PER SQUARE INCH (GAUGE) |
| SQ. FT. | SQUARE FEET |
| SK | SINK |
| SPR | FIRE SPRINKLER |
| TP | TRAP PRIMER |
| TYP | TYPICAL |
| UL | UNDERWRITER LABORATORY |
| UON | UNLESS OTHERWISE NOTED |
| UR | URINAL |
| VB | VACUUM BREAKER |
| VTR | VENT TO ROOF |
| WC | WATER CLOSET |

## SYMBOL LEGEND

| | |
|---|---|
| SS | SANITARY SEWER (ABOVE FLOOR) |
| SS | SANITARY SEWER (BELOW FLOOR/GRADE) |
| SV | SANITARY VENT |
| RWL | RAIN WATER LEADER |
| SD | STORM DRAIN (ABOVE FLOOR) |
| SD | STORM DRAIN (BELOW FLOOR/GRADE) |
| DCW | DOMESTIC (POTABLE) COLD WATER |
| DHW | DOMESTIC (POTABLE) HOT WATER |
| DHWR | HOT WATER RETURN |
| | REMOVE EXISTING PIPING |
| F | FIRE MAIN |
| SP | SPRINKLER SUPPLY |
| | ISOLATION VALVE |
| | SEISMIC GAS SHUT OFF VALVE |
| | PLUG VALVE |
| | BALL VALVE |
| | THREE WAY MIXING VALVE |
| | BALANCING VALVE/CIRCUIT SETTER |
| | BUTTERFLY VALVE |
| | UNION |
| FM | FLOW METER |
| WM | WATER METER |
| | WYE STRAINER |
| | SHUT-OFF VALVE IN VERTICAL |
| | UP |
| | DEMO VERTICAL PIPE |
| | DOWN |
| | END CAP TEE |
| CO/WCO | CLEANOUT/WALL CLEANOUT |
| FCO/GCO | FLOOR CLEANOUT/GRADE CLEANOUT |
| FLEX | FLEX CONNECTION |
| PTRV | PRESSURE TEMPERATURE RELIEF VALVE |
| FD | FLOOR DRAIN |
| FS | FLOOR SINK |
| FUD | FUNNEL DRAIN |
| | TRAP PRIMER VALVE |
| 1 | SHEET NOTE DESIGNATION |
| (#) | CONNECT TO EXISTING (NUMBER OF POINTS) |
| (#) | DEMOLITION POINT (NUMBER OF POINTS) |
| | PRESSURE GAUGE |
| | TEMPERATURE GAUGE |
| | TEMPERATURE SWITCH |

## DRAWING INDEX


| | |
|---|---|
| P001 | SYMBOL LEGEND, NOTES, ABBREVIATIONS, DRAWING INDEX, SCHEDULES |
| P002 | PLUMBING SCHEDULES |
| P200 | PLUMBING UNDERGROUND PLAN |
| P201 | PLUMBING LEVEL 1 PLAN |
| P202 | PLUMBING ROOF PLAN |
| P501 | PLUMBING DETAILS |
| P502 | PLUMBING DETAILS |
| F201 | FIRE PROTECTION LEVEL 1 PLAN |


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**LEGEND, ABBREVIATIONS, GENERAL NOTES, DRAWING INDEX**

Sheet Number

**P001**

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## MISC. SCHEDULE

| SYMBOL | DESCRIPTION | MANUFACTURER & MODEL NO. | REMARKS |
|---|---|---|---|
| AP-1 | ACCESS PANEL | MIFAB UASS1212 | 12" BY 12" STAINLESS STEEL ACCESS PANEL. |
| FD-1 | FLOOR DRAIN | JAY R. SMITH 2005Y | 6" ROUND OR SQUARE BRONZE STRAINER HEAD. SELECT MODEL TO SUITE LOCATION. |
| FD-2 | | | |
| FD-3 | LINEAR FLOOR DRAIN (INDOOR) | ZURN Z884-HPP | ZURN LINEAR FLOOR DRAIN WITH HEEL-PROOF POLYETHYLENE GRATE. |
| FD-4 | LINEAR FLOORD DRAIN (OUTDOOR) | ZURN Z886-HPP | ZURN LINEAR FLOOR DRAIN WITH HEEL-PROOF POLYETHYLENE GRATE. |
| FS-1 | FLOOR SINK | ZURN Z1900 | 12" SQUARE AND 6" SUMP DEPTH. CAST IRON BODY W/ WHITE PORCELAIN ENAMEL INTERIOR & TOP. COMPLETE W/ TOP GRATE & INTERIOR DOME STRAINER |
| FCO | FLOOR CLEANOUT | ZURN Z1440 | BRONZE THREADED PLUG. |
| HB-1 | HOSE BIBB | CHICAGO FAUCET 387-E27CP | CHROME PLATE FINISH WITH VACUUM BREAKER, LOOSE KEY HANDLE, AND ¾" HOSE END. |
| TP-1 | TRAP PRIMER | AMERICAN STANDARD 6065.830.002 | FLUSH-ACTIVATED TRAP PRIMER FOR USE WITH TOP-SPUD TOILET FLUSH VALVES. |
| TP-2 | TRAP PRIMER | MIFAB M2-500-NPB | PRESSURE-DROP ACTIVATED TRAP PRIMER. MIN 3 PSI DROP FOR ACTIVATION. |
| TP-3 | TRAP PRIMER | ZURN Z1020-CW | ELECTRIC TRAP PRIMER, 5 OUTLETS, ½" FEMALE I.P.S CONNECTION. |
| WCO | WALL CLEAN OUT | ZURN Z1446 | ROUND STAINLESS STEEL ACCESS COVER AND PLUG |
| WHA-1 | WATER HAMMER ARRESTER | ZURN 1700 SERIES | |

## PLUMBING EQUIPMENT SCHEDULE

| SYMBOL | DESCRIPTION | MANUFACTURER & MODEL NO. | ELECTRICAL | | | REMARKS |
|---|---|---|---|---|---|---|
| | | | VOLTS | PHASE | POWER (kW) | |
| WH-1 | GAS WATER HEATER | AO SMITH CYCLONE BTH-400A | - | - | - | GAS-FIRED WATER HEATER, 119 GALLON STORAGE, 400,000 BTU/HR, 499 GAL RECOVERY AT 70°F RISE. |
| ET-1 | EXPANSION TANK | WESSEL TTA-5 | - | - | - | 3 GALLON TANK, 2.3 GALLON ACCEPTANCE VOLUME. |
| CP-1 | CIRCULATING PUMP | BELL & GOSSETT NBF-36 | 120 | 1 | 0.270 | LEAD-FREE BRONZE CIRCULATOR W/ FACTORY AUTOMATIC TIMER, AQUASTAT, AND CHECK-TROL FLOW CONTROL, FLANGED. |

## PLUMBING FIXTURE SCHEDULE

| FIXTURE TAG | FIXTURE TYPE | SS | SV | DHW | DCW | SPECIFICATIONS |
|---|---|---|---|---|---|---|
| DF-1 | DRINKING FOUNTAIN W/ BOTTLE FILLER | 2" | 1½" | - | ½" | ELKAY LK4430BFIL OUTDOOR TUBULAR TRI-PEDESTAL DRINKING FOUNTAIN W/ BOTTLE FILLER. 316 STAINLESS STEEL CONSTRUCTION, LAMINAR FLOW, HEAVY DUTY VANDAL RESISTANT. GRAY FINISH. |
| DF-2 | DRINKING FOUNTAIN | 2" | 1½" | - | ½" | ELKAY EHWM17C, VANDAL RESISTANT DRINKING FOUNTAIN WITH DUAL HIGH-LOW LEVELS. 14-GAUGE TYPE 304 STAINLESS STEEL CONSTRUCTION. LEAD-FREE, NON-FILTERED, NON-REFRIGERATED. |
| LV-1H | LAVATORY (ADA) | 2" | 1½" | ½" | ½" | -AMERICAN STANDARED 0630.000 "ORBIT" UNDER MOUNT SINK, WHITE VITREOUS CHINA.<br>-AMERICAN STANDARD 2064V05.101.002, SINGLE-HOLE SINGLE-CONTROL LAVATORY FAUCET, POLISHED CHROME FINSIH, MODIFIED WITH 0.5 GPM VANDAL RESISTANT AERATOR.<br>-McGUIRE 115WC, OFFSET WASTE AND GRID STRAINER, 17 GA. P-TRAP WITH CLEANOUT PLUG, KOHLER OR BRASSCRAFT LEAD FREE ANGLE STOP VALVE WITH LOOSE KEYS AND RIGID RISERS. INSULATE HOT, COLD, AND WASTE WITH PIPE COVER. |
| LV-2H | LAVATORY (ADA) | 2" | 1½" | ½" | ½" | -AMERICAN STANDARD "LUCERNE" 0356.421 WALL HUNG LAVATORY, SINGLE FAUCET HOLE, WHITE VITREOUS CHINA.<br>-AMERICAN STANDARD 2064V05.101.002, SINGLE-HOLE SINGLE CONTROL LAVATORY FAUCET, POLISHED CHROME FINISH, MODIFIED WITH 0.5 GPM VANDAL RESISTANT AERATOR.<br>-McGUIRE 155WC, OFFSET WASTE AND GRID STRAINER, 17 GA. P-TRAP WITH CLEAN-OUT PLUG, KOHLER OR BRASSCRAFT LEAD FREE ANGLE STOP VALVES WITH LOOSE KEYS AND RIGID RISERS. INSULATE HOT, COLD AND WASTE WITH PIPE COVER. |
| MS-1 | MOP SINK | 3" | 2" | ½" | ½" | -FLORESTONE MSR-2424 MOP SERVICE BASIN<br>-MOEN M-DURA 8124 FAUCET.<br>-FLORESTONE MR-370 HOSE & BRACKET, MR-372 MOP HANGER, & MR-373 BUMPERGUARD.<br>-FLORESTONE MR-377 24" SPLASH PANEL. |
| WC-1<br>WC-1H | WATER CLOSET (ADA) | 4" | 2" | - | 1" | AMERICAN STANDARD 2856.128, ADA COMPLIANT WALL MOUNTED WATER CLOSET WITH FACTORY EVERCLEAN MANUAL FLUSH VALVE, 1.28 GPF. BEMIS 1655CT ELONGATED TOILET SEAT WITH OPEN FRONT END. |
| UR-1 | URINAL | 2" | 1½" | - | 1" | AMERICAN STANDARD 6590.503, 0.125 GPF EXPOSED TOP SPUD URINAL AND MANUAL PISTON-TYPE URINAL FLUSH VALVE. |
| SH-1H | SHOWER (ADA) | 2" | 2" | ½" | ½" | -BRADLEY CORP HN300 ADA COMPLIANT IN-WALL SHOWER, WITH EF EQUAF-FLO PRESSURE BALANCING VALVE, S15 STANDARD 1.5 GPM SHOWERHEAD, AKV ALLEN KEY VOLUME CONTROL, LBJ LOCKABLE BALL JOINT, B30 60" FLEXIBLE HOSE WITH 30" SLIDE BAR. |
| SH-2 | SHOWER | 2" | 2" | ½" | ½" | -BRADLEY CORP S24-178WE15 1.5GPM DELUXE SHOWERHEAD, WITH AKV ALLEN KEY VOLUME CONTROL, AND LBJ LOCKABLE BALL JOINT.<br>-BRADLEY CORP S59-1000 EQUA-FLO PRESSURE BALANCING VALVE, FIXED 1.5 GPM FLOW, ADJUSTABLE TEMPERATURE. |
| SH-3 | SHOWER | 2" | 1½" | ½" | ½" | -BRADLEY CORP S24-038WE15 STANDARD INSTITUTIONAL WALL ARM, 1.5 GPM.<br>- BRADLEY CORP 50B METERING SHOWER VALVE. |

NOTES:

1. INSTALL FIXTURES TO COMPLY WITH ADA REQUIREMENTS COMPLY WITH ADA REQUIREMENTS.

## PIPE SCHEDULE

| SYSTEM | SYMBOL | SIZE | PIPE | FITTINGS | JOINTS | INSULATION |
|---|---|---|---|---|---|---|
| SANITARY WASTE | SS | ALL | STANDARD WEIGHT CAST IRON ASTM A-888 | STANDARD WEIGHT CAST ASTM C-1540 | HUSKY SD 4000 | - |
| SANITARY VENT | SV | ALL | STANDARD WEIGHT CAST IRON ASTM A-888 | STANDARD WEIGHT CAST IRON ASTM C-1540 | HUSKY SD 4000 | - |
| DOMESTIC COLD WATER | DCW | 2" AND SMALLER | TYPE L HARD DRAWN COPPER ASTM B88 | WROUGHT COPPER ANSI B16.22 | 95-5 SOLDER ASTM B-32 | - |
| DOMESTIC HOT WATER | DHW | 1½" AND SMALLER | TYPE L HARD DRAWN COPPER ASTM B88 | WROUGHT COPPER ANSI B16.22 | 95-5 SOLDER ASTM B-32 | ARMAFLEX FIBERGLASS INSULATION |
| NATURAL GAS (ABOVE GROUND) | NG | ALL | SCHEDULE 40 BLACK STEEL ASTM- A-53 | MALLEABLE IRON THREADED FITTINGS ANSI B16.3 | THREADED | - |


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**PLUMBING SCHEDULES**

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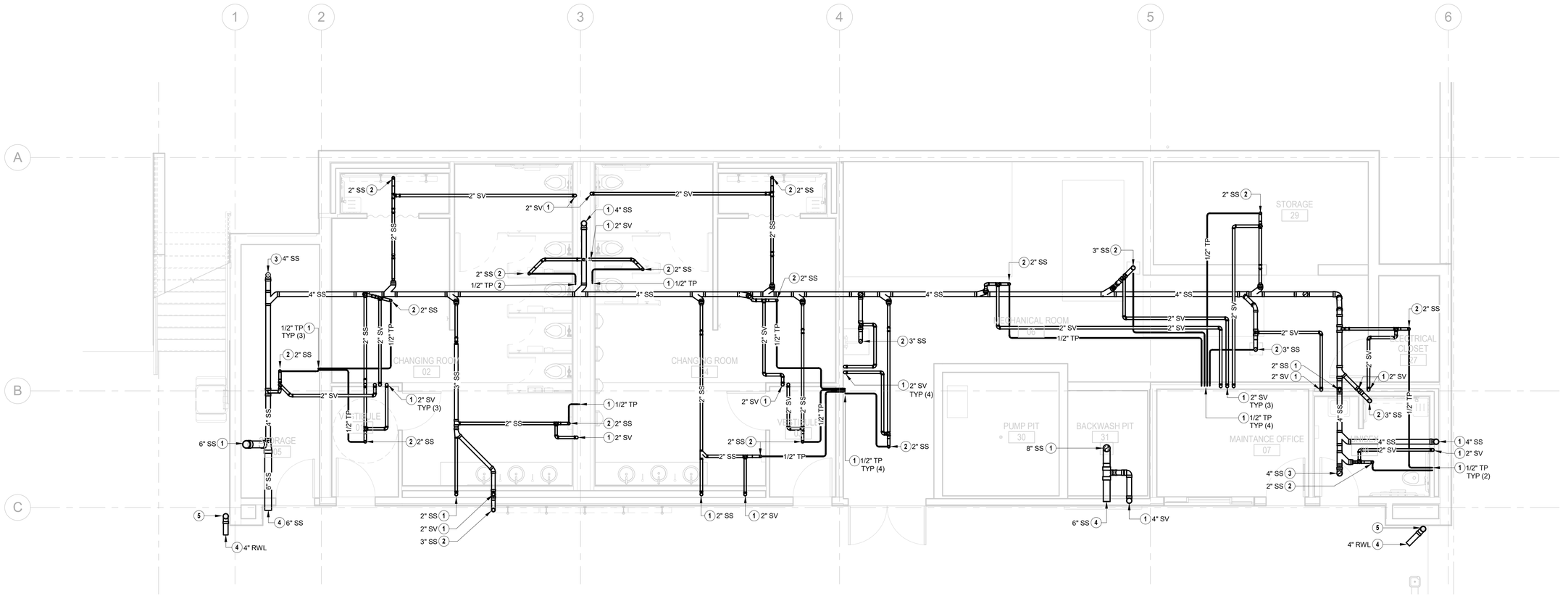
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2
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A
B
C
CHANGING ROOM
02
CHANGING ROOM
04
MECHANICAL ROOM
01
STORAGE
29
STORAGE
05
PUMP PIT
30
BACKWASH PIT
31
MAINTANCE OFFICE
07
ELECTRICAL CLOSET
27
2" SS
2" SV
4" SS
3" SS
1/2" TP
6" SS
4" RWL
8" SS
4" SV
1/2" TP TYP (3)
2" SV TYP (3)
2" SV TYP (4)
1/2" TP TYP (4)
1/2" TP TYP (2)
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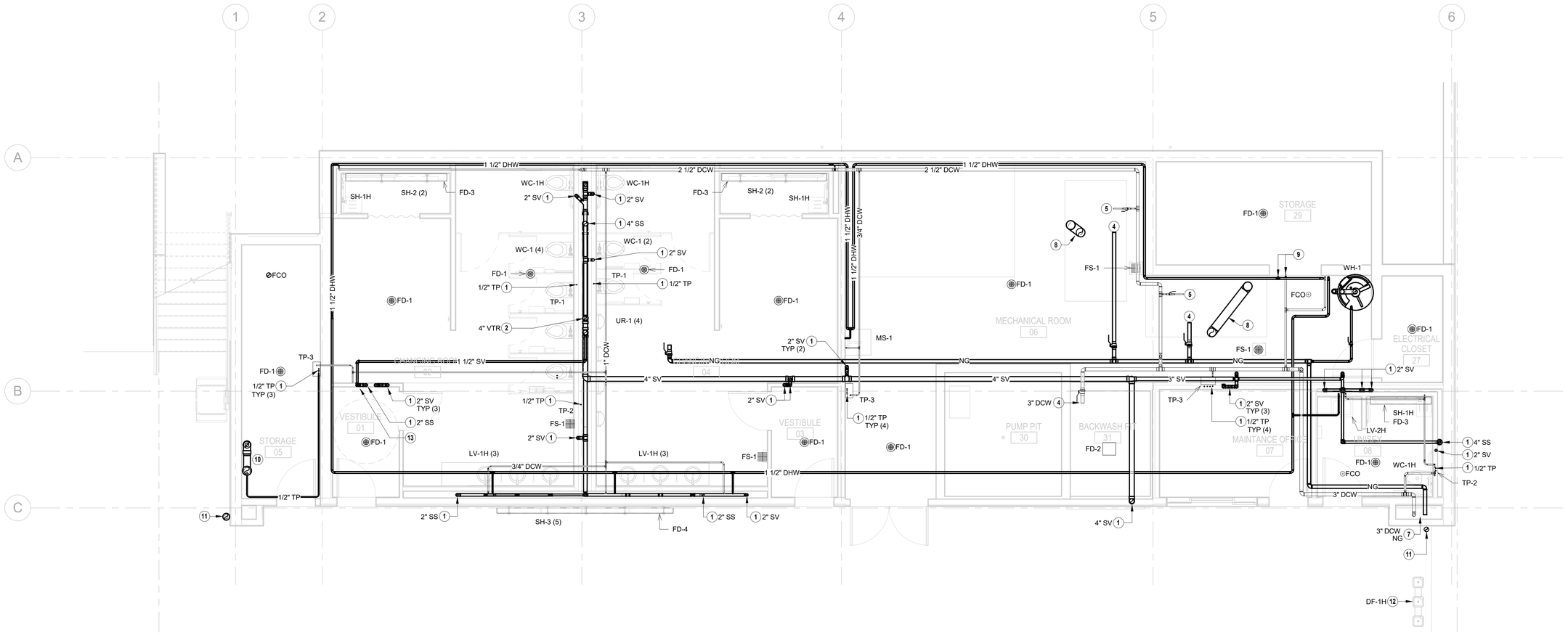


1 LEVEL 1 - FLOOR PLAN
1/4" = 1'-0"

## SHEET NOTES:

1. PIPING DOWN THROUGH SLAB
2. PIPING UP TO ROOF
3. 2" SS AND 1/2" DCW TO DF ON ROOF DECK. EXTEND 1-1/2"SV FROM DF TO MAIN 4"VTR.
4. NG MAKEUP FOR POOL HEATERS. SEE POOL PLAN DRAWINGS.
5. 3/4" DCW MAKEUP FOR POOL HEATERS. SEE POOL PLAN DRAWINGS.
6. DCW MAKEUP FOR FILLER LINE. SEE POOL PLAN DRAWINGS.
7. NG MAKEUP FOR MECH EQUIPMENT. SEE MECHANICAL DRAWINGS.
8. 8" EXHAUST FROM POOL HEATERS TO ROOF. SEE POOL PLAN DRAWINGS.
9. 3/4" DCW & DHW UP TO ES/EW IN CHEMICAL STORAGE ROOM.
10. STANDPIPE DRAIN FOR FIRE RISER. SEE DETAIL --/---.
11. DOWNSPOUT BOOT. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR COORDINATION. SEE DETAIL 3/P502.
12. SEE CIVIL DRAWINGS FOR UTILITY CONNECTIONS.

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**PLUMIBING LEVEL 1 PLAN**

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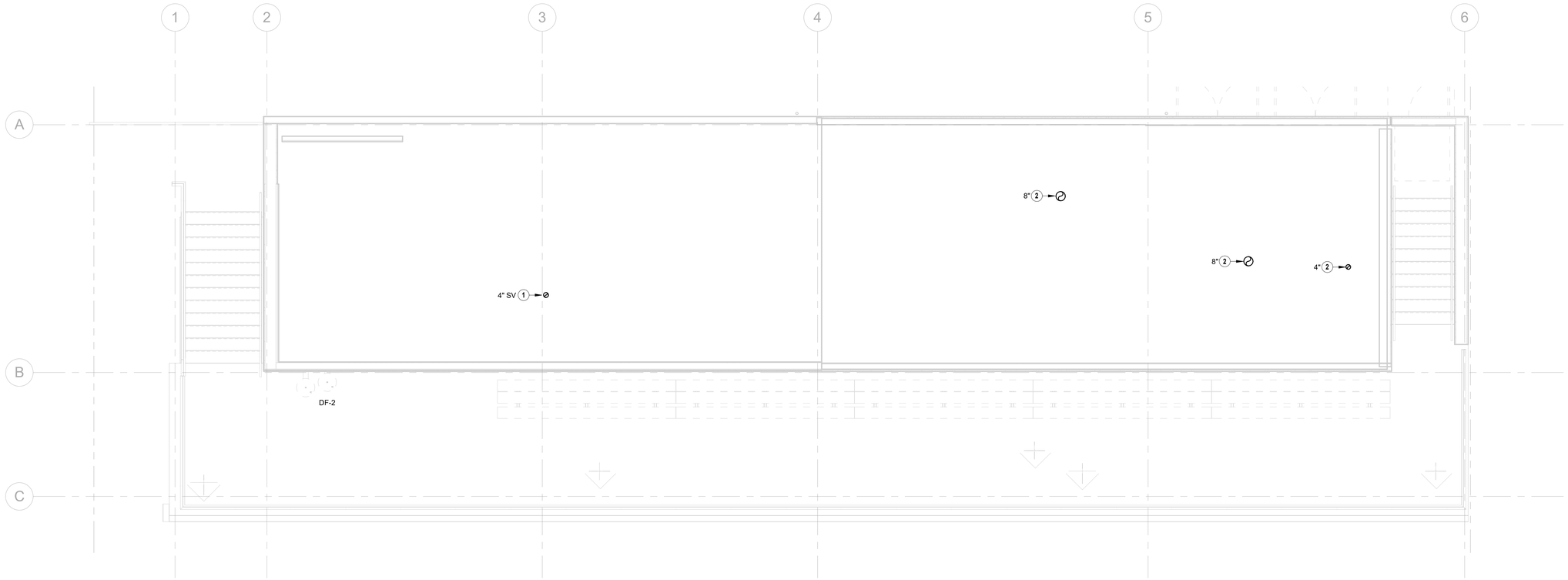


1 ROOF PLAN
1/4" = 1'-0"

**SHEET NOTES:**

1. VENT THROUGH ROOF.
2. EXHAUST PIPING THROUGH ROOF.


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**PLUMBING ROOF PLAN**

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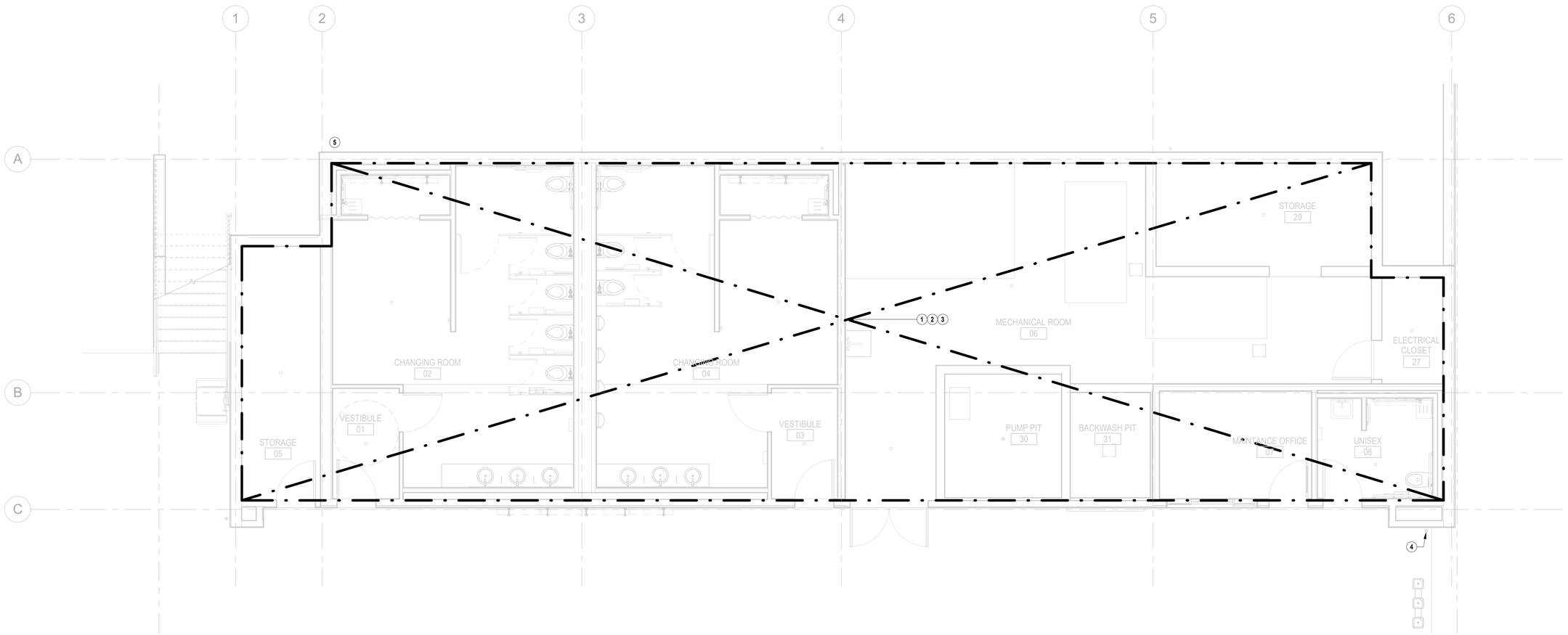


1 LEVEL 1 - Fire PROTECTION PLAN
1/4" = 1'-0"

## SHEET NOTES:

1. DESIGN AND PROVIDE NEW FIRE SPRINKLE PIPING TO SUIT NEW CONSTRUCTION LAYOUT. PROVIDE NEW SPRINKLER PIPING THROUGHOUT COVERAGE AREA. COORDINATE WITH OTHER TRADES.
2. PROVIDE NEW SPIRNKLER HEADS THROUGHOUT COVERAGE AREA IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF NFPA-13.
3. PROVIDE UP-RIGHT SPRINKLER HEADS IN ROOMS WITH NO CEILING.
4. 6" FIRE WATER CONNECTION. SEE CIVIL DRAWINGS FOR CONTINUATION.
5. STANDPIPE CONNECTION.

## GENERAL NOTES:

1. PROJECT AREA SHALL BE FULLY PROTECTED BY AUTOMATIC FIRE SPRINKLERS IN ACCORDANCE WITH NFPA 13 AND LOCAL FIRE MARSHAL REQUIREMENTS.
2. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND FINALIZE FIRE PROTECTION SHOP DRAWINGS WITH OTHER TRADES. PROVIDE (N) SPIRNKLER HEADS AS REQUIRED TO COMPLY WITH TEH CURRENT NFPA COMPLIANCE.
3. FIRE SPRINKLER PIPING, HANGERS, AND SUPPORT SHALL BE IN ACCORDANCE WITH CALFORNIA FIRE CODE AND NFPA 13.
4. INSTALLATION OF THE SPRINKLER SYSTEMS SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING HYDRAULIC CALCULATIONS AND WATER SUPPLY INFORMATION) HAVE BEEN APPROVED BY COUNTY FIRE MARSHAL. DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY A LICENSED C-16 FIRE PROTECTION CONTRACTOR.
5. PIPING PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRE-STOPPED WITH UL FIRE RESISTANCE DIRECTORY LSITED MATERIAL/SYSTEM.
6. ALL PIPING SHALL BE SUPPORTED AND BRACED PER 2016 CBC FOR GUIDLINES OF SEISMIC RESTRAINTS FOR MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS. SPRINKLER PIPING SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH NFPA 13.
7. FIRE SPRINKLER WORK SHALL BE A DEFERRED SUBMITTAL.
8. LICENSED IN CA FIRE PROTECTION CONTRACTOR SHALL PERFORM ALL DESIGNS, PROVIDE ALL MATERIALS AND LABORS TO INSTALL NEW FIRE PROTECTION SYSTEM.
9. PIPE SIZES SHOWN FOR REFERENCE ONLY. DESIGN BUILD CONTRACTOR IS RESPONSIBLE FOR FINAL PIPE SIZING BASED ON HYDRAULIC CALCULATION PER NFPA 13 REQUIREMENTS.
10. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN THE MOST CURRENT WATER SUPPLY INFORMATION FROM THE OWNER.
11. CONTRACTOR SHALL INSTALL SPRINKLER SYSTEM TO BE CLEAR OF NEW EQUIPMENT. ROUTE NEW EXPOSED SPRINKLER PIPING TO BE CLEAR OF LIGHTING FIXTURES, EXHAUST DIFFUSERS, AND OTHER EQUIPMENT/DEVICES. PROVIDE ADEQUATE CLEARANCE BETWEEN NEW SPIRNKLER PIPING AND LIGHT FIXTURES/EQUIPMENT/DEVICES FOR MAINTENANCE.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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**FIRE PROTECTION - LEVEL 1 PLAN**

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## ABBREVIATIONS

| | |
|---|---|
| A | AMPERES |
| AFF | ABOVE FINISHED FLOOR |
| BCS | BUILDING COMMUNICATION SYSTEM |
| C | CONDUIT |
| CATV | CABLE TV |
| CO | CONDUIT ONLY |
| DWG | DRAWING |
| (E) | EXISTING TO REMAIN |
| FACP | FIRE ALARM CONTROL PANEL |
| FATC | FIRE ALARM TERMINAL CABINET |
| G | GROUND |
| GRD | GROUND |
| MPOE | MINIMUM POINT OF ENTRY |
| (N) | NEW |
| NL | NIGHT LIGHT |
| ϕ, PH | PHASE |
| (R) | EXISTING TO BE REMOVED |
| (RL) | RELOCATED |
| (RR) | EXISTING TO BE REMOVED AND RELOCATED |
| (SAD) | SEE ARCHITECTURAL DRAWINGS |
| (SSD) | SEE STRUCTURAL DRAWINGS |
| TSP | TWISTED SHIELDED PAIR |
| TYP | TYPICAL |
| UTP | UNTWISTED PAIR |
| UON | UNLESS OTHERWISE NOTED |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |

## GENERAL NOTES

1. PROVIDE CIRCUIT DIRECTORY IN ALL NEW PANELS TO REFLECT THE NEW CONDITION. DIRECTORY SHALL BE TYPEWRITTEN.
2. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT, PROVIDED BY OTHER TRADES PRIOR TO ROUGHING-IN.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT OF ALL PENDANT MOUNTED FIXTURES WIRING DEVICES.
4. CONDUITS AND LIGHTING FIXTURES SHALL NOT BE MOUNTED TO BUS DUCTS, VENT DUCTS OR CABLE RACKS. UNISTRUT P-1000 SHALL BE SUSPENDED BELOW OR TIGHT TO BOTTOM OF DUCT WITH 3/8" THREADED STEEL RODS HUNG FROM STRUCTURE ABOVE. DO NOT SUPPORT CONDUITS AND LIGHTING FIXTURES WITH SUSPENDED CEILING SUPPORT SYSTEM.
5. ALL CONDUITS THRU WALL AND FLOOR SHALL BE SEALED AROUND CONDUIT OPENING TO MAINTAIN FIRE RATING. FIREPROOFING SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF UL FIRE RESISTANCE DIRECTORY, VOLUME 2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED PARTITIONS.
6. PROVIDE SEPARATE GROUND WIRE IN ALL CONDUITS. SIZE AND CONNECT GROUND WIRE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND CALIFORNIA ELECTRICAL CODE.
7. ALL CONDUIT STUB OUTS MUST BE TERMINATED WITH GROUNDING BUSHINGS. PROVIDE PULL WIRES IN ALL EMPTY CONDUITS.
8. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR ALL 120V AND 277V CIRCUITS.
9. PROVIDE UNISTRUT SUPPORT AS REQUIRED FOR MOUNTING OF ELECTRICAL EQUIPMENT/DEVICES WHERE THERE IS NO WALL IN CLOSE PROXIMITY. DO NOT MOUNT EQUIPMENT/DEVICES ON EQUIPMENT BY OTHER TRADES WITHOUT APPROVAL.
10. ALL NEW WIRING DEVICES SHALL BE FLUSH MOUNTED AND ALL NEW CONDUITS SHALL BE CONCEALED IN CEILING/WALLS, UNLESS OTHERWISE NOTED.
11. CONDUITS (BOTH INTERIOR AND EXTERIOR) SHALL BE CONCEALED WHEREVER POSSIBLE. USAGE AND LOCATION OF EXPOSED CONDUITS MUST BE APPROVED BY ARCHITECT PRIOR TO ROUGH-IN. ALL EXPOSED CONDUITS SHALL BE PAINTED TO MATCH ADJACENT SURFACE. (SAD).
12. ALL VERTICALLY INSTALLED RECEPTACLES SHALL HAVE THE GROUND IN UP POSITION.
13. UNLESS OTHERWISE NOTED ON PLAN, PROVIDE THE FOLLOWING FOR ALL 20A CIRCUITS.
    - #12 CONDUCTORS FOR LENGTH LESS THAN 100'-0".
    - #10 CONDUCTORS FOR LENGTH UP TO 200'-0".
    - #8 CONDUCTORS FOR LENGTH MORE THAN 200'-0".

## DRAWING INDEX


ELECTRICAL

| | |
|---|---|
| E001 | SYMBOL LEGEND, GENERAL NOTES, ABBREVIATIONS, DRAWING INDEX |
| E002 | SINGLE LINE DIAGRAM, SCHEDULES |
| E003 | EXTERIOR PHOTOMETRIC |
| E100 | SITE PLAN – DEMOLITION |
| E200 | SITE PLAN – NEW |
| E201 | GROUND LEVEL PLANS – LIGHTING, POWER & SIGNAL |
| E202 | ROOF DECK PLAN – LIGHTING, POWER & SIGNAL |
| E301 | LIGHT FIXTURE SCHEDULE |


## SYMBOL LEGEND

| | |
|---|---|
| J | JUNCTION BOX, WALL MOUNTED, HEIGHT AS REQUIRED. |
| J | JUNCTION BOX, CEILING MOUNTED. |
| | TELE/DATA OUTLET, +18"AFF. PROVIDE 4"x4" BACK BOX WITH 1" EMPTY CONDUIT TO PULL BOX. |
| F | FIRE ALARM MANUAL PULL STATION, +48"AFF. |
| F | FIRE ALARM HORN/STROBE DEVICE, +80"AFF. |
| S | FIRE ALARM STROBE LIGHT, +80"AFF. |
| F | FIRE ALARM EXTERIOR HORN, +96" ABOVE FINISHED GRADE. |
| SD | FIRE ALARM SMOKE DETECTOR. |
| R | FIRE ALARM RELAY MODULE. |
| 1 | SHEET NOTE TAG. |
| FCU 01 | MECHANICAL EQUIPMENT TAG. SEE MECHANICAL DRAWINGS FOR DESCRIPTION. |
| L1 | LIGHTING FIXTURE TAG. SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION. |
| 1 / E4.01 | DETAIL AND DIAGRAM TAG. |
| A-2,4,6 | INDIVIDUAL CONDUIT HOMERUN TO PANEL OR EQUIPMENT WITH DESTINATION AS SHOWN. SEE GENERAL NOTES THIS SHEET FOR REQUIREMENT FOR NEUTRAL AND GROUND CONDUCTORS. A-2,4,6 = PANEL A DESTINATION, CIRCUIT #2, 4 & 6 (THREE 1-POLE CIRCUITS) A-2/4/6 = (ONE 3-POLE CIRCUIT) |
| | CONDUIT AND WIRING CONCEALED IN CEILING OR WALLS. |
| | UNDERGROUND CONDUIT AND WIRING. |
| | CONDUIT AND WIRING TURNING DOWN. |
| | CONDUIT AND WIRING TURNING UP. |
| | CONDUIT AND WIRING CONTINUATION. |
| | CAPPED CONDUIT OR CONDUIT STUB. |
| | CONNECTION TO EQUIPMENT. |
| | PANELBOARD, SURFACE MOUNTED, FLUSH MOUNTED RESPECTIVELY. +6'-6" TO TOP OF PANEL. |
| | MOLDED CASE CIRCUIT BREAKER. |
| M | MOTOR, COMPLETE WITH POWER, CONTROL AND GROUND CONNECTION. |
| WP | FUSED DISCONNECT SWITCH, HORSEPOWER RATED FOR MOTOR LOAD, VOLTAGE RATING AS REQUIRED BY LOAD. 30A/3P WITH (3) 15A FUSES, UON. "WP" INDICATES NEMA 3R ENCLOSURE. |
| WP | NON-FUSED DISCONNECT SWITCH, HORSEPOWER RATED FOR MOTOR LOAD, VOLTAGE RATING AS REQUIRED BY LOAD. 30A/3P, UON. "WP" INDICATES NEMA 3R ENCLOSURE. |
| WP | COMBINATION CIRCUIT BREAKER MOTOR STARTER WITH H-O-A SWITCH. "WP" INDICATES NEMA 3R ENCLOSURE. |
| $T | MANUAL MOTOR STARTER, TOGGLE TYPE WITH OVERLOAD PROTECTION, MOUNT ADJACENT TO EQUIPMENT. |
| 2a EM | CEILING MOUNTED LIGHT FIXTURE. |
| | CEILING MOUNTED LIGHT FIXTURE. |
| | CEILING MOUNTED LIGHT FIXTURE. |
| | WALL MOUNTED LIGHT FIXTURE. |
| | WALL MOUNTED LIGHT FIXTURE. |
| | POLE MOUNTED LIGHT FIXTURE. |
| | POLE MOUNTED LIGHT FIXTURE. |
| | EXIT SIGN WITH DIRECTIONAL ARROW AS INDICATED. SHADED AREA INDICATES FACE OF EXIT SIGN. WALL, CEILING MOUNTED RESPECTIVELY. |
| $a | SINGLE POLE WALL SWITCH, +45" AFF. "a" = CIRCUIT OR OUTLET CONTROLLED. |
| $K | SINGLE POLE KEYED SWITCH, +45" AFF. |
| $D | DIMMER SWITCH, +45" AFF. |
| OC | CEILING MOUNTED OCCUPANCY SENSOR |
| $M | WALL MOUNTED OCCUPANCY SENSOR WITH INTEGRAL OVERRIDE SWITCHES, +45" AFF. |

LIGHTING NOTES:
- LOWER CASE LETTER ("a", "b", ETC.) SHOWN ADJACENT TO FIXTURES OR SWITCHES INDICATES SWITCHING ARRANGEMENT.
- NUMBER ("2", "3", ETC.) SHOWN ADJACENT TO FIXTURE INDICATES CIRCUIT NUMBER.
- FIXTURES WITH HATCHING OR DENOTED WITH "EM" INDICATES WITH INTEGRAL EMERGENCY BATTERY PACK.

| | |
|---|---|
| 2 WP C G | WALL MOUNTED DUPLEX RECEPTACLE, 20A, 125V, 2P, 3WG, +18"AFF. |
| | WALL MOUNTED DUPLEX RECEPTACLE WITH UPPER OUTLET CONTROLLED BY OCCUPANCY SENSOR. |
| | WALL MOUNTED FOURPLEX RECEPTACLE. |
| | WALL MOUNTED FOURPLEX RECEPTACLE WITH ONE OUTLET CONTROLLED BY OCCUPANCY SENSOR. |

RECEPTACLE NOTES:
ALL RECEPTACLES SHALL BE 20A, 125V, 2P, 3WG AND MOUNTED +15"AFF TO BOTTOM OF BOX, UON. SUBSCRIPT ADJACENT TO RECEPTACLE SYMBOL INDICATES:
- WP = WEATHERPROOF WITH IN-USE TYPE COVER
- G = WITH GROUND FAULT CIRCUIT INTERRUPTER
- 2 = "NUMBER" INDICATES CIRCUIT NUMBER
- C = ABOVE COUNTER/BACKSPLASH


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Sheet Title

**SYMBOL LEGEND, GENERAL NOTES, ABBREVIATIONS, DRAWING INDEX**

Sheet Number

**E001**

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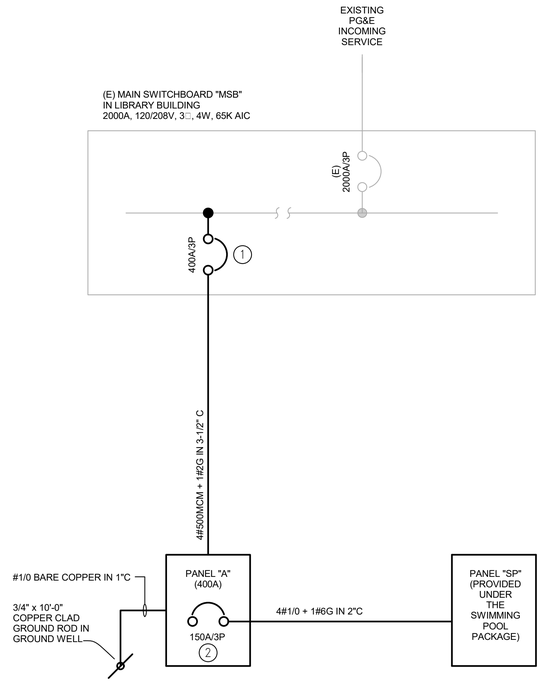
# A

VOLTS: 120/208 Wye, 3Ø, 4W
MAIN: 100 A / 3P CB
INT. CAP. : 10,000
LOCATION: ELECTRICAL CLOSET 27
FEEDER: SEE SINGLE LINE DIAGRAM
BUSSING: 225 A
MOUNTED: SURFACE

| SERVICE | LTG kVA | REC kVA | MTR kVA | MISC kVA | CB A | CB P | CKT | S/N | CKT | CB P | CB A | MISC kVA | MTR kVA | REC kVA | LTG kVA | SERVICE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPARE | | | | | 20 | 1 | 1 | | 2 | 1 | 20 | | | | | SPARE |
| SPARE | | | | | 20 | 1 | 3 | | 4 | 1 | 20 | | | | | SPARE |
| SPARE | | | | | 20 | 1 | 5 | | 6 | 1 | 20 | | | | | SPARE |
| SPARE | | | | | 20 | 1 | 7 | | 8 | 1 | 20 | | | | | SPARE |
| SPARE | | | | | 20 | 1 | 9 | | 10 | 1 | 20 | | | | | SPARE |
| SPARE | | | | | 20 | 1 | 11 | | 12 | 1 | 20 | | | | | SPARE |
| SPARE | | | | | 20 | 1 | 13 | | 14 | 1 | 20 | | | | | SPARE |
| SPARE | | | | | 20 | 1 | 15 | | 16 | 1 | 20 | | | | | SPARE |
| SPARE | | | | | 20 | 1 | 17 | | 18 | 1 | 20 | | | | | SPARE |
| SPARE | | | | | 20 | 1 | 19 | | 20 | 1 | 20 | | | | | SPARE |
| SPACE | | | | | -- | -- | 21 | | 22 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 23 | | 24 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 25 | | 26 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 27 | | 28 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 29 | | 30 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 31 | | 32 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 33 | | 34 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 35 | | 36 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 37 | | 38 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 39 | | 40 | -- | -- | | | | | SPACE |
| SPACE | | | | | -- | -- | 41 | | 42 | -- | -- | | | | | SPACE |
| | | | | | | | | | | | | | | | | TOTAL |

| LOAD... | CONNECTED LOAD | DEMAND FACTOR | ESTIMATED DEMAND | PANEL TOTALS | | | |
|---|---|---|---|---|---|---|---|
| | | | | ØA : | 0.00 kVA | = | 0.0 A |
| | | | | ØB : | 0.00 kVA | = | 0.0 A |
| | | | | ØC : | 0.00 kVA | = | 0.0 A |
| | | | | CALCULATED DEMAND = | 0.00 kVA | = | 0.0 A |
| | | | | TOTAL WITH 25% SPARE = | 0 VA | = | 0 A |

MINIMUM FEEDER SIZE : FIRST 10KVA REC@100%+50% REMAINDER REC+125% LTG+100% MTR+25% LARGEST MTR+100% MISC




LEGEND

INDICATES EXISTING TO REMAIN

INDICATES NEW, UNLESS OTHERWISE NOTED

1 - **PARTIAL SINGLE LINE DIAGRAM**
NOT SCALE

## SHEET NOTES:

1. PROVIDE NEW BREAKER AT AVAILABLE SPACE, TYPE AND AIC RATING TO MATCH EXISTING.
2. PROVIDE BREAKER WITH GFCI PROTECTION.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Sheet Title
**SINGLE LINE DIAGRAM, SCHEDULES**

Sheet Number
**E002**

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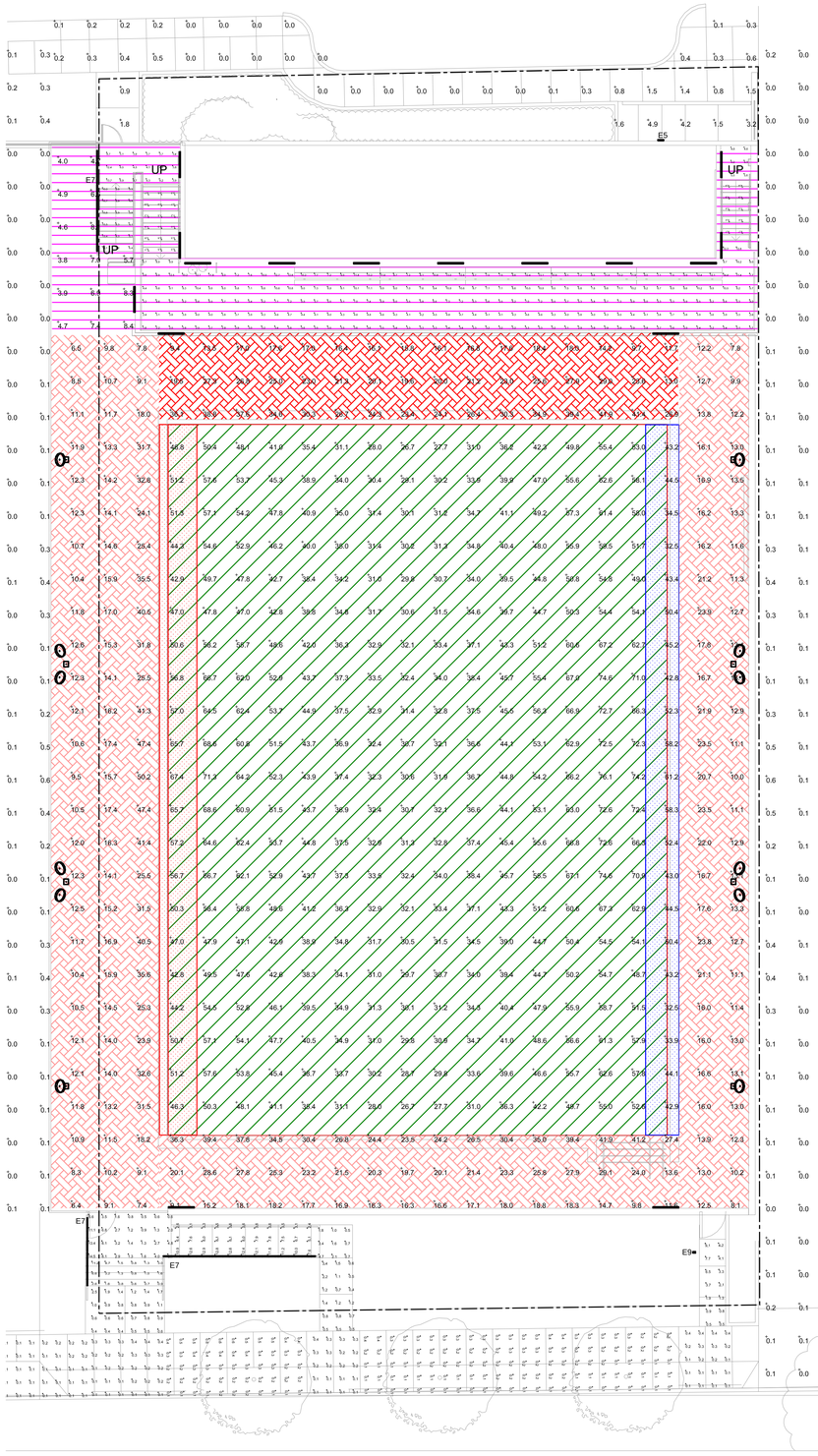


| LUMINAIRE SCHEDULE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Symbol | Qty | Label | Description | Lum. Watts | Lum. Lumens | LLD | LDD | UDF | LLF | Filename |
| | 4 | E5 | BEGA - 24374 | 15 | 1078 | 0.944 | 0.900 | 1.000 | 0.850 | 24374.ies |
| | 51 | E7 | WAGNER - LULS40K20120MS-12 | 1.8 | 132 | 0.944 | 0.900 | 1.000 | 0.850 | LULS40K20120MS-12.IES |
| | | | | | | | | | | |
| | 1 | E9 | BEGA - 88659 | 10 | 548 | 0.944 | 0.900 | 1.000 | 0.850 | 88659.IES |

| FIXTURE SYMBOL | FIXTURE INFORMATION |
|---|---|
| | LX1 - ALIGHT - ACL8 - POOL DECK AND OBSERVATION DECK - MOUNTED NEAR TOP OF WALL |
| | LX2 - HUBBELL - INTERCEPTOR - POOL SURFACE MOUNTED AT 28' A.F.F. |
| | LX3 - LIGMAN - USE 90001 - POOL SURFACE MOUNTED AT 12' A.F.F. |

**INDUSTRY RECOMMENDED LIGHT LEVELS**

**ILLUMINANTING ENGINEERING SOCIETY HANDBOOK 2018**

**POOL:**

Illuminance: 30 footcandles

**STARTS AND STOPS:**

Illuminance: 50 footcandles

**DECK:**

Illuminance: 10 footcandles

**OBSERVATION DECK:**

Illuminance: 1 footcandle minimum along the path of egress

**SAN RAFAEL, CALIFORNIA- MUNICIPAL CODE**
**14.16.227** - light and glare
**B.** ...one (1) foot-candle ground level overlap at doorways, one-half (½) foot-candle overlap at walkways and parking lots, and fall below one (1) foot-candle at the property line.

Left Side Starts and Stops

Illuminance (Fc)
Average = 52.05
Maximum = 67.4
Minimum = 42.8
Avg/Min Ratio = 1.22
Max/Min Ratio = 1.57

Right Side Starts and Stops

Illuminance (Fc)
Average = 45.40
Maximum = 61.2
Minimum = 32.5
Avg/Min Ratio = 1.40
Max/Min Ratio = 1.88

Pool Surface

Illuminance (Fc)
Average = 45.38
Maximum = 76.1
Minimum = 23.5
Avg/Min Ratio = 1.93
Max/Min Ratio = 3.24

Pool Deck

Illuminance (Fc)
Average = 18.69
Maximum = 50.2
Minimum = 6.4
Avg/Min Ratio = 2.92
Max/Min Ratio = 7.84

Observation Deck and Circulation

Illuminance (Fc)
Average = 6.46
Maximum = 16.0
Minimum = 1.7
Avg/Min Ratio = 3.80
Max/Min Ratio = 9.41

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Scale 3/32" = 1'-0"

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**Author**

EHDD Job Number
**17067**

Sheet Title
**EXTERIOR PHOTOMETRIC**

Sheet Number
**E003**

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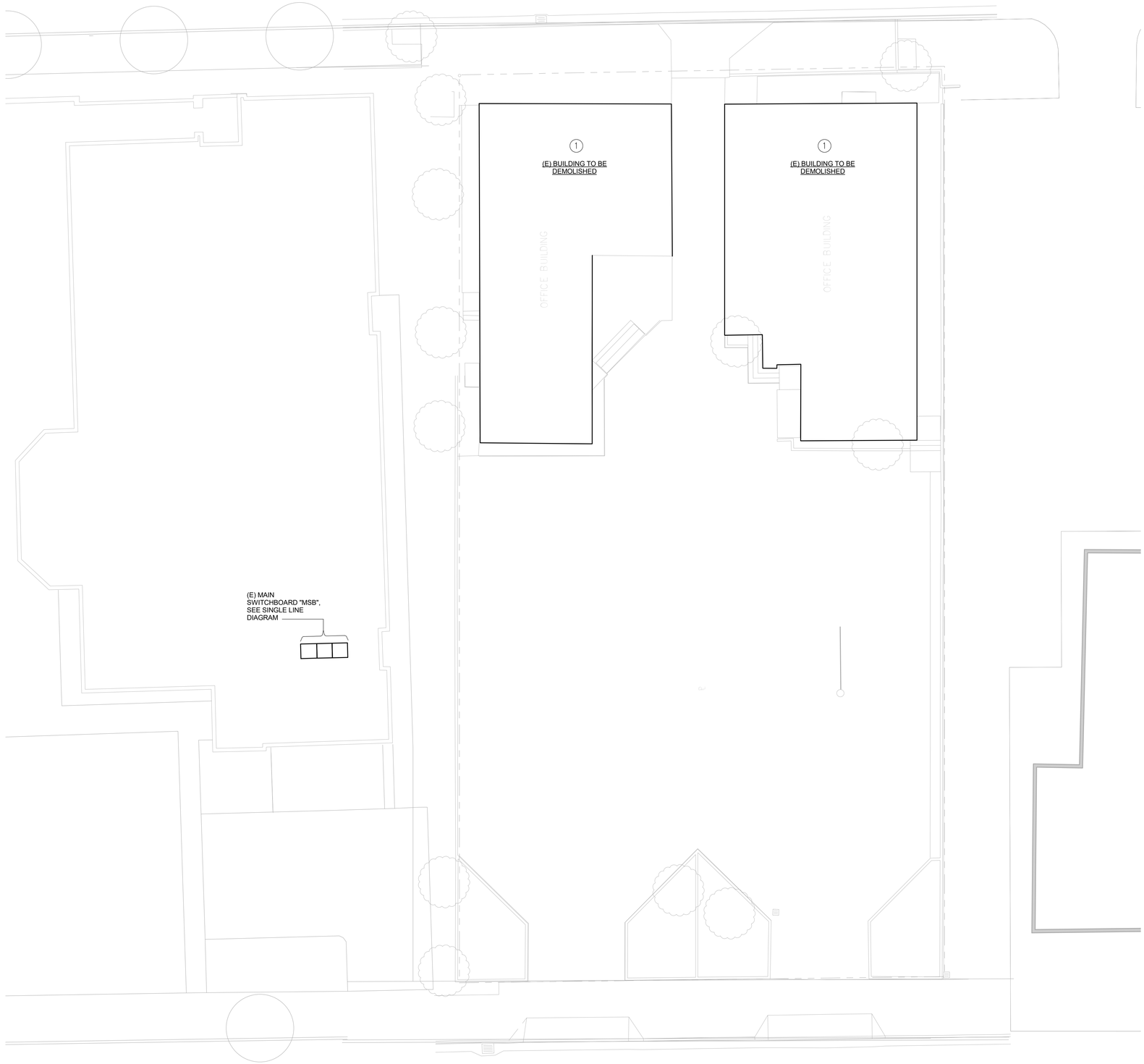


1 SITE PLAN - DEMOLITION
3/32" = 1'-0"

**GENERAL NOTES:**

1. ALL EQUIPMENT/DEVICES SHOWN SHALL BE REMOVED, UNLESS OTHERWISE NOTED.

**SHEET NOTES:**

1. DISCONNECT AND REMOVE OVERHEAD INCOMING SERVICE FROM UTILITIES DISTRIBUTION ON MISSION AVENUE. COORDINATE WITH PG&E AND AT&T AND PROVIDE ALL WORK AS REQUIRED.

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Scale
**3/32" = 1'-0"**

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**17067**

Sheet Title

## SITE PLAN - DEMOLITION

Sheet Number

# E100

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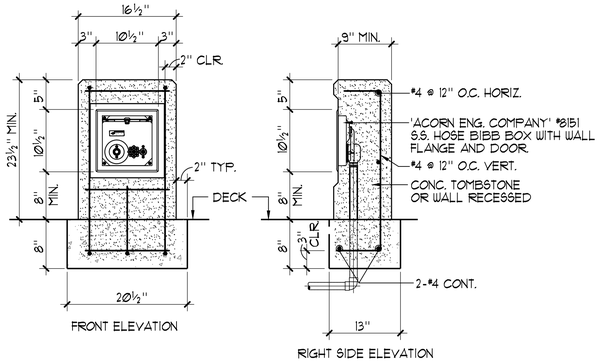
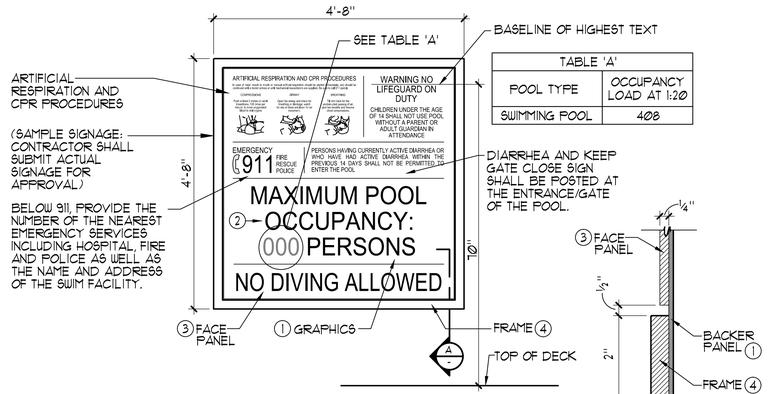



NOTE:
PROVIDE ¾" CHAMFER ON ALL CONCRETE CORNERS. SACK & PATCH ALL EXPOSED SURFACES.

## 1 HOSE BIBB 1"=1'-0"




## A SECTION 6" = 1'-0"

### SIGNAGE NOTES AND SPECIFICATIONS:

1. ⅛" THICK PAINTED ALUMINUM BACKER PANEL.
2. SILKSCREENED COPY/GRAPHICS WITH NON GLARE FINISH.
3. ¼" THICK PAINTED ALUMINUM FACE PANEL WITH SILKSCREENED COPY/GRAPHICS. ATTACH TO ⅛" THICK PAINTED ALUMINUM BACKER PANEL USING 'VHB' TAPE AND SILICONE ADHESIVE.
4. 2" WIDE x ½" THICK PAINTED ALUMINUM SIGN FRAME ADHERED TO ⅛" THICK PAINTED ALUMINUM BACKER USING 'LORD8' ADHESIVE AS REQUIRED. VERTICAL SECTIONS OF FRAME TO BE RECTANGULAR TUBE. FILL AND SAND SEAM ALONG EDGE AND FACE PRIOR TO PAINTING.

NOTES:

1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED SIGNAGE FOR REVIEW.
3. CHARACTER FONT STYLE SHALL BE CONVENTIONAL AND NOT UNUSUAL AND SHALL BE EASY TO READ.
4. MINIMUM CHARACTER HEIGHT = ⅝"

### REQUIRED SIGNAGE:

1. ALL SIGNS SHALL HAVE CLEARLY LEGIBLE LETTERS OR NUMBERS NOT LESS THAN 4 INCHES HIGH, UNLESS OTHERWISE NOTED; AFFIXED TO A WALL, POLE, GATE, OR SIMILAR PERMANENT STRUCTURE IN A LOCATION VISIBLE TO ALL POOL USERS.
   - A. POOL USER CAPACITY SIGN: A SIGN SHALL INDICATE THE MAXIMUM NUMBER OF POOL USERS PERMITTED FOR EACH POOL.
   - B. NO DIVING SIGN: SIGNS SHALL BE POSTED IN CONSPICUOUS PLACES AND SHALL STATE 'NO DIVING' AT POOLS WITH A MAXIMUM WATER DEPTH OF 6 FEET OR LESS.
   - C. NO LIFEGUARD SIGN: WHERE NO LIFEGUARD SERVICE IS PROVIDED, A WARNING SIGN SHALL BE POSTED STATING, "WARNING: NO LIFEGUARD ON DUTY." THE SIGN ALSO SHALL STATE IN LETTERS AT LEAST 1 INCH HIGH, "CHILDREN UNDER THE AGE OF 14 SHALL NOT USE POOL WITHOUT A PARENT OR ADULT GUARDIAN IN ATTENDANCE."
   - D. ARTIFICIAL RESPIRATION AND CPR SIGN: AN ILLUSTRATED DIAGRAM WITH TEXT AT LEAST ⅜ INCH HIGH OF ARTIFICIAL RESPIRATION AND CPR PROCEDURES SHALL BE POSTED.
   - E. EMERGENCY SIGN: THE EMERGENCY TELEPHONE NUMBER 911, THE NUMBER OF THE NEAREST EMERGENCY SERVICES AND THE NAME AND STREET ADDRESS OF THE POOL FACILITY SHALL BE POSTED.
   - F. NO USE AFTER DARK: WHERE POOLS WERE CONSTRUCTED FOR WHICH LIGHTING WAS NOT REQUIRED A SIGN SHALL BE POSTED AT EACH POOL ENTRANCE ON THE OUTSIDE OF THE GATE(S) STATING, "NO USE OF POOL ALLOWED AFTER DARK."
   - G. KEEP CLOSED: A SIGN SHALL BE POSTED ON THE EXTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA STATING, "KEEP CLOSED."
   - H. DIARRHEA: A SIGN IN LETTERS AT LEAST 1 INCH HIGH AND IN A LANGUAGE OR DIAGRAM THAT IS CLEARLY STATED SHALL BE POSTED AT THE ENTRANCE AREA OF A PUBLIC POOL WHICH STATES THAT PERSONS HAVING CURRENTLY ACTIVE DIARRHEA OR WHO HAVE HAD ACTIVE DIARRHEA WITHIN THE PREVIOUS 14 DAYS SHALL NOT BE ALLOWED TO ENTER THE POOL WATER.
2. DIRECTION OF FLOW SIGNAGE AND LABELS.
   - A. THE DIRECTION OF FLOW FOR THE RECIRCULATION EQUIPMENT SHALL BE LABELED CLEARLY WITH DIRECTIONAL SYMBOLS SUCH AS ARROWS ON ALL PIPING IN THE EQUIPMENT AREA.
   - B. WHERE THE RECIRCULATION EQUIPMENT FOR MORE THAN ONE POOL IS LOCATED ON SITE, THE EQUIPMENT SHALL BE MARKED AS TO WHICH POOL THE SYSTEM SERVES.
   - C. VALVES AND PLUMBING LINES SHALL BE LABELED CLEARLY WITH THE SOURCE OR DESTINATION DESCRIPTIONS.

## 2 POOL SIGNAGE DETAIL ¾"=1'-0"

# MARIN ACADEMY AQUATIC CENTER

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STATE OF CALIFORNIA

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**AS NOTED**

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**NFC**

EHDD Job Number
**17067**

Sheet Title
**DETAILS**

Sheet Number
**SP.15**

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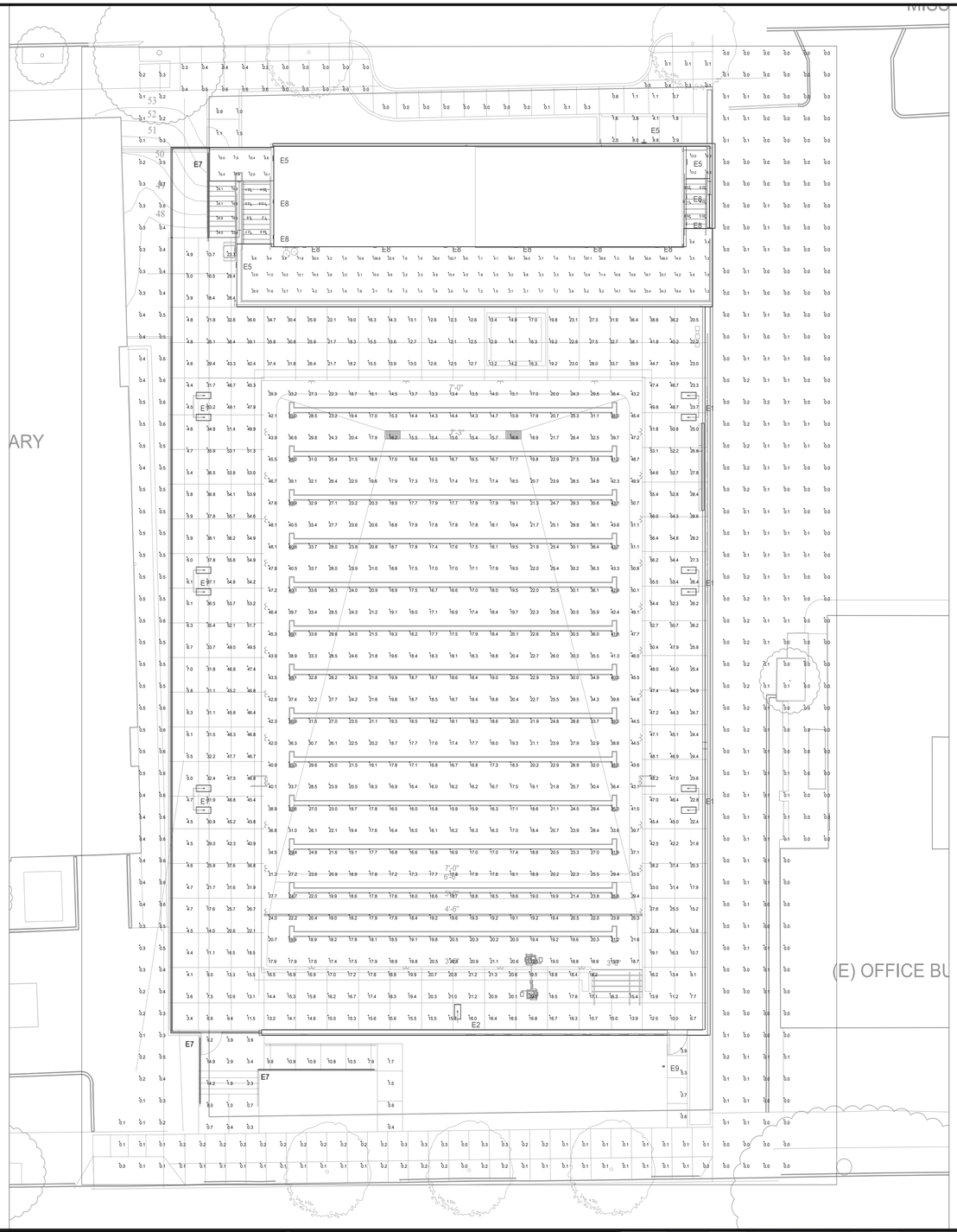


| LUMINAIRE SCHEDULE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Symbol | Qty | Label | Description | Lum. Watts | Lum. Lumens | LLD | LDD | UDF | LLF | Filename |
| | 6 | E1 | GARDCO - P34-128L-1050-NW-G2-BLC | 414.3833 | 36044 | 0.944 | 0.900 | 1.000 | 0.850 | P34-128L-1050-NW-G2-BLC.ies |
| | 1 | E2 | GARDCO - P34-128L-1050-NW-G2-4-HIS | 414.3833 | 39019 | 0.944 | 0.900 | 1.000 | 0.850 | P34-128L-1050-NW-G2-4-HIS.ies |
| | 4 | E5 | BEGA - 24374 | 15 | 1078 | 0.944 | 0.900 | 1.000 | 0.850 | 24374.ies |
| | 51 | E7 | WAGNER - LULS40K20120MS-12 | 1.8 | 132 | 0.944 | 0.900 | 1.000 | 0.850 | LULS40K20120MS-12.IES |
| | 10 | E8 | BEGA - 22354 | 22 | 1678 | 0.944 | 0.900 | 1.000 | 0.850 | 22354.ies |
| | 1 | E9 | BEGA - 88659 | 10 | 548 | 0.944 | 0.900 | 1.000 | 0.850 | 88659.IES |

## MANDATORY LIGHTING TARGET

**SAN RAFAEL, CALIFORNIA- MUNICIPAL CODE**
**14.16.227** - light and glare
**B.** ...one (1) foot-candle ground level overlap at doorways, one-half (½) foot-candle overlap at walkways and parking lots, and fall below one (1) foot-candle at the property line.

| CALCULATION SUMMARY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min | Description |
| North East Doorway | Illuminance | Fc | 3.08 | 8.8 | 0.6 | 5.13 | 14.67 | MEETING TARGET |
| North West Doorway | Illuminance | Fc | 1.13 | 1.5 | 0.9 | 1.26 | 1.67 | MEETING TARGET |
| South East Entry | Illuminance | Fc | 3.13 | 5.3 | 0.6 | 5.22 | 8.83 | MEETING TARGET |
| South West Entry | Illuminance | Fc | 5.31 | 14.9 | 0.3 | 17.70 | 49.67 | MEETING TARGET |
| Spill Light | Illuminance | Fc | 0.14 | 0.7 | 0.0 | N.A. | N.A. | MEETING TARGET |
| Observation Deck East Stair | Illuminance | Fc | 28.01 | 111.0 | 10.0 | 2.80 | 11.10 | MEETING TARGET |
| Observation Deck West Stair | Illuminance | Fc | 20.93 | 113.6 | 6.8 | 3.08 | 16.71 | MEETING TARGET |
| Observation Deck | Illuminance | Fc | 14.74 | 108.3 | 1.0 | 14.74 | 108.30 | MEETING TARGET |

## INDUSTRY RECOMMENDED LIGHTING TARGET

**ILLUMINATING ENGINEERING SOCIETY RP-6-15** (refer to report excerpt in binder)
Classification of Play: **CLASS III**

**POOL:**
Illuminances: **30 foot candle**
Uniformity:
Max:/Min **3:1 or less**

**DECK:**
Illuminances: 10 foot candle
Uniformity:
Max:/Min **4:1 or less**

| CALCULATION SUMMARY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min | Description |
| Pool | Illuminance | Fc | 24.87 | 51.1 | 13.3 | 1.87 | 3.84 | |
| Pool Deck | Illuminance | Fc | 27.48 | 56.4 | 3.4 | 8.08 | 16.59 | |

***LIGHTING LAYOUT VERIFICATION***

ALL VALUES SHOWN ARE MAINTAINED HORIZONTAL FOOTCANDLES AT 0'-0" AFF

PHOTOMETRIC DATA USED AS INPUT FOR THESE CALCULATIONS IS BASED ON ESTABLISHED IES PROCEDURES AND PUBLISHED LAMP, RATINGS, FIELD PERFORMANCE WILL DEPEND ON ACTUAL LAMP, BALLAST, ELECTRICAL, AND SITE CHARACTERISTICS.

Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.

Associated Lighting Representatives, Inc.

ASSOCIATED LIGHTING REPRESENTATIVES, INC
7777 PARDEE LANE
P.O. BOX 2265
OAKLAND, CA 94621
PHONE: (510) 638-0158 - FAX (510) 638-2908

REPORT FOR: EHDD - ESHERICK HOMSEY DODGE & DAVIS; JING LIU
BY: APPLICATIONS ENGINEERING; YUCHENG LU
SALES REPRESENTATIVE: ALR; LINDSAY WICKS

AGI32 VERSION 19.2
AGI (C) 1999-2018 LIGHTING ANALYSTS, INC.
10268 W. CENTENNIAL ROAD, SUITE 202
LITTLETON, CO 80127

PROJECT DESCRIPTION
MARIN ACADEMY AQUATIC CENTER - HIGH SCHOOL OUTDOOR POOL
SAN RAFAEL, CA

DRAWING NO. / INPUT FILE
16355-WIC-9.DWG / 16355-WIC-9.A32

| SCALE | SHEET | DATE | REV |
|---|---|---|---|
| 3/32" = 1' | 1 OF 1 | 10 / 07 / 2019 | 9 |

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**Author**

EHDD Job Number
**17067**

Sheet Title
**EXTERIOR PHOTOMETRIC**

Sheet Number
**E003**

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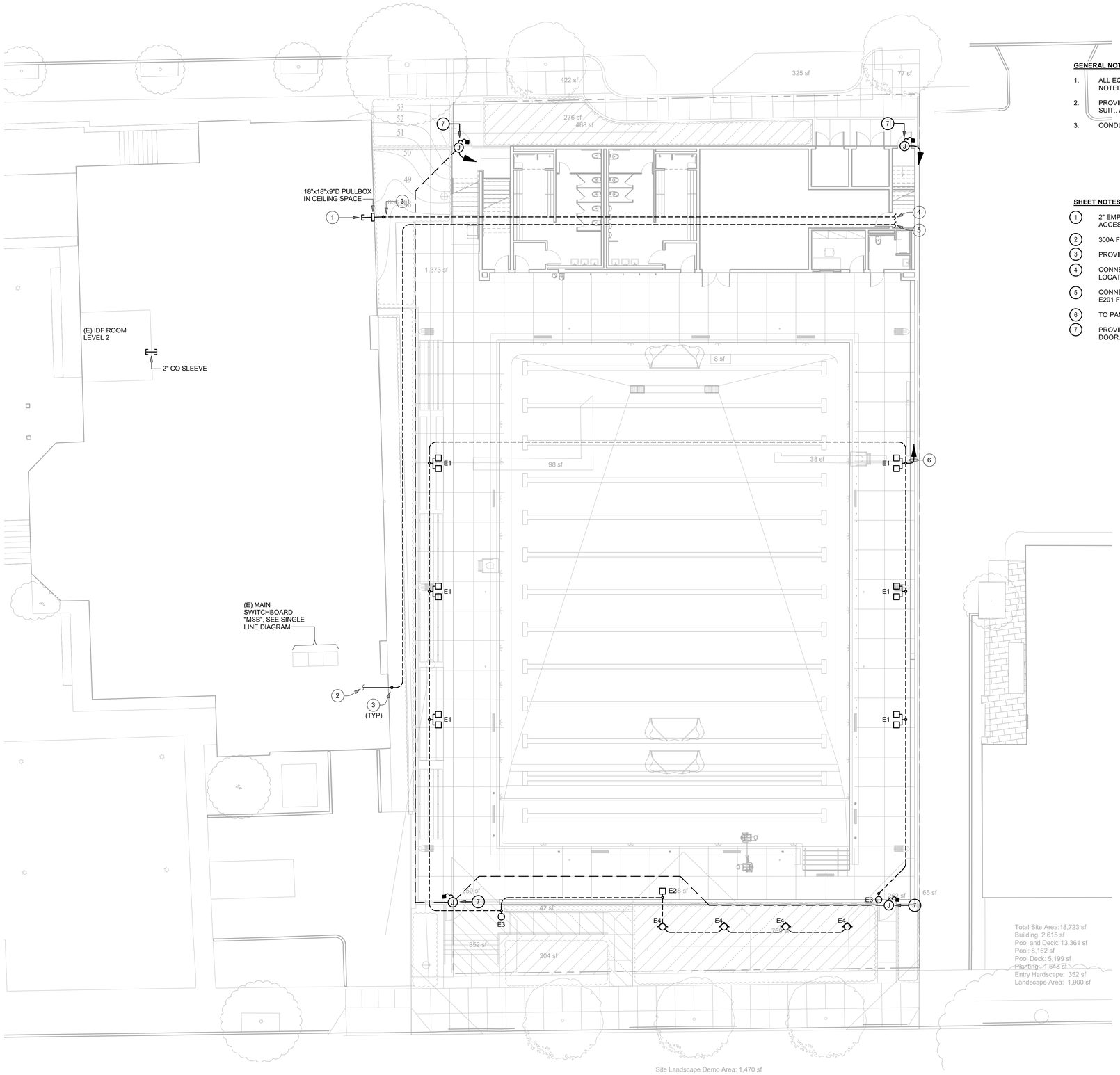


1 SITE PLAN - NEW
3/32" = 1'-0"

**GENERAL NOTES:**

1. ALL EQUIPMENT/DEVICES SHOWN ARE NEW, UNLESS OTHERWISE NOTED.
2. PROVIDE INTERMEDIATE UNDERGROUND PULL BOXES, SIZE TO SUIT,. ALONG THE CONDUIT RUN.
3. CONDUIT ROUTING SHOWN SHALL BE UNDERGROUND.

**SHEET NOTES:**

1. 2" EMPTY CONDUIT FOR TELE/DATA SYSTEM, STUBBED IN ACCESSIBLE CEILING SPACE.
2. 300A FEEDER FOR "MSB", SEE SINGLE LINE DIAGRAM.
3. PROVIDE GASKETED CONDULET AT WALL PENETRATION.
4. CONNECT TO TELE/DATA SYSTEM BACKBOARD, SEE SHEET E201 FOR LOCATION OF BACKBOARD.
5. CONNECT TO PANEL "A", SEE SINGLE LINE DIAGRAM AND SHEET E201 FOR LOCATION OF PANEL.
6. TO PANEL A, VIA LIGHTING CONTROL DEVICES.
7. PROVIDE 1" CONDUIT FOR JUNCTION BOX POWERING AUTOMATIC DOOR.

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Scale
**3/32" = 1'-0"**

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EHDD Job Number
**17067**

Sheet Title

## SITE PLAN - NEW

Sheet Number

# E200

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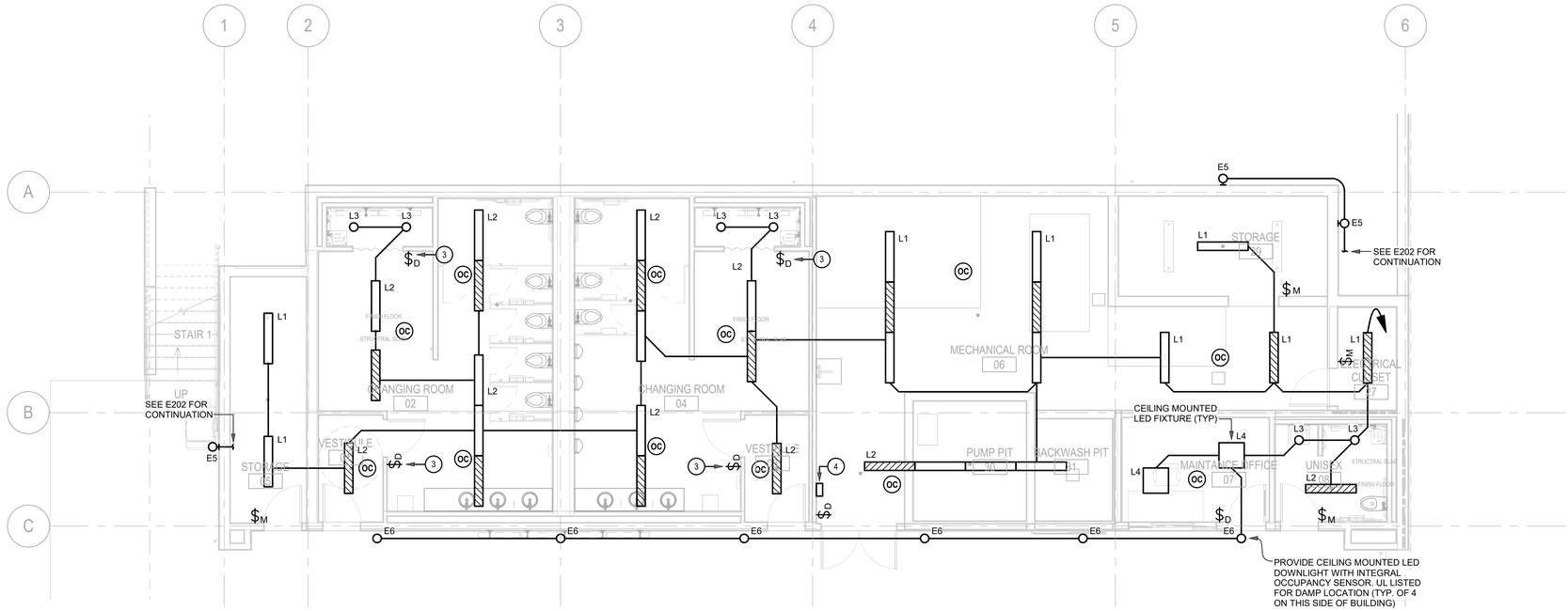
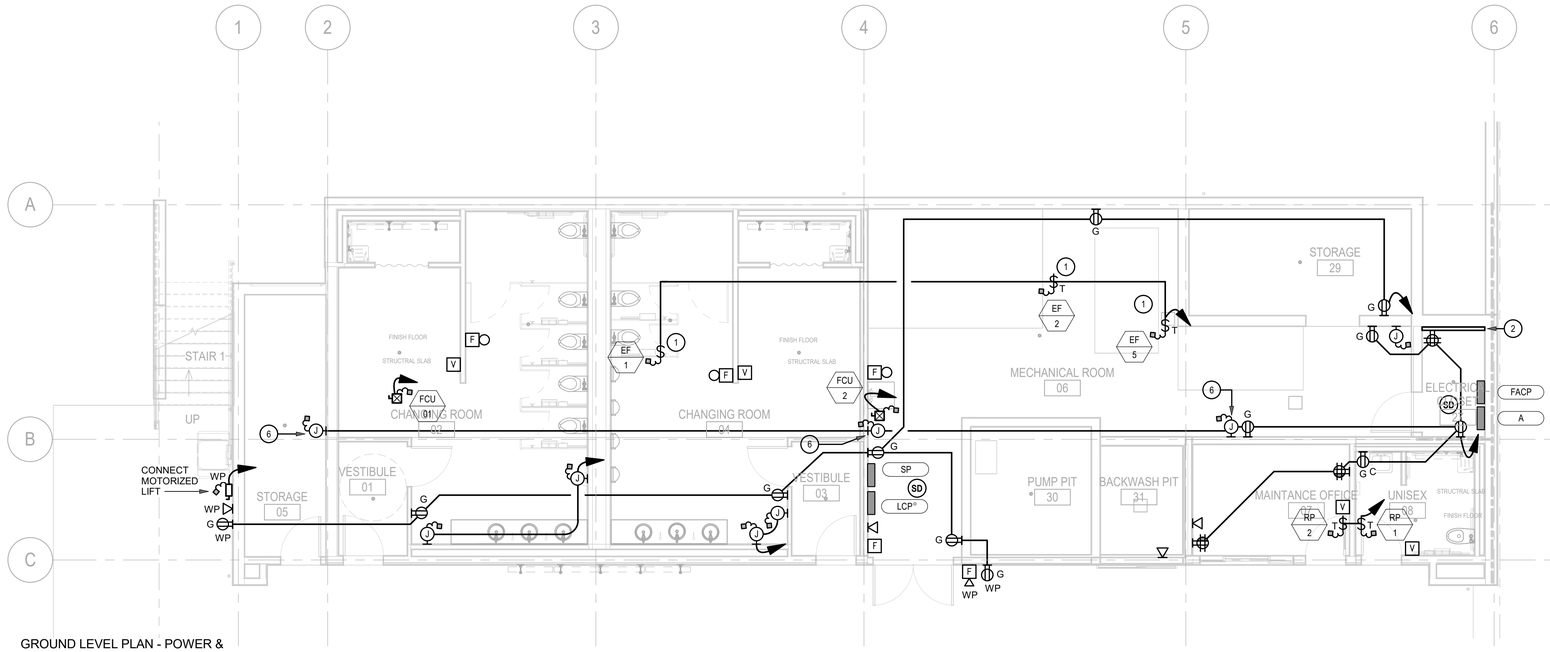
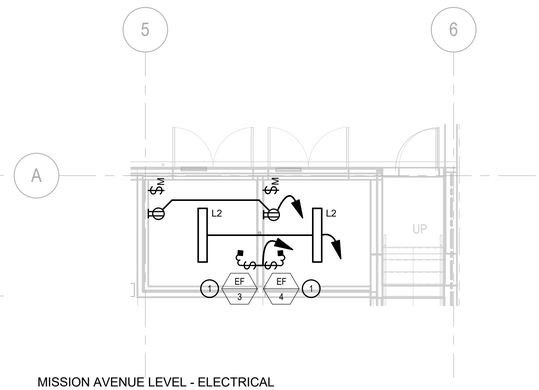



1 GROUND LEVEL PLAN - LIGHTING
3/16" = 1'-0"




2 GROUND LEVEL PLAN - POWER & SIGNAL
3/16" = 1'-0"




3 MISSION AVENUE LEVEL - ELECTRICAL PLAN
3/16" = 1'-0"

**GENERAL NOTES:**

1. ALL EQUIPMENT/DEVICES SHOWN ARE NEW, UNLESS OTHERWISE NOTED.
2. CONNECT ALL EQUIPMENT/DEVICES TO PANEL "A", UNLESS OTHERWISE NOTED.
3. ALL LAMPS SHALL HAVE 90 CRI, UNLESS OTHERWISE NOTED.

**SHEET NOTES:**

1. NEMA 1 DISCONNECT TOGGLE SWITCH PROVIDED BY MANUFACTURER.
2. 3/4"x8'-0"x FULL WIDTH FIRE RETARDANT PLYWOOD BACK BOARD, REFER TO ARCHITECTURAL DRAWING.
3. PROVIDE RECESS MOUNTED NEMA 1 ENCLOSURE WITH LOCKABLE COVER TO HOUSE DIMMER SWITCH.
4. OVERRIDE SWITCHES FOR EXTERIOR LIGHTING.
5. DISCONNECT TOGGLE SWITCH PROVIDED BY MANUFACTURER.
6. FOR TRAP PRIMER.

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

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**LEVEL 1 FLOOR PLANS - LIGHTING POWER & SIGNAL**

Sheet Number

**E201**

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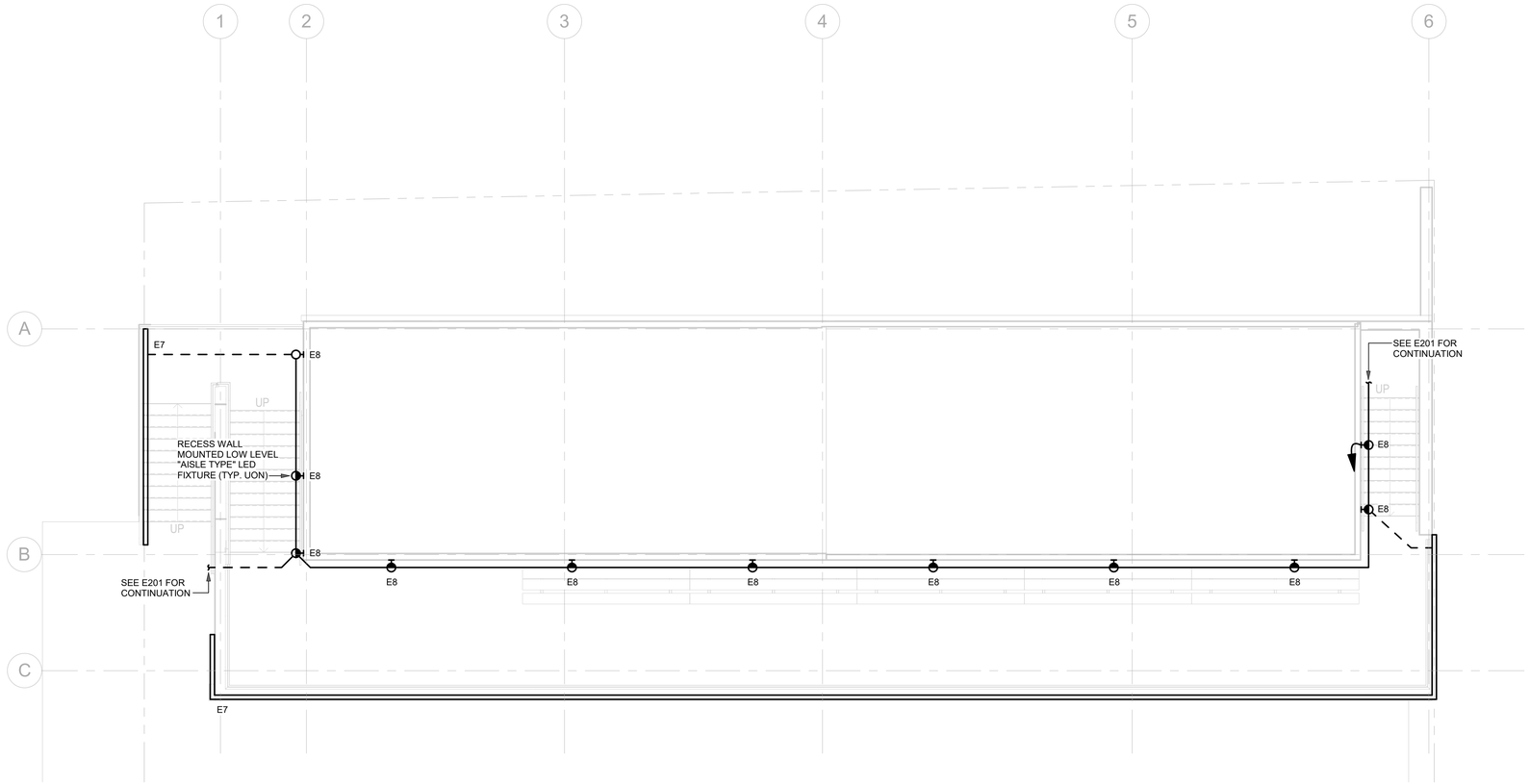


1 ROOF DECK PLAN
3/16" = 1'-0"

**GENERAL NOTES:**

1. ALL EQUIPMENT/DEVICES SHOWN ARE NEW, UNLESS OTHERWISE NOTED.
2. CONNECT ALL EQUIPMENT/DEVICES TO PANEL "A", UNLESS OTHERWISE NOTED.
3. ALL LAMPS SHALL HAVE 90 CRI, UNLESS OTHERWISE NOTED.

**SHEET NOTES:**

(1) DISCONNECT TOGGLE SWITCH PROVIDED BY MANUFACTURER.

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**3/16" = 1'-0"**

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**ROOF DECK PLAN - LIGHTING, POWER & SIGNAL**

Sheet Number

# E202

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# LIGHT FIXTURE SCHEDULE

| TYPE | DESCRIPTION | LAMPS | WATTS | VOLTAGE | MANUFACTURER'S & CATALOG # |
|---|---|---|---|---|---|
| E1 | 16.5"W x 34"L x 5.6"H TWIN-HEAD POLE MOUNTED LED FIXTURE WITH TYPE 4 DISTRIBUTION, BACK LIGHT CONTROL, DIMMING DRIVER, AND INTEGRAL MOTION SENSOR. MOUNT FIXTURE ON 20'-0" ROUND POLE. BLACK FINISH. | LED 1050mA NEUTRAL WHITE 4000K | 414 | 208 | GARDCO #P34-128L-1050-NW-G2-4-BLC-208-DD-IMRO-RPA-BK OR APPROVED EQUAL |
| E2 | SAME CONSTRUCTION AS TYPE "E1" EXCEPT SINGLE HEAD. | LED 1050mA NEUTRAL WHITE 4000K | 414 | 208 | GARDCO #P34-128L-1050-NW-G2-4-BLC-208-DD-IMRO-RPA-BK OR APPROVED EQUAL |
| E3 | 27" DIA POLE TOP LED FIXTURE WITH TYPE 5 DISTRIBUTION , DIMMING DRIVER, AND INTEGRAL MOTION SENSOR. MOUNT FIXTURE ON 10'-0" ROUND POLE. BLACK FINISH | LED 350mA 4000K | 55 | 208 | VISIONAIRE LIGHTING #PRE-2L-T5-48LC-3-4K-UNV-BK-WSC-20-DIM OR APPROVED EQUAL |
| E4 | IN-GRADE LED FLOOD LIGHTS WITH ASYMMETRICAL LIGHT DISTRIBUTION. | LED 80 CRI 4000K | 17 | 208 | BEGA #77107 OR APPROVED EQUAL |
| E5 | 11-7/8"W x 4-3/8"H x 3-3/8"D WALL MOUNTED LED FIXTURE | LED 4000K | 15 | 208 | BEGA #24374 OR APPROVED EQUAL |
| E6 | 13" DIA x 6"D SURFACE MOUNTED LED DOWNLIGHT. BLACK FINISH. PROVIDE INTEGRAL EMERGENCY BATTERY (MODEL LEL) WHERE INDICATED ON PLAN. | LED 10W 4000K | 13 | 120 | KENALL #MR13FFD-PP-MB-10L40K-120 OR APPROVED EQUAL |
| E7 | LED HANDRAIL LIGHT WITH ASYMMETRIC DISTRIBUTION. PROVIDE LENGTH OF RAIL AS INDICATED ON PLAN. | LED 4000K | 1.85 PER FOOT | 120 | WAGNER #LLILS-40K-20-70-MS-X OR APPROVED EQUAL |
| E8 | 9-7/8" x 9-7/8" x 5-3/8" RECESS MOUNTED LED LOW LEVEL FIXTURE. BLACK FINISH. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING LOCATION | LED 90 CRI 4000K | 22 | 120 | BEGA #22354 OR APPROVED EQUAL |
| L1 | 4-1/8"W x 4-1/8"H x 4'-0" PENDENT MOUNTED LED LINEAR DOWNLIGHT FIXTURE WITH DIMMING DRIVER AND LENS. PROVIDE LENGTH OF FIXTURE AS INDICATED ON PLAN. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND PROVIDE LENGTH OF ADJUSTABLE AIRCRAFT CABLE AS REQUIRED. PROVIDE INTEGRAL EMERGENCY BATTERY (MODEL EM/10W) WHERE INDICATED ON PLAN. UL LISTED FOR DAMP LOCATION. | LED 80 CRI 3500K | 31 | 120 | H.E. WILLIAMS #LX4D-4-L8/835-S-A-ACF/48-DIM-120 OR APPROVED EQUAL |
| L2 | SIMILAR TO FIXTURE TYPE "L1" EXCEPT SURFACE MOUNTED. | LED 80 CRI 3500K | 31 | 120 | H.E. WILLIAMS LX4S-4-L8/835-S-A-DIM-120 OR APPROVED EQUAL |
| L3 | 6" DIA RECESS MOUNTED LED SHOWER LIGHT WITH LENS. UL LISTED FOR WET LOCATION UNDER COVER. | LED 80 CRI 3500K | 39 | 120 | H.E. WILLIAMS #LSL60-L40C/835-DPL-DRV-120 OR APPROVED EQUAL |
| L4 | 2'x2' RECESS MOUNTED LED FIXTURE WITH DIMMING DRIVER, ACRYLIC PATTERN LENS, AND EARTHQUAKE CLIPS. | LED 80 CRI 3500K | 34 | 120 | H.E. WILLIAMS #50G-S22-L43/835-S-AF12125-EQCLIPS-DIM-120 OR APPROVED EQUAL |

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EHDD Job Number
**17067**

Sheet Title

**LIGHTING FIXTURE SCHEDULE**

Sheet Number

**E301**

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## SWIMMING POOL DATA

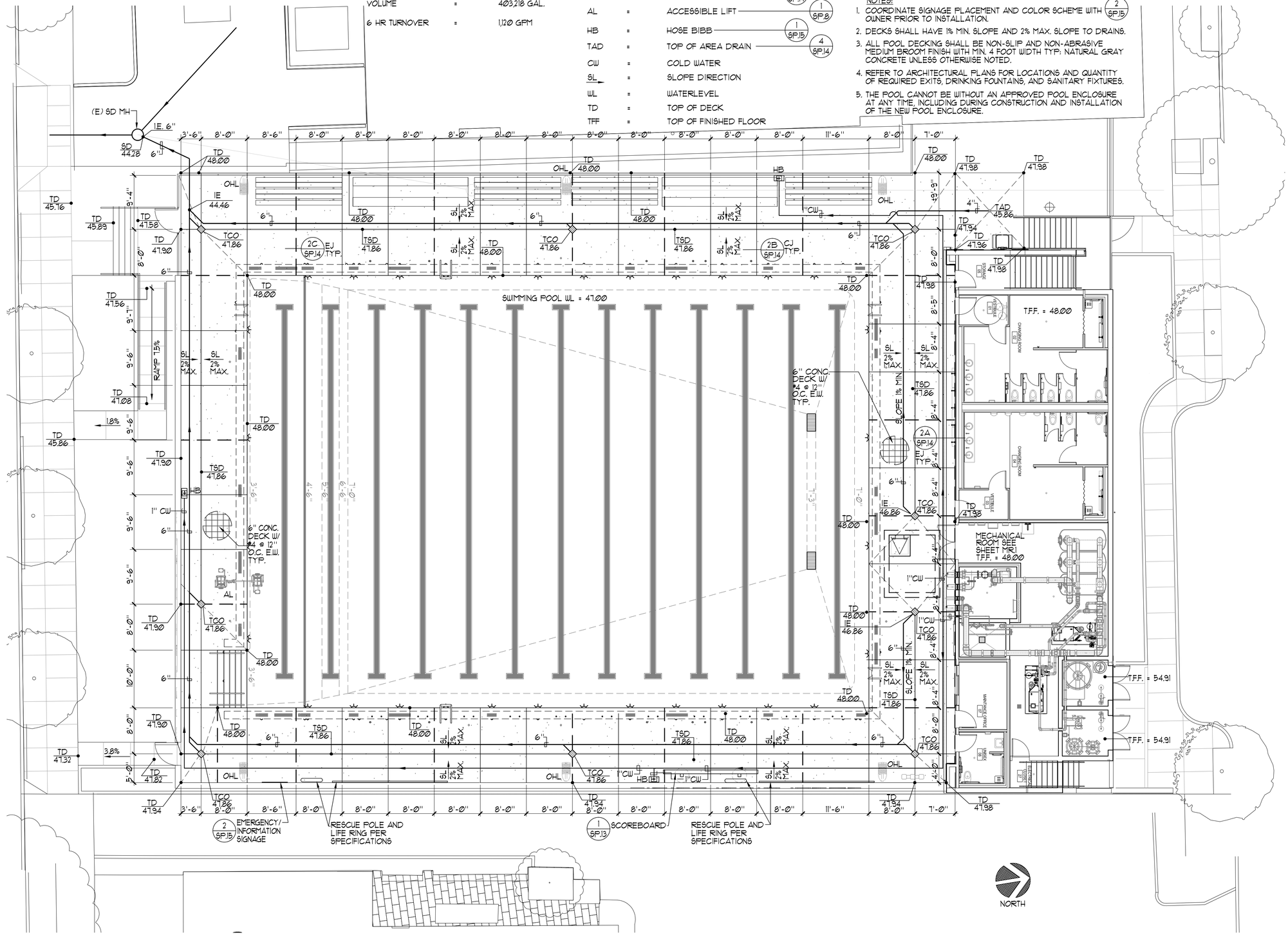
| | | |
|---|---|---|
| SURFACE AREA | = | 8,159 SQ. FT. |
| PERIMETER | = | 376 FT. |
| DEPTH | = | 3'-6" TO 7'-3" |
| VOLUME | = | 403,218 GAL. |
| 6 HR TURNOVER | = | 1,120 GPM |

## LEGEND

| | | |
|---|---|---|
| — —EJ— — | = | EXPANSION JOINT (2A/SP.14, 2C/SP.14) |
| —CJ— | = | CONTROL JOINT (2B/SP.14) |
| —TSD— | = | TOP OF SLOT DRAIN (3/SP.14) |
| TCO | = | TOP OF CLEAN-OUT (3/SP.14) |
| AL | = | ACCESSIBLE LIFT (1/SP.8) |
| HB | = | HOSE BIBB (1/SP.15) |
| TAD | = | TOP OF AREA DRAIN (4/SP.14) |
| CW | = | COLD WATER |
| SL | = | SLOPE DIRECTION |
| WL | = | WATERLEVEL |
| TD | = | TOP OF DECK |
| TFF | = | TOP OF FINISHED FLOOR |
| I.E. | = | INVERT ELEVATION |
| P.O.C. | = | POINT OF CONNECTION |
| SD | = | STORM DRAIN |
| OHL | = | OVERHEAD LIGHT |

NOTES:

1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH OWNER PRIOR TO INSTALLATION. (2/SP.15)
2. DECKS SHALL HAVE 1% MIN. SLOPE AND 2% MAX. SLOPE TO DRAINS.
3. ALL POOL DECKING SHALL BE NON-SLIP AND NON-ABRASIVE MEDIUM BROOM FINISH WITH MIN. 4 FOOT WIDTH TYP: NATURAL GRAY CONCRETE UNLESS OTHERWISE NOTED.
4. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND QUANTITY OF REQUIRED EXITS, DRINKING FOUNTAINS, AND SANITARY FIXTURES.
5. THE POOL CANNOT BE WITHOUT AN APPROVED POOL ENCLOSURE AT ANY TIME, INCLUDING DURING CONSTRUCTION AND INSTALLATION OF THE NEW POOL ENCLOSURE.




1 SWIMMING POOL DECK PLAN 1/8"=1'-0"

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REN. 12/31/19
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Scale
**1/8"=1'-0"**

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**NFC**

EHDD Job Number
**17067**

Sheet Title

**SWIMMING POOL DECK PLAN**

Sheet Number

**DP.1**

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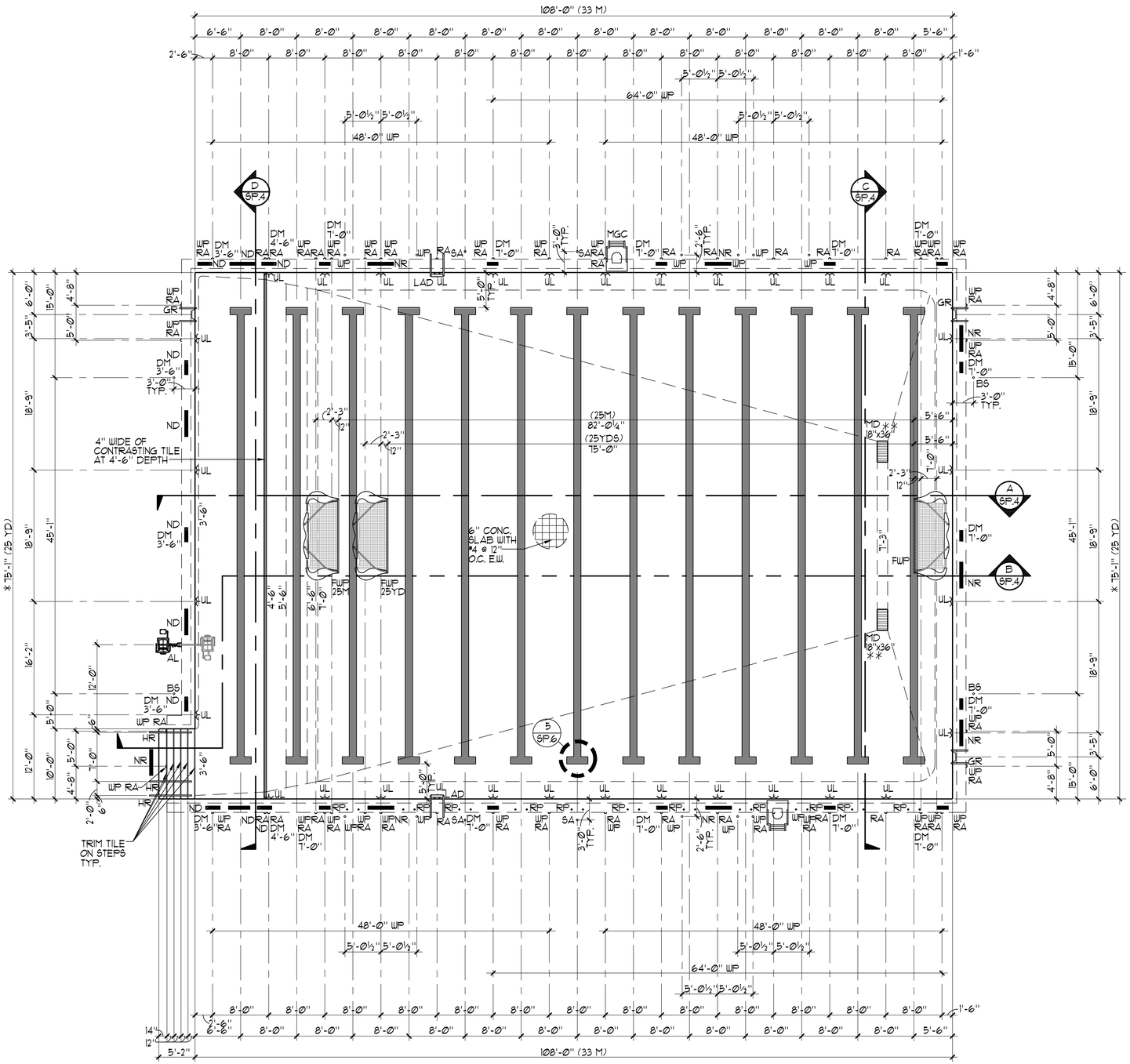


## SWIMMING POOL DATA

| | | |
|---|---|---|
| SURFACE AREA | = | 8,159 SQ. FT. |
| PERIMETER | = | 376 FT. |
| DEPTH | = | 3'-6" TO 7'-3" |
| VOLUME | = | 403,218 GAL. |
| 6 HR TURNOVER | = | 1,120 GPM |

## LEGEND

| | | | |
|---|---|---|---|
| **MD | = | MAIN DRAIN | 2 SP.10 |
| GR | = | GRABRAIL | 1 SP.9 |
| DM | = | DEPTH MARKER | 1 SP.7 |
| NR | = | 'NO RUNNING' | 2 SP.7 |
| ND | = | 'NO DIVING' | 2 SP.7, 3 SP.7 |
| RA | = | ROPE ANCHOR | 4 SP.9 |
| RP | = | RACING PLATFORM | 4 SP.7 |
| BS | = | BACKSTROKE STANCHION | 2 SP.9 |
| WP | = | WATER POLO GOAL | 3 SP.8 |
| UL | = | UNDERWATER LIGHT | 1 SP.12 |
| MGC | = | MOVEABLE GUARD CHAIR | 3 SP.9 |
| AL | = | ACCESSIBLE LIFT | 1 SP.8 |
| SA | = | STANCHION ANCHOR | 2 SP.9 |
| FWP | = | FLOATING WATER POLO GOALS | 2 SP.8 |
| LAD | = | LADDER | 1 SP.10 |
| HR | = | HANDRAIL | 5 SP.7 |

## CERTIFICATION REQUIREMENTS

* THE CONTRACTOR SHALL RETAIN AN INDEPENDENT LICENSED SURVEYOR TO PROVIDE PROOF OF COMPLIANCE FOR REQUIRED POOL LENGTHS AS FOLLOWS: (RECOMMEND PATRELL ENG. GROUP (626) 335-4362)

  SHORT COURSE-25YDS: (ALLOWS FOR TOUCH PADS AT ONE END) 75'-0 5/16" MIN.; 75'-1 3/16" MAX.

  TOLERANCE AGAINST LENGTH SHALL EXTEND IN A VERTICAL PLANE 0.3M (12") ABOVE AND 0.8M. (2'-7½") BELOW THE SURFACE OF THE WATER AT ALL POINTS OF BOTH END WALLS TYP. OF ALL COURSES.

  THE INDEPENDENT LICENSED SURVEYOR SHALL FILL OUT, NOTARIZE AND FILE OFFICIAL CERTIFICATION FORM(S) WITH USA SWIMMING.

** CONTRACTOR SHALL RETAIN A LICENSED ENGINEER TO CERTIFY THE FIELD BUILT MAIN DRAIN SYSTEMS AS V.G.B. COMPLIANT.

1 **SWIMMING POOL LAYOUT PLAN** 1/8"=1'-0"

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**SWIMMING POOL LAYOUT PLAN**

Sheet Number

# SP.1

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## SWIMMING POOL DATA

| | | |
|---|---|---|
| SURFACE AREA | = | 8,159 SQ. FT. |
| PERIMETER | = | 376 FT. |
| DEPTH | = | 3'-6" TO 7'-3" |
| VOLUME | = | 409,573 GAL. |
| 6 HR TURNOVER | = | 1,138 GPM |

## SURGE DATA

| | | |
|---|---|---|
| REQUIRED SURGE CAPACITY | = | 8,159 GAL. |
| SURGE IN PERIMETER GUTTER | = | 5,439 GAL. |
| SURGE IN SURGE CHAMBER | = | 2,996 GAL. |
| TOTAL SUPPLIED SURGE | = | 8,435 GAL. |

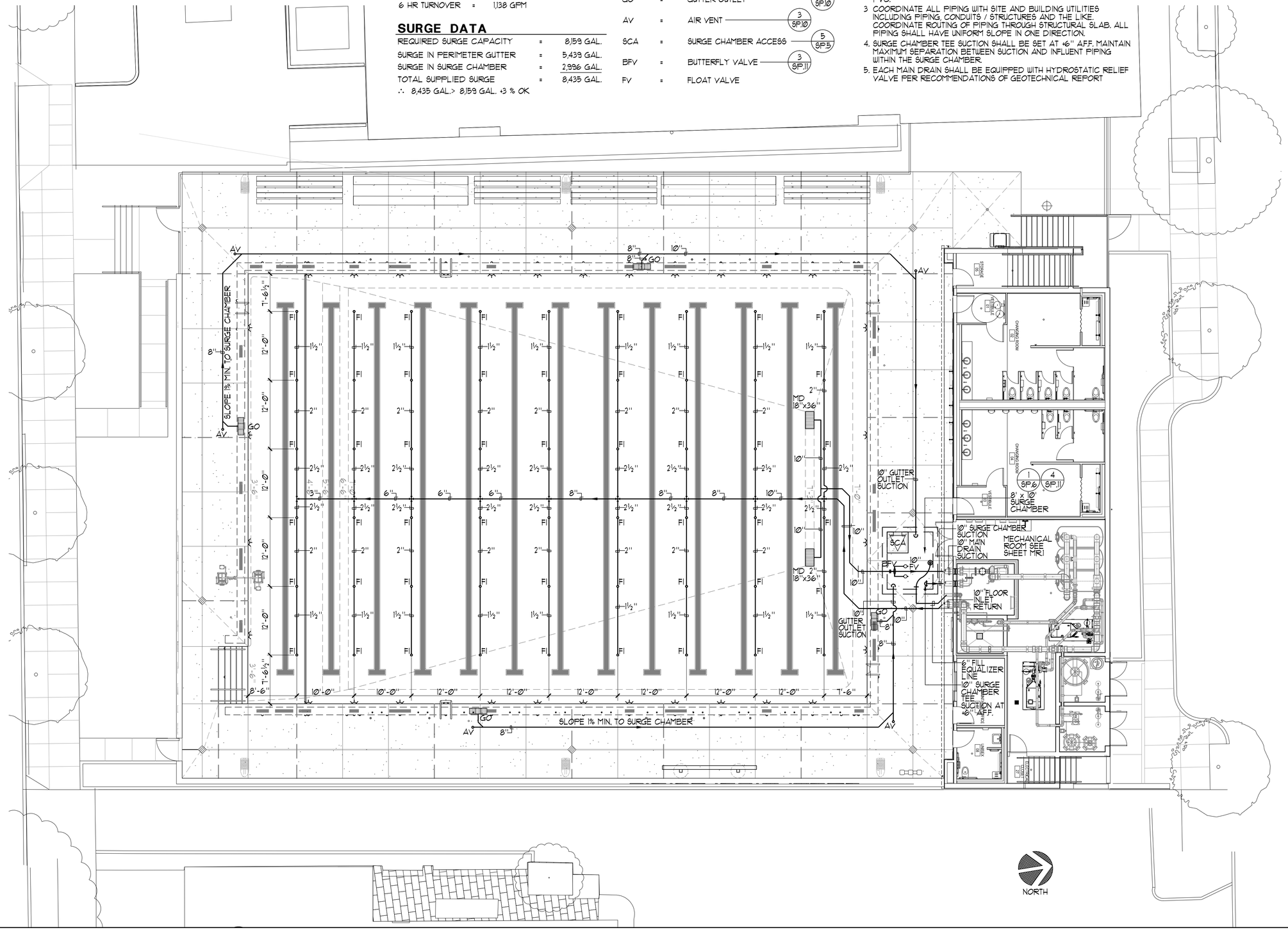
∴ 8,435 GAL.> 8,159 GAL. +3 % OK

## LEGEND

| | | |
|---|---|---|
| MD | = | MAIN DRAIN — 2 / SP.10 |
| FI | = | FLOOR INLET — 1 / SP.11 |
| GO | = | GUTTER OUTLET — 5 / SP.10 |
| AV | = | AIR VENT — 3 / SP.10 |
| SCA | = | SURGE CHAMBER ACCESS — 5 / SP.5 |
| BFV | = | BUTTERFLY VALVE — 3 / SP.11 |
| FV | = | FLOAT VALVE |

NOTES:

1. PIPING ROUTES ARE SCHEMATIC IN NATURE AND SHOWN ON PLANS FOR CLARITY. CONTRACTOR SHALL ROUTE PIPING ACCORDINGLY TO MEET NOTED INVERT ELEVATIONS. REFER TO REFERENCED DETAIL FOR PIPE SPACING REQUIREMENTS. — 2 / SP.11
2. ALL BELOW GRADE POOL PIPING SHALL BE SCHEDULE 40 PVC AND ALL ABOVE GRADE POOL PIPING SHALL BE SCHEDULE 80 PVC.
3. COORDINATE ALL PIPING WITH SITE AND BUILDING UTILITIES INCLUDING PIPING, CONDUITS / STRUCTURES AND THE LIKE. COORDINATE ROUTING OF PIPING THROUGH STRUCTURAL SLAB. ALL PIPING SHALL HAVE UNIFORM SLOPE IN ONE DIRECTION.
4. SURGE CHAMBER TEE SUCTION SHALL BE SET AT 16" AFF. MAINTAIN MAXIMUM SEPARATION BETWEEN SUCTION AND INFLUENT PIPING WITHIN THE SURGE CHAMBER.
5. EACH MAIN DRAIN SHALL BE EQUIPPED WITH HYDROSTATIC RELIEF VALVE PER RECOMMENDATIONS OF GEOTECHNICAL REPORT




1 SWIMMING POOL PIPING PLAN 1/8"=1'-0"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**SWIMMING POOL PIPING PLAN**

Sheet Number

**SP.2**

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## LEGEND

| | | |
|---|---|---|
| UL | = | UNDERWATER LIGHT |
| JB | = | JUNCTION BOX |
| RP | = | RACING PLATFORM |
| WP | = | WALL PLATE |
| DP | = | DECK PLATE |
| WP JB | = | WALL PLATE JUNCTION BOX |

## TIMING SYSTEM NOTES/EQUIPMENT

NOTE: THE CONTRACTOR SHALL SUPPLY AND INSTALL DECK PLATE BOXES, WALL PLATE BOXES, WALL PLATE JUNCTION BOXES, CONDUIT, WIRING, SCOREBOARD AND ALL TIMING EQUIPMENT AS SHOWN FOR THE 'COLORADO' TIME SYSTEM OR EQUAL.

**TIMING SYSTEM**

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| (1) 1 | SPORTS TIMER | MULTI-SPORT TIMING/SCORING CONSOLE<br>HARDWARE:<br>MULTI-SPORT AQUATICS TIMING AND SCORING CONSOLE WITH CARRYING CASE. SPORT INSERTS TO INCLUDE SWIMMING, DIVING, WATER POLO AND RACE CLOCK. SYSTEM TO INCLUDE 15" FULL LCD DISPLAY, CD-RW DRIVE, UNLIMITED RACE/MEET STORAGE, EXTERNAL MOUSE AND KEYBOARD PORT AND BACKUP RECHARGEABLE SYSTEM.<br>SOFTWARE:<br>SWIMMING, DIVING, WATER POLO AND RACE CLOCK SOFTWARE SHALL BE PROVIDED. SWIMMING SOFTWARE SHALL BE CAPABLE OF STORED LAP AND CUMULATIVE SPLITS. SPLIT INFORMATION SHALL BE POSTED TO SCOREBOARD IN LAP OR CUMULATIVE FORMAT. SOFTWARE SHALL BE CAPABLE OF TIMING UP TO 10 LANES OF COMPETITION-NEAR AND FAR END. SOFTWARE SHALL HAVE TIMING CAPABILITY OF ONE TOUCHPAD WITH UP TO THREE BUTTON BACKUP AND RELAY TAKE-OFF PLATFORM. SWIMMING SOFTWARE SHALL OPERATE IN A POINT AND CLICK WINDOWS® ENVIRONMENT. |
| 1 | CABLE HARNESS | TEN-LANE ABOVE DECK TIMING HARNESS INCLUDES A TEN-LANE CABLE HARNESS AND ONE PUSHBUTTON PER LANE. |
| (9) 10 | TP-90G | 90"x22" TOUCHPAD. TOUCHPAD SHALL BE CONSTRUCTED OF STAINLESS STEEL TO PREVENT THE POSSIBILITY OF WARPING IN EXTREME HEAT. |

**TOUCHPAD CADDY**

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 1 | CART | TOUCHPAD CADDY FOR GUTTERHUNG TOUCHPADS. HOLDS UP TO TEN TOUCHPADS. SHALL ARRIVE ON SITE FULLY ASSEMBLED. |

**START SYSTEM**

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| (3) 1 | HORN START | ELECTRONIC START SYSTEM WITH WIRELESS MICROPHONE, WIRED MICROPHONE, VOLUME CONTROLS FOR AUXILIARY SPEAKERS & INDIVIDUAL LANE SPEAKERS, BUILT-IN EXTERNAL 360-DEGREE STROBE LIGHT WITH CAPABILITY TO ADD REMOTE EXTERNAL STROBE. AC POWER CAPABILITY FOR MEET OPERATION IN THE EVENT THE BATTERY SYSTEM FAILS. LED BATTERY LEVEL INDICATION LIGHT, ABILITY TO DISABLE RECALL FUNCTION. |
| 10 | LANE SPEAKER | INDIVIDUAL 6 WATT LANE SPEAKER FOR START SYSTEM |
| 1 | AUX. SPEAKER | 40 WATT SPEAKER WITH 100' OF CABLE |
| 1 | BRACKET | BACKSTROKE FLAGPOLE MOUNTING BRACKET FOR START SYSTEM. |
| 1 | CABLE | THIRTY FOOT JUMPER CABLE |

**IN-DECK**

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| (2) 10 | LANE DECK PLATE | INDIVIDUAL LANE TITANIUM DECK PLATE. PLATE SHALL HAVE CONNECTIONS FOR (1) TOUCHPAD, (3) BACKUP BUTTON TIMING, RELAY TAKE-OFF PLATFORM AND INDIVIDUAL LANE SPEAKER. PLATES SHALL BE MOUNTED PERMANENTLY TO THE DECK ON 4"x4"x6" PVC JUNCTION BOXES (CARLON E989NNR). |
| (4) 2 | WALL PLATE | WALL PLATE, TIMING<br>WALL PLATE: 12"x12"x6" WALL BOX IN CONC. PEDESTAL, TWO (2) TOTAL. WALL BOX WITH WALL PLATE JUNCTION BOX 12"x12"x6" ONE (1) TOTAL. |

**WATER POLO**

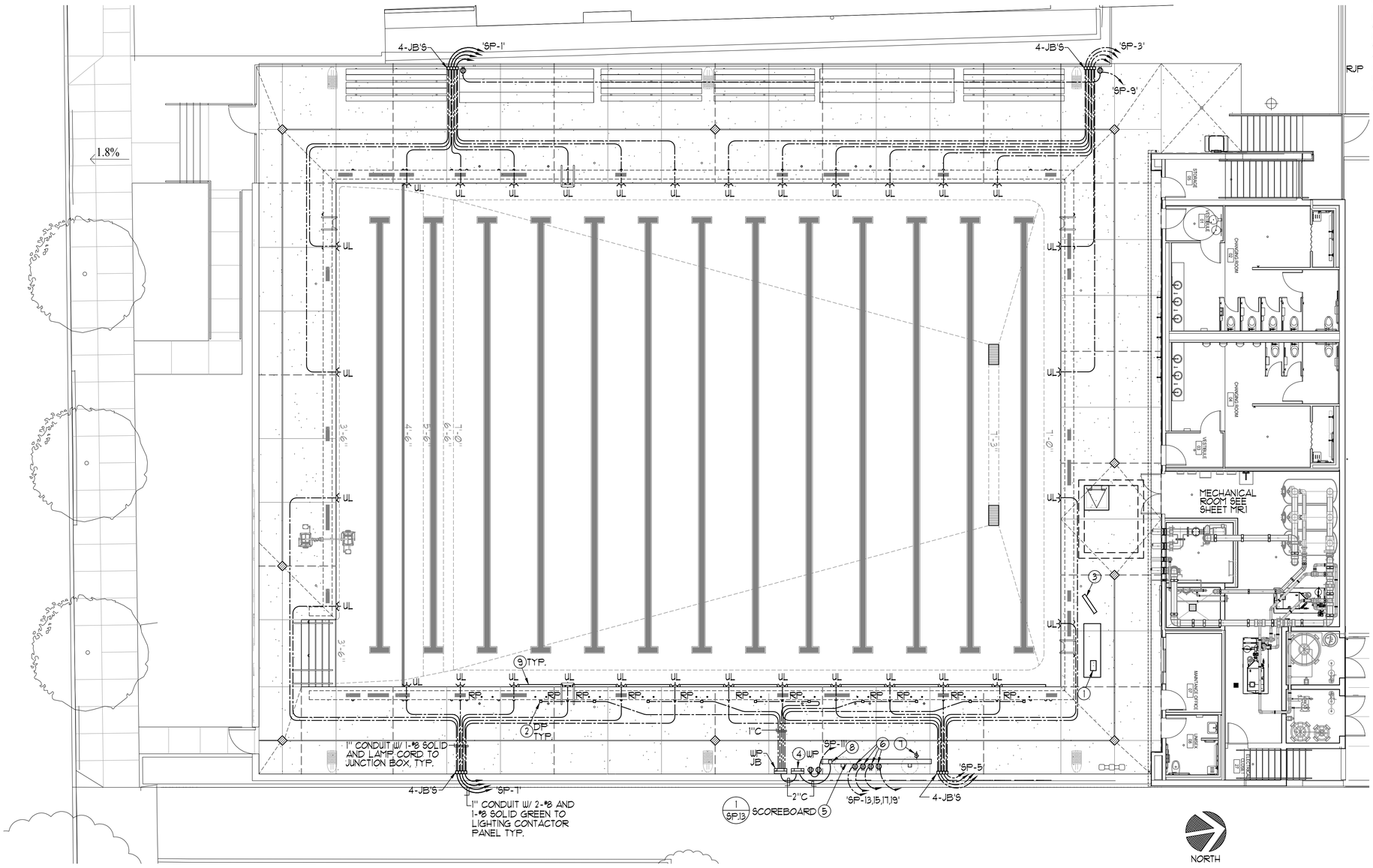
| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 1 | WATER POLO | WATER POLO PACKAGE TO INCLUDE HAND-HELD GAME CLOCK START/STOP/HORN SWITCH, HAND-HELD SHOT CLOCK START/STOP/RESET SWITCH AND ABOVE DECK SHOT CLOCK DATA CABLES |

**SCOREBOARD**

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| (5) 1 | SCOREBOARD (1/SP.13) | TEN-LINE OUTDOOR LED SCOREBOARD:<br>EACH MODULE INCLUDES: EIGHT, 10-INCH LED DIGITS. (CHOICE OF RED OR AMBER DIGITS) BEAM MOUNTING HARDWARE<br>SCOREBOARD FUNCTIONS: DISPLAY LANE, PLACE, AND TIME FOR LANES 1-10 ONE LINE TO DISPLAY HOME/GUEST SCORES ONE LINE TO DISPLAY LENGTHS/ RECORD TIME<br>(6) FOUR (4) DEDICATED 20 AMP CIRCUIT TO BE TERMINATED INTO SCOREBOARD LOAD CENTER<br>(7) MASTER ON/OFF SCOREBOARD SWITCH WITH PILOT LIGHT, W/ LOCKABLE ENCLOSURE.<br>(8) SCOREBOARD DATA CONNECTION BOX CONNECT TO TIMING/WALL BOX LOCATION W/ 1½" PVC CONDUIT. |

**PACE CLOCK/WATER POLO SHOT CLOCK/REACTION TIMER**

| QTY | MODEL | DESCRIPTION |
|---|---|---|
| 2 | TIMER | MULTI-USE OUTDOOR TIMER WITH 7" OUTDOOR LED LIGHTS<br>PACE CLOCK FUNCTIONS:<br>MULTI-SPORT TIMING/SCORING CONSOLE CAPABLE OF DOWNLOADING WORKOUTS FROM HY-TEK WORKOUT MANAGER. UNIT CAPABLE OF OPERATING AS A STAND-ALONE PACE CLOCK. FUNCTIONS INCLUDE COUNT UP, WORKOUT PROGRAM, TIME OF DAY.<br>WATER POLO SHOT CLOCK FUNCTIONS:<br>OPERATES IN CONJUNCTION WITH MULTI-SPORT TIMING/SCORING CONSOLE TO ACT AS A PORTABLE BATTERY-OPERATED WATER POLO SHOT CLOCK. CAN ALSO ACT AS STAND-ALONE SHOT CLOCK OPERATED BY SWITCHES ON THE SIDE OF THE UNIT.<br>REACTION TIMER FUNCTIONS:<br>OPTIMIZES START REACTION TIMES AND PERFECTS RELAY EXCHANGES WHEN USED IN CONJUNCTION WITH TOUCHPAD AND/OR RELAY JUDGING PLATFORM. |
| RJP | | RELAY JUDGING PLATFORM TO BE USED IN CONJUNCTION WITH MULTI-USE OUTDOOR TIMER |




1 SWIMMING POOL UNDERWATER LIGHT / TIMING SYSTEM PLAN 1/8"=1'-0"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**SWIMMING POOL UNDERWATER LIGHT / TIMING SYSTEM PLAN**

Sheet Number

# SP.3

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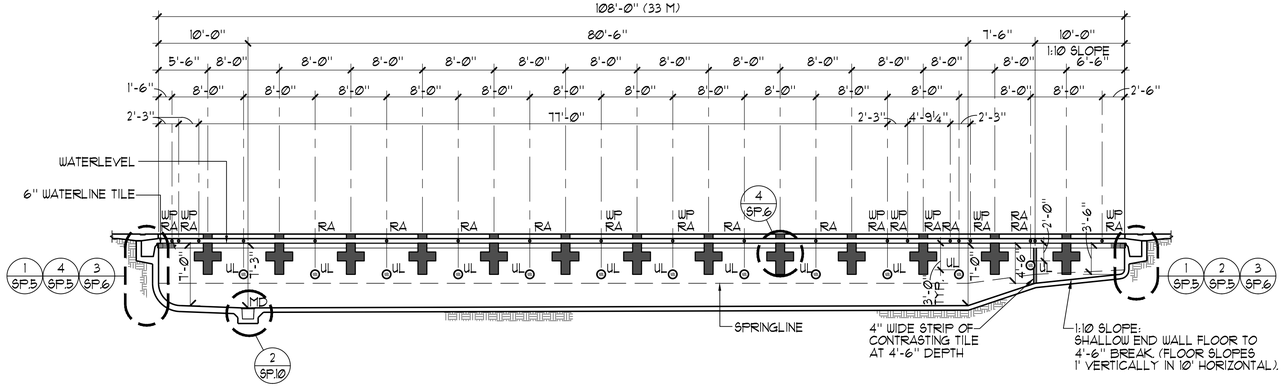
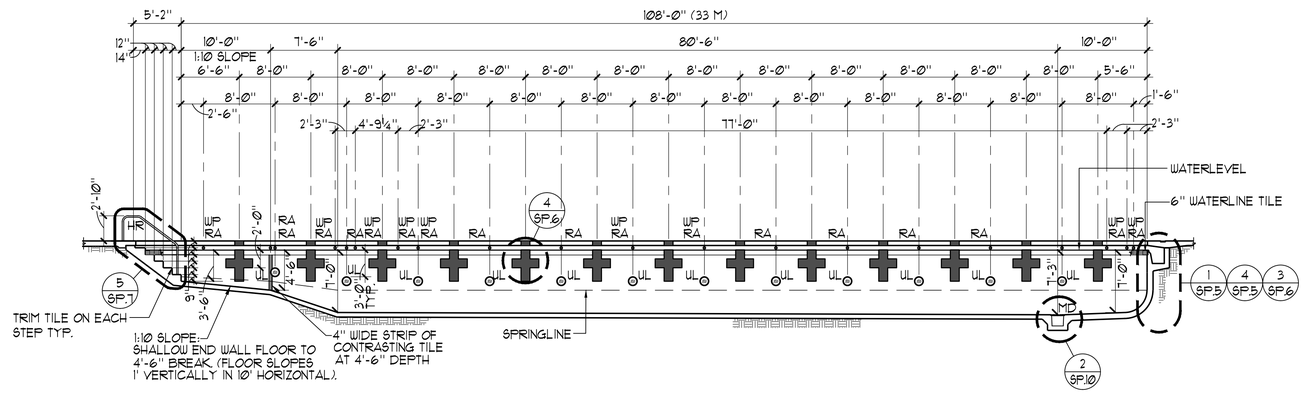



## A SWIMMING POOL SECTION

1/8"=1'-0"




## B SWIMMING POOL SECTION

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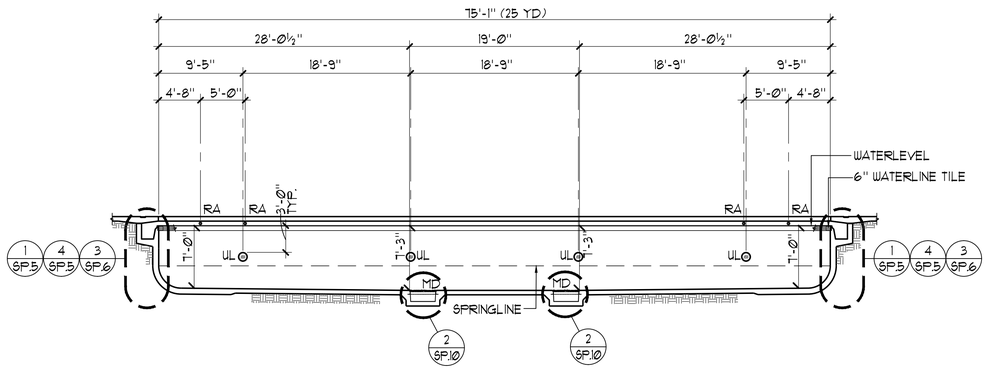
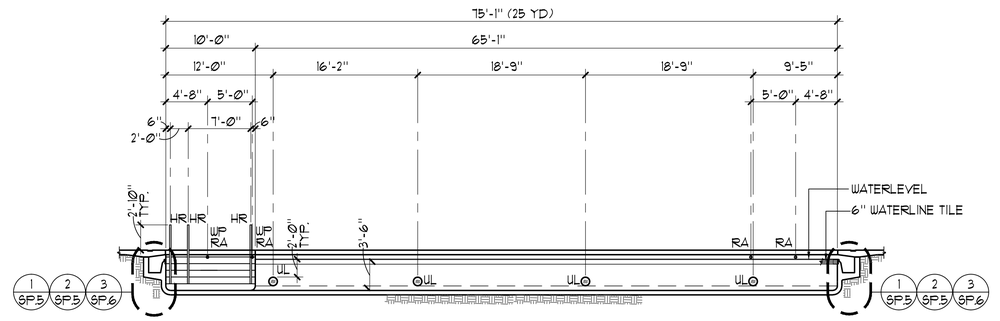



## C SWIMMING POOL SECTION

1/8"=1'-0"




## D SWIMMING POOL SECTION

1/8"=1'-0"

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Sheet Title

**SWIMMING POOL SECTIONS**

Sheet Number

# SP.4

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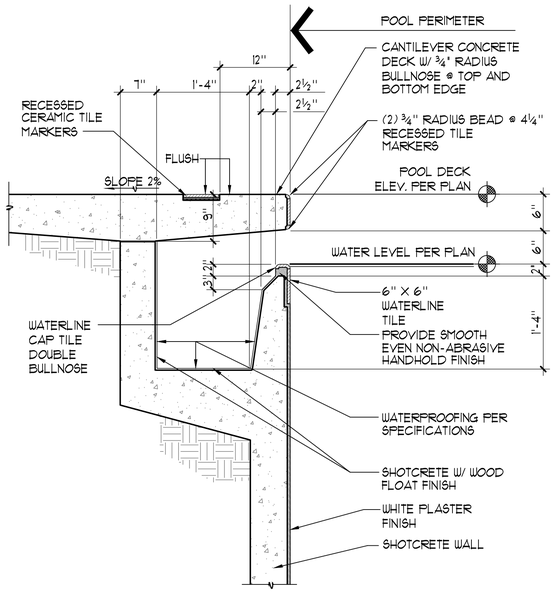
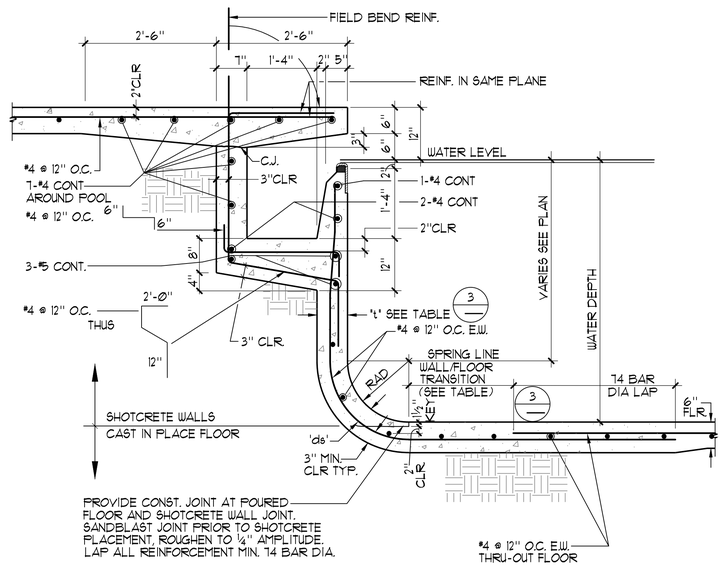



1 **TYPICAL GUTTER DETAIL** 1"=1'-Ø"




2 **POOL WALL 3'-6" TO 4'-6"** ¾"=1'-Ø"

| REINFORCEMENT TABLE | | | | | | |
|---|---|---|---|---|---|---|
| WATER DEPTH | 't' | 'ds' | RADIUS | VERTICAL REINF. | HORIZONTAL REINF. | TRANSITION TO FLOOR REINF. BEYOND END RADIUS |
| 3'-6" | 6" | 3" | 6" | #4 @ 12" O.C. | #4 @ 12" O.C. | 24" |
| 3'-7" TO 4'-6" | 6" | 3" | 6" TO 18" | #4 @ 12" O.C. | #4 @ 12" O.C. | 24" |
| 4'-7" TO 7'-3" | 9" | 6" | 18" TO 2'-6" | #4 @ 6" O.C. | #4 @ 8" O.C. | 24" |

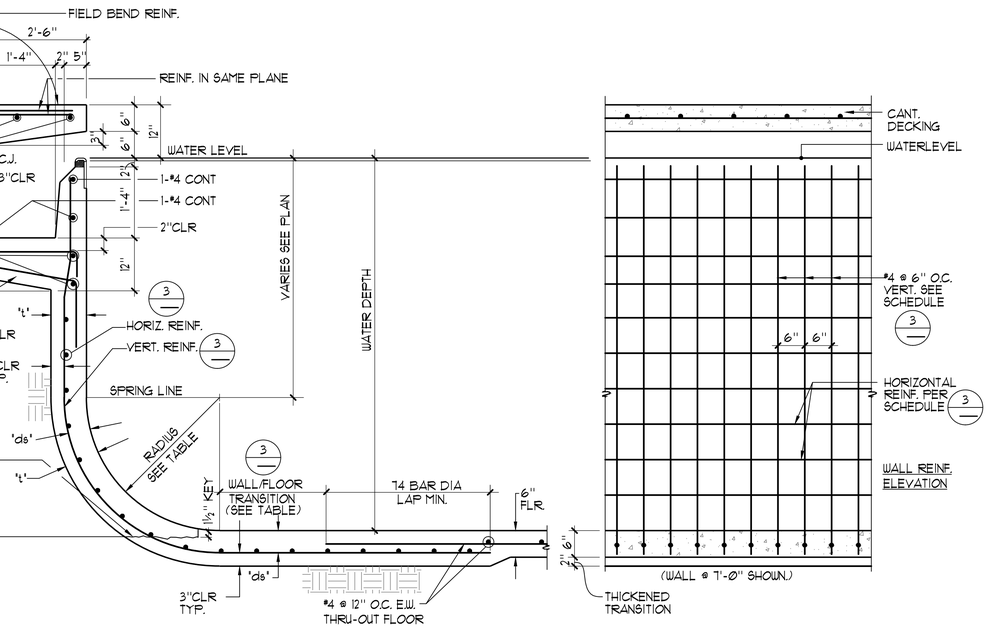
## CONCRETE NOTES:

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS.
   POOL = 3,000 PSI
   SLAB-ON-GRADE = 4,000 PSI WITH WATER / CEMENT RATIO OF Ø.55
2. CONTINUOUS INSPECTION BY AN D.S.A. APPROVED INSPECTOR IS REQUIRED OF ALL CONCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II.
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 1".
5. CONCRETE MIX DESIGNS SHALL BE BASED UPON CBC SECTION 1904A2.
6. CONCRETE SHALL BE TESTED AND INSPECTED PER SECTION CBC 1705A.3 AND 1913A.1.
7. REMOVAL OF FORMS SHALL COMPLY WITH ACI-14, 26.11.
8. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 74 BAR DIA.

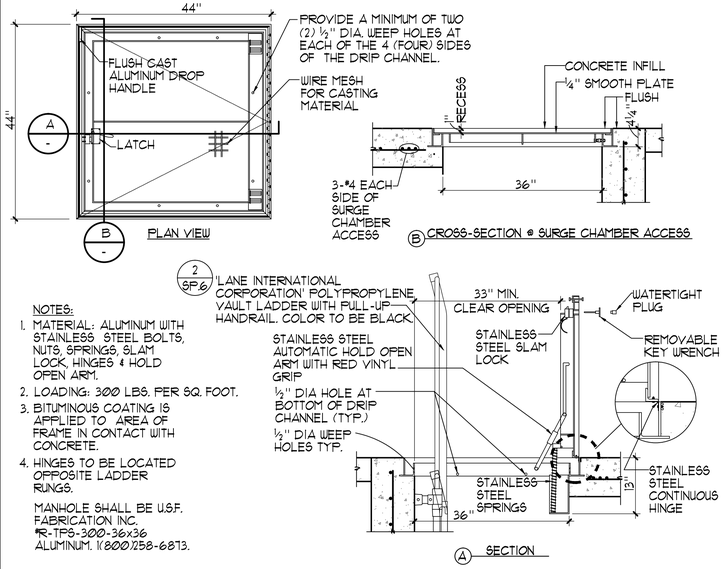
## SHOTCRETE NOTES:

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS POOL WALLS = 3000 PSI.
2. CONTINUOUS INSPECTION BY AN D.S.A. APPROVED INSPECTOR IS REQUIRED OF ALL SHOTCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II.
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE ⅜".
5. SHOTCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1908A.2.
6. SHOTCRETE SHALL BE TESTED AND INSPECTED PER SECTIONS 1705A.3 AND 1908A.5.
7. ANCHOR BOLTS, ANCHORS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.
8. ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN MINIMUM 2" CLEAR NON-CONTACT SPLICES.
9. THE FILM OF LAITANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS AFTER APPLICATION BY BRUSHING WITH A STIFF BROOM. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THOROUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE.
10. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 74 BAR DIA.

3 **REINFORCEMENT TABLE**




4 **POOL WALL 4'-7" TO 7'-3"** ¾"=1'-Ø"




NOTES:
1. MATERIAL: ALUMINUM WITH STAINLESS STEEL BOLTS, NUTS, SPRINGS, SLAM LOCK, HINGES & HOLD OPEN ARM.
2. LOADING: 300 LBS. PER SQ. FOOT.
3. BITUMINOUS COATING IS APPLIED TO AREA OF FRAME IN CONTACT WITH CONCRETE.
4. HINGES TO BE LOCATED OPPOSITE LADDER RUNGS.

MANHOLE SHALL BE U.S.F. FABRICATION INC. #R-TF6-300-36x36 ALUMINUM. 1(800)258-6873.

2/SP.6 'LANE INTERNATIONAL CORPORATION' POLYPROPYLENE VAULT LADDER WITH FULL-UP HANDRAIL. COLOR TO BE BLACK.




5 **SURGE CHAMBER ACCESS COVER** ¾"=1'-Ø"

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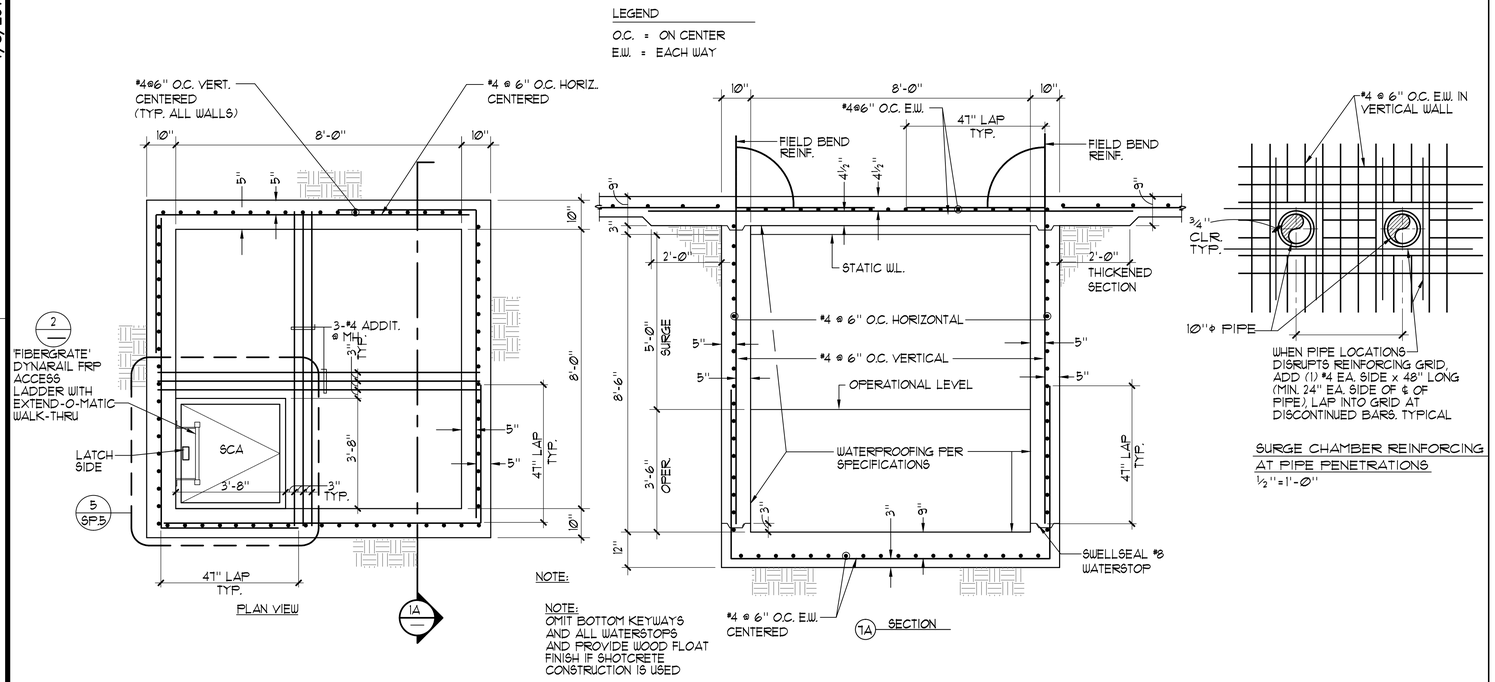
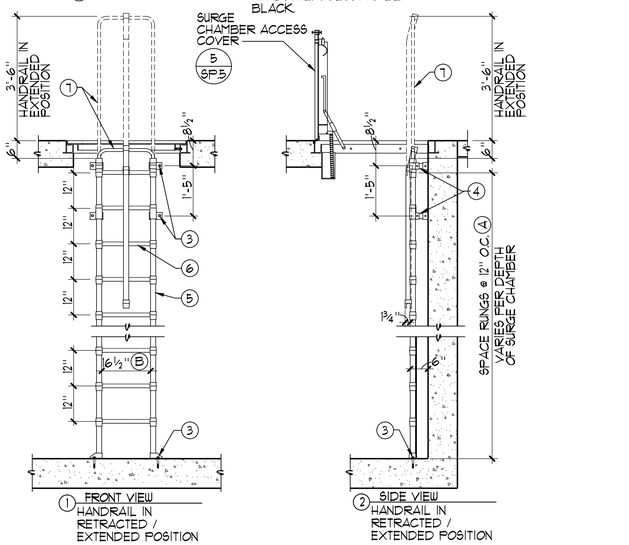



NOTES:
1. LADDERS WITH PULL-UP HANDRAIL AVAILABLE IN 5 RUNG THROUGH 25 RUNG.
2. POLYPROPYLENE CONFORMS TO ASTM D-4101. LADDERS MEET ALL ASTM C-497 LOAD REQUIREMENTS AND OSHA 1910.26 AND 1910.27 SPECIFICATIONS.
3. FASTEN LADDER TO FLOOR AND WALL WITH ½"ϕ STAINLESS STEEL HILTI KB TZ (ESR 1917) W/ 2" MIN. EMBED TYP.
4. STANDARD ADJUSTABLE MOUNTING BRACKET - 8" O.D.
5. ALUMINUM REINFORCED COPOLYMER POLYPROPYLENE RAIL ¾" x ¾" DIA.
6. STEEL REINFORCED COPOLYMER POLYPROPYLENE RUNG ⅜" x 1¼" DIA. WITH MOLDED FINGER GRIPS, 12" C.C.
7. ALUMINUM AND STEEL REINFORCED COPOLYMER POLYPROPYLENE PULL-UP HANDRAIL.

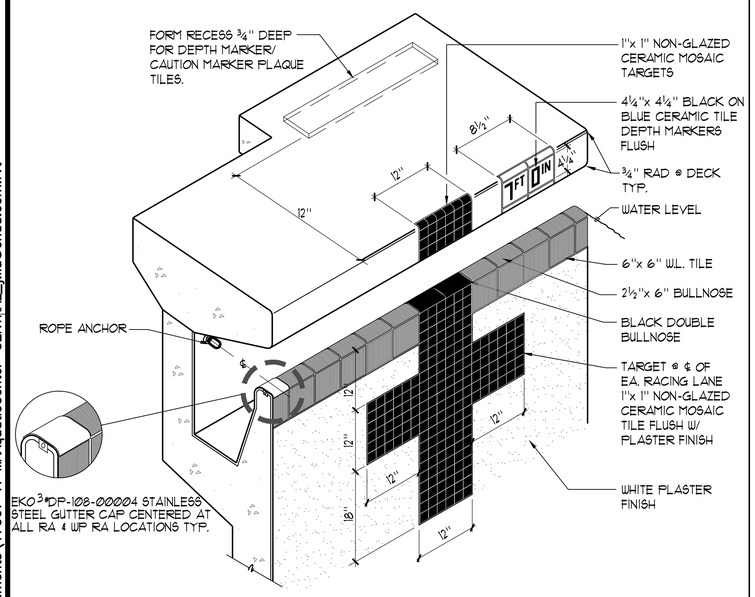
CONTRACTOR TO VERIFY:
- A. OVERALL LADDER HEIGHT
- B. LADDER WIDTH

'LANE INTERNATIONAL CORPORATION' POLYPROPYLENE VAULT LADDER WITH PULL-UP HANDRAIL. COLOR TO BE BLACK.

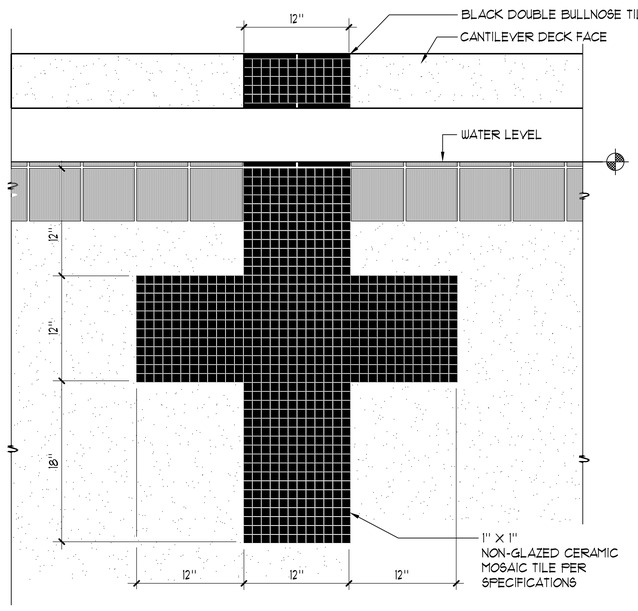



## 1 SURGE CHAMBER ½"=1'-0"

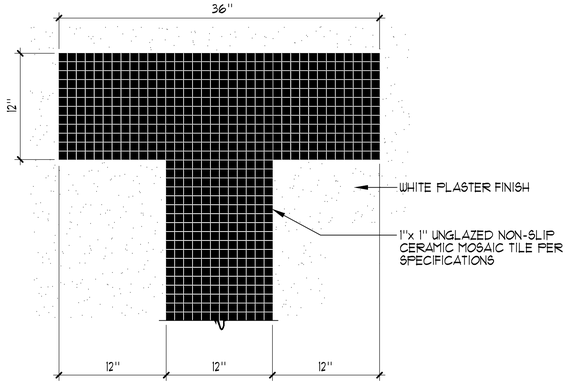
## 2 SURGE CHAMBER ACCESS LADDER ½" = 1'-0"




## 3 DEEP GUTTER PERSPECTIVE NO SCALE




## 4 END WALL TARGET 1½" = 1'-0"




PLAN VIEW

## 5 RACING LANE LINE 1½"=1'-0"

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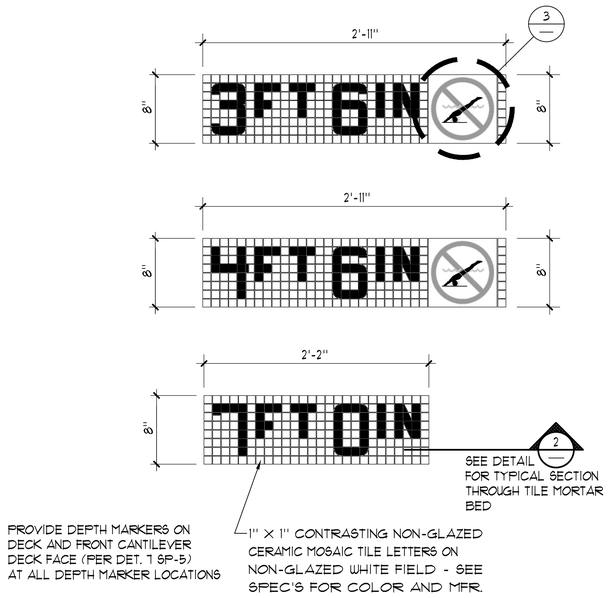
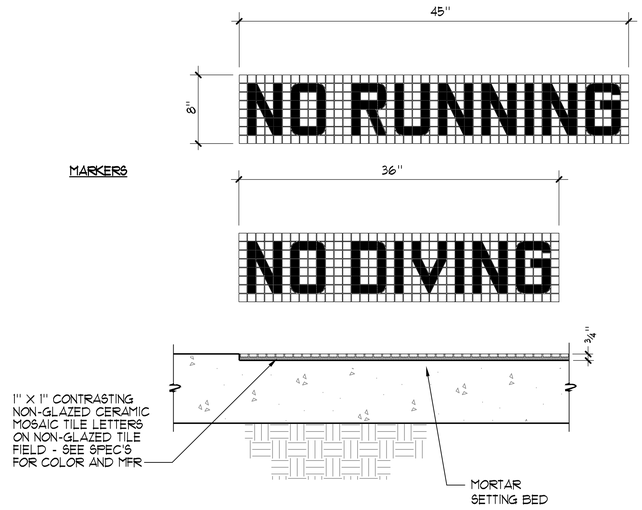



## 1 DEPTH MARKERS

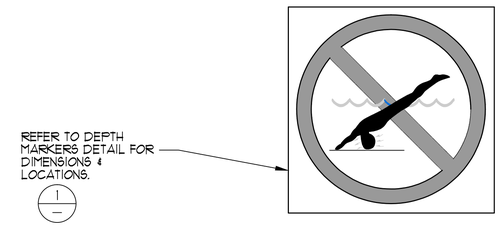
1½" = 1'-0"




SECTION THROUGH TILE

## 2 "NO RUNNING" / "NO DIVING" MARKERS

1½" = 1'-0"



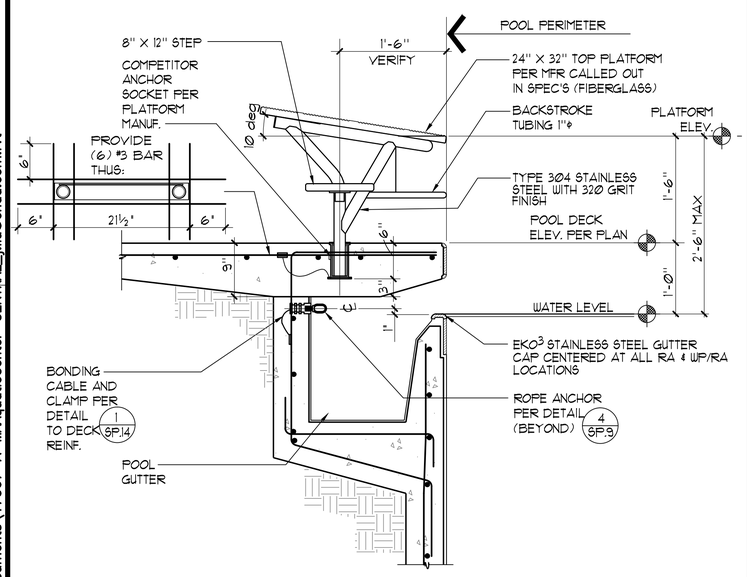

NOTE: PLACE IN DECK AT ALL DEPTH MARKER LOCATION OF 6'-0" OR LESS.

SILK SCREEN

1. INLAYS DOUBLE GLAZED WHITE SLIP RESISTANT TILE TYP. OF (1) PIECE OVER ¼" MORTAR BED WITH 1/16" GROUT JOINTS. SEE PLAN FOR LOCATION.
2. 1" WIDE RED CIRCLE WITH 1" WIDE RED DIAGONAL LINE.
3. ⅛" BLUE WATER.
4. 1/16" RED TICKS ABOUT THE HEAD.
5. TAN COLOR BODY WITH BLACK OUTLINE, HAIR AND TRUNKS.
6. ⅛" BLACK POOL FLOOR.

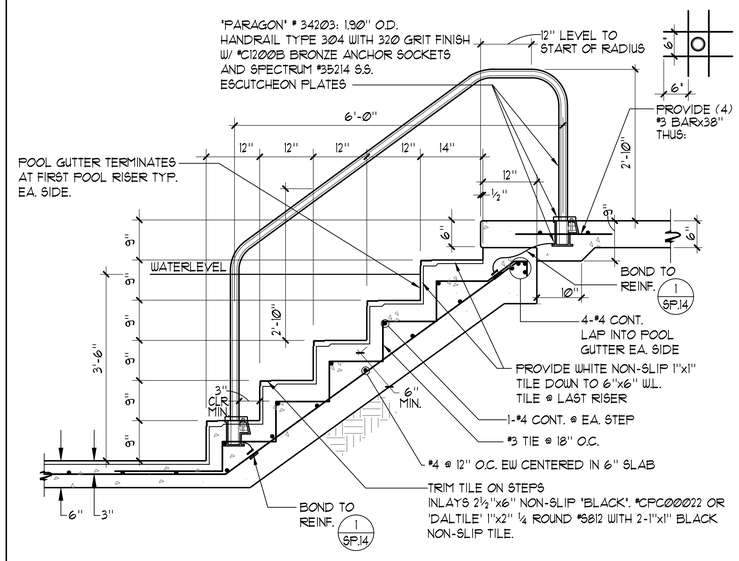
## 3 INTERNATIONAL "NO DIVING" MARKER

3"=1'-0"



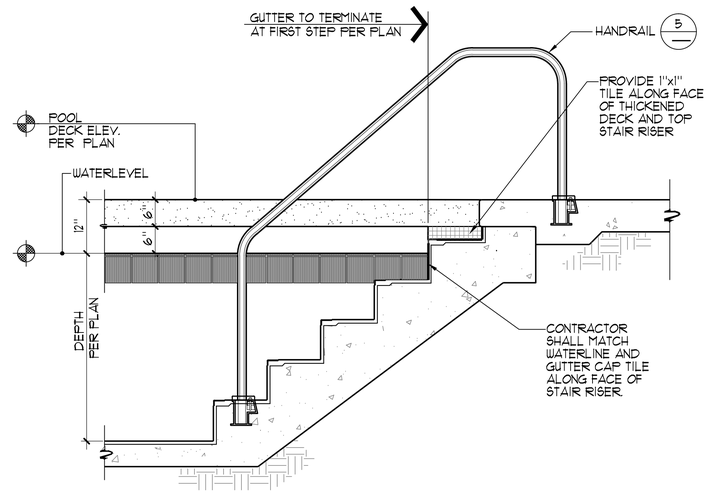

## 4 RACING PLATFORM

1"=1'-0"




## 5 HANDRAIL DETAIL

¾"=1'-0"




## 6 GUTTER EDGE AT STAIRS

¾"=1'-0"

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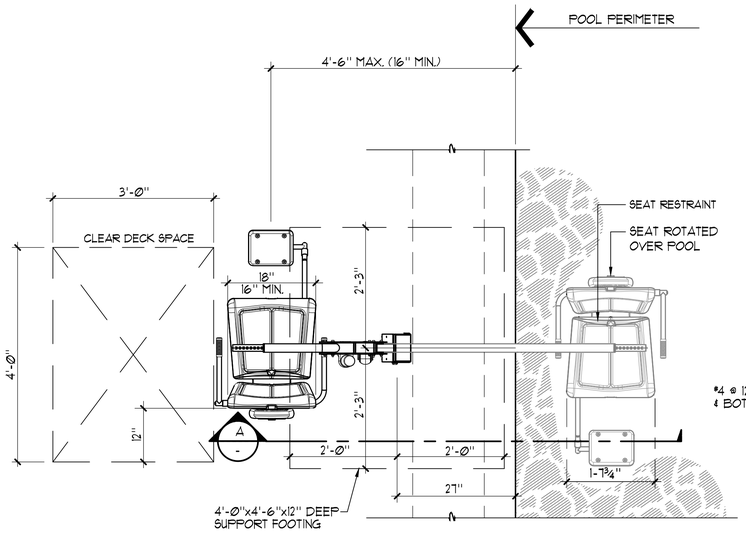
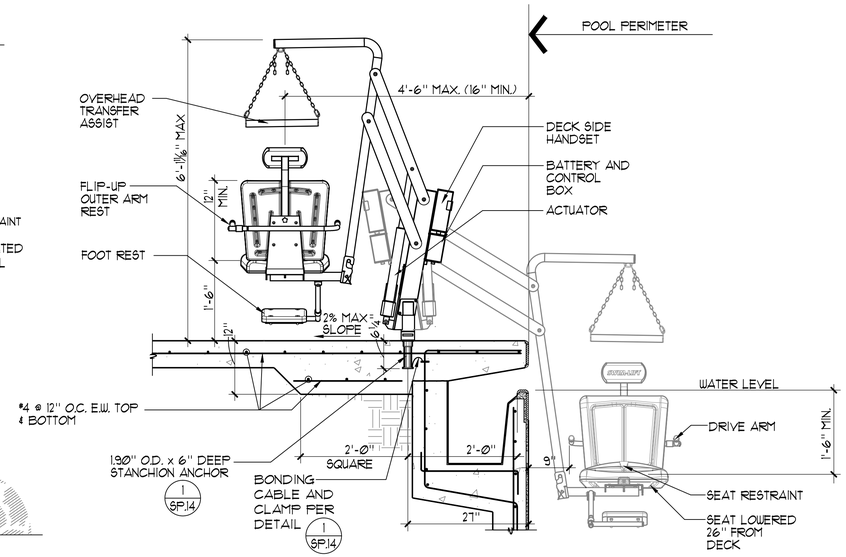



TOP VIEW



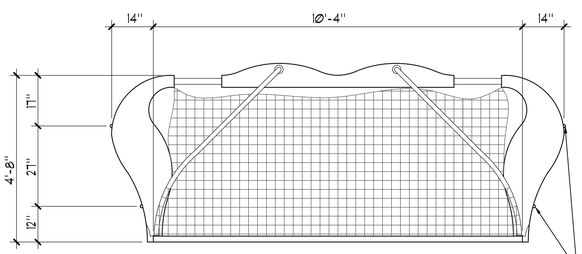

SIDE VIEW A

## NOTES:

1. 'SPECTRUM' TRAVELER XRC 500 #26705 (350 lb. MIN. AND 350 lb. MAX. LIFTING CAPACITY)
2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'SPECTRUM' #27365; EXTRA BATTERY PACK 'SPECTRUM' #13257; AND TRANSPORTER CART 'SPECTRUM' #26060.
4. UTILIZE OUTLET IN SWIM TEAM ROOM FOR DISABLED LIFT BATTERY CHARGE STATION. SEE SP.3.
5. POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP , UNLESS ENTIRE POOL IS GREATER THAT 48" DEEP. (CBC SECTION 11B-1009.2.1)
6. ON THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16" MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.2)
7. CLEAR DECK SPACE SHALL BE PROVIDED ON SIDE OF SEAT OPPOSITE THE WATER PARALLEL TO THE WATER 36" WIDE x 48" MINIMUM FROM A LINE LOCATED 12" BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR SPACE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.3)
8. THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 17" MIN. TO 19" MAX. MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.4)
9. THE SEAT SHALL BE RIGID AND 17" MIN. TO 19" MAX. WIDE. THE LIFT SEAT SHALL HAVE A BACK SUPPORT 12" MIN. TALL. (CBC SECTION 11B-1009.2.4)
10. FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. LIFT SHALL HAVE TWO ARMRESTS. THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.6)
11. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM BOTH THE DECK AND WATER LEVELS. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE (CBC SECTION 11B-309.4.) LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT. (CBC SECTION 11B-1009.2.7)
12. THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18" MIN. BELOW THE STATIONARY WATER LEVEL. (CBC SECTION 11B-1009.2.8)
13. LIFT SEAT MUST HAVE AN OCCUPANT RESTRAINT FOR USE BY THE OCCUPANT OF THE SEAT AND THE RESTRAINT MUST MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH CBC SECTION 11B-1009.2.4 AND SECTION 11B-309.

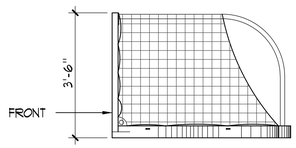
## 1 ACCESSIBLE LIFT

¾"=1'-0"




PLAN VIEW

SIDE AND REAR ROPE TETHERS

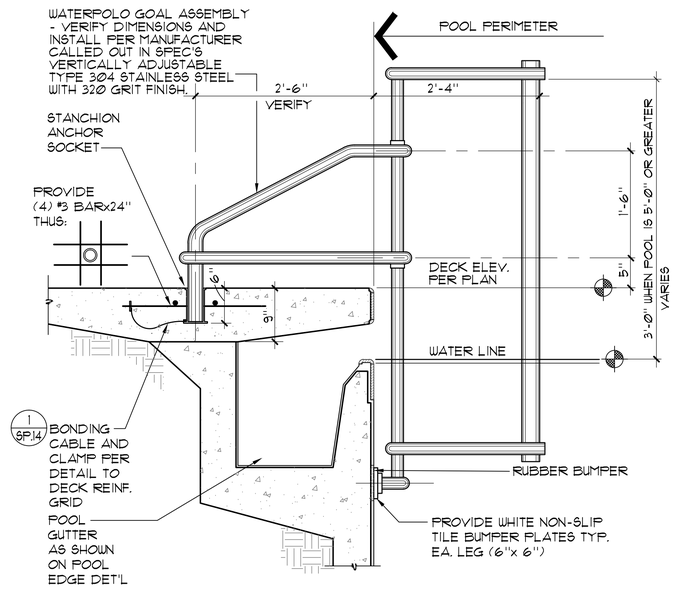



ANTI FLOATING WATERPOLO GOALS TO MEET NFSHA & USA WATERPOLO STANDARDS OR EQUAL

SIDE VIEW

## 2 FLOATING WATER POLO GOALS

½"=1'-0"




## 3 WATERPOLO GOAL

1"=1'-0"

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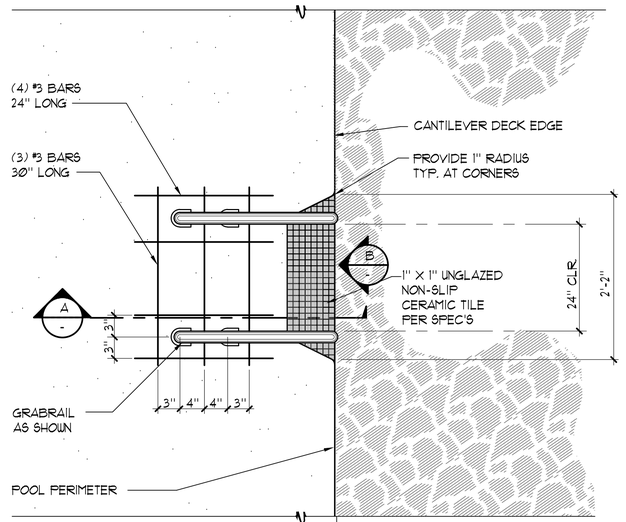
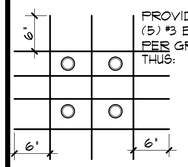
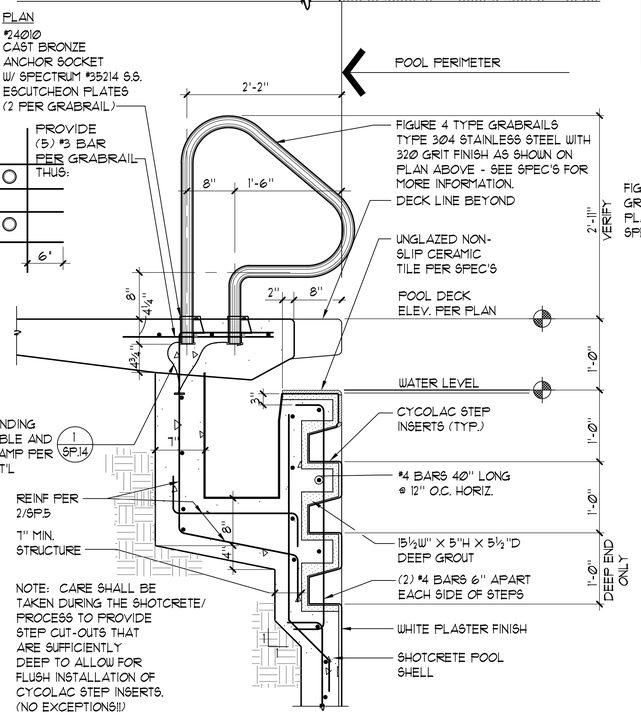



PLAN

#2401Ø
CAST BRONZE
ANCHOR SOCKET
W/ SPECTRUM #35214 S.S.
ESCUTCHEON PLATES
(2 PER GRABRAIL)

PROVIDE
(5) #3 BAR
PER GRABRAIL
THUS:

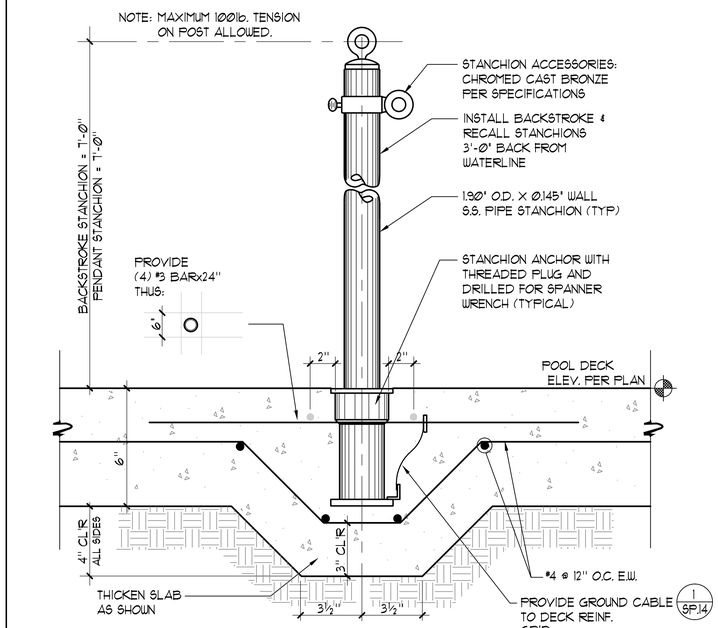


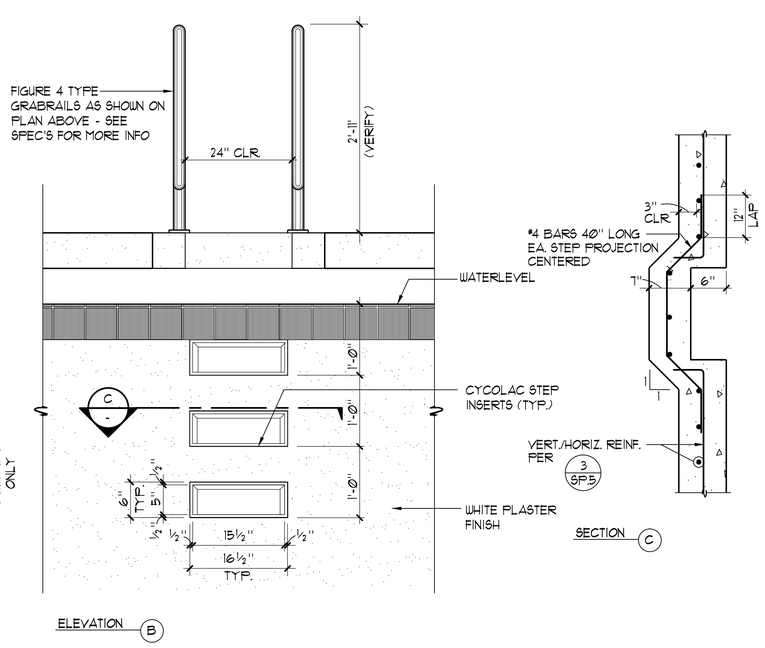

NOTE: CARE SHALL BE TAKEN DURING THE SHOTCRETE/ PROCESS TO PROVIDE STEP CUT-OUTS THAT ARE SUFFICIENTLY DEEP TO ALLOW FOR FLUSH INSTALLATION OF CYCOLAC STEP INSERTS. (NO EXCEPTIONS!!)

SECTION (A)

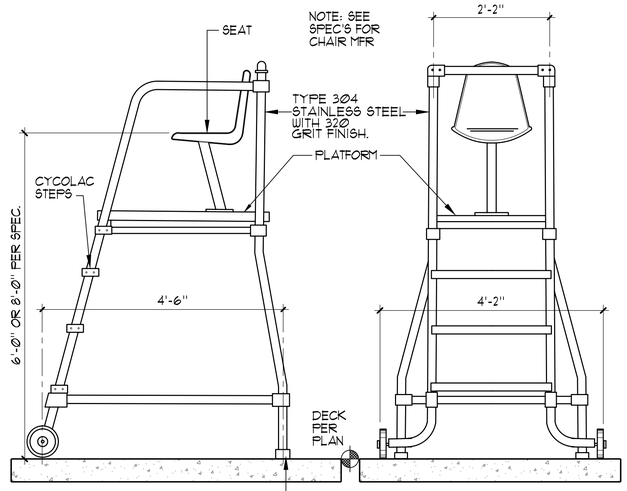
## 1 GRABRAIL WITH STEPS 1"=1'-Ø"




## 2 STANCHION POST/ANCHOR 3"=1'-Ø"

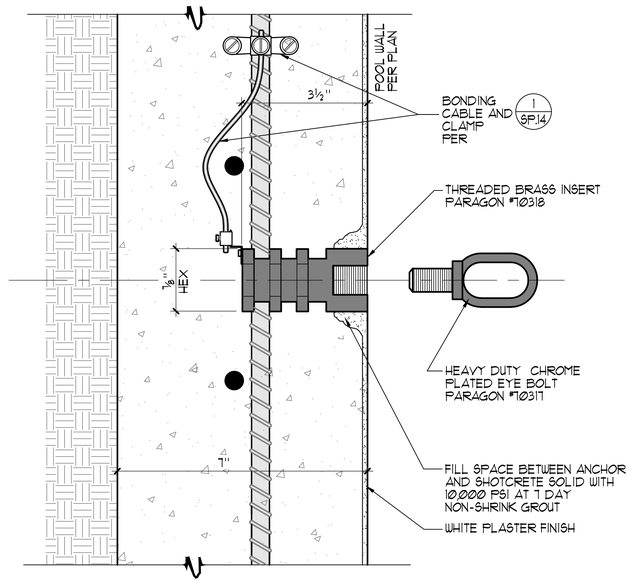



ELEVATION (B)




**SIDE VIEW** **FRONT VIEW**

## 3 MOVEABLE LIFEGUARD CHAIR ¾"=1'-Ø"




## 4 ROPE ANCHOR ½" = 1"

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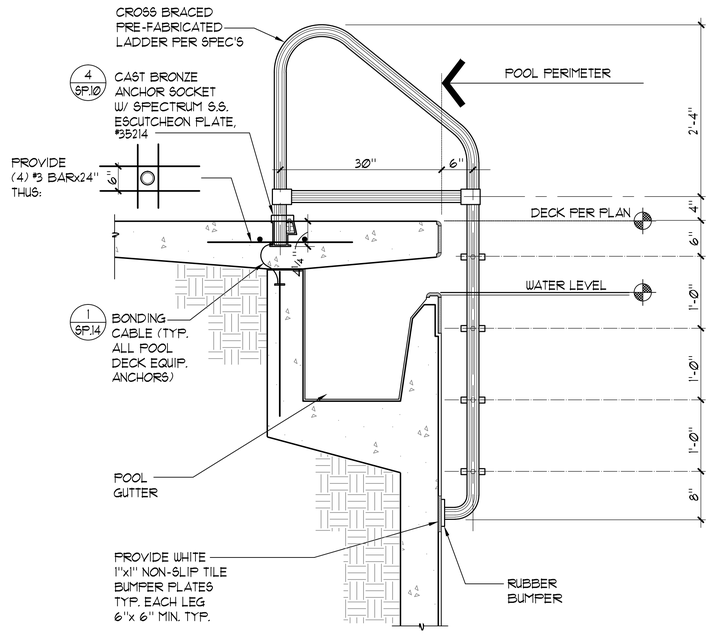
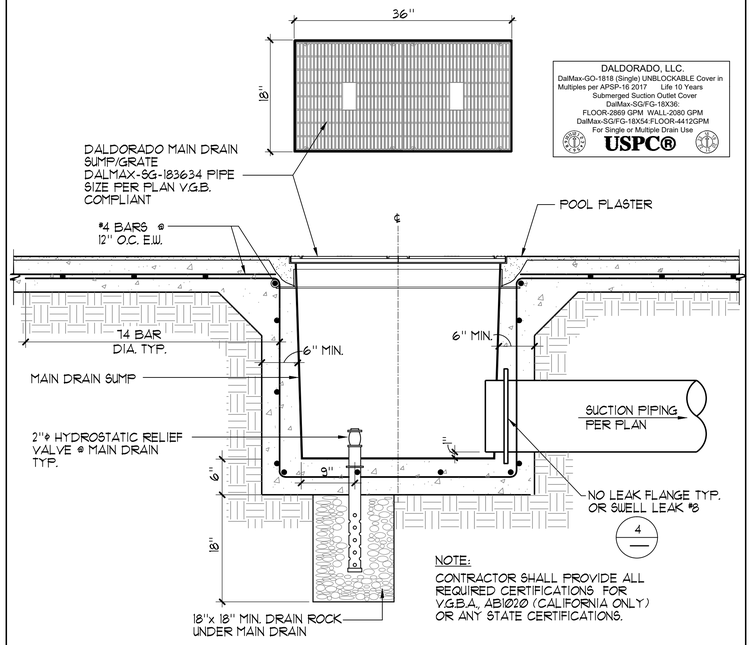
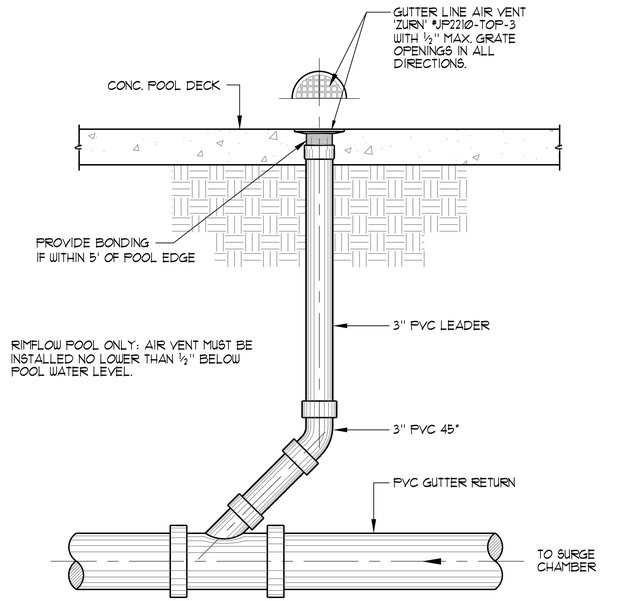


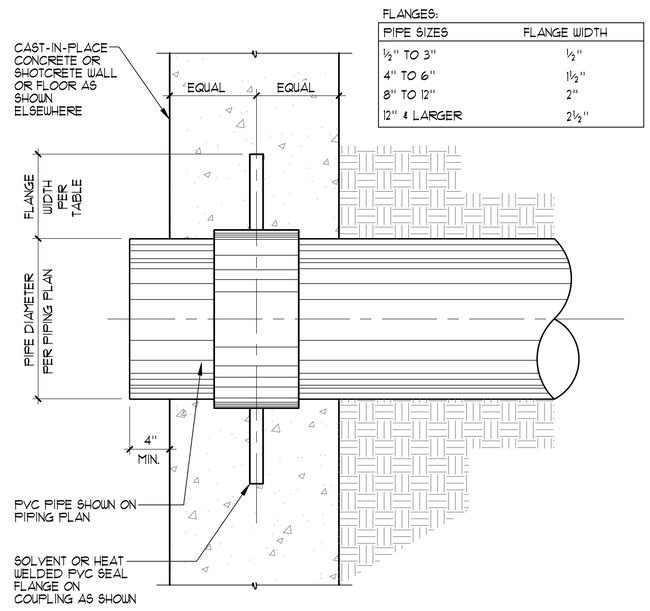

## 1 POOL LADDER 1"=1'-0"




## 2 MAIN DRAIN 1"=1'-0"




## 3 AIR VENT 1"=1'-0"

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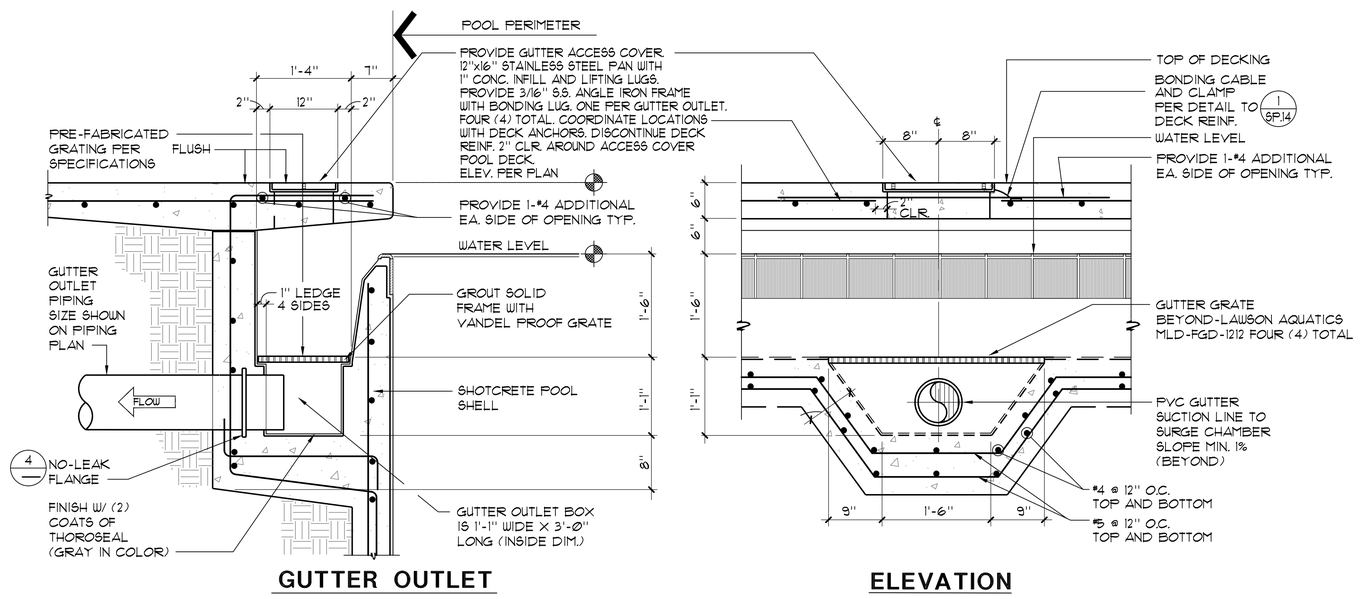


## 5 GUTTER OUTLET 1"=1'-0"

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# MARIN ACADEMY AQUATIC CENTER

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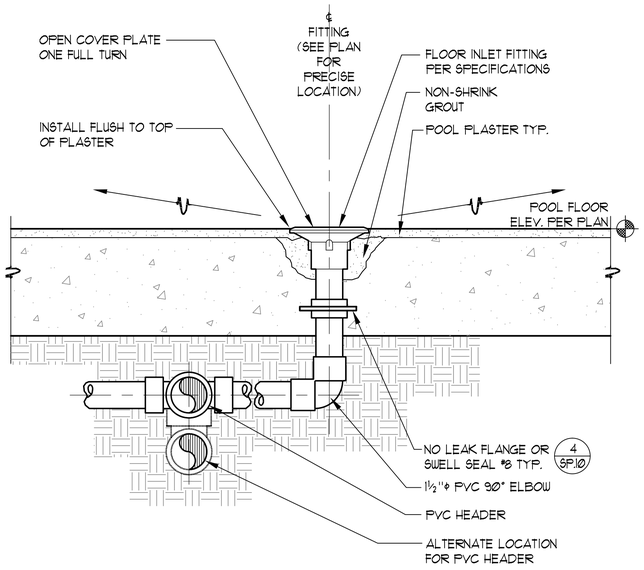
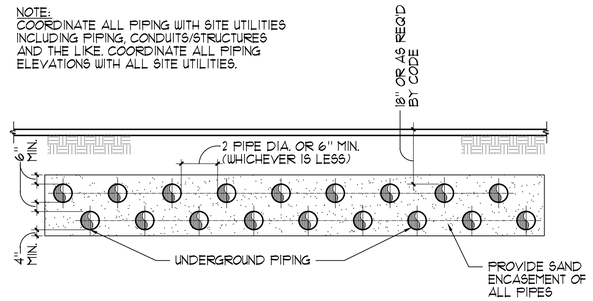
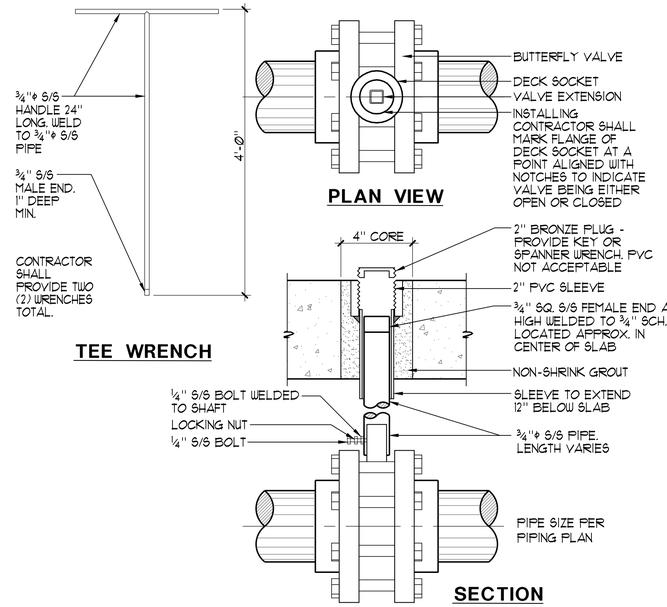



1 **FLOOR INLET** 3"=1'-0"

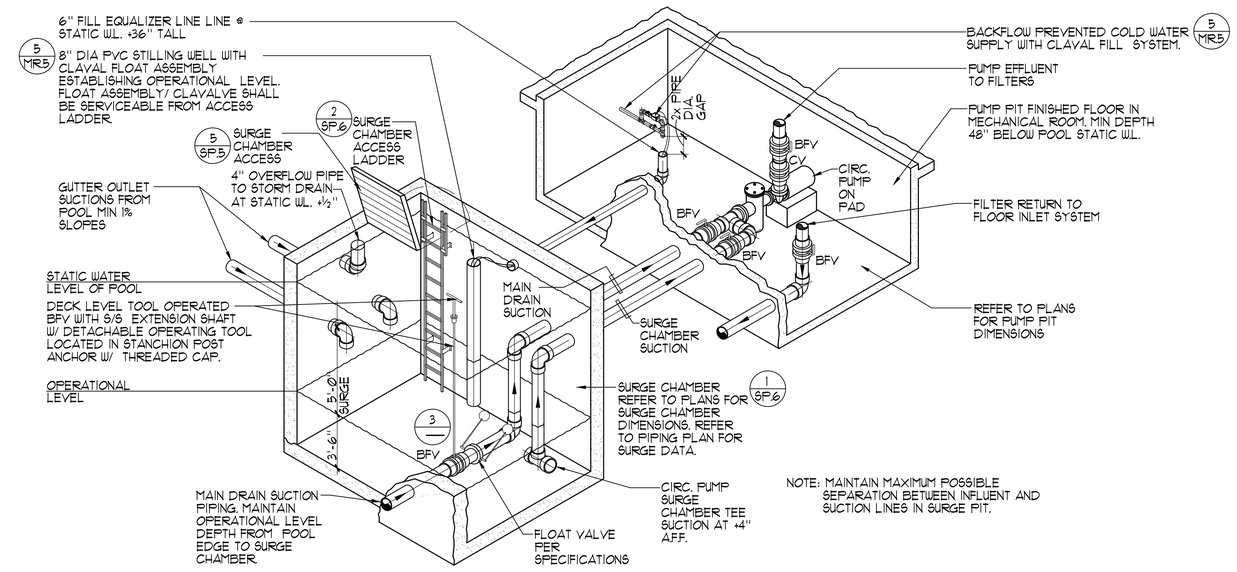



2 **STACKED UNDERGROUND PIPING** NO SCALE



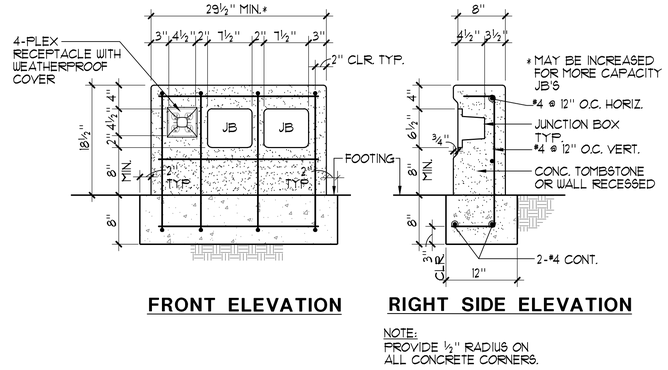

NO SCALE

3 **SURGE CHAMBER BUTTERFLY VALVE / EXTENSION DETAIL**




NOTE: MAINTAIN MAXIMUM POSSIBLE SEPARATION BETWEEN INFLUENT AND SUCTION LINES IN SURGE PIT.

4 **SURGE CHAMBER PIPING SCHEMATIC** NO SCALE




FRONT ELEVATION

RIGHT SIDE ELEVATION

NOTE:
PROVIDE ½" RADIUS ON ALL CONCRETE CORNERS.

1"=1'-0"

5 **UNDERWATER LIGHT JUNCTION BOX CONCRETE SURROUND DETAIL**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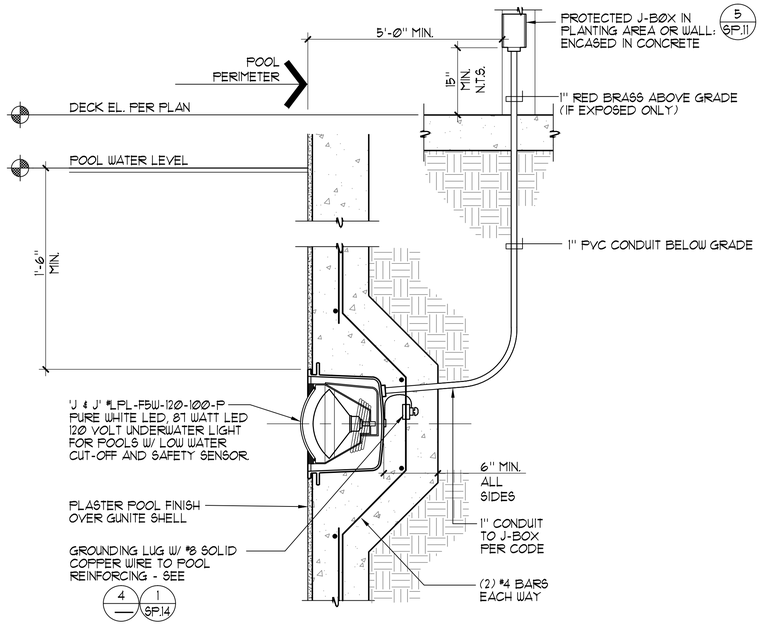


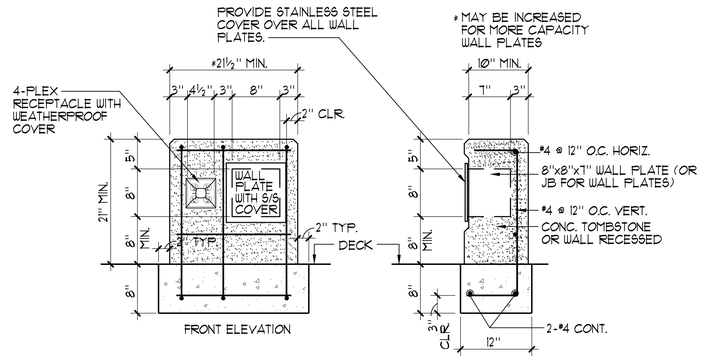

UNDERWATER LIGHT NOTES:

4 / 5/SP.11

1. ALL CONDUITS IN POOL LIGHTING SYSTEM TO BE A MINIMUM OF 1"ø.
2. CONDUCTORS TO POOL. J-BOXES SHALL BE MINIMUM 2-#8 & 1#8 (SEE UNDERWATER LIGHT PLAN) SOLID UNBROKEN TO MAIN PANEL ISOLATED GROUND BUSS. THIS BUSS IS TO BE CONNECTED WITH SOLID INSULATED #8 COPPER WIRE TO UFER & COLDWATER GROUNDING LUG ON GROUNDING BUSS. UPSIZE CONDUCTORS AS REQUIRED FOR HOMERUNS EXCEEDING 100'.
3. ALL BRASS POOL J-BOXES SHALL BE FLUSH MOUNTED IN WALLS. IF FLUSH MOUNTING IS NOT POSSIBLE THEN MOUNTING SHALL BE SURFACE MOUNTED AND CONCRETE ENCASED.
4. CONDUITS WHERE ALLOWED BY CODE SHALL BE P.V.C. (POLYVINYL CHLORIDE) FROM WET NICHES TO BRASS J-BOXES TO LIGHTING PANEL. ALL CONDUITS IN FREE AIR SPACE AND ALL RISERS SHALL BE RED BRASS TYPICAL. PVC CONDUITS SHALL BE SOLVENT WELDED WITH PURPLE PRIMER AND GRAY HEAVY BODIED GLUE.
5. LIGHTING CONTACTORS SHALL BE "ALLEN-BRADLEY" #500 L± OR EQUAL MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO "HUBBELL" #1557 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REFER TO ELECTRICAL PLANS FOR LOCATION OF OWNER COORDINATED REMOTE UNDERWATER LIGHT SWITCH.
6. BRASS POOL J-BOXES SHALL BE "HYDREL" #7119 ± W/ 1" HUBS OR EQUAL. (NO DIE CAST BOXES).
7. STRINGS SHALL BE PULLED IN ALL CONDUITS PRIOR TO PLACEMENT OF CONCRETE.
8. LOCAL, COUNTY OR CITY CODES SHALL BE ADHERED TO, SPECIFICATIONS TO BE IN ACCORDANCE WITH SECTION 680 OF LATEST N.E.C. BOOK.
9. PROVIDE PULL BOXES AS MAY BE REQUIRED FOR RUNS EXCEEDING 150 FT. OR DUE TO CHANGES IN GRADE OR DIRECTION.
10. CONTRACTOR SHALL TEST UNDERWATER POOL LIGHT GFIC CIRCUITS AND PROVIDE LETTER TO OWNER/DSA UPON SUCCESSFUL TEST.
11. SEAL CONDUIT OPENING IN LIGHT NICHE WITH SILICON CAULKING AFTER LIGHT IS INSTALLED.
12. PRIOR TO LIGHT INSTALLATION, PROVIDE MINIMUM 10 PSI PRESSURE TEST ON ALL POOL LIGHT CONDUITS FOR FOUR (4) HOURS OBSERVED BY INSPECTOR OF RECORD. MAINTAIN PRESSURE UNTIL ALL DECKS ARE POURED.

## 1 UNDERWATER LED LIGHT

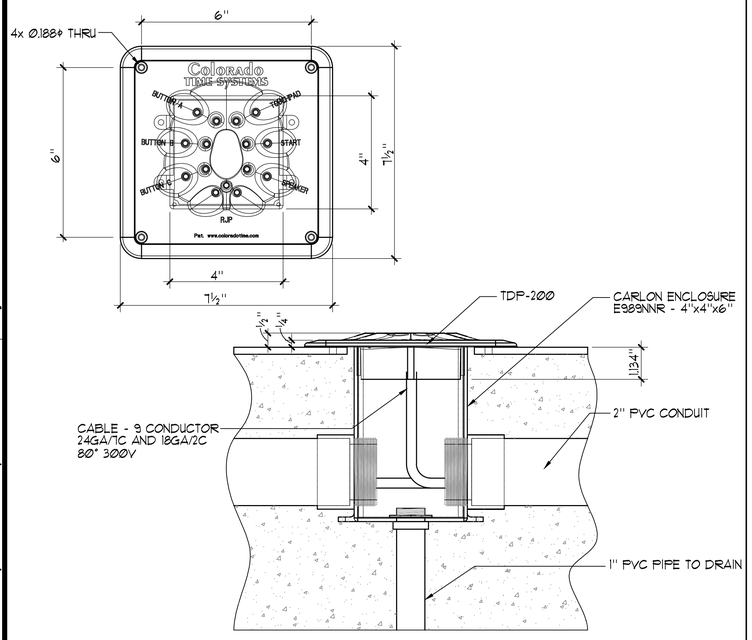
1½"=1'-0"




NOTE:
PROVIDE ¾" CHAMFER ON ALL CONCRETE CORNERS.

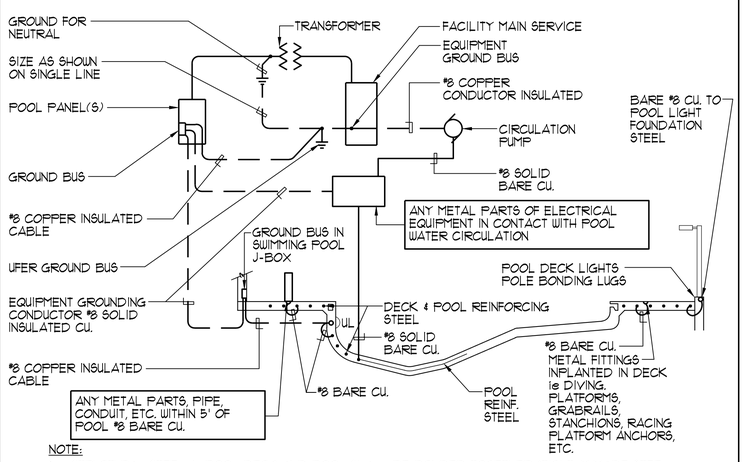
1"=1'-0"

## 2 TIMING SYSTEM WALL PLATE CONCRETE SURROUND DETAIL




NO SCALE

## 3 TITANIUM DECK PLATE DETAIL (LOCATED UNDER RACING PLATFORM)




NOTE:

1. STRUCTURAL STEEL IN POOL DECK AND POOL SHALL BE BONDED TOGETHER (TIGHTLY MADE STEEL TIE-WIRES ARE APPROVED FOR BONDING STRUCTURAL ELEMENTS).
2. BONDING CONNECTOR TO COMMON GRID. (POOL STEEL MAY BE USED FOR THAT PURPOSE) SHALL BE MADE BY PRESSURE CONNECTORS OR CLAMPS OF BRASS, COPPER, OR COPPER ALLOY.
3. ALL GROUND BUSES SHALL BE SIZED FOR CONNECTION TO AWG SIZE 8 WIRE PROVIDING ONE SPARE TERMINAL.
4. GROUND AND BOND IN ACCORDANCE WITH ARTICLE 680 OF THE CALIFORNIA ELECTRICAL CODE. ie. LADDERS, FENCING, POLE LIGHTS, DIVING & STARTING STANCHIONS, DISABLED LIFT ETC.
5. PROVIDE BONDING OF AUTOMATIC POOL COVER MOTORS REGARDLESS OF PROXIMITY TO POOL.

## 4 TYPICAL POOL BONDING AND GROUND DETAIL

NO SCALE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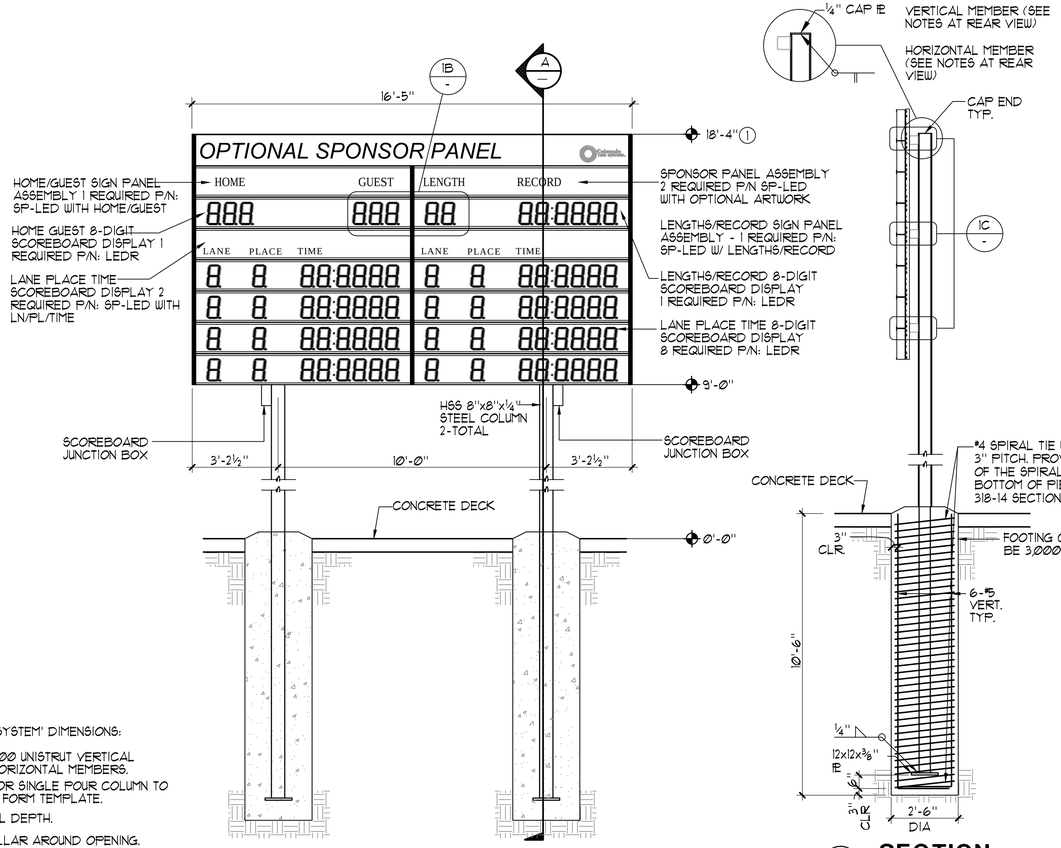



NOTES:

1. C.T.S. 'COLORADO TIME SYSTEM' DIMENSIONS: 9'-4"Hx16'-5"L PROVIDE THREE (3) P1000 UNISTRUT VERTICAL MEMBERS BOLTED TO HORIZONTAL MEMBERS.
2. PROVIDE FOOTING OK FOR SINGLE FOUR COLUMN TO BE HELD IN PLACE WITH FORM TEMPLATE.
3. VIBRATE CONCRETE FULL DEPTH.
4. PROVIDE PLYWOOD COLLAR AROUND OPENING.
5. CAP ALL TUBES
6. PROVIDE SHOP PRIME WITH ZINC ENRICHED PAINT.
7. PROVIDE FINISH EXTERIOR ACRYLIC PAINT. COLOR TO BE SELECTED BY OWNER/ARCHITECT.

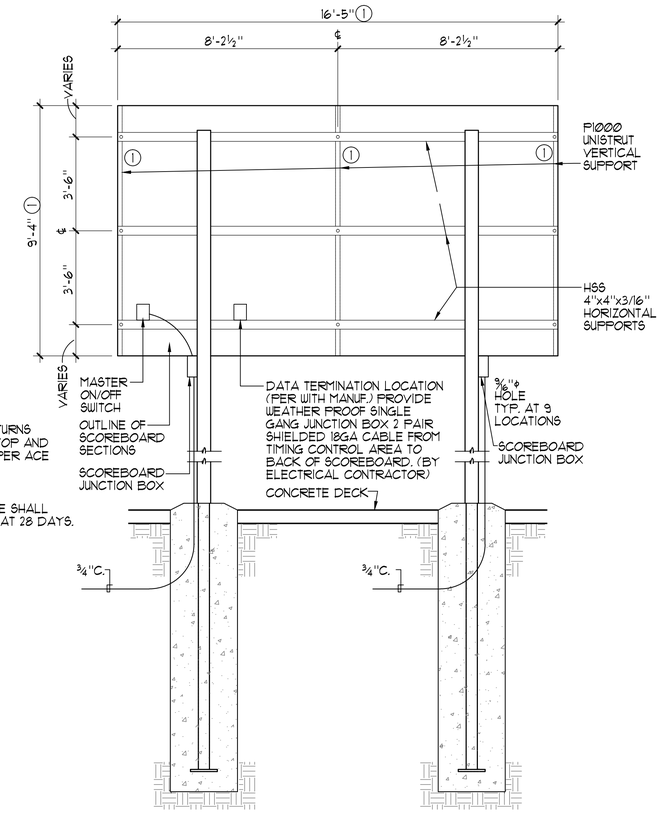
## FRONT VIEW

3/8"=1'-0"



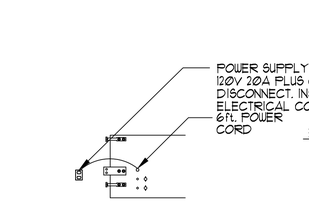

## A SECTION

3/8"=1'-0"




## REAR VIEW

3/8"=1'-0"




SPECIFICATIONS:

LED SCOREBOARD:

- DIGITS:
- DIGITS ARE 10" HIGH, 7 LED SEGMENTS EACH
- COLONS AND DECIMALS ARE VINYL
- CAPTIONS:
- ALL CAPTIONS ARE 5" HIGH, VINYL

IDENTIFICATION DISPLAY:

- LETTERS ARE 12" HIGH, VINYL
- DISPLAY FACE IS FINISHED ALUMINUM

ELECTRICAL HOOKUP DETAIL

GENERAL DISPLAY:

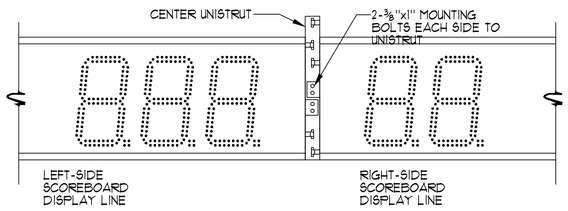
- SINGLE FACE
- ALL ALUMINUM CONSTRUCTION
- DISPLAY FINISH TO BE SPECIFIED
- DIMENSIONS ARE SUBJECT TO CHANGE DUE TO DETAILED DESIGN CONSIDERATIONS/ONLY APPROVED SHOP DRAWINGS SHOULD BE USED FOR CONSTRUCTION PURPOSES
- OUTDOOR MODELS MUST BE EARTH GROUNDED/NUMBER & LENGTHS OF RODS TO MEET LOCAL NATIONAL ELECTRIC CODE.

MAXIMUM POWER CONSUMPTION:

- 700 WATTS 120V AC, 20 AMP CIRCUIT REQUIRED

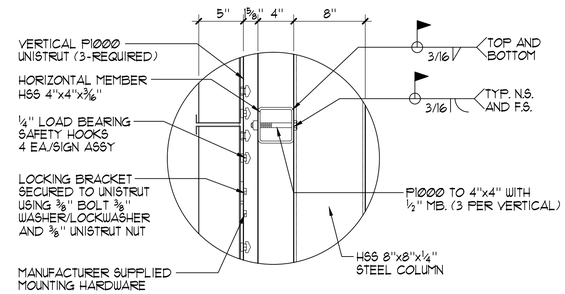
TOTAL SYSTEM WEIGHT:

- ±500 lbs.




## 1B SIDE-BY-SIDE MOUNTING DETAIL

1½"=1'-0"




## 1C 'COLORADO TIME SYSTEM' MOUNTING DETAIL

1½"=1'-0"

# 1 SCOREBOARD DETAILS

3/8"=1'-0"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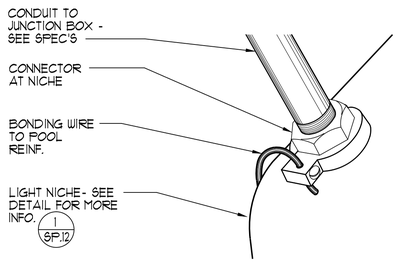


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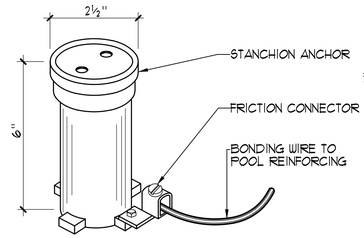


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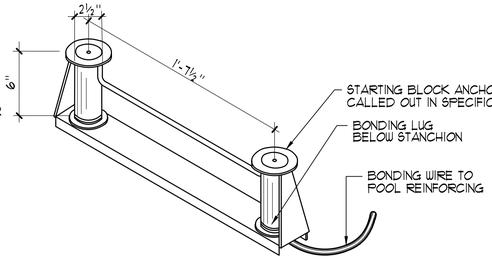


**STARTING BLOCK ANCHOR**
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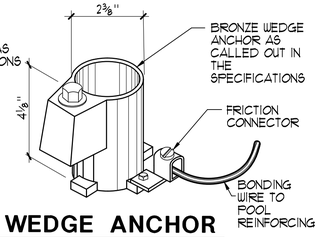


**WEDGE ANCHOR**
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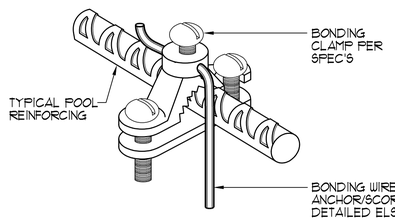


**BONDING CLAMP**
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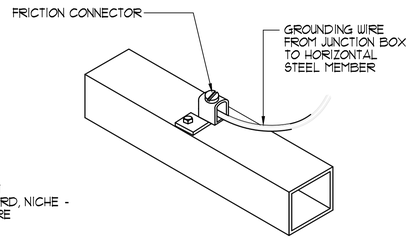


**SCOREBOARD ELEC. GROUNDING**
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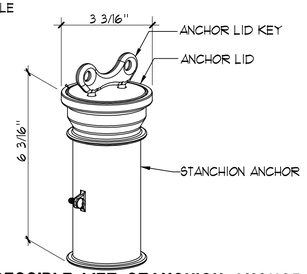


**ACCESSIBLE LIFT STANCHION ANCHOR**
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# BONDING DETAILS
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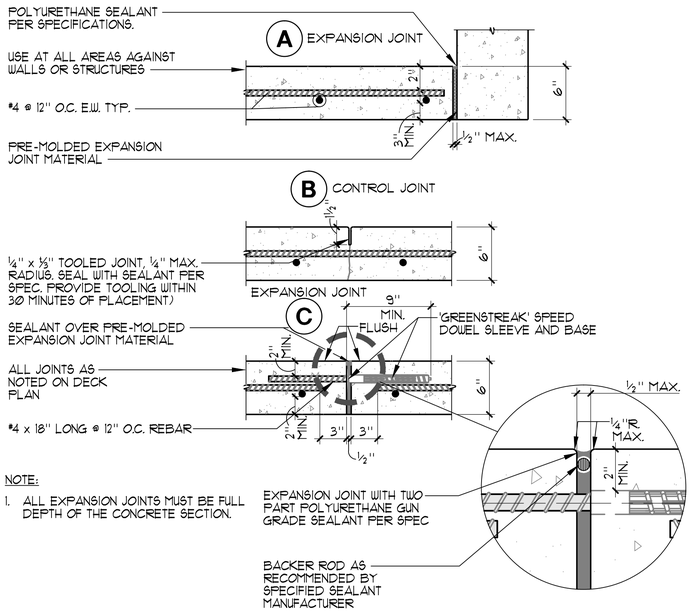
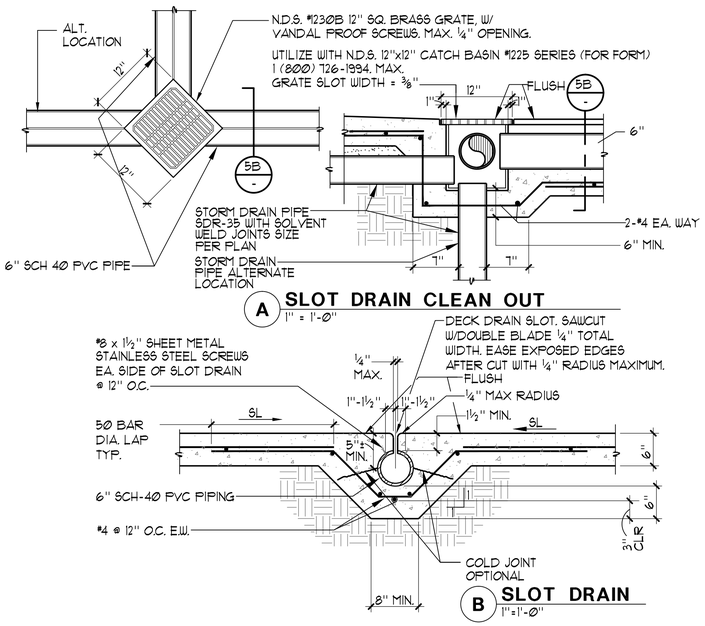
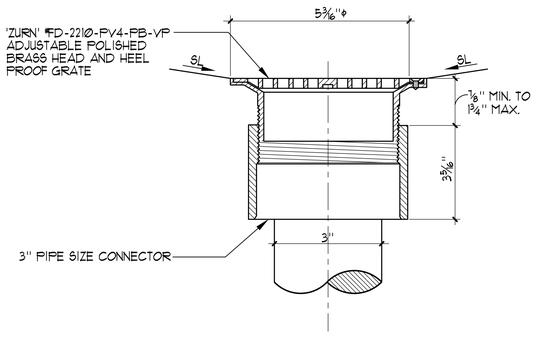



**2 CONCRETE DECK JOINT DETAILS** 1½"=1'-0"




**3 SLOT DRAIN** 1"=1'-0"




**4 DECK AREA DRAIN** ½"=1"

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