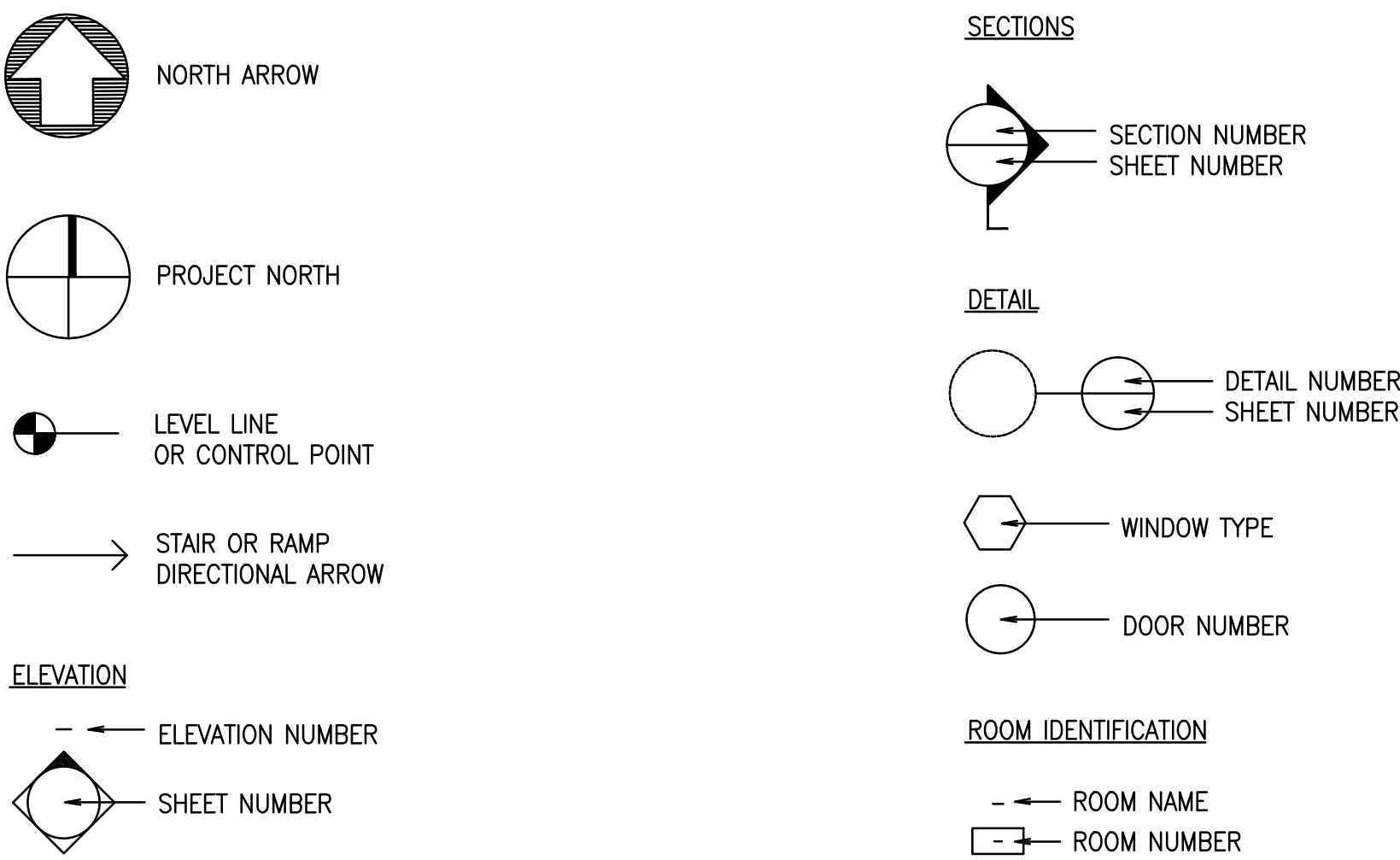


ABBREVIATIONS

AFT	ABOVE FINISH FLOOR	JT	JOINT
ACCOM	ACCOMMODATE	LAM	LAMINATE(D)(ION)
ACCORD	ACCORDANCE	LES	LEAD EXPANSION SHIELD
AC	ACOUSTIC	LLV	LONG LEG VERTICAL
ADJ	ADJUSTABLE/ADJACENT	LIN FT	LINAL FOOT
ALT	ALTERNATE	MH	MANHOLE
AL	ALUMINUM	MFR	MANUFACTURER
AB	ANCHOR BOLTS	MO	MASONRY OPENING
APA	AMERICAN PLYWOOD ASSOCIATION	MAX	MAXIMUM
ARCH	ARCHITECT(URAL)	MECH	MECHANICAL
ASPH CONC	ASPHALT CONCRETE PAVING	MC	MECHANICAL CONTRACTOR
@		MCP	MELAMINE COATED PARTICLE BOARD
BRG	BEARING	MET/MTL	METAL
B PL	BEARING PLATE	MIN	MINIMUM
BM	BENCH MARK	MID	MOLDING, MOULDING
BIT	BITUMINOUS	MNTD	MOUNTED
BIT-DP	BITUMINOUS DAMPPROOFING	NA	NOT APPLICABLE
BLK	BLOCK	NAT	NATURAL
BD	BOARD	NIC	NOT IN CONTRACT
BOT	BOTTOM	NTS	NOT TO SCALE
BRK	BRICK	NO OR #	NUMBER
BLDO	BUILDING	OC	ON CENTER
CAB	CABINET	OFF	OFFICE
CI	CAST IRON	OP PL OF	OPEN PLAN OFFICE
CLG	CEILING	OPEN WEB ST	OPEN WEB STEEL JOISTS
CL	CENTER LINE	OPG	OPENING
CER T	CERAMIC TILE	OD	OUTSIDE DIAMETER
CIRC	CIRCULATION	OH	OVERHEAD
CI	CONTROL JOINT	PART	PARTITION
CLO	CLOSET	PNT	PAINT(ED)
COL	COLUMN	PL	PLATE
COMP	COMPUTER	PC	PLUMBING CONTRACTOR
CONC	CONCRETE	PLAM	PLASTIC LAMINATE
CONF	CONFERENCE	PLYWD	PLYWOOD
CMU	CONCRETE MASONRY UNITS	PT	PRESSURE TREATED
CONST	CONSTRUCTION	PVC	POLYVINYL CHLORIDE
CONT	CONTINUOUS	RWC	RAIN WATER CONDUCTOR
COORD	COORDINATE	RECPT	RECEPTION
DEM	DEMOLISH, DEMOLITION	REINF	REINFORCING
DTL	DETAIL	REBAR	REINFORCING BARS
DIA	DIAMETER	REP	REPRESENTATIVE
DIM	DIMENSION	REQ	REQUIRED
DR	DOOR	R/W	RIGHT OF WAY
DN	DOWN	RF	ROOF
DS	DOWNSPOUT	RF DK	ROOF DECKING
EL	ELEVATION	RD	ROOF DRAIN
ELEC	ELECTRIC(AL)	RM	ROOM
ENC	ELECTRIC WATER COOLER	RO	ROUGH OPENING
EC	ELECTRICAL CONTRACTOR	SDO	SALVAGE & DELIVER TO OWNER
ELEV	ELEVATION, ELEVATOR	SHT	SHEET
ENG	ENGINEER	SKL	SKYLIGHT
EPS	EXPANDED POLYSTYRENE	SL	SLATE
EQ	EQUAL	SC	SOLID CORE
EXIST	EXISTING	SPEC	SPECIFICATION
EXP JT	EXPANSION JOINT	SPKLR	SPRINKLER
EXP	EXPOSED	SS	STAINLESS STEEL
EXT	EXTERIOR	STD	STANDARD
EXT PS	EXTRUDED POLYSTYRENE	STL	STEEL
FG BATT	FIBERGLASS BATT	STL JST	STEEL JOIST
FIN	FINISH	STL STD	STEEL STUD
FEC	FIRE EXTINGUISHER	STO	STORAGE
FF	FINISHED FLOOR	STR	STRUCTURE/STRUCTURAL
FRTW	FIRE RESISTANT TREATED WOOD	STL STL	STRUCTURAL STEEL
FLG	FLASHING	SYS	SYSTEM
FD	FLOOR DRAIN	TEL	TELEPHONE
FTG	FOOTING	TEMP	TEMPERED
GA	GAGE, GAUGE	T&G	TONGUE AND GROOVE
GALV	GALVANIZED	T.O.	TOP OF
GL	GLASS	TOC	TOP OF CURB
GC	GENERAL CONTRACT(OR)	TOF	TOP OF FOOTER
GTR	GUTTER	TOS	TOP OF STEEL
GWB	GYPSON DRYWALL (WALLBOARD)	TOW	TOP OF WALL
GWB-X	GWB, TYPE X (FIRE RESISTIVE CLASSIFICATION)	TYP	TYPICAL
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
HC	HOLLOW CORE	VB	VAPOR BARRIER
HL-CMU	HOLLOW LOADBEARING CMU	VERT	VERTICAL
HM	HOLLOW METAL STEEL	VCT	VINYL COMPOSITION TILE
HORIZ	HORIZONTAL	VIF	VERIFY IN FIELD
HR	HOUR	VWB	VINYL WALL BASE
ID	INSIDE DIAMETER	WC	VINYL WALL COVERING
INS	INSULATE(D)(ION)	WAIT	WAITING
INT	INTERIOR	WWF	WELDED WIRE FABRIC
INV	INVERT	W/	WITH
JST	JOIST	W/O	WITHOUT
		WOL	WOLMANIZED
		WD	WOOD

NOTE: NOT ALL ABBREVIATIONS LISTED ARE APPLICABLE TO THIS PROJECT

ANNOTATION SYMBOLS



CONSTRUCTION NOTES

- REVIEW HARDWARE SCHEDULE, INTERIOR ELEVATIONS, & DETAILS, & PROVIDE FIRE TREATED SOLID WOOD BLOCKING INSIDE FIRE-RATED STUD WALLS & SOLID WOOD BLOCKING INSIDE STUD WALLS WHERE SOLID ANCHORAGE IS REQUIRED.
- WHERE EXISTING CONSTRUCTION IS CUT & PATCHED, REPAIR ALL ADJACENT SURFACES DISTURBED BY CUTTING & PATCHING & PREPARE TO RECEIVE NEW CONSTRUCTION &/OR NEW SCHEDULED FINISHES; REPAIRS SHALL MATCH EXISTING ADJACENT &/OR SIMILAR SURFACES & MATERIALS. TRANSITIONS BETWEEN NEW & EXISTING CONSTRUCTION SHALL BE SMOOTH & UNNOTICEABLE.
- ALL FINISHED SURFACES IN THIS PROJECT ARE TO BE PATCHED & REPAIRED TO MATCH ADJACENT OR SIMILAR CONSTRUCTION & PREPARED TO RECEIVE SPECIFIED FINISHES; THIS INCLUDES DAMAGED FLOORING, PLASTER, WOOD TRIM, CASINGS, SILLS & DOORS, WINDOW GLASS & MASONRY. TRANSITIONS BETWEEN NEW REPAIRS & EXISTING CONSTRUCTION SHALL BE SMOOTH & UNNOTICEABLE.
- ALL MTL THAT COMES INTO CONTACT WITH PT WOOD SHALL BE STAINLESS OR GALV. STEEL. THIS INCLUDES BUT IS NOT LIMITED TO FASTNERS, FLASHING AND JOIST HANGERS. STRUCTURAL STL SHALL BE PRIMED AND PAINTED PRIOR TO CONTACT WITH PT WOOD.
- REPAIR ANY DAMAGE TO EXISTING OR NEW FIRE-RATED ENCLOSURES, CEILINGS AND WALLS.
- SEAL AND FIRESTOP ALL PENETRATIONS AND OPENINGS IN ANY FIRE-RATED CONSTRUCTION USING PROPER FIRESTOPPING PRODUCTS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- EMERGENCY LIGHTING SYSTEM: PROVIDE A MINIMUM OF ONE FOOT CANDLE OF ILLUMINATION FOR A MINIMUM DURATION OF ONE HOUR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND IBC.
- MAKE CHANGES OR ADDITIONS TO THE EMERGENCY LIGHTING AND EXIT LIGHTING SYSTEMS AS REQUIRED BY THE CODE OFFICIAL. DURING THE JOB SITE INSPECTIONS THE CODE OFFICIAL MAY REQUIRE CHANGES OR ADDITIONS TO THE SYSTEMS.
- ALL MEANS OF EGRESS TO BE FREE & CLEAR AT ALL TIMES.

OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
FOR
READING HOUSING AUTHORITY

HAMMEL ASSOCIATES ARCHITECTS,LLC
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JOINT SEALER SCHEDULE

DRAWING DESIGNATION	SEALANT TYPE	DESCRIPTION OF JOINT CONSTRUCTION AND LOCATION WHERE JOINT SEALER IS TYPICALLY APPLIED. (SEE NOTE BELOW)
ES-1	ONE-PART NONACID-CURING SILICONE SEALANT	EXTERIOR & INTERIOR VERTICAL JOINTS BETWEEN METAL & CONCRETE, UNIT MASONRY MORTAR, OR STONE; INTERIOR & EXTERIOR PERIMETER JOINTS OF METAL & WOOD FRAMES IN EXTERIOR WALLS; & EXTERIOR OVERHEAD JOINTS.
ES-2	MULTI-PART POURABLE URETHANE SEALANT	EXTERIOR & INTERIOR JOINTS IN HORIZONTAL SURFACES OF CONCRETE; BETWEEN METAL & CONCRETE, MORTAR & MASONRY.
ES-3	ONE-PART ACID-CURING SILICONE SEALANT	EXPOSED JOINTS WITHIN GLAZED CURTAIN WALL FRAMING SYSTEM, & ALUMINUM ENTRANCE FRAMING SYSTEM.
ES-4	ONE-PART MILDEW-RESISTANT SILICONE SEALANT	RESTROOMS, LOCKER & SHOWER AREAS
ES-5	TWO-PART URETHANE SEALANT	VERTICAL & HORIZONTAL JOINTS OF CONCRETE, BETWEEN CONCRETE, POOL & CONCRETE DECK.
LS	ACRYLIC-EMULSION SEALANT	INTERIOR JOINTS IN FIELD-PAINTED VERTICAL & OVERHEAD SURFACES AT PERIMETER OF HOLLOW METAL DOOR FRAMES; IN GYPSUM DRYWALL, PLASTER & CONCRETE OR CONCRETE MASONRY; & ALL OTHER INTERIOR JOINTS NOT INDICATED OTHERWISE.
BAS-1	BUTYL-ASPHALT SEALANT, AC-20 IN ACCORDANCE WITH PA. DEPT. TRANSPORTATION TITLE 40B SPECIFICATIONS.	EXTERIOR JOINTS BETWEEN EXISTING & NEW ASPHALT PAVING & ASPHALT PAVING & MASONRY OR CONCRETE.
FSS-1	FOAMED-IN-PLACE FIRE-STOPPING SEALANT	THROUGH PENETRATIONS IN FIRE RESISTANCE RATED FLOOR & WALL ASSEMBLIES INVOLVING MULTIPLE PIPES, CONDUITS & OTHER ITEMS.
FSS-2	ONE-PART FIRE-STOPPING SEALANT	THROUGH PENETRATIONS IN FIRE RESISTANCE RATED FLOOR & WALL ASSEMBLIES INVOLVING SINGLE PIPES, CONDUITS & WHERE JOINT WIDTHS ARE NARROW.

NOTE: INSTALL JOINT SEALANTS IN ACCORDANCE WITH DESCRIPTIONS AND LOCATIONS LISTED, AND IN LOCATIONS IDENTIFIED ON DRAWINGS BY DRAWING DESIGNATIONS LISTED ABOVE.

BUILDING DATA (2018 IBC)

OCCUPANCY:	ASSEMBLY
CONSTRUCTION TYPE:	N/A
BUILDING HEIGHT:	N/A
FIRE ALARM SYSTEM:	EXISTING & MODIFIED FOR NEW LAYOUT
EMERGENCY LIGHTING:	EXISTING & MODIFIED FOR NEW LAYOUT
AUTOMATIC SPRINKLERS:	NO
AUTOMATIC FIRE DETECTION SYSTEM:	NO
FIRE SEPARATION:	N/A

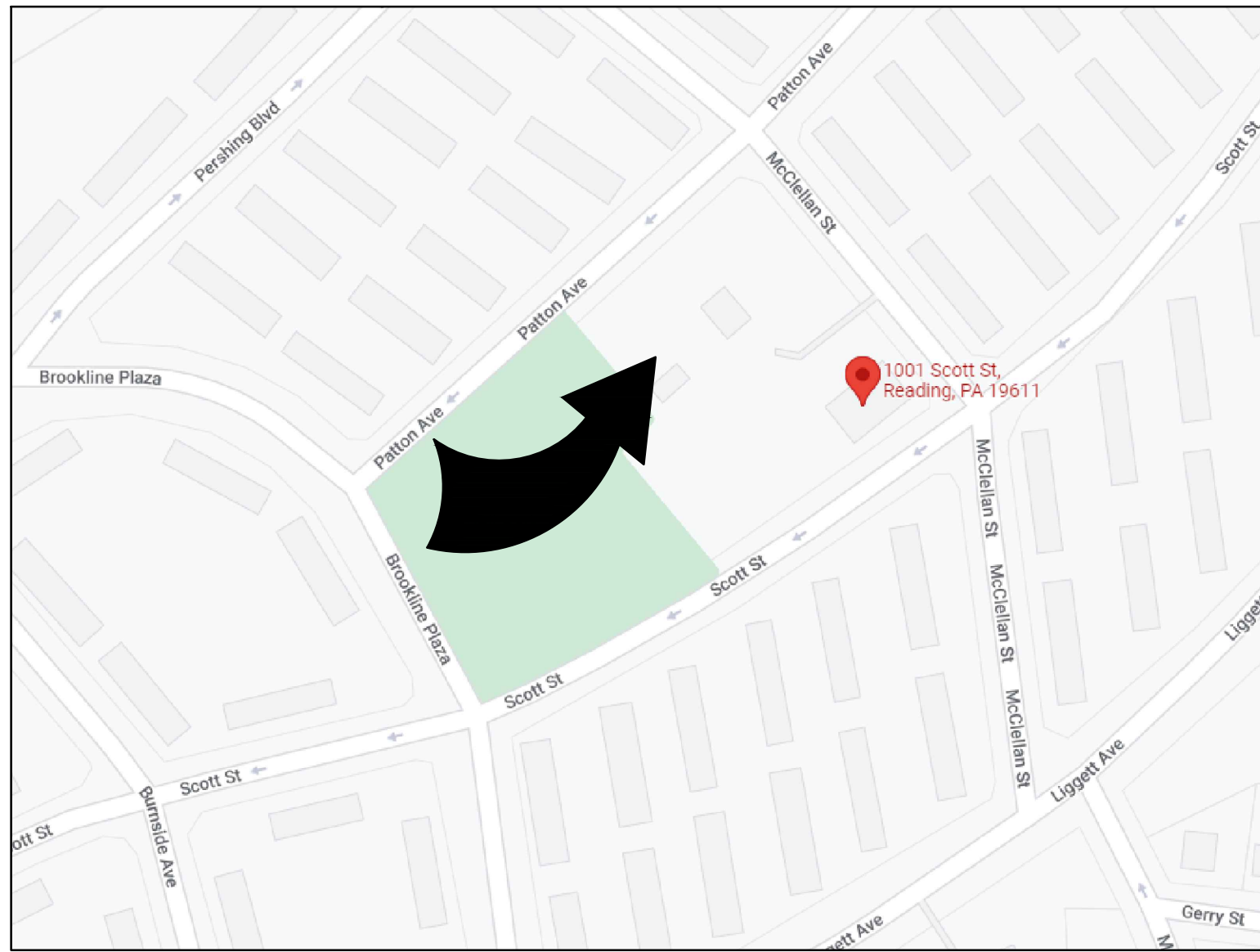
EXISTING BUILDING AREA: ADDITION:

ATHLETIC SUPPORT BUILDING 200 SF 0 SF

BUILDING CODE REQUIREMENTS

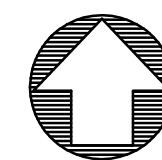
ALL WORK SHALL CONFORM TO THE FOLLOWING CODE REGULATIONS AND REQUIREMENTS:

- COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF LABOR & INDUSTRY:
 - PENNSYLVANIA UNIFORM CONSTRUCTION CODE: 2021 INTERNATIONAL CODE COUNCIL AND REFERENCED STANDARDS
 - 2021 INTERNATIONAL BUILDING CODE CHAPTER 11 AND APPENDIX E: 2018 INTERNATIONAL EXISTING BUILDING CODE, ACCESSIBILITY PROVISIONS WHICH REFERENCE 2009 ICC/ANSI
 - CITY OF READING BUILDING ORDINANCE AND ALL REFERENCED REGULATIONS (BUILDING, EXISTING BUILDING, PLUMBING, ELECTRICAL, MECHANICAL, FUEL GAS, PERFORMANCE, RESIDENTIAL, FIRE, ACCESSIBILITY AND ENERGY CODE WHERE APPLICABLE)

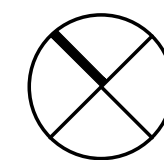


LOCATION MAP

NOT TO SCALE



ACTUAL NORTH



PROJECT NORTH

DRAWING INDEX

CS.1.1 COVER SHEET

ARCHITECTURAL

DA1.0 SITE PLAN DEMO
A1.0 SITE PLAN
A1.1 FLOOR PLAN , ELEVATION, SECTION
A1.2 DETAILS
A1.3 PLAYGROUND PLAN
A1.4 DOOR SCHEDULE & DETAILS

CIVIL

C1.0 EXISTING PLAYGROUND
C2.0 PROPOSED PLAYGROUND & SITE IMPROVEMENTS
C3.0 CIVIL DETAILS
C4.0 EROSION & SEDIMENTATION CONTROL NOTES AND DETAILS
C4.1 EROSION & SEDIMENTATION CONTROL NOTES AND DETAILS

STRUCTURAL

S0.1 GENERAL NOTES, LEGENDS AND KEY PLAN
S0.2 TYPICAL SECTIONS AND DETAILS
S1.1 GENERATOR PAD & RETAINING WALL FOUNDATION PLAN
S1.2 SPLASH PAD FOUNDATION PLAN
S1.3 CONCESSION BUILDING FOUNDATION / FLOOR PLAN

MECHANICAL + PLUMBING

M-001 HVAC ABBREVIATIONS AND GENERAL INFORMATION
P-001 PLUMBING ABBREVIATIONS AND GENERAL INFORMATION
MP101 FLOOR PLAN - MECHANICAL AND PLUMBING
M-501 HVAC DETAILS
P-501 PLUMBING DETAILS
P-601 PLUMBING SCHEDULES AND ISOMETRIC

ELECTRICAL

E-001 ELECTRICAL SYMBOLS ABBREVIATIONS & GENERAL NOTE
E-101 ENLARGED FLOOR PLAN - CONCESSION
E-102 ENLARGED PLAN - PAVILION
E-103 ENLARGED PLANS
E-200 ELECTRICAL SCHEDULES & POWER RISE
EP100 SITE PLAN

CIVIL

C1.0 EXISTING PLAYGROUND
C2.0 PROPOSED PLAYGROUND AND IMPROVEMENTS
C3.0 CIVIL DETAILS
C4.0 EROSION AND SEDIMENTATION CONTROL AND DETAILS
C4.1 EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS

OTHER / MISC

17+1 PAGES
1 PAGE PLAYGROUND EQUIPMENT PAVILION BUILDING

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STAMP

2026.09.11
BID SET

REVISIONS



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READING
HOUSING AUTHORITY

PROJECT DESCRIPTION

OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
1001 SCOTT STREET
READING, PA 19611

SHEET TITLE COVER SHEET

ISSUE DATE 2026.09.11

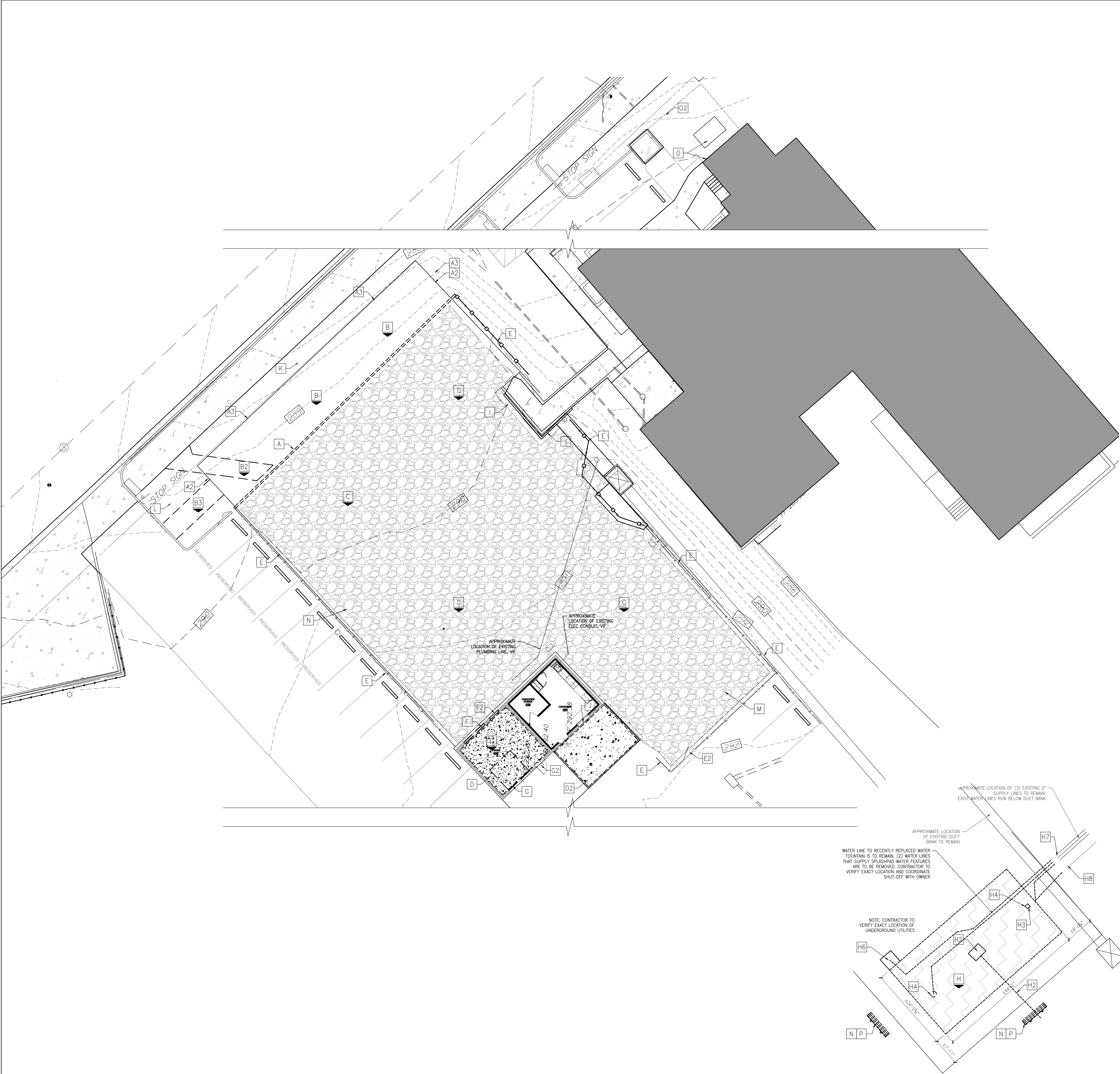
SCALE AS NOTED

FILE NUMBER 2532

DRAWN BY MDJ

CHECKED BY TLV

CS1.1



DEMOLITION KEYNOTES

- A** EXTENTS OF EXISTING FENCE TO BE CAREFULLY REMOVED AS INDICATED SHOWN DRAWINGS INCLUDING FOOTERS, PICKET PANELS. TEMPORARY STORE PICKETS FENCE PANEL ON SITE & SALVAGED FOR PARTIAL REUSE. REFER TO PROPOSED PLANS FOR DIRECTION ON REFURBISHED FENCE PANELING. COORDINATE WITH OWNER BEFORE DISCARD FINAL PICKET FENCE PANELS.
- B** EXISTING AREA TO BE PREPARED FOR EXTENDING PLAYGROUND. COMPACT SOIL AS REQUIRED
- B2** EXISTING CONCRETE PAD & GRAVEL BED TO BE REMOVED. PREPARE AREA FOR PLAYGROUND
- B3** PREPARE AREA FOR NEW CONCRETE WALK WAY. SAW-CUT CURB AND LEVEL AS REQUIRED
- C** EXISTING GRAVEL BED TO BE PREPARED AND RE-LEVELLED FOR NEW PLAYGROUND EQUIPMENT. COORDINATE FOOTINGS W/ UTILITIES AS REQUIRED.
- D** EXISTING CONCRETE PAD TO BE PARTIALLY DEMOLISHED & REINSTALLED TO ACCOMODATE NEW UNDERGROUND UTILITIES
- D2** EXISTING CONCRETE PAD TO BE REPLACED W/ NEW ASPHALT
- D3** PREPARE AREA FOR NEW SLAB ON GRADE
- E** EXISTING FENCE TO REMAIN. TOP 2" OF FENCE POST FOUNDATION TO BE REMOVED. UNDERNEATH MAIN FENCE AREA EXISTING CONCRETE AND ASPHALT AT ENTIRE FENCE PERIMETER TO BE CAREFULLY REMOVED, (APPROXIMATE WIDTH OF 24") UP TO WHERE AN EXISTING TRANSITION LINE OCCURS NEAR THE FENCE. SEE IMAGE ON A1.2 ADDITIONAL INFO
- E2** EXISTING FENCE TO REMAIN. SWING-GATE PANEL TO BE REPLACED W/ PICKET PANEL. EXISTING SLAB TO BE PREPARED FOR NEW DRIVEWAY COATING
- F** EXISTING CMU WALL TO BE PARTIALLY REMOVED. TOOTH IN ENTIRE JAMB TO PROVIDE CLEAN FINISHED AT JAMB CONDITION. PREPARE OPENING FOR NEW HEADER & OVERHEAD DOOR. PAINT CMU. COORDINATE DOOR SILL HEIGHT W/ NEWLY CONSTRUCTED ADJACENT WALKWAY
- F2** EXISTING CMU WALL TO BE PARTIALLY REMOVED. TOOTH IN ENTIRE JAMB TO PROVIDE CLEAN FINISHED AT JAMB CONDITION. PREPARE OPENING FOR NEW HEADER & HM MANDOR. PAINT CMU. COORDINATE DOOR SILL HEIGHT W/ NEWLY CONSTRUCTED ADJACENT WALKWAY
- G** EXISTING OVERHEAD DOOR TO BE TEMPORARY REMOVED AND REINSTALLED. PREPARE OPENING FOR NEW CMU WALLS AND HM DOOR
- G2** VERIFY CONDITIONS IN FIELD: EXISTING MAN DOOR TO REMAIN. HARDWARE TO BE REPLACED TO ACCOMODATE NEW RESTROOM SETS. IF EXISTING FRAME AND DOOR ARE NOT PREPPED TO RECEIVE RESTROOM HARDWARE SETS. REMOVE AND REPLACE DOOR AND FRAME AS REQUIRED AT NO ADDITIONAL COST TO OWNER. IN THAT SCENARIO THE EXISTING DOOR MAY BE REINSTALLED AT OPPOSITE WALL WHERE STORAGE DOOR IS REQUIRED
- H** EXISTING SPLASH PAD TO BE REMOVED IN ITS ENTIRETY.
- H2** EXISTING SPLASH PAD DRAIN & COLLECTOR AND PIPE TO BE REMOVED. PREPARE FOR NEW REPLACED DRAIN PIPE
- H3** EXISTING SPLASH PAD CONTROLS TO BE PARTIALLY REMOVED. REDIRECT LINES & PREPARE FOR NEW SPLASHPAD WATER FEATURE CONTROL PANEL
- H4** EXISTING WATER FEATURE TO BE REMOVED. BELOW SLAB LINES TO BE PARTIALLY REMOVED TO OUTSIDE OF ASPHALT PAD. PORTION TO REMAIN TO RECONFIGURED FOR NEW WATER FEATURES
- H5** EXISTING WATER FEATURE TO BE REMOVED. BELOW SLAB LINES TO BE PARTIALLY REMOVED. PORTION TO REMAIN TO RECONFIGURED FOR NEW WATER FEATURE
- H6** EXISTING DRINKING FOUNTAIN TO REMAIN. SUPPLY LINES TO BE PARTIALLY REMOVED AND REPLACED
- H7** EXISTING WATER SUPPLY LINES TO REMAIN. PREPARE AREA FOR NEW JUNCTION BOX FOR NEW FUTURE WATER LINES. EXACT LOCATION TO BE VERIFIED IN FIELD. UNDERGROUND DUCT BANK IS PRESENT
- H8** EXISTING ELEC CONDUIT TO REMAIN. PREPARE AREA FOR NEW JUNCTION BOX FOR NEW FUTURE WATER LINES. EXACT LOCATION TO BE VERIFIED IN FIELD. UNDERGROUND DUCT BANK IS PRESENT
- I** PREPARE AREA NEAR PLAYGROUND FOR NEW FENCE TO MATCH EXISTING
- J** CONCESSION WINDOW OPENING TO BE PREPARED FOR NEW TILT-UP WINDOW. VERIFY SIZE IN FIELD
- K** AREA TO BE PREPARED FOR NEW LIGHT POST
- L** PREPARE AREA FOR NEW ELEC JUNCTION BOX
- M** PREPARE AREA FOR NEW PAVILION W/ FOOTERS, CONCEALED ELEC/DATA CONDUITS
- N** PREPARE AREA FOR NEW SLAB ON GRADE W/ SEATING
- O** EXISTING REDUNDANT ELEC WIRE TO BE REMOVED. PREPARE AREA FOR NEW EMERGENCY GENERATOR & CONC PAD
- P** EXISTING PARK BENCHES, INCL FOOTINGS TO BE REMOVED

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STAMP

LEGEND:

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- EXISTING CASEWORK TO BE SALVAGED, SEE KEYNOTES FOR MORE INFORMATION.
- KEYNOTE
- NOTE APPLIES TO CEILING / OR ABOVE
- NOTE APPLIES TO FLOOR / OR BELOW

GENERAL DEMOLITION AND ALTERATION NOTES:

- PATCH AND REPAIR ALL DAMAGED SURFACES AFTER NOTED DEMO IS COMPLETE TO MATCH CONSTRUCTION TO REMAIN AND CREATE AN UNNOTICABLE TRANSITION BETWEEN NEW AND EXISTING CONSTRUCTION.
- CONTACT ARCHITECT IMMEDIATELY IF EXISTING CONDITIONS VARY FROM WHAT IS SHOWN.
- REMOVE ALL CONSTRUCTION AS REQUIRED TO EXECUTE NEW WORK EVEN IF NOT SPECIFICALLY NOTED.
- REMOVE ALL FASTENERS, SUPPORTS AND SIMILAR SYSTEMS.
- PROVIDE TEMPORARY SHORING TO SUPPORT EXISTING CONSTRUCTION SCHEDULED TO REMAIN AS REQUIRED.
- ANY PLUMBING, ELECTRICAL OR MECHANICAL EQUIPMENT SCHEDULED TO BE REMOVED THAT IS TIED INTO SYSTEMS THAT ARE TO REMAIN, ARE TO BE REMOVED AND TIED OFF IN A MANNER THAT ALLOWS FOR THE CONTINUOUS OPERATION OF THE SYSTEM.
- REMOVE ANY EXIST FIRE EXTINGUISHERS AND SALVAGE FOR RELOCATION
- FOR AREAS NOT DIRECTLY IN SCOPE AREA, BUT RELATED TO, I.E: WHERE RELEVANT WORK IS REQUIRED FOR MEP TIE-INS OR ADJUSTMENTS, TEMPORARY REMOVE AND REINSTALL CEILING AS REQUIRED. PATCH GYPSUM CEILINGS AND WALLS SEAMLESS AT GYPSUM ASSEMBLIES. VERIFY IN FIELD

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OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
1001 SCOTT STREET
READING, PA 19611

SHEET TITLE SITE PLAN DEMO	
ISSUE DATE 2026.09.11	SCALE AS NOTED
FILE NUMBER 2532	DRAWN BY SK CHECKED BY SK

DA1.0

1
DA1.0
SCHEMATIC
DEMOLITION & ALTERATION PLAN
3/32"= 1'-0"

- LEGEND:
- EXISTING WALL STRUCTURE TO REMAIN. PROVIDE ADDITIONAL FRAMING AND BLOCKING AS REQUIRED BY NEW CONSTRUCTION REQUIREMENT.
- EXISTING CONSTRUCTION TO BE REMOVED
- NOTE APPLIES TO CEILING, OR ABOVE
- #

KEYNOTE
- NOTE APPLIES TO FLOOR, OR ABOVE

- GENERAL NOTES:
1.

ALL DIMENSIONS ARE APPROXIMATE, VERIFY IN FIELD.
2.

ALL CIRCUITS FOR NEW LIGHTS AND ELECTRICAL RECEPTACLES TO BE ARC FAULT PROTECTED IN ADDITION TO REQUIRED GROUND FAULTING
3.

EXISTING EMERGENCY EXIT SIGNAGE & EGRESS LIGHTING TO REMAIN
4.

EXISTING SMOKE DETECTORS AND FIRE DETECTION SYSTEM TO REMAIN. PROVIDE NEW STROBES/ANNUNCIATORS TO TIE IN WITH OPERATION OF EXISTING SYSTEM
5.

ANY EXISTING GWE WALL TO REMAIN, THAT RECEIVES MEP UTILITIES ARE TO OPENED TO MINIMUM FOR INSTALLATION PURPOSES. PATCH AND PAINT SEAMLESS
6.

ANY MEP SYSTEMS IN CMU AND NEW CONSTRUCTED BATHROOM TO BE INSTALLED RECESSED IN CMU WALL. EXISTING GRADING INDICATORS ARE APPROXIMATES.
7.

GENERAL CONTRACTOR TO ESTABLISH BASE POINT AND ADJUST SLOPES EVENLY TO THE INTO ADJACENT SURFACES.
8.

GC TO COORDINATE ALL FOOTERS AND CAST-IN-PLACE FLOORING AND SUBGRADE REQUIREMENTS WITH SUPPLIER / INSTALLER AND ROTATE/SHIFT ACCORDINGLY TO AVOID EXISTING UNDERGROUND UTILITIES
9.

ALL EXISTING FENCING TO REMAIN SURROUNDING THE PLAYGROUND IS TO BE PAINTED

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A1.0

PROPOSED KEYNOTES

- A

AREA TO BE INCORPORATED INTO PLAYGROUND
- A2

RELOCATED FENCE POSTS & RETAINING WALL
- A3

RETAINING WALL & NEW ALUM FENCE TO MATCH EXISTING
- B

POURED IN PLACE RUBBER & NEW PLAYGROUND ON RE-LEVELED SURFACE
- B2

POURED IN PLACE RUBBER & NEW PLAYGROUND ON RE-LEVELED SURFACE
- B3

NEW CONC PAD
- C

POURED IN PLACE RUBBER & NEW PLAYGROUND ON RE-LEVELED SURFACE
- D

INTERIOR CONCRETE SLAB REPLACEMENT
- D2

ASPHALT PAD
- D3

CONCRETE PAD - COLORED - SMOOTH FINISH
NOTE: UNDERNEATH PAVILION AND ADJACENT PATIO TO BE SEPARATE POUR, COLOR & FINISH
- D4

CONCRETE PAD - COLORED - CLEFT/SLATE TEXTURED STAMPED FINISH
NOTE: UNDERNEATH PAVILION AND ADJACENT PATIO TO BE SEPARATE POUR, COLOR & FINISH
- E

INSTALL 8" WIDE x 12" HIGH CURB UNDERNEATH EXISTING METAL FENCE. CURB TO EXTEND ±2" ABOVE EXISTING GRADE. VERIFY CONDITIONS WHERE FENCE SLOPES WITH GRADING AND FIELD ADJUST ACCORDINGLY. CONCRETE CURB BECOMES EDGE FOR NEW POURED IN PLACE RUBBER AT PLAYGROUND. RAISED CURB ONLY TO EXTEND ALONG AREA WHERE RUBBER PLAYGROUND IS INTENDED. TRANSITION NEAR PAVILION AND SOUTH ATHLETIC SUPPORT BUILDING TO BE LEVEL W/ ADJACENT AREAS
- E2

EXISTING FENCE TO REMAIN. SWING GATE TO RECEIVE NEW PICKET INFILL PANEL TO MATCH EXISTING. NEW DRIVEWAY SEAL OVER EXISTING PAD TO REMAIN.
- F

TOOTH IN JAMB CONDITIONS, PAINT EXPOSED CMU & HEADER. REINSTALL RELOCATED OVERHEAD DOOR. INSTALL OPERATOR ON EXISTING ROLL-UP DOOR. SEE DOOR HARDWARE FOR SPECIFICATIONS
- F2

TOOTH IN JAMB CONDITIONS, PAINT EXPOSED CMU & HEADER. NEW HM DOOR & FRAME, PNT.
- G

INFILL OPENING W/ NEW CMU. TOOTH IN JAMB CONDITIONS AS REQUIRED. INSTALL NEW HEADER TO ACCOMMODATE HM, PNT MANDOODR. PAINT DOOR & CMU. SIZE TO MATCH ADJACENT DOOR OPENING
- G2

VERIFY CONDITIONS IN FIELD. EXISTING DOOR HARDWARE TO BE EXCHANGED FOR NEW RESTROOM LOCKSETS. SEE DOOR HARDWARE FOR MORE INFORMATION. IF EXISTING DOOR AND FRAME CAN NOT ACCOMMODATE NEW HARDWARE CONFIGURATION, REPLACE DOOR & FRAME ENTIRELY. WITH NEW SET OF FRAME & DOOR AT NO ADDITIONAL COST.
IN THAT CASE THE EXISTING, TO BE REMOVED, DOOR MAY BE REINSTALLED ON OPPOSITE WALL WHERE A STORAGE DOOR IS REQUIRED.
- H

NEW 6" CONCRETE SPLASH PAD. CUSTOM COLOR PAINTED. SLOPE TO DRAIN W 3-04" TYPICAL (CLOVERLEAF) SAFE DECK COATING - MULTICOLOR
- H2

NEW SPLASH PAD DRAIN AND DRAIN PIPE
- H3

NEW SPLASH PAD CONTROLS. REPLACE PORTION OF CONDUITS BELOW SLAB AND ASPHALT TO ENSURE WATER TIGHT TIE-IN
- H4

NEW WATER FEATURE. ADJUST 2" WATER SUPPLY LINES AS NEEDED
- H5

NEW WATER FEATURE. ADJUST 2" WATER SUPPLY LINES AS NEEDED
- H6

EXISTING DRINKING FOUNTAIN TO REMAIN. SUPPLY LINES TO BE REPLACED FROM JUNCTION BOX
- H7

NEW JUNCTION BOX FOR NEW WATER SUPPLY LINES TO FEED WATER FEATURE. EXISTING LINES TO BE MODIFIED FOR NEW CONNECTION
- H8

NEW JUNCTION BOX FOR NEW ELEC LINES TO FEED WATER FEATURE. EXISTING LINES TO BE MODIFIED FOR NEW CONNECTION
- I

NEW & MODIFIED FENCE NEAR PLAYGROUND. MODIFY TO TIE NEW INTO EXISTING.
- J

NEW GAS-STRUT WINDOW W/ ALUM INSULATED PANEL & CUSTOM CUT POLYCARBONATE PANEL IN OPENING. SEE A1.2 FOR ADDITIONAL DETAILS
- K

NEW LIGHT POST
- L

ELEC JUNCTION BOX FOR FUTURE ELEC GATE
- M

NEW 34X20 PAVILION /W INTEGRAL LIGHTING
- N

CONC SLAB ON GRADE
- O

NEW EMERGENCY GENERATOR ON CONC PAD
- O2

SHADOW BOX WD FENCE 6 FT HT
- P

PICNIC GROVE BENCHES
BASIS OF DESIGN: FROG FURNITURE HERITAGE BRO - 8 FT LENGTH ON 14X5 FT CONCRETE PAD. CONCRETE PAD TO EXTEND 5 FT MIN FOR WHEELCHAIR SEATING ON 1 SIDE.
- P2

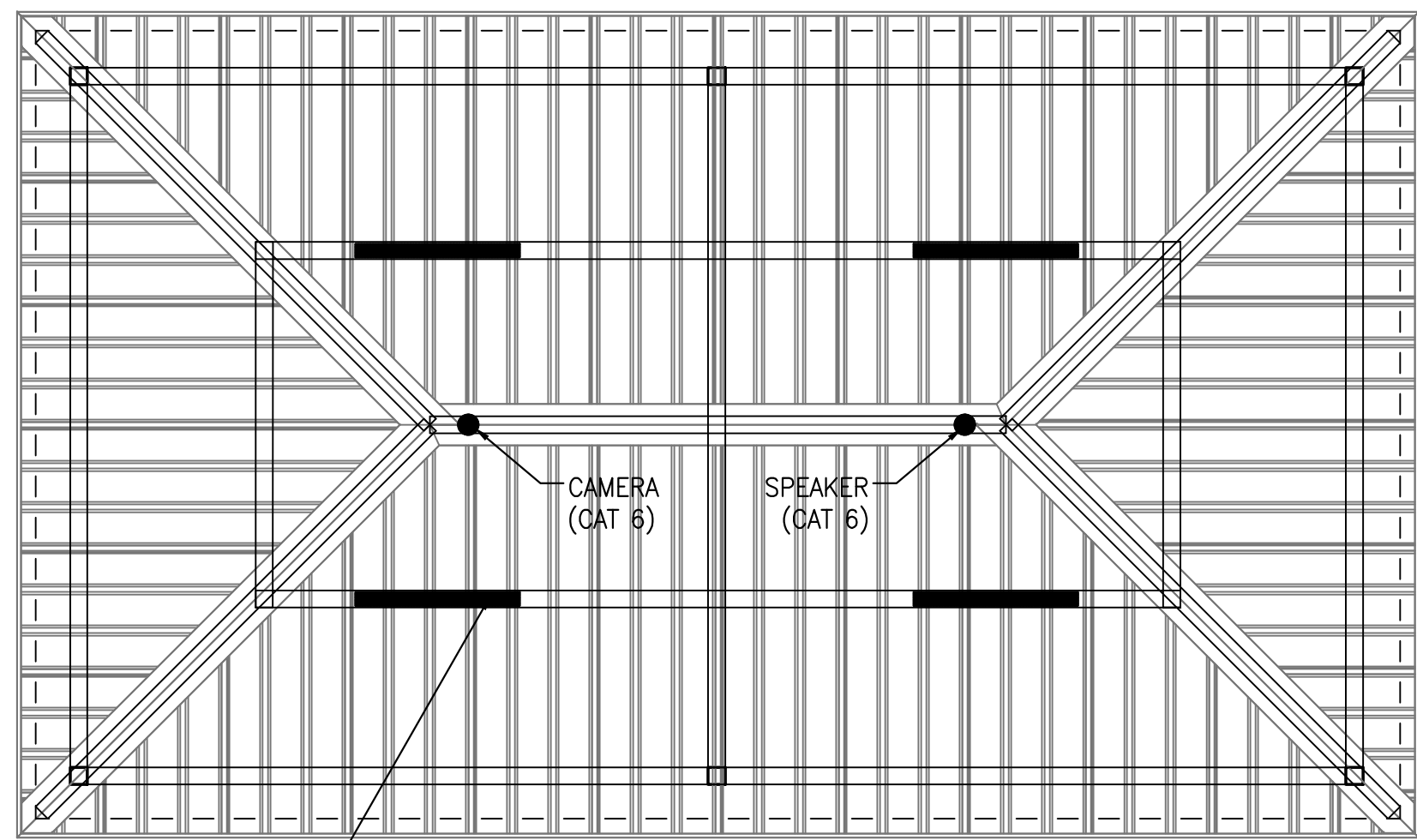
TRASH CAN W/ FLAT LID
BASIS OF DESIGN: FROG FURNITURE JACKSON P83JACB1A OR ULINE H-2865B
ALL TRASH CANS MOUNTED TO 36" DEEP - 12" SONA-TUBE
- P3

PICNIC GROVE TABLES: BASIS OF DESIGN: (3) BARCO GOLIATH KBM1455-GY + (1) GOLIATH KBM1460-GY ADA

1 SITE PLAN DIAGRAM
A1.0 3/32"= 1'-0"

2 SPLASH PAD
A1.0 3/32"= 1'-0"

SPLASH PAD FINISH INFORMATION:
EQUIPMENT TO BE: SUNFLOWER-003-LOWFLOW-OMNI
6" BELLE SPRAY JET, LOW FLOW, OMNI, STAINLESS STEEL
(2) UPSTREAM JETS, OMNI, STAINLESS STEEL
CONTROLS TO BE: RAIN-DROP LEAF BOLLARD ACTIVATOR



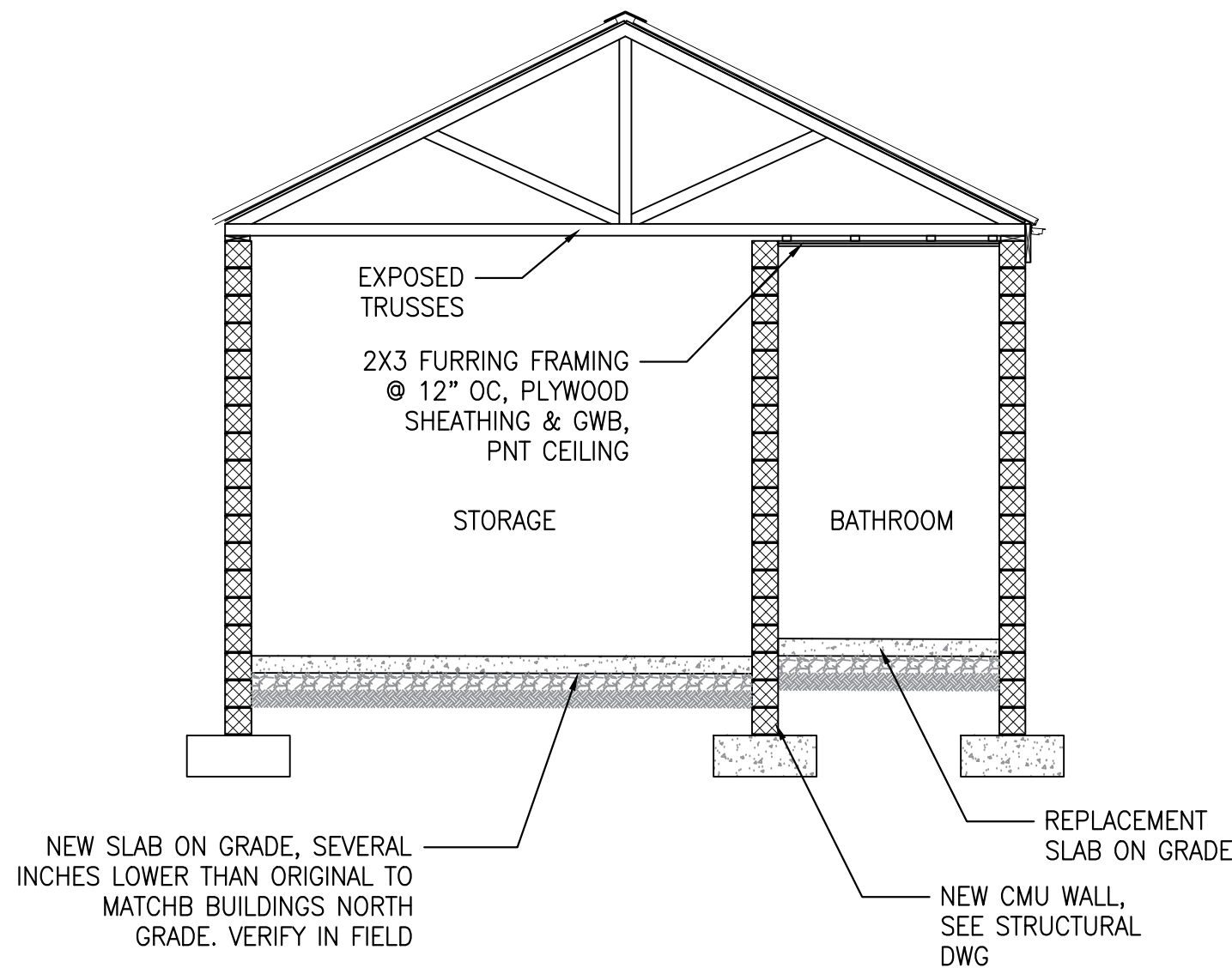
8 PAVILION RCP
A1.1 1/4" = 1'-0"

PLUMBING FIXTURES AND ACCESSORY SCHEDULE			
ITEM	DESCRIPTION	BASIS OF DESIGN MODEL #	REMARKS: PROVIDE ADA COMPLIANT FIXTURES, TRIM, ACCESSORIES AND INSTALLATION
CH2	COAT HOOK (2 HOOKS)	BOBRICK B-983	MOUNT @ ±4'-0" TO T.O. HOOKS FOR ADA 66" AT NON-ADA LOCATIONS AT ALL DOORS
GB18	GRAB BAR 18"	BOBRICK B-6806X18	CONCEALED FASTENERS
GB36	GRAB BAR 36"	BOBRICK B-6806X36	CONCEALED FASTENERS
GB42	GRAB BAR 42"	BOBRICK B-6806X42	CONCEALED FASTENERS
M	MIRROR	BOBRICK B-2908 2436: 24" W x 36" H (61 x 91cm)	STAINLESS STEEL FRAME
S1	SINK	ACORN 1953-1-DMS-04-M-GT-TPT	W/ VALVE COVER
T	TOILET - WALL MOUNT	ACORN MODEL 2100-W-ADA -1.28GPF-MVCFV-HPS-OF-LC -3395-FTA-FV1-TF-CN	STAINLESS STEEL, WALL MOUNT, 1.28GPF, TIME TROL FLUSH VALVE & COVER-ACCESS PANEL, FLOOD-TROL AUTO RESET, W LID & SHIPPING COVER, CONCEALED NUTS, ADA W/ ZURN CARRIER
TPH	TOILET PAPER HOLDER	BOBRICK B-4288	W/ VALVE COVER
HD	TOILET PAPER HOLDER W/ SANITARY NAPKIN DISPOSAL	PINNACLE-PDC-R12	INSTALL ADA HT
FD	FLOOR DRAIN	SEE MEP	SLOPE TO DRAIN
WD	WASTE RECEPTACLE	BOBRICK B-35649	
SD	SOAP DISPENSER	BOBRICK B-26627	SURFACE-MOUNTED FOAM SOAP DISPENSER

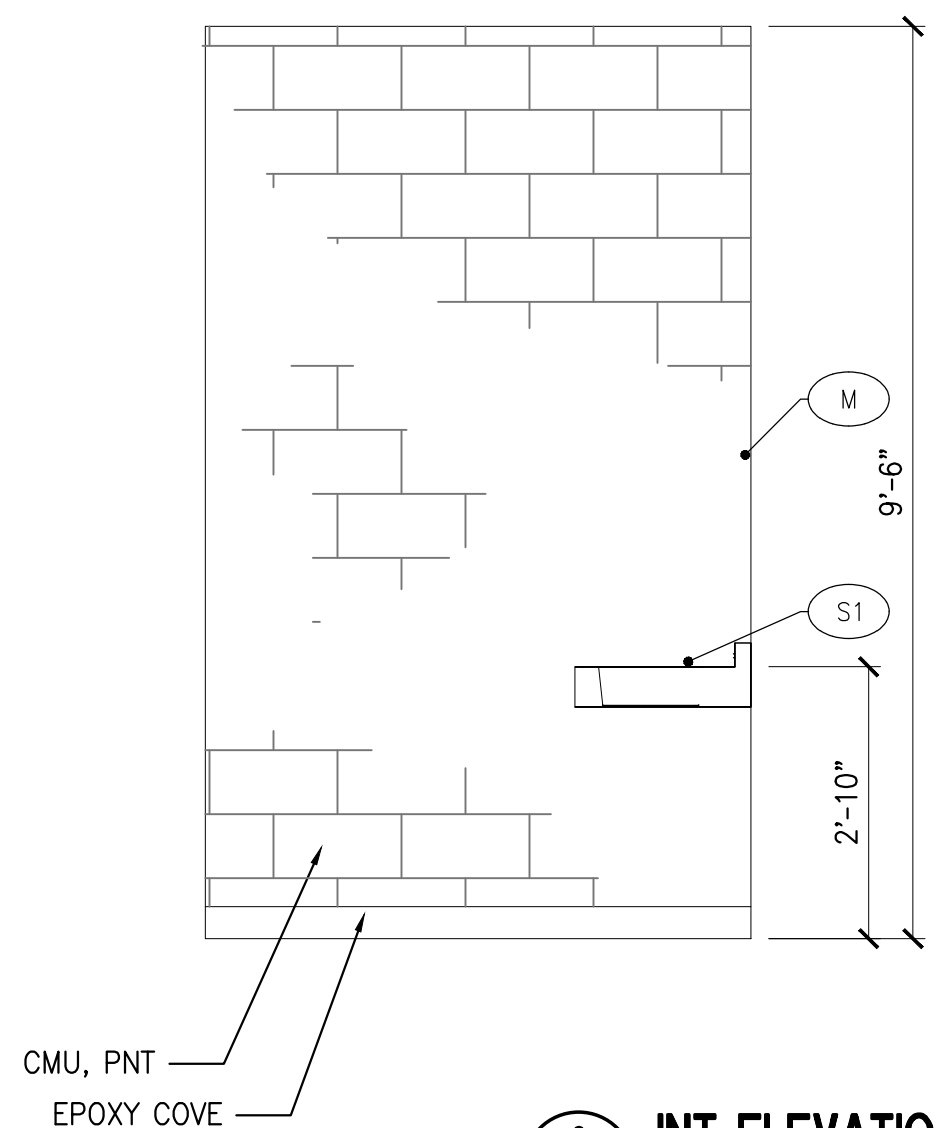
ALL ELEC WIRING TO BE INSTALLED INSIDE CMU CELLS

ROOM FINISH SCHEDULE												- = NOT APPLICABLE	
FLOOR REFERENCE	ROOM NUMBER	NOTE	(1)	(2)	(3)	(3)	(3)	(3)	(4)	(5)		(6)	
			FLOOR	BASE	WALL				WALL PAINT	CEILING	CEILING HT	REMARKS	
					NORTH	SOUTH	EAST	WEST					
1ST FLOOR		ROOM NAME											
	A101	CONCESSION	-	-	-	-	-	-	-	-	-	-	
	A102	CONCESSION STORAGE	-	-	-	-	-	-	-	-	-	-	
	A103	STORAGE	A	A	A	A	A	A	A	-	-	-	
	A104	RESTROOM	A	A	A	A	A	A	A	A	±9'-6"	-	
	A105	RESTROOM	A	A	A	A	A	A	A	A	±9'-6"	-	
NOTES:													

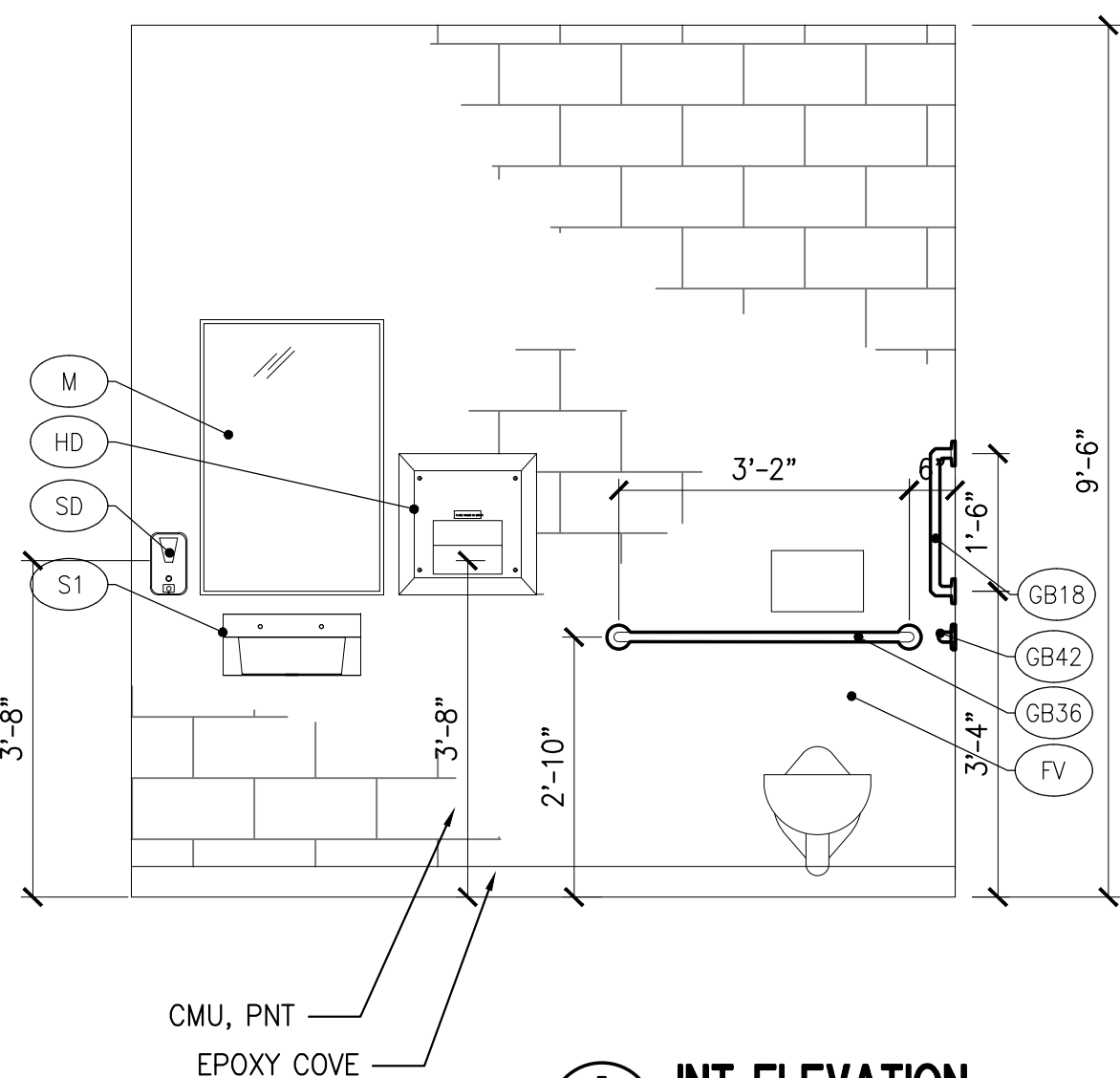
- 1: FLOOR
A: EPOXY
- 2: WALL BASE
A: INTEGRAL COVE BASE
- 3: WALL FINISH
A: CMU, PNT
- 4: WALL PAINT
A: EPOXY
- 5: CEILING
A: GWB, PNT



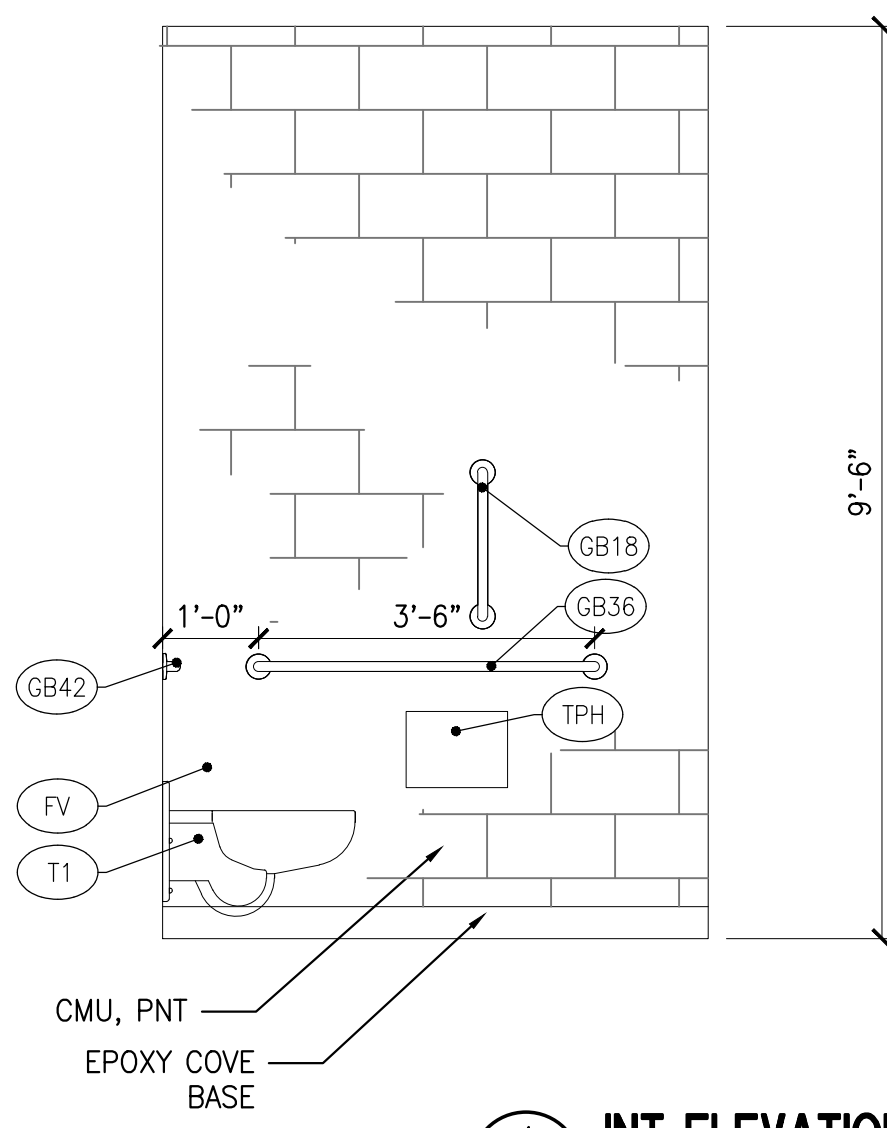
7 SECTION
A1.1 1/4" = 1'-0"



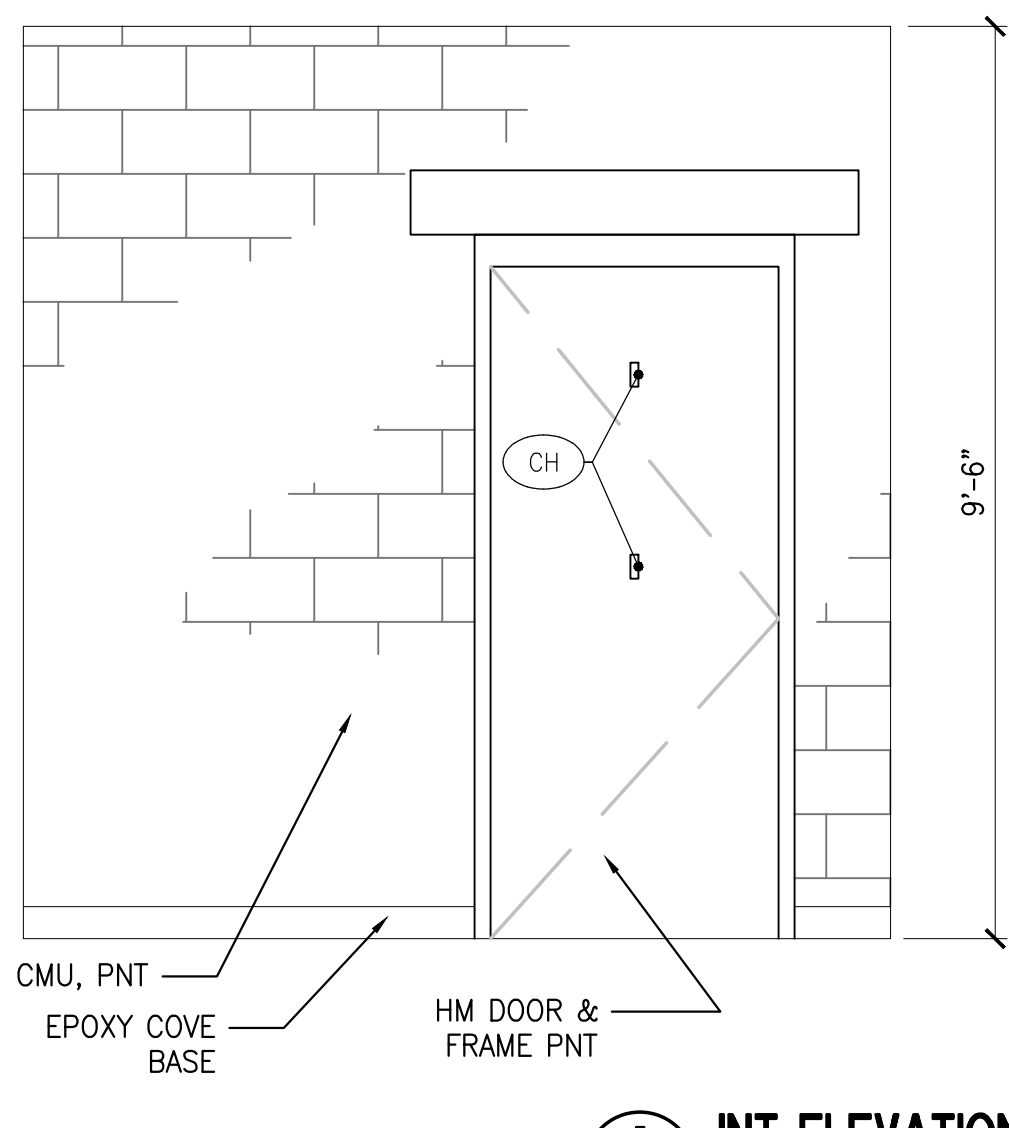
6 INT ELEVATION
A1.1 1/2" = 1'-0"



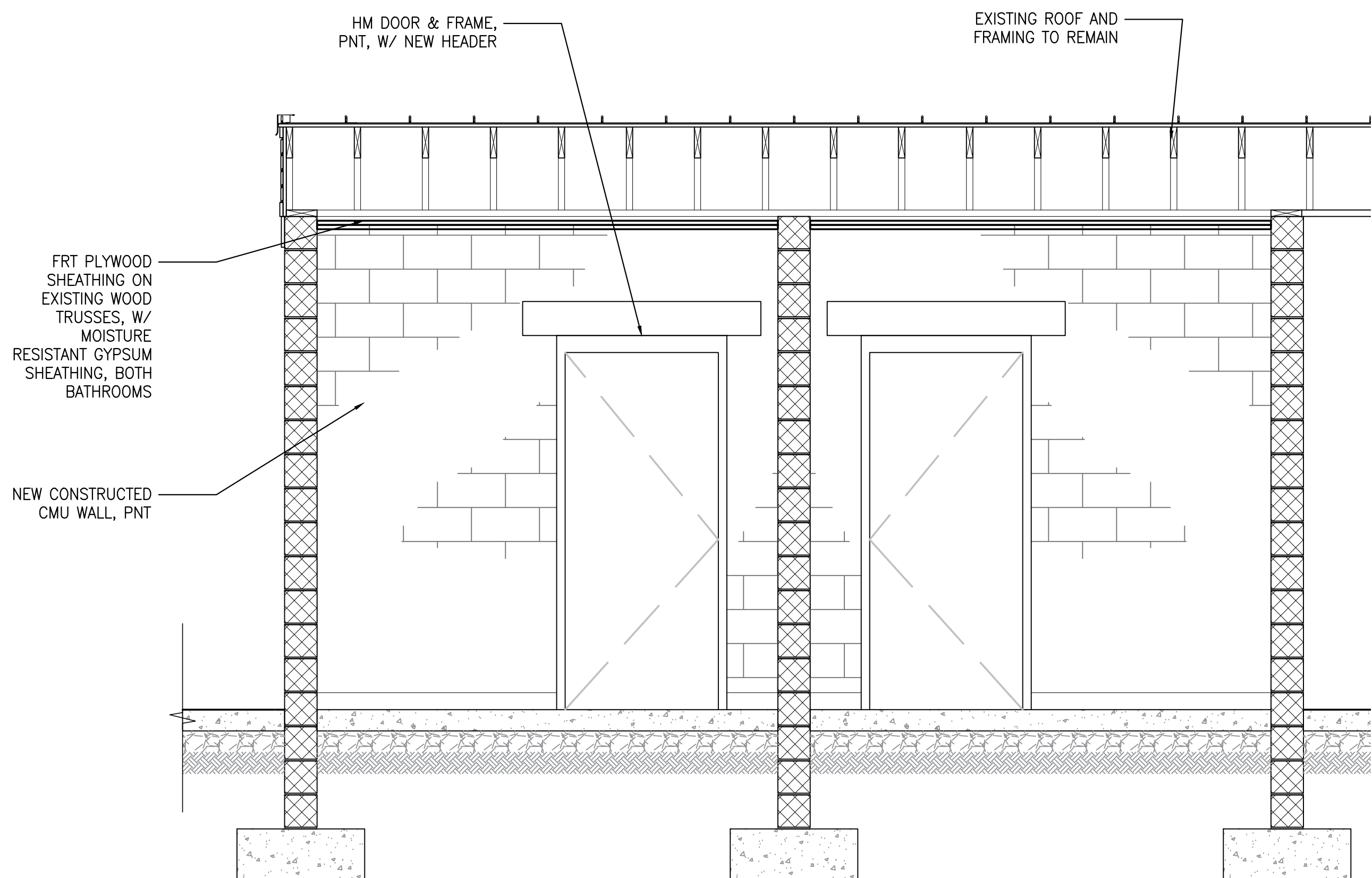
5 INT ELEVATION
A1.1 1/2" = 1'-0"



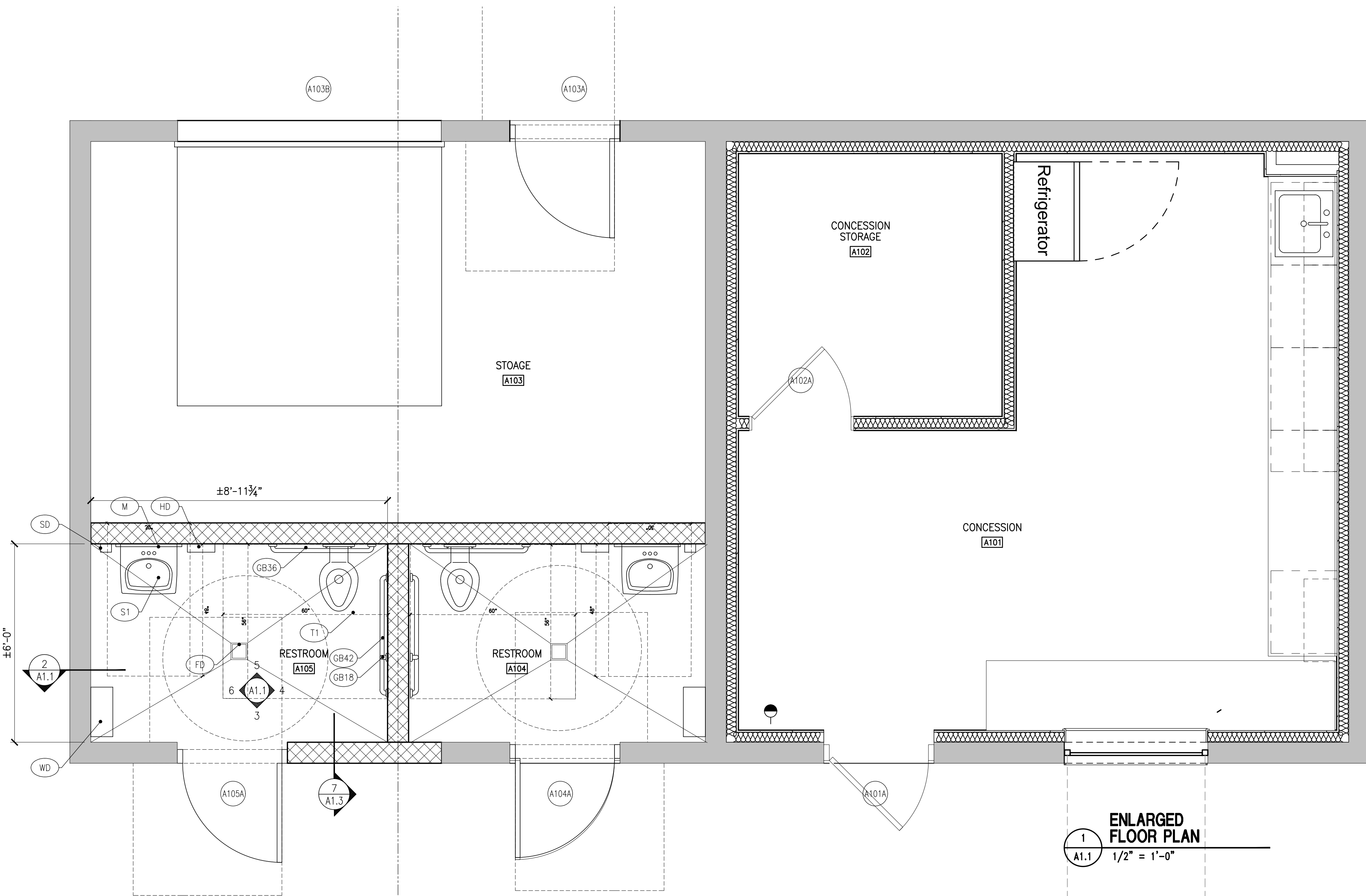
4 INT ELEVATION
A1.1 1/2" = 1'-0"



3 INT ELEVATION
A1.1 1/2" = 1'-0"



2 SECTION
A1.1 1/2" = 1'-0"



1 ENLARGED FLOOR PLAN
A1.1 1/2" = 1'-0"

ALL DIMENSIONS, MEASUREMENTS AND PROJECT CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR. REFER ALL DIFFERENCES, IN WRITING, TO THE ARCHITECT FOR CONSIDERATION PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BEAR THE COST OF RECTIFYING WORK NOT APPROVED BY THE ARCHITECT, CAUSED BY LACK OF COORDINATION AND OR NOTIFICATION.

STAMP

REVISIONS

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HAMMEL ASSOCIATES ARCHITECTS, LLC
25 E. Grant St./Suite 102 | Lancaster, PA 17602 | 717.393.3713 | www.hammelarch.com

READING
HOUSING AUTHORITY

PROJECT DESCRIPTION

OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
1001 SCOTT STREET
READING, PA 19611

SHEET TITLE FLOOR PLAN, ELEVATION, SECTION

ISSUE DATE 2026.09.11

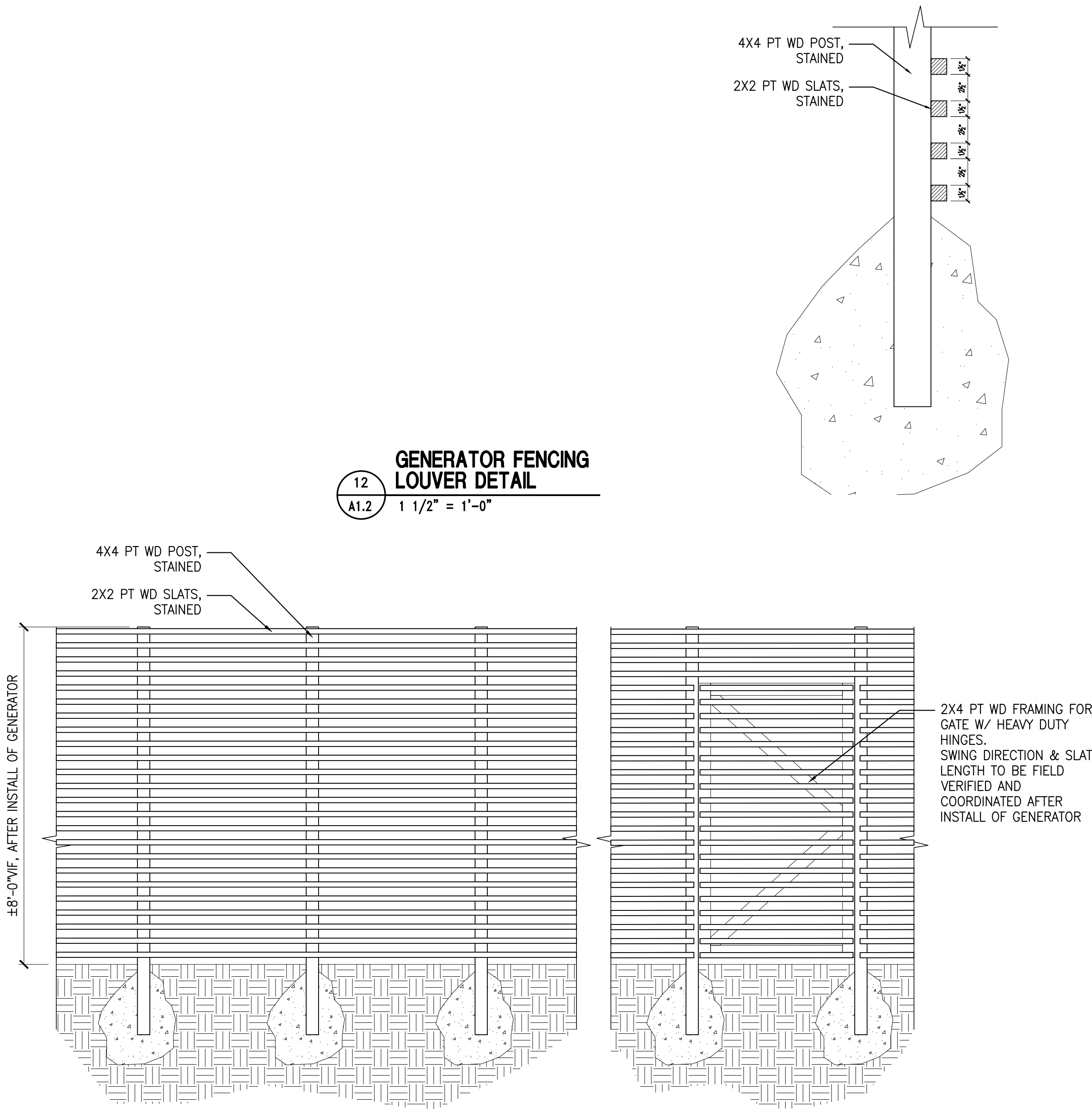
SCALE AS NOTED

FILE NUMBER 2532

DRAWN BY SK

CHECKED BY SK

A1.1



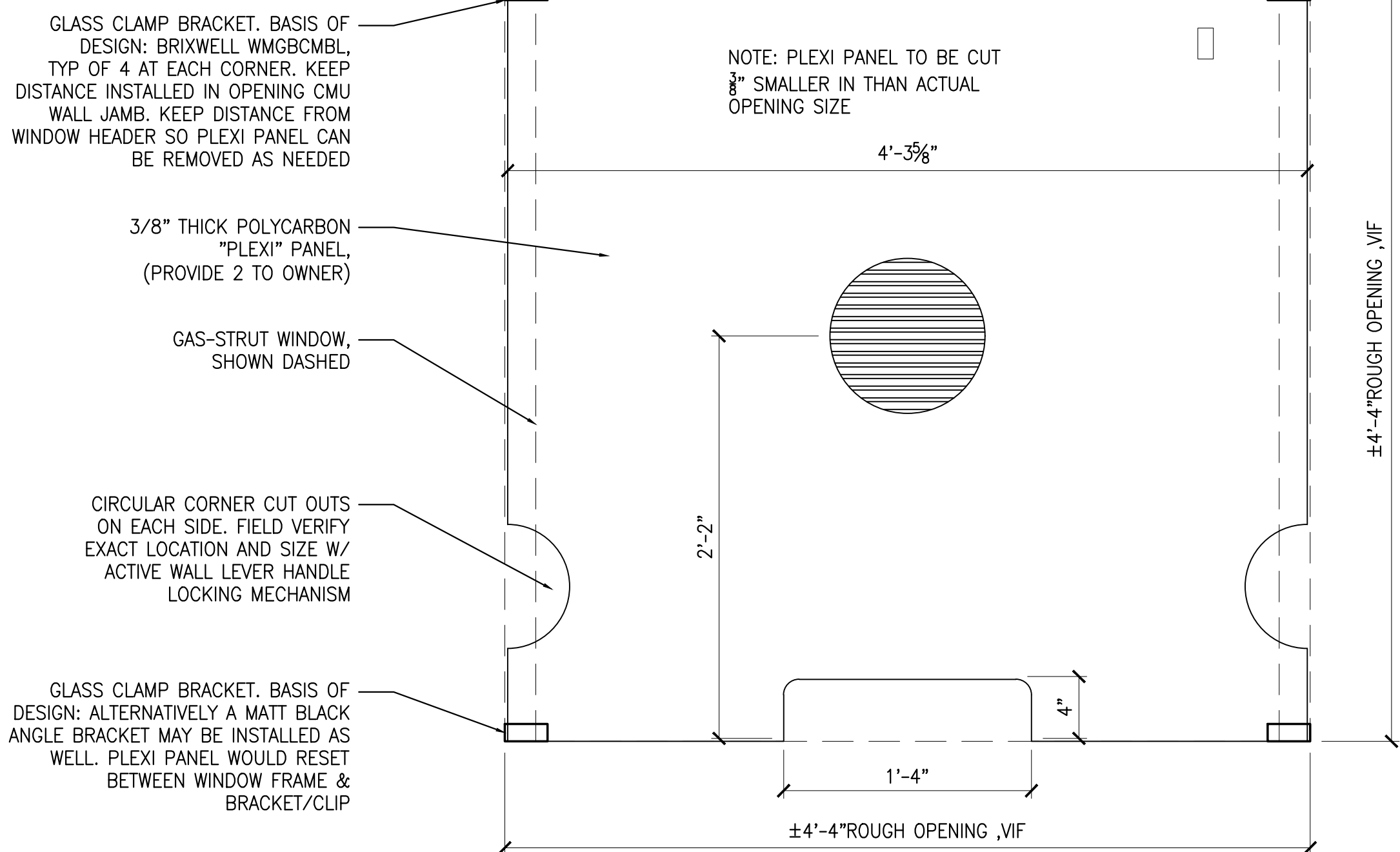
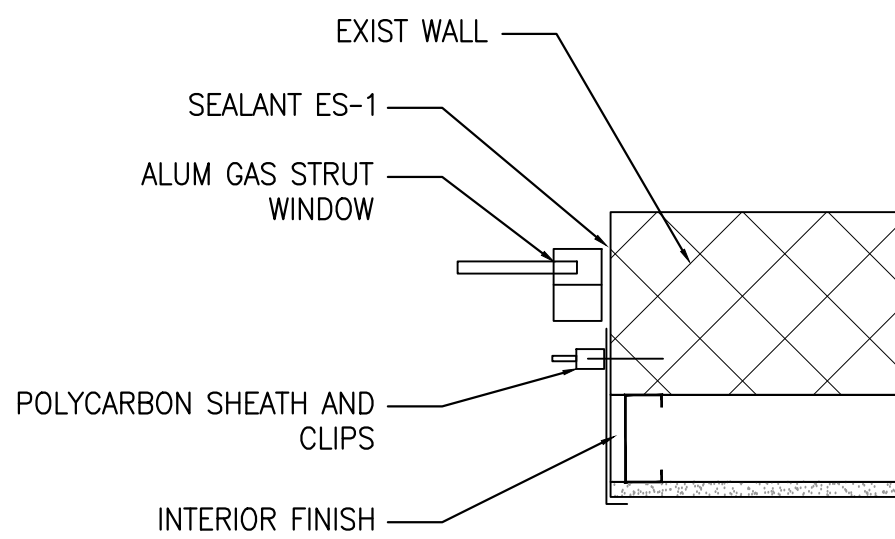
GENERATOR FENCING
LOUVER DETAIL

12
A1.2
1 1/2" = 1'-0"

GENERATOR FENCING
LOUVER DETAIL

11
A1.2
1/2" = 1'-0"

- TILT-UP WINDOW IN EXISTING OPENING:
- BASIS OF DESIGN: ACTIV-WALL GAS-STRUT WINDOWS
 - ±52"x52" (VERIFY CUSTOM SIZE IN FIELD)
 - THERMALLY BROKEN ALUMINUM
 - NO SILL
 - BLACK SATIN POWDERCOAT FINISH
 - INSULATED METAL ALUM PANEL INSTEAD OF GLAZING IN OPENING
 - PANEL COLOR TO BE MATCHING ATAS REGAL BLUE
 - CONTRACTOR TO SUPPLY & INSTALL EXTERIOR GRADE 24"x24" FULL COLORED DECAL LOGO INSTALLED CENTERED ON ALUM PANEL
 - HANDLE ON INTERIOR SIDE ONLY



LOUVER DETAIL

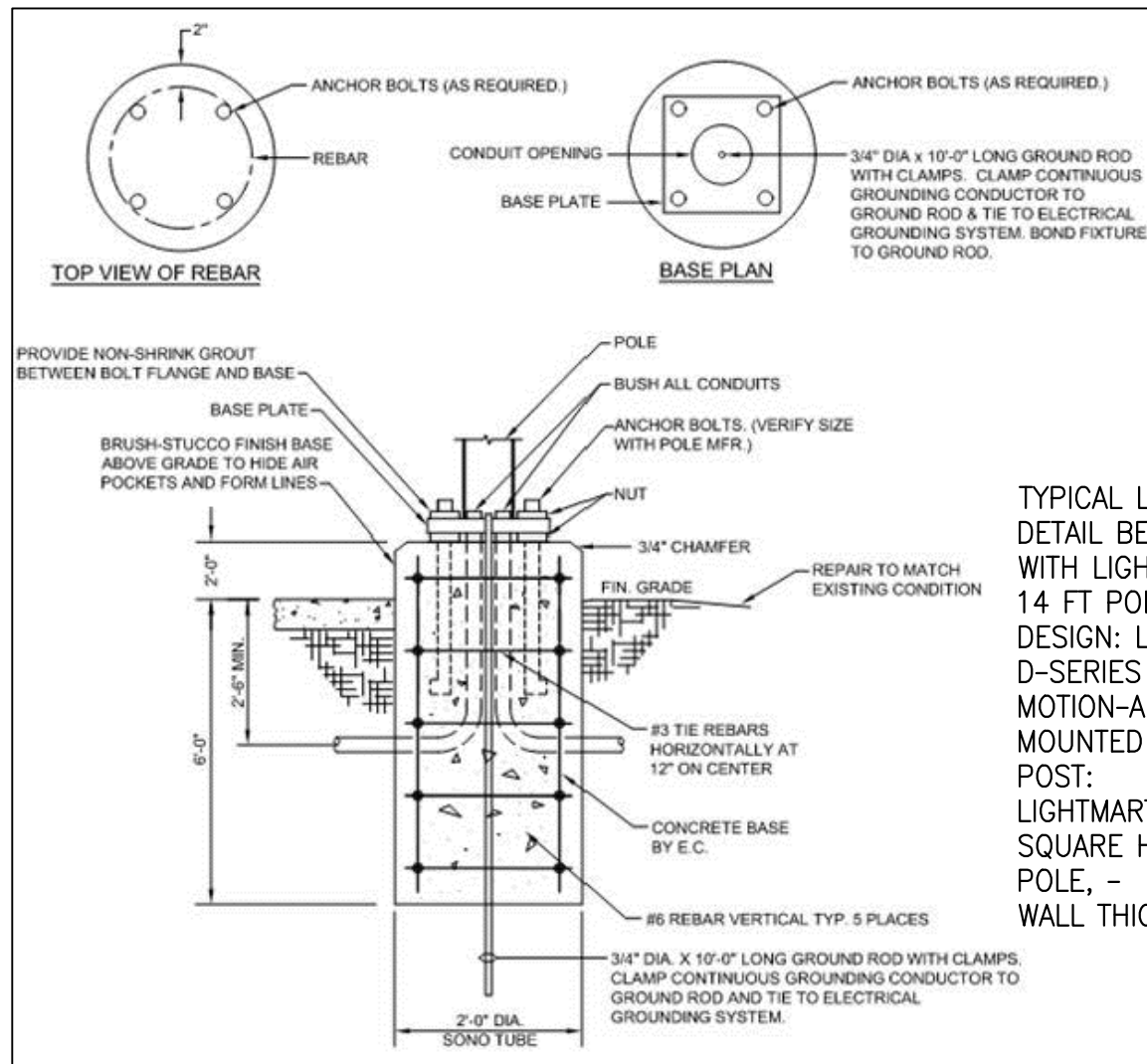
4
A1.2
1 1/2" = 1'-0"

Bill of materials		
Oakbrook Playground (2)		
RHA Reading Housing Authority Torrey Cooper PA United States		
Axis products	Part number	Qty
Cameras		
AXIS M4348-PLVE	03133-001	1
AXIS P3827-PVE	02450-001	1
AXIS P5654-E Mk II 60HZ	02915-001	1
Audio/visual alerters		
AXIS D4200-VE Network Strobe Speaker	02930-001	1
Accessories		
AXIS T91B57 Pole Mount 100-410 mm	01470-001	1
AXIS T91G61 Wall Mount	5506-951	1
AXIS T94501P Conduit Back Box	01190-001	1
Products and part numbers for installation in: United States		



FENCE SCOPE

8
A1.2
NTS



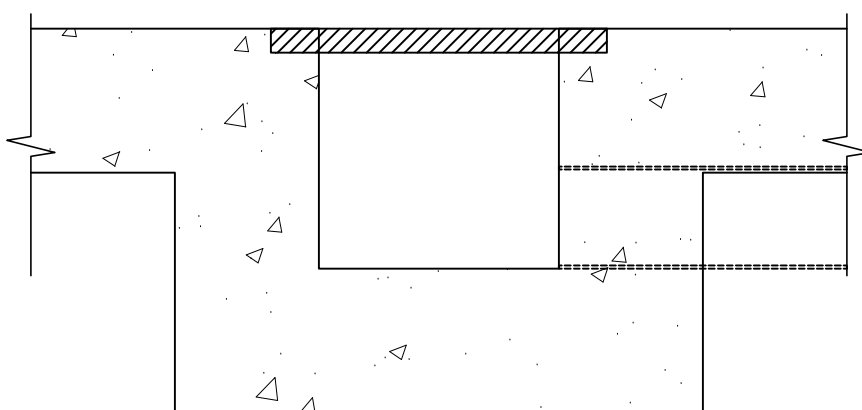
LIGHTPOST
FOOTER

9
A1.2
NTS



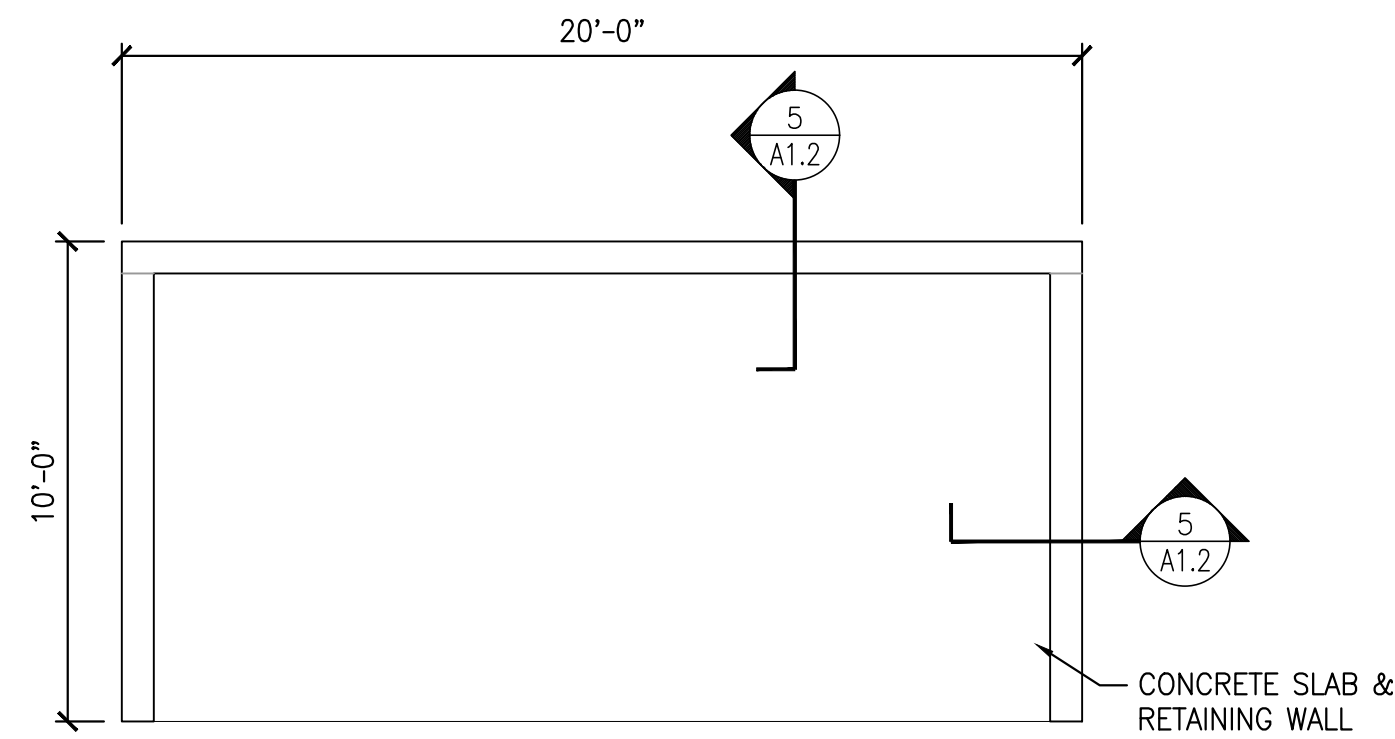
SLATE TEXTURED STAMP
CONCRETE PATTERN

3
A1.2
NTS



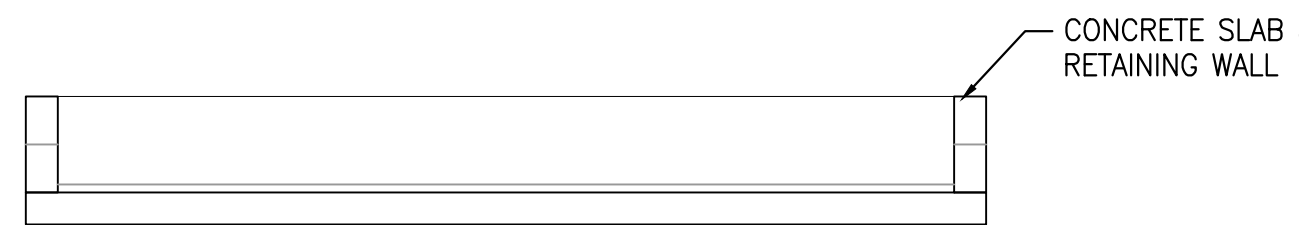
DRAIN
SLAB DETAIL

2
A1.2
1 1/2" = 1'-0"



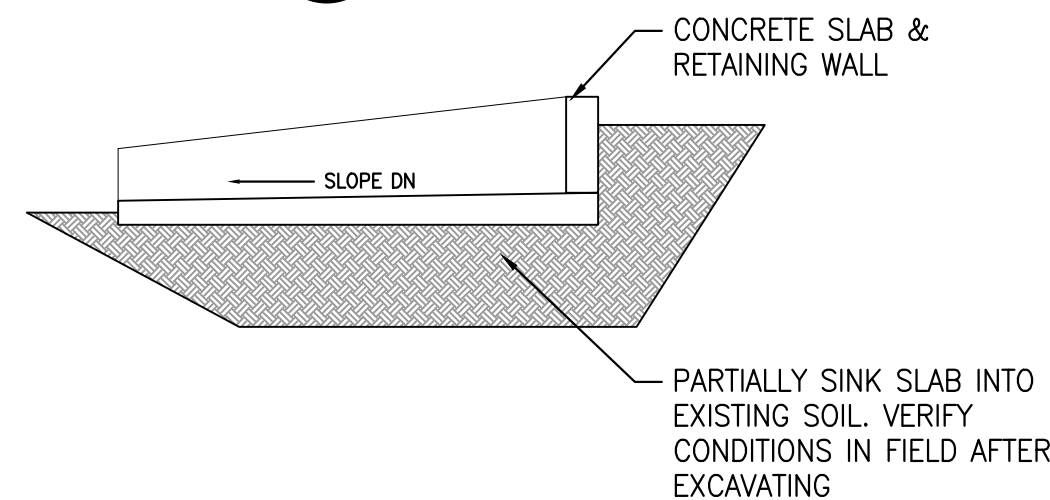
SLAB PLAN

7
A1.2
1/2" = 1'-0"



SLAB SECTION

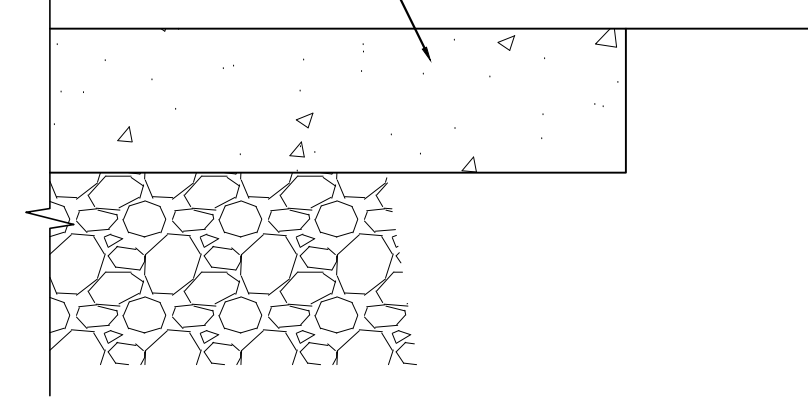
6
A1.2
1/2" = 1'-0"



SLAB SECTION

5
A1.2
1/2" = 1'-0"

SAW-CUT CONTROL JOINTS 1 3/8" DEEP
BETWEEN 4 AND 12 HOURS AFTER POUR,
IN ACCORDANCE W ACI318. DO NOT
CONFLICT W/ WATER FEATURES



SLAB DETAIL

1
A1.2
1 1/2" = 1'-0"

ALL DIMENSIONS, MEASUREMENTS AND
PROJECT CONDITIONS SHALL BE CHECKED
AND VERIFIED IN THE FIELD BY THE
CONTRACTOR. REFER ALL DIFFERENCES,
IN WRITING, TO THE ARCHITECT FOR
CONSIDERATION PRIOR TO PROCEEDING
WITH THE WORK. THE CONTRACTOR
SHALL BEAR THE COST OF RECTIFYING
WORK NOT APPROVED BY THE ARCHITECT,
CAUSED BY LACK OF COORDINATION AND
OR NOTIFICATION.

STAMP

REVISIONS

HAM
HAMMEL ASSOCIATES ARCHITECTS, LLC
25 E. Grant St | Suite 102 | Lancaster, PA 17602 | 717.393.3713 | www.hammelarch.com

READING
HOUSING AUTHORITY

PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
1001 SCOTT STREET
READING, PA 19611

SHEET TITLE MISC DETAILS

ISSUE DATE 2026.09.11

SCALE AS NOTED

FILE NUMBER 2532

DRAWN BY SK

CHECKED BY SK

A1.2

ALL DIMENSIONS, MEASUREMENTS AND PROJECT CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR. REFER ALL DIFFERENCES, IN WRITING, TO THE ARCHITECT FOR CONSIDERATION PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BEAR THE COST OF RECTIFYING WORK NOT APPROVED BY THE ARCHITECT, CAUSED BY LACK OF COORDINATION AND OR NOTIFICATION.

STAMP

REVISIONS

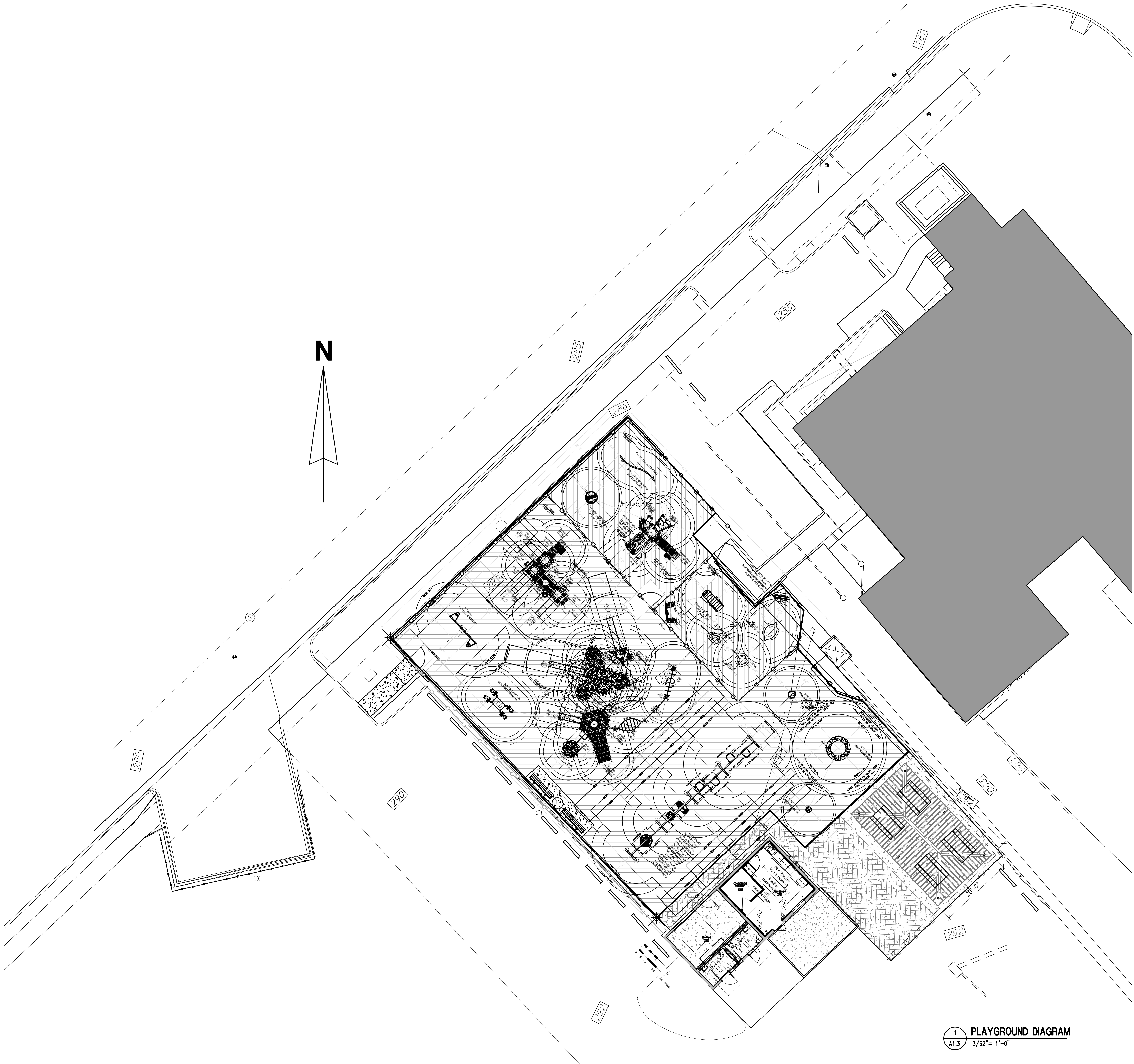


READING
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PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
1001 SCOTT STREET
READING, PA 19611

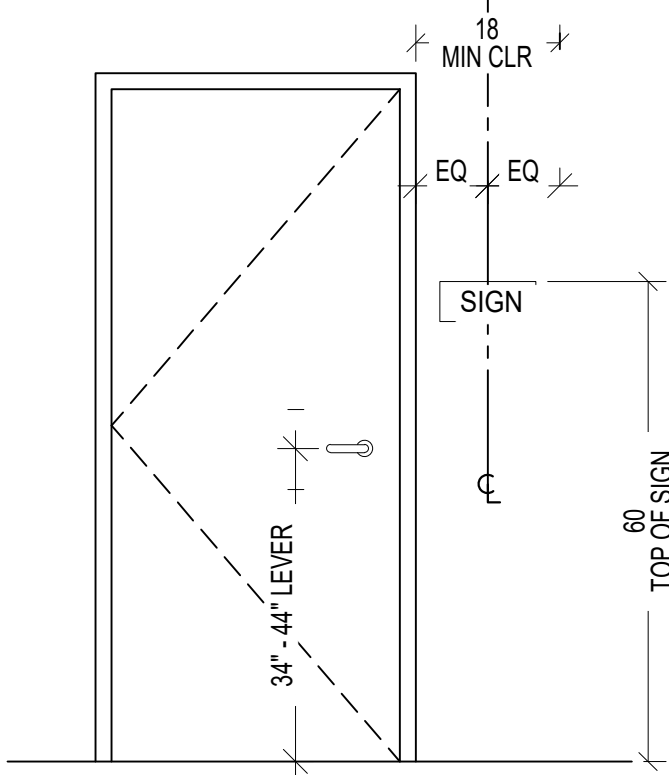
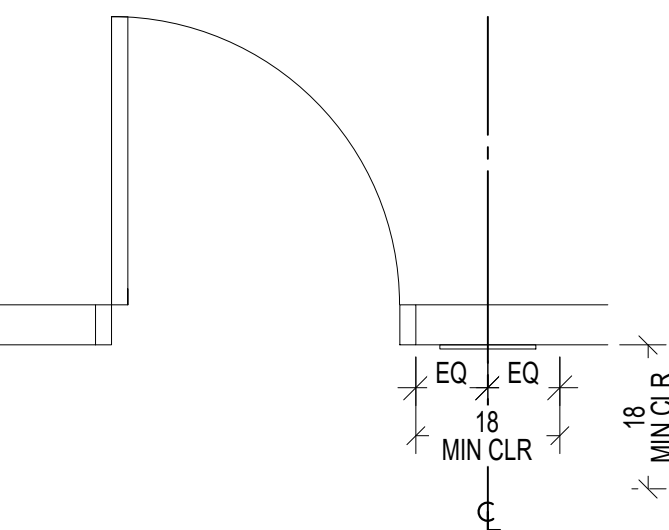
SHEET TITLE: PLAYGROUND PLAN			
ISSUE DATE	2026.09.11	SCALE	AS NOTED
FILE NUMBER	2532	DRAWN BY SK	CHECKED BY SK

A1.3



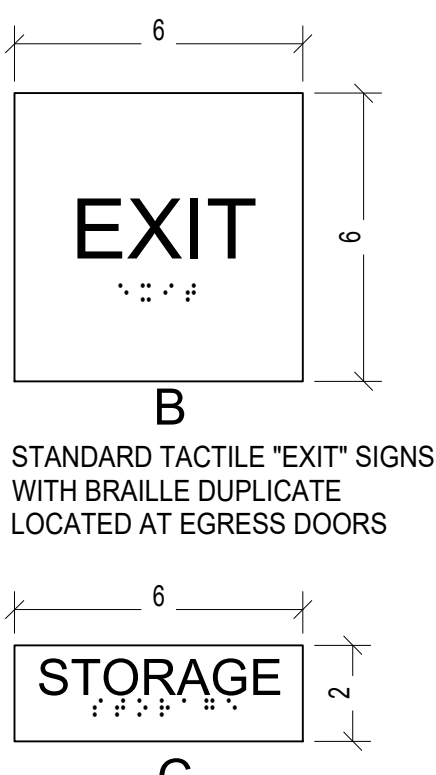
1 PLAYGROUND DIAGRAM
A1.3 3/32" = 1'-0"

SIGNAGE INSTALLATION INSTRUCTIONS:

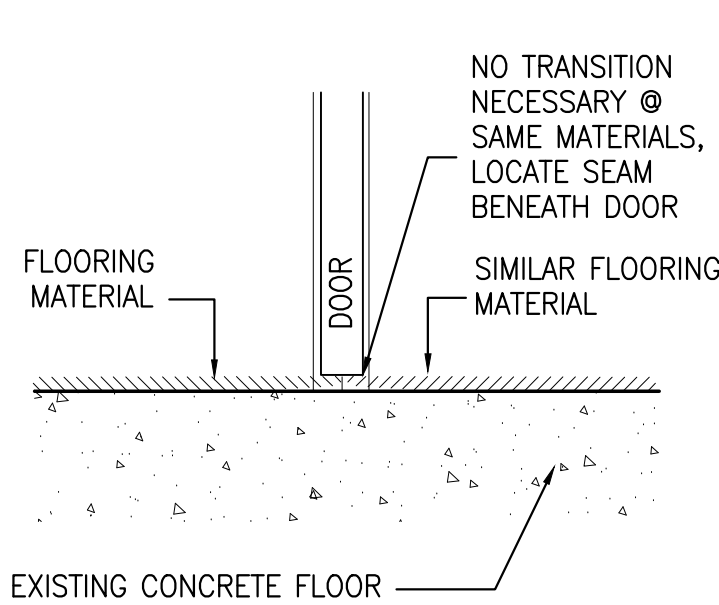


NOTE:
SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. AT DOUBLE DOORS SIGNS SHALL BE MOUNTED ON THE INACTIVE LEAF SIDE. IF BOTH LEAFS ARE ACTIVE THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE NO WALL SPACE EXISTS ON THE LATCH SIDE OF THE DOOR OR RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" (76 MM) OF THE SIGNAGE W/O ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR

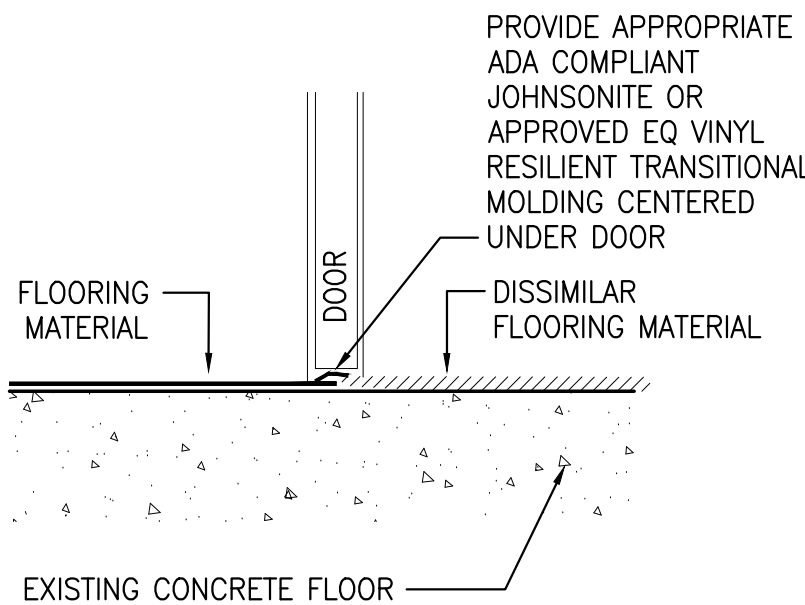
SIGN SCHEDULE:



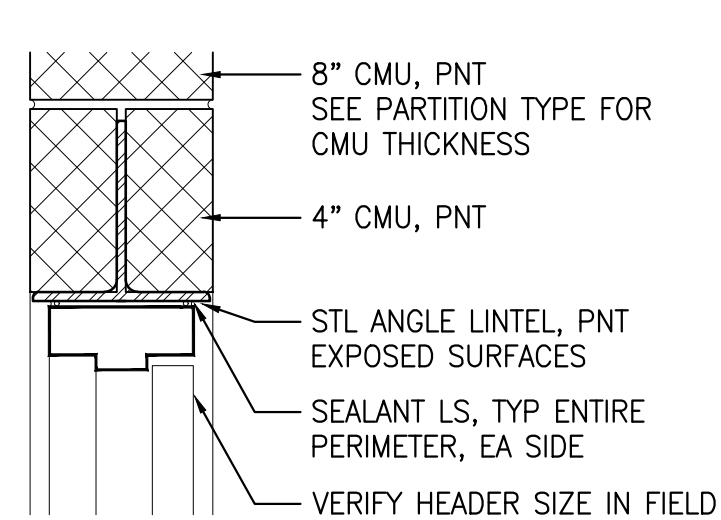
- NOTES:
1. ALL SIGNS TO BE ADA COMPLIANT
 2. ALL SIGNS TO MATCH EXISTING STANDARD SIGNS, MATERIALS, COLORS, MOUNTING, LETTERING, SPACING, CONFIGURATION ETC
 3. MATERIAL BY OWNER
 4. ALL SIGNS MUST BE APPROVED BY OWNER BEFORE FABRICATION
 5. TYPICAL ROOM SIGNS WITH BRAILLE DUPLICATE INFORMATION DISPLAYED BASED ON ROOM NAME AND NUMBER AS SHOWN ON ARCHITECTURAL PLANS, CONFIRM WITH OWNER DURING SHOP DRAWING PROCESS.



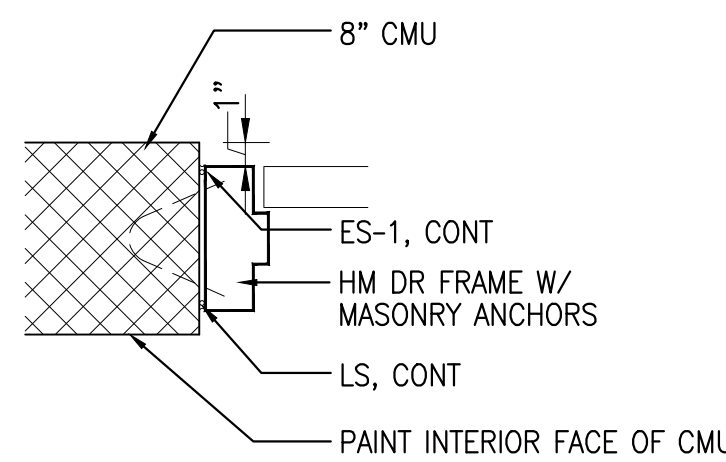
TYPICAL SILL DETAIL
S1
A1.4 1 1/2" = 1'-0"



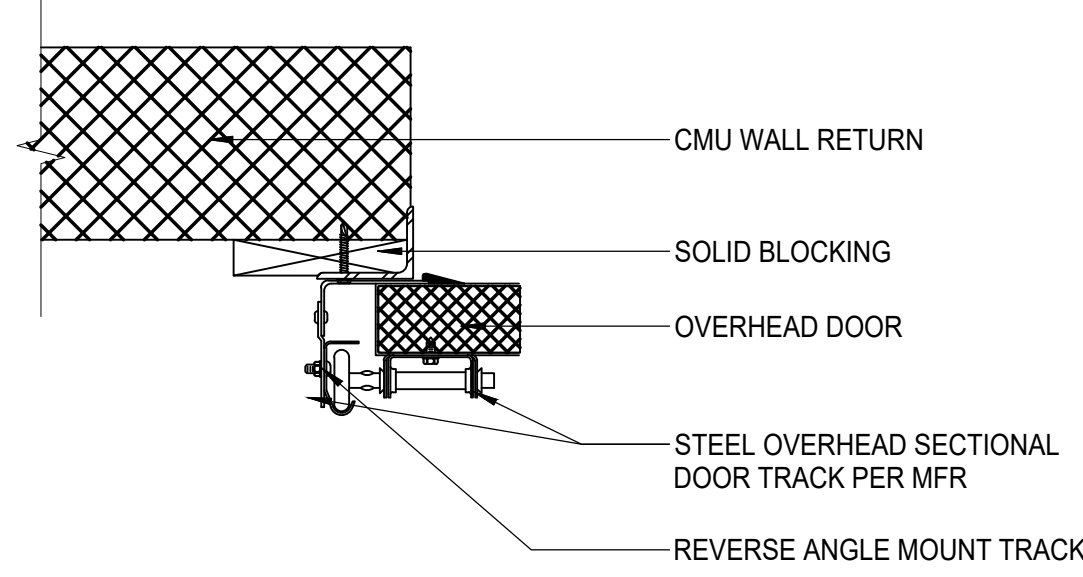
TYPICAL SILL DETAIL
S2
A1.4 1 1/2" = 1'-0"



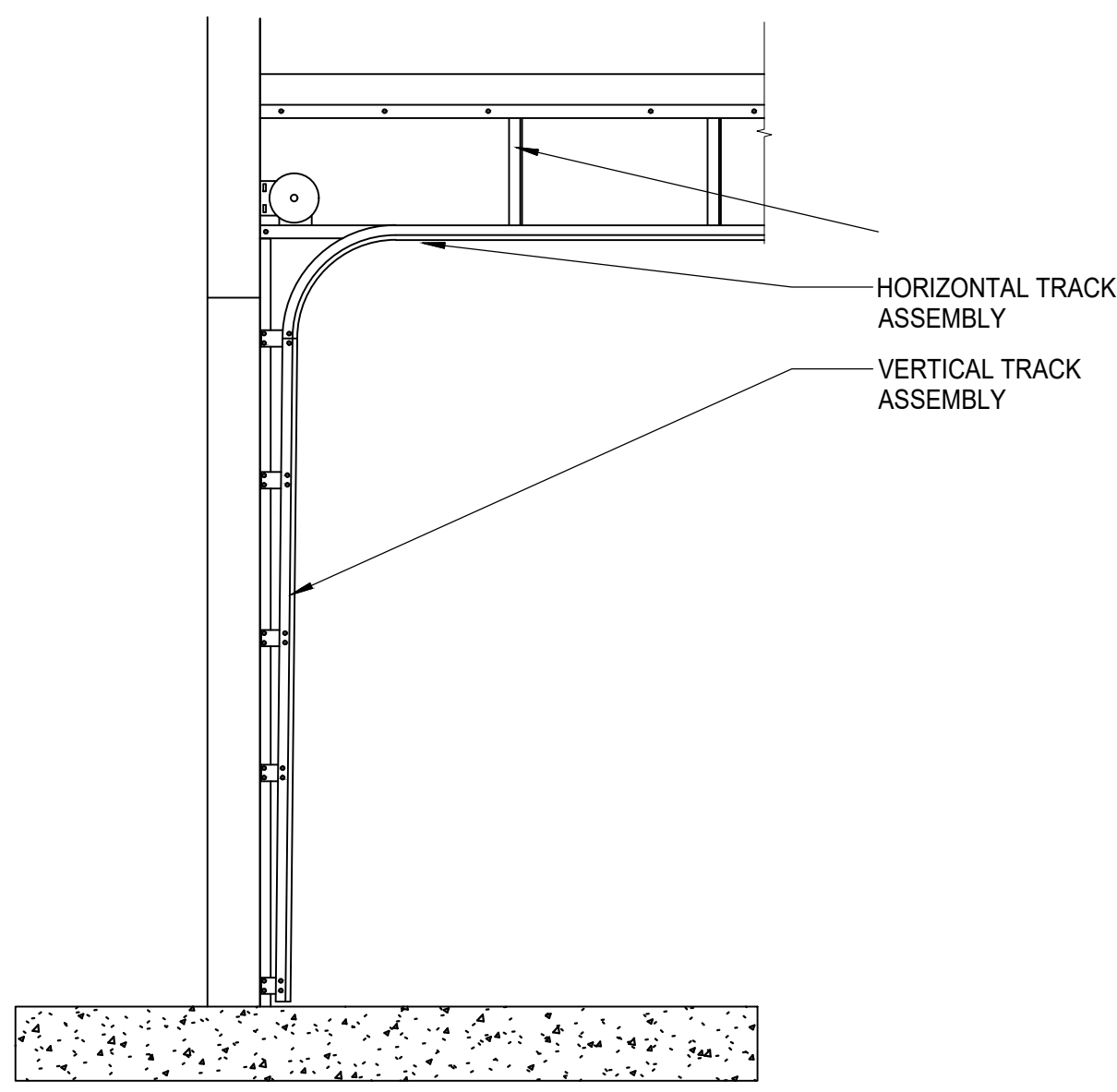
TYPICAL DOOR HEAD DETAIL
H1
A1.4 1 1/2" = 1'-0"



TYPICAL DOOR JAM DETAIL
J1
A1.4 1 1/2" = 1'-0"

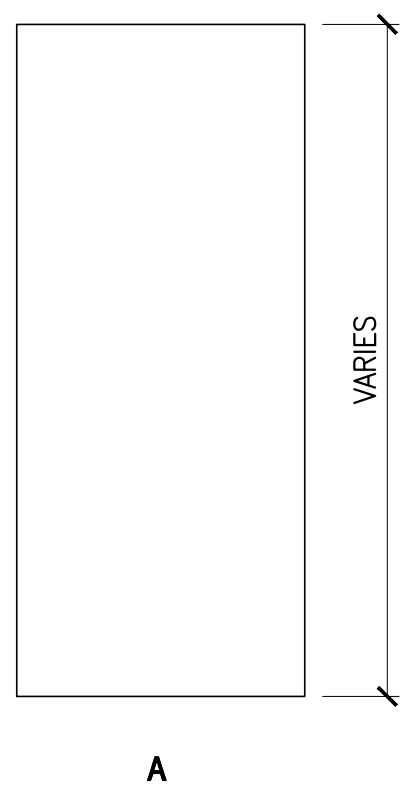


TYPICAL OD JAMB DETAIL
H2
A1.4 1 1/2" = 1'-0"

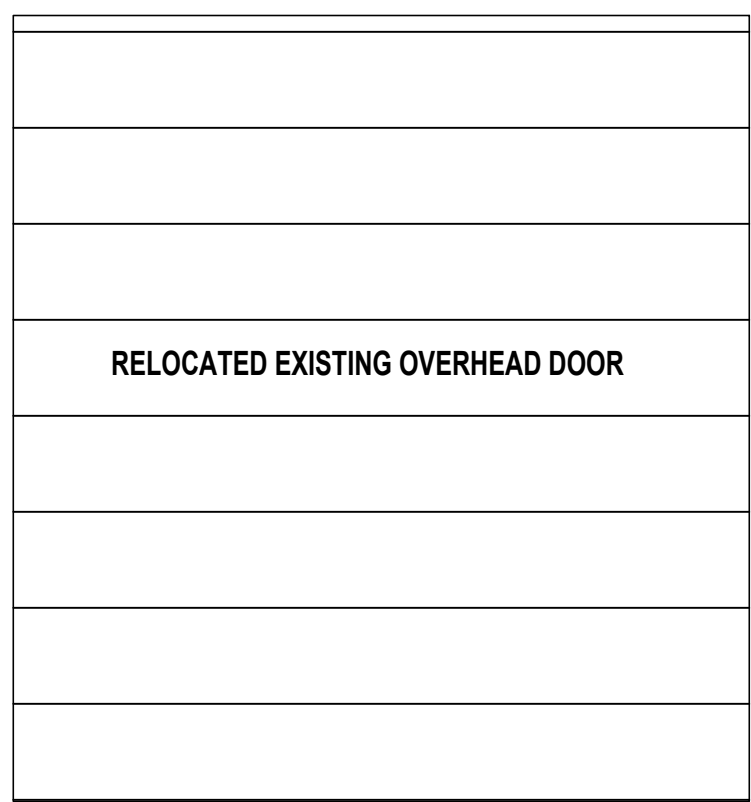


TYPICAL OD HEAD DETAIL
H2
A1.4 1" = 1'-0"

(1) DOOR TYPES

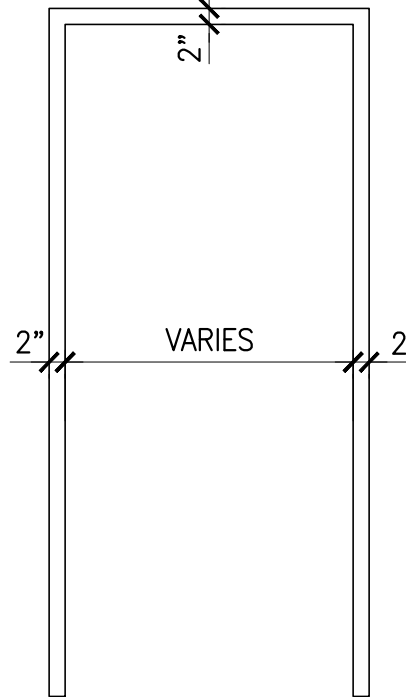


A



B

(4) FRAME TYPES



A
AA: 4" HEADER

(2) DOOR MATERIAL & FINISH

- A. INS HM, PNT

(4) FRAME MATERIAL & FINISH

- A. HM - PNT

(5) DOOR & FRAME LABEL

N/A

(6) HARDWARE GROUPS (NON-FERROUS)

- 1: RESTROOM:
3 HEAVY DUTY BUTT HINGES
1 RESTROOM MORTISE LOCK WITH LEVER HANDLES
1 SURFACE MOUNTED OVERHEAD STOP
1 WALL STOP
2 KICK PLATE (1 EACH SIDE)
1 GASKET
1 DOOR SWEEP
1 CLOSER
1 DRIP CAP
- 2: STORAGE
3 HEAVY DUTY BUTT HINGES
1 SURFACE MOUNTED OVERHEAD STOPS
1 STOREROOM LOCKSET WITH LEVER HANDLES
2 KICK PLATES (1 EACH SIDE)
1 GASKET
2 DOOR SWEEPS
1 DRIP CAP

(7) REMARKS

- A. EXISTING OVERHEAD DOOR IS TO BE RELOCATED INTO A NEW CONSTRUCTED OPENING ON NORTH WALL OF THE BUILDING. GENERAL CONTRACTOR TO VERIFY EXISTING OVERHEAD DOOR AND CONSTRUCT A NEW OPENING FOR THE EXISTING DOOR THAT IS TO BE RELOCATED.
- B. GENERAL CONTRACTOR SHALL INSTALL AUTOMATIC GARAGE DOOR OPENER ON EXISTING RELOCATED OVERHEAD DOOR. BASIS OF DESIGN: OVERHEAD DOOR DESTINY 1200 W/ INTERIOR MOUNT PUSH BUTTONS.
- C. EXISTING RESTROOM DOOR IS ALLOWED TO REMAIN IF NEW SPECIFIED HARDWARE CAN BE INSTALLED IN EXISTING DOOR. GENERAL CONTRACTOR TO PRICE FOR A FULL REPLACEMENT DOOR AS LISTED. IF EXISTING DOOR CAN NOT REMAIN THE REPLACEMENT DOOR SHALL BE INCLUDED IN BID AND AT NO ADDITIONAL COST TO OWNER

DOOR SCHEDULE													- = NOT APPLICABLE	
FLOOR REFERENCE	DOOR NUMBER	DOOR		FRAME		DETAIL			MISC					
		NOTE	(1)	(2)	(4)	(5)					(6)	(7)		
		SIZE	THICKNESS	TYPE	MATERIAL & FINISH	FRAME TYPE	MATERIAL & FINISH	HEAD	JAMB	SILL	DOOR & FRAME LABEL	SIGNAGE	HARDWARE GROUP	REMARKS
	101A	EXISTING	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
	102A	EXISTING	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	
	103A	3'-0"X7'-0"	1 3/4"	A	A	AA	A	H1	J1	S1	-	A	1	
	103B	8'-0"X8'-0"	ETL	ETL	ETL	ETL	ETL	H2	J2	S2	-	-	-	A,B
	104A	3'-0"X7'-0"	1 3/4"	A	A	A	A	H1	J1	S1	-	A	2	C
	105A	3'-0"X7'-0"	1 3/4"	A	A	A	A	H1	J1	S1	-	A	2	
NOTES: ETR: EXISTING TO REMAIN ETL: EXISTING TO BE RELOCATED														

ALL DIMENSIONS, MEASUREMENTS AND PROJECT CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR. REFER ALL DIFFERENCES, IN WRITING, TO THE ARCHITECT FOR CONSIDERATION PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BEAR THE COST OF RECTIFYING WORK NOT APPROVED BY THE ARCHITECT, CAUSED BY LACK OF COORDINATION AND OR NOTIFICATION.

STAMP

REVISIONS

HAM

HAMMEL ASSOCIATES ARCHITECTS, LLC
25 E. Grant St | Suite 102 | Lancaster, PA 17602 | 717.393.3713 | www.hammelarch.com

READING
HOUSING AUTHORITY

PROJECT DESCRIPTION

OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
1001 SCOTT STREET
READING, PA 19611

SHEET TITLE

DOOR SCHEDULE & DETAILS

ISSUE DATE

2026.09.11

SCALE

AS NOTED

FILE NUMBER

2532

DRAWN BY

SK

CHECKED BY

SK

A1.4

STRUCTURAL SPECIFICATIONS AND GENERAL CONDITIONS

GENERAL

- Where these specifications conflict with other project specifications, these specifications shall govern.
- Durst & Taylor Structural Engineering, LLC will assume no responsibility and/or liability for problems which arise from failure to follow these plans, specifications, and the design intent they convey or for problems which arise from others' failure to obtain and/or follow the Engineer's guidance.
- All work shall be performed in accordance with local applicable codes and regulations. Appropriate safety measures satisfying local and OSHA requirements shall be provided.
- Proper temporary bracing of all construction work in progress is the Contractor's responsibility.
- If during demolition existing conditions do not agree with information shown on the design drawings, the Contractor shall notify the Engineer immediately.
- The Contractor shall be responsible for the location and protection of all existing utilities during construction and the repair of any damaged facilities.
- Sections and details shown, while drawn for specific locations, are intended to establish the general types of details to be used throughout.
- Drawings should not be scaled. Contact the Engineer for clarification of any dimension in question.
- Anchor bolt layout shall be performed under the direction of a professional land surveyor.
- All dimensions shall be verified by the Contractor. Layout shall be checked and coordinated between all construction documents and specifications prior to the start of work.
- Shop drawings prepared by the subcontractors, suppliers, etc. shall be reviewed by the Engineer for conformance with design concept only. Each shop drawing submitted shall be stamped, initialed and dated as being reviewed by the construction management general contractor. Work shall not begin without the review by the Engineer.
- Any engineering design provided by others and submitted for review or record shall bear the stamp and signature of a professional structural engineer registered in the state in which the project is located.

DESIGN DATA

- Building Code = 2021 International Building Code
- Roof Load:
 - Dead Load = 15 PSF (includes structure weight)
 - Live Load = 30 PSF
- Snow Load: (Roof Live Load May Control)
 - Ground Snow Load: Pg = 30 PSF
 - Min. Roof Snow Load = 30 PSF
 - Flat Roof Snow Load, Pf = 25.2 PSF
- Snow Exposure Factor, Ce = 1.0
- Snow Load Importance Factor, Is = 1.0
- Thermal Factor, Ct = 1.2
- Lateral Soil Load:
 - Soil Unit Weight = 120 PCF
 - At-Rest Pressure = 45 PSF/FT.
 - Active Pressure = 60 PSF/FT.
- Wind Load:
 - Basic Wind Speed (3-second gust) = 115 MPH
 - Wind Importance Factor, Iw = 1.0
 - Building Category = II
 - Exposure Category = B
 - Internal Pressure Coefficient, GCp1 = 0.18
 - Wind Design Pressure (MWFRS) = 25 PSF (Apply a 0.6 load factor for ASD load combinations and a 1.0 load factor for LRFD load combinations)
- Wind Pressures (Components & Cladding):
Building exterior components and cladding shall be designed for the required components and cladding pressures of ASCE 7-16.
- Earthquake Design Data:
 - Building Category = II
 - Seismic Importance Factor, Ie = 1.0
 - Mapped Spectral Response Accelerations:
 - 0.1s = 0.196
 - 0.3s = 0.081
 - Site Class = D (assumed)
 - Spectral Response Coefficients:
 - Ss = 0.209
 - Sd1 = 0.088
 - Seismic Design Category = B
- Concrete Design Method:
 - Design per ASD
 - Loads indicated are ASD loads
- Concrete Masonry Design Method:
 - Design per LRFD
 - Loads indicated are ASD loads

SPECIAL INSPECTION REQUIREMENTS

- The following types of work require special inspection based on Section 1704 of the 2018 International Building Code. The owner will employ special inspectors who shall provide special inspections for compliance with the construction documents and other references noted. Reports shall be submitted to the Engineer and Building Official on a periodic basis. A final report shall be submitted documenting required special inspections and correction of any discrepancies prior to the end of construction.
 - Soils
 - Verify materials below footings are adequate to achieve the design bearing capacity.
 - Verify excavations are extended to proper depth and have reached proper material.
 - Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill with a total depth greater than 12".
 - Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.
- Concrete Construction
 - Periodic inspection of reinforcing steel, including prestressing tendons & placement for compliance with approved Construction Documents and ACI 318, Sections 3.5 and 7.1 - 7.7.
 - Continuous inspection of welding of reinforcing steel in accordance with AWS D1.4 and ACI 318, Section 3.5.2.
 - Continuous inspection of bolts installed in concrete prior to and during placement of concrete where allowable loads have been increased.
 - Periodically verify the use of required concrete design measures, in accordance with ACI 318, Chapter 4 and Sections 5.2 - 5.4.
 - Verify sampling of fresh concrete to determine slump, air content and temperature when making specimens for strength tests, in accordance with ACI 318, Sections 5.6 and 5.8.
 - Continuous inspection of concrete and shotcrete placement for proper application techniques in accordance with ACI 318, Sections 5.9 and 5.10.
 - Periodic inspection for maintenance of curing temperatures and techniques to ensure compliance with ACI 318, Sections 5.11 - 5.13.
 - Continuous inspection of application of prestressing forces and grouting of bonded prestressing tendons in the seismic-force-resisting system, in accordance with ACI 318, Sections 18.4 and 18.20.
 - Periodically inspect erection of precast concrete members to ensure compliance with ACI 318, Chapter 16.
 - Periodic verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete, and prior to removal of shores and forms from beams and structural slabs, in accordance with ACI 318, Section 6.2.
- Masonry Construction (Level I Inspection)
 - Periodically verify proportions of site-prepared mortar, construction of mortar joints, and location of reinforcement and connections for compliance with construction documents.
 - Periodically verify size and location of structural elements; type, size, and location of anchors, including masonry anchorage to structural members, and protection of masonry during cold weather (<40°F) or hot weather (>90°F).
 - Periodic inspection of site, grade, and type of reinforcement. Continuous inspection is required for welding of reinforcing bars.
 - Periodic inspection, prior to grouting, to verify clean grout space, placement of reinforcement and connectors, proportions of site-prepared grout, and construction of mortar joints.
 - Continuously verify grout placement to ensure compliance with code and construction document provisions.
 - Continuously verify preparation of any required grout specimens, mortar, specimens, and/or prisms.
 - Periodically verify compliance with required inspection provisions of the construction documents and approved submittals.
- Structural Steel
 - Welding inspection shall be in compliance with AWS D1.1. The basis for welding inspector qualification shall be AWS D1.1.
 - Periodically verify compliance with framing and connection details on the construction documents.
 - Verify that high-strength bolts, nuts, washers, structural steel, and weld filler materials conform to applicable standards in the construction documents. Verify manufacturer's certificate of compliance or certified mill test reports.
 - Periodically inspect installation of high-strength bolts in accordance with ASC Specifications.
 - Verify pre-installation testing and calibration procedures, that bolted parts are in snug contact, and installation procedure for bolts requiring pre-tensioning.
 - Periodically inspect bolts requiring pre-tensioning when using the turn-of-nut method with matchmarking, the direct tension indicator method, or the alternate design fastener (twist-of-bolt) method.
 - Continuously inspect bolts requiring pre-tensioning when using the calibrated wrench method or turn-of-nut method without matchmarking.
 - Verify bolted parts are in snug contact, and monitor installation and tightening on a periodic basis for bolts requiring only snug tight condition.
 - Periodic inspection of welding for single-pass fillet welds <5/16" and floor and deck welds.
 - Continuous inspection of complete and partial penetration groove welds, multi-pass fillet welds, and single-pass fillet welds >5/16".
 - Inspection of Fabricators
 - When a fabricator is not registered and approved to perform work without special inspection, or does not have a certificate of compliance, a special inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to approved construction documents. Procedures shall be reviewed for completeness and adequacy relative to the code requirements for the fabricator's scope of work.

CONSTRUCTION PROCEDURES AND SAFETY REQUIREMENTS

- The contract structural drawings and specifications represent the finished structure. Unless otherwise indicated, they do not indicate the means or methods of construction.
- Provide all measures necessary to protect the workmen and other persons during construction. Provide all necessary measures to avoid excessive stresses and to hold the structural elements in place during construction. Such measures shall include, but not be limited to, bracing, shoring for construction equipment, shoring for earth banks, forms, scaffolding, plankings, safety nets, support and bracing for cranes and hoists, guying, etc.
- Engage properly qualified persons to determine where and how temporary precautionary measures shall be used. Observation visits to the site by structural engineer's field representative shall not include the items noted above.
- Supervise and direct the work so as to maintain sole responsibility for all construction means, methods, techniques, sequences, and procedures. Retain the services of a professional structural engineer licensed in the state in which the project is located to design and supervise any scaffolding for workmen, and all shoring of forms and elements of the construction.

FOUNDATION CONSTRUCTION

- Allowable soil bearing pressure (not assumed in design is 3000 PSF (pounds per square foot) based on the geotechnical engineering investigation prepared by _____, Project No. _____, dated _____.
- Soil bearing capacity shall be field verified by an approved soil testing agency and documented in writing to the Engineer.
- If soil of design capacity is not encountered at footing elevations shown, excavate to a depth necessary to attain design capacity and extend foundations as required. Obtain Engineer's approval prior to lowering the foundations.
- The bottoms of all exterior footings shall extend a minimum of 3'-0" below finished grade unless noted otherwise.
- Excavate all foundations to reasonable exact outline and depth avoiding over-excavation and cave-in of surrounding material. Bottoms of all foundations shall be dry, soil proof-rolled, and rock surfaces leveled and cleared of loose debris prior to pouring.
- Neatly level and trim all foundation excavations prior to setting steel.
- Pipes extending under footings shall be placed before footing is placed and the void produced in laying the pipe shall be filled with 3000 psi concrete.
- Thoroughly compact and slab subgrade material prior to placement of stone bases or concrete.
- Provide weatherlight covering for all foundations after excavation; do not expose to rainwater or freezing.
- Where foundations are formed, backfill edges immediately after form removal.
- No fill or backfill shall be placed against retaining or foundation walls until grout or concrete has attained design strength and supporting members are in place, unless prior written approval is obtained from the Engineer.
- All backfill shall be granular material approved by the Engineer and deposited and machine compacted in 8-inch maximum layers. Compaction shall be a minimum of 95% of the maximum dry weight density at the optimum moisture content in accordance with ASTM D1557 (Modified Proctor) as verified by a testing laboratory.
- All backfill adjacent to retaining structures shall be compacted using hand operated equipment; no heavy equipment shall be allowed within 5 feet of any wall.
- For all foundation construction that will be exposed to freezing temperatures during construction, the bottom of all footings (interior and exterior) shall extend a minimum of 3'-0" below grade (not at additional cost to the owner). Contractor shall contact the Engineer's Record for approval to lower foundations and obtain concrete per owner's, if necessary.

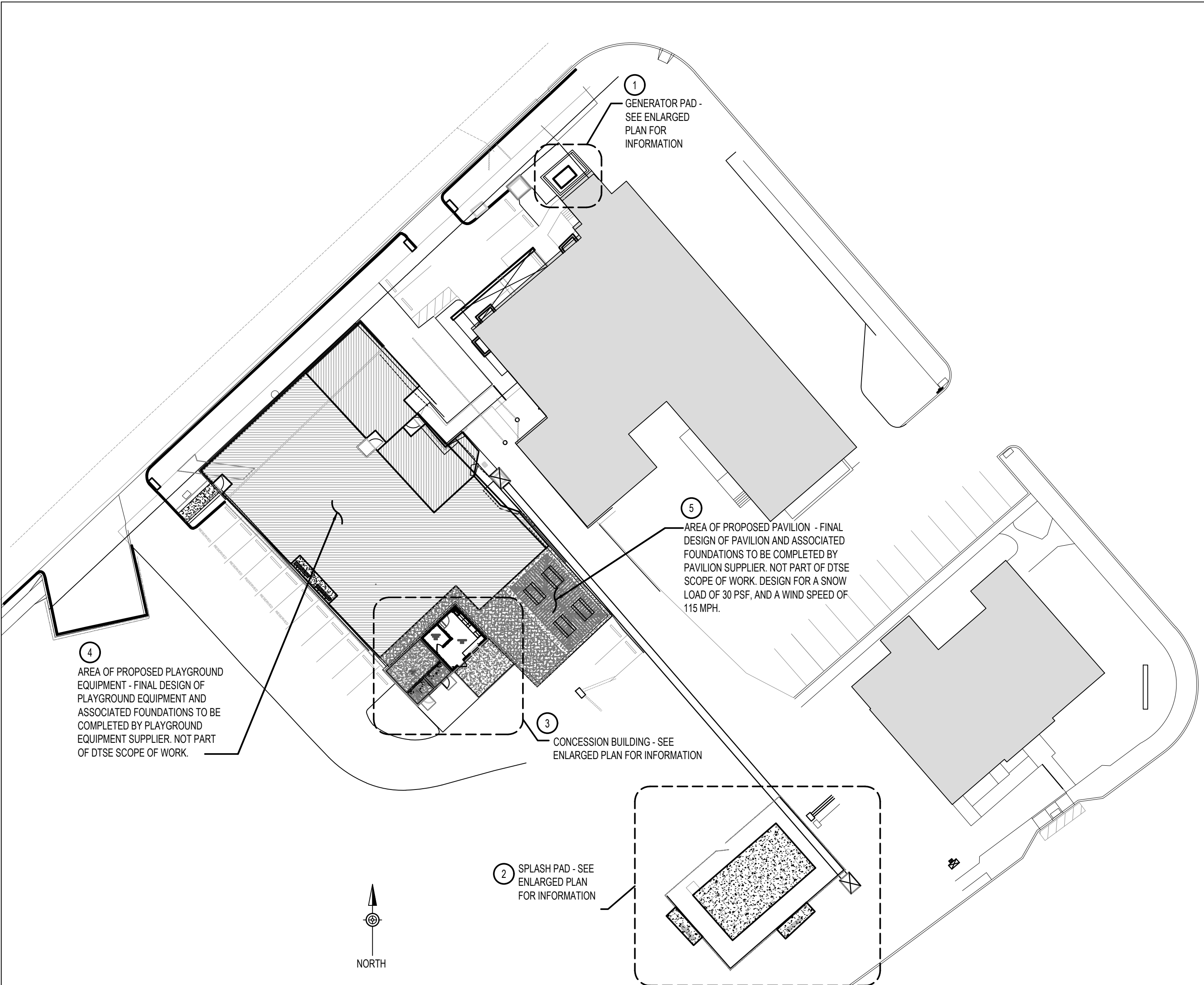
CAST-IN-PLACE CONCRETE CONSTRUCTION

TYPE OF CONSTRUCTION	MIN. 28-DAY COMP. STRENGTH	MAX. W/C RATIO	TYPE I PORTLAND CEMENT	SLUMP RANGE
(1) Footings, Interior Slabs-on-grade <= 4" thk., & Slabs-on-metal deck	3000 PSI	.53	5 BAGS	3'-8"
(2) Interior Slabs-on-grade < 4" thk.	4000 PSI	.45	6 BAGS	3'-8"
(3) Exterior slabs, walls, beams, columns, piers & grade beams	4500 PSI	.45	6 BAGS	3'-8"

- All concrete shall conform to the requirements of ACI 318, Building Code Requirements for Reinforced Concrete, latest edition and ACI 301, Specifications for Structural Concrete for Buildings, latest edition, including all revisions, except as modified herein.
- Concrete shall be supplied by a qualified ready-mixed concrete plant in accordance with the following requirements:
 - Entrained Air = 4 to 7% for (all exposed concrete, footings, piers, exterior slabs, and where otherwise noted).
 - All concrete exposed to freezing temperature shall be air-entrained, U.N.O.
 - Coarse aggregate shall be ASTM D 2151, No. 57 stone. Maximum aggregate size = 1.5".
 - Submit mix designs to Engineer for approval. No admixtures permitted without Engineer's approval.
 - Chloride containing admixtures are not permitted.
 - Fine aggregate must be natural sand, unless approved by the Engineer.
 - All entraining admixtures are not permitted on trowel finished slabs.
 - For Interior Slabs-on-grade <= 4" thick:
 - When specified as temperature and shrinkage reinforcement, micro synthetic fibers made from 100% virgin homopolymer polypropylene fibrillated fibers meeting ASTM C1116, Type III shall be added at a minimum rate of 1.5 lbs/cy.
 - Fibrous reinforcement shall be manufactured by Proplex, BASF, Grace, or approved equal.
 - For Interior Slabs-on-grade > 4" thick:
 - When specified as temperature and shrinkage reinforcement, cold-drawn steel fibers meeting ASTM A820 criteria shall be added at a minimum rate of 25 lb. / cu. yd. or Macro synthetic fibers made from virgin polyethylene shall have an equivalent diameter between 0.016 in. and 0.05 in. with a minimum aspect ratio (length / equivalent diameter) of 50, and added at a minimum rate of 4 lb. / cu. yd.
 - Fibrous reinforcement shall be manufactured by Proplex, BASF, Grace, or approved equal.
 - For Slabs-on-metal deck:
 - When specified as temperature and shrinkage reinforcement, cold-drawn steel fibers meeting ASTM A820 criteria shall be added at a minimum rate of 25 lb. / cu. yd. or Macro synthetic fibers made from virgin polyethylene shall have an equivalent diameter between 0.016 in. and 0.05 in. with a minimum aspect ratio (length / equivalent diameter) of 50, and added at a minimum rate of 4 lb. / cu. yd.
 - Fibrous reinforcement shall be manufactured by Proplex, BASF, Grace, or approved equal.
 - For Exterior Slabs <= 4" thick:
 - For Exterior Slabs <= 4" thick:
 - 6x6 W2.9 x W2.9 welded wire reinforcement, U.N.O.
 - At Contractor's option, fly ash, ground granulated blast furnace slag, or other pozzolans may be substituted for Portland cement, up to 25% of the cementitious content. Concrete mixes using these materials must be approved by the Engineer.
 - When concrete arrives at the project with slump below that suitable for placement, as indicated by the Specifications, water may be added only if neither the maximum permissible water-cement ratio nor the maximum slump is exceeded. The water shall be incorporated by additional mixing equal to at least half of the total mixing required. Discharge of the concrete shall be completed within 1-1/2 hours or before the truck drum has revolved 300 revolutions, whichever comes first, after the introduction of the mixing water to the cement and aggregates or the introduction of the cement to the aggregates. Truck batch slips must include time of batching, total drum revolutions upon arrival at site, and quantity of water (in gallons) per cubic yard available to be added to attain the maximum design water-cement ratio.
 - Reinforcing steel shall be deformed, billet-steel conforming to ASTM A615 - Grade 60. Welding of reinforcing steel must be approved by the Engineer and shall be performed in accordance with the requirements of the AWS Code, D1.4, Structural Welding Code - Reinforcing Steel latest edition and be performed only by qualified welders.
 - When specified, welded wire fabric shall conform to ASTM A185 and supplied in flat sheets only. Bar chairs are required at the recommended spacing for structural slabs.
 - Reinforcing steel splices shall be as per ACI Class B splices unless indicated otherwise.
 - Provide adequate bolsters, h-brackets specified clearance for the entire length of all reinforcing bars. Provide accessories which are plastic tipped or galvanized with turned-up ends for reinforcement at all faces of exposed concrete, interior or exterior.
 - Shop drawings for the fabrication and placement of reinforcing steel shall be submitted to and approved by the Engineer before fabrication commences.
 - Concrete shall be placed only after approval of the reinforcement and mix design by the acting special inspection agency or the Engineer. Contractor is responsible for coordinating inspections prior to concrete placement.
 - Schedule the pouring of foundations on the same day the excavation is completed.
 - Cure all concrete in accordance with accepted ACI Standards and conform to ACI 308.1, Standard Specification for Curing Concrete, latest edition, for the worst case weather conditions anticipated during the curing period. All concrete construction and procedures shall conform to the requirements of ACI 306.1, Standard Specification for Cold Weather Concrete, latest edition.
 - No aluminum of any type shall be allowed in the concrete work unless coated to prevent aluminum-concrete reaction.
 - Mechanically vibrate concrete. Slabs-on-grade need only be vibrated around door ducts and other embedded items.
 - Do not place pipes, ducts, registers or chases in structural concrete or composite floor systems without approval of the structural engineer.
 - Maximum free drop of any concrete = 5'-0".
 - Chamber all exposed concrete edges a minimum of 3/4" x 3/4".
 - Provide a minimum of concrete cover for reinforcing bars as follows unless noted otherwise on drawings:
 - Footings = 3 inches earth face, 2 inches all others, U.N.O.
 - Concrete walls, beams, and piers = 2 inches earth face, 1-1/2 inches all others, U.N.O.
 - See (b) test cylinders shall be prepared for every 500 cubic yards of concrete placed on any given day to represent all concrete placed on that day. Two (2) cylinders shall be tested at seven (7) days and two (2) cylinders shall be tested at 28 days for verification of concrete design strength with two (2) cylinders remaining.
 - Concrete Finishes, as defined in Chapter 5 of ACI 301, shall be as follows, U.N.O.:
 - Formed surfaces not exposed to public view: Rough-form finish
 - Formed surfaces exposed to public view: Smooth-form finish
 - Walls as indicated: Rubbed finish
 - Typical interior commercial/industrial floor: Troweled finish
 - Floors to receive ceramic tile, portland cement, terrazzo, etc.: Scratch finish
 - Exterior slabs on grade, walkways, etc.: Non-slip broom finish
 - Provide vertical control joints in concrete walls at a maximum 30'-0" O.C. spacing. Submit a control joint location plan to the Engineer for approval prior to construction. Control joints shall not be placed in concrete shear walls.
 - Concrete submittals required to be reviewed and approved by the Engineer prior to cast-in-place concrete construction include, but are not limited to: Mix designs, Reinforcement Shop Drawings, Control Joint Plans for Walls, and Control Joint Plans for Slabs.
 - Slabs on Grade:
 - Slabs on grade shall be placed in accordance with the requirements of ACI 302.1R.
 - Slab finishing operations shall meet ACI Class 5 floor requirements in accordance with Chapter 8 of ACI 302.
 - Floors receiving a surface hardener must be finished to ACI Class 6 floor requirements.
 - A minimum floor flatness/levelness tolerance meeting ACI FF 35I FL 25 requirements shall be achieved through placing and finishing the slab per the guidelines set forth in Table 8.15.3.a of ACI 302.1R.
 - Curing of slabs shall begin as soon as finishing operations are complete by either water curing, wet covering, or liquid membrane-forming curing compound in accordance with Chapter 8 of ACI 302.1R for a period of seven (7) days.
 - Sawcut control joints must be completed within 1 to 4 hours of finishing and to a minimum depth of 1/3 the slab thickness (14 for slabs with welded wire fabric). Provide joints at a maximum 15'-0" O.C. spacing. Submit a sawcut joint location plan to the Engineer for approval.
 - Slab joint sealant shall be a two-component, epoxy resin with a minimum shore A hardness of 80 in accordance with ASTM D 2240.
 - Do not allow construction equipment on newly placed slabs for a minimum of seven (7) days.
 - When strip pouring, allow seven (7) days before placing adjacent slab sections.
 - A slab on grade pre-construction conference involving the Owner, Contractor and Engineer is recommended to review installation procedures and requirements.

CONCRETE MASONRY CONSTRUCTION

- All concrete masonry shall conform to the requirements of ASTM C90 (Grade N 1) unless noted otherwise. Concrete masonry construction shall conform to the requirements of ACI 530/ASCE 5/TMS 402, building code requirements for Masonry Structures, latest edition and ACI 530.1/ASCE 6/TMS 602, Specifications for Masonry Structures, latest edition, including all supplements.
- 28 day design compressive strength of masonry (Fm) used is as follows:
 - Standard Masonry = 2,000 psi
 - Heavy = 2,800 psi
- The Contractor shall be responsible for the temporary bracing of all masonry construction. Bracing shall remain in place until masonry has had sufficient time to gain design strength. Where masonry attaches to floor and/or roof systems, bracing shall remain in place until the diaphragm has been anchored in its final position.
- Grout fills for reinforced masonry walls shall not exceed 5 feet in height.
- All mortar shall conform to ASTM C270. Mortar shall be Type S (21/19 mix ratio of cement/fine sand) with an average 28 day compressive strength of 1800 psi for above grade walls (except Ivory Block). Mortar shall be Type M (4/21/2 mix) with an average 28 day compressive strength of 2500 psi for plan walls, walls below grade, or walls exposed to earth.
- Grout shall conform to the requirements of ASTM C476. Fill grouted cores, bond beams, and wall reinforcement where shown on plans with 3000 psi small aggregate concrete mix with 8"-11" slump. Grout samples shall be tested per the Cast-in-place Concrete Construction specifications.
- All steel lintels shall be temporarily shored where a height of masonry greater than half the span of the lintel will be placed above the lintel prior to masonry gaining design strength. Shoring shall remain in place until masonry has gained design strength and all required permanent bracing is installed.
- All steel lintels for exterior masonry shall be galvanized. Lintel sizes, unless indicated otherwise on the drawings, shall be as follows:
 - Clear opening of 3'-4" or less = (1) 5 x 3-1/2 x 5/16 angle (L.L.V.) per 4" of masonry wall thickness with 8" min. end bearing on 16" thick of solid or grouted masonry.
 - Clear opening of 6'-4" or less = (1) 6 x 4 x 3/8 angle (L.L.V.) per 4" of masonry wall thickness with 8" min. end bearing on 16" thick of solid or grouted masonry.
- Provide vertical control joints in above grade masonry walls so that the distance between joints does not exceed the lesser of 1 1/2 times the overall wall height, or 25 feet. Control joints shall not be placed greater than 8" from a bearing plate or jamb of an opening. A control joint shall be placed at one side of an opening less than 6'-0" wide and at both sides of openings over 6'-0" wide. Provide vertical control joints at intersections of reinforced & unreinforced walls, U.N.O. Submit a shop drawing showing control joint locations to the Engineer for approval prior to construction. Coordinate exact control joint & expansion joint locations with architectural drawings.
- Horizontal joint reinforcement shall consist of three type ASTM A82 cold drawn No. 9 gauge galvanized wire steel, located 16" o.c. Cross rods to be welded to side rods at 16" o.c. to form a truss. Lap splices 8" minimum. Provide horizontal reinforcing in the two courses above and below openings; and at the top of walls or partitions.
- Masonry cores below grade shall be grouted solid.
- Head joints shall be mortared solid the full depth of the face shell. Webs shall be fully mortared at grouted cores.
- A minimum of one course of masonry shall be grouted solid below transitions in masonry thickness.
- Cold Weather Masonry Construction shall conform to the requirements of ACI 530.1/ASCE 6/TMS602, latest edition.
- Masonry stair shafts and elevator shafts shall be grouted solid, unless noted otherwise.
- Reinforcing steel shall be deformed, billet-steel conforming to ASTM A615 - Grade 60. Welding of reinforcing steel must be approved by the Engineer and shall be performed in accordance with the requirements of the AWS Code, D1.4, Structural Welding Code - Reinforcing Steel latest edition and be performed only by qualified welders. Shop drawings for the fabrication and placement of reinforcing steel shall be submitted to and approved by the Engineer before fabrication commences.
- Submittals required to be reviewed and approved by the Engineer prior to concrete masonry construction include, but are not limited to: Mix designs, Reinforcement Shop Drawings, Vertical Control Joint Location Plans.
- Mortar shall be sampled and tested according to ASTM C 270, C 780, and C 1586.



PROJECT KEY PLAN

NTS

CONCRETE REINF. SPLICE LENGTH SCHEDULE				
REINF. SIZE	4000 PSI		3000 PSI	
	TOP HORIZ. BARS (IN.)	VERTICAL (IN.) OR BOTTOM HORIZ.	TOP HORIZ. BARS (IN.)	VERTICAL (IN.) OR BOTTOM HORIZ.
#3	15	12	17	13
#4	20	15	23	18
#5	25	19	28	22
#6	29	23	34	26
#7	43	33	49	38
#8	49	37	56	43

NOTES:

- TOP HORIZONTAL BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT. BOTTOM HORIZONTAL BARS ARE ALL OTHER HORIZONTAL BARS.
 - FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE VALUES ABOVE BY 1.3.
 - PERIODIC INSPECTION OF CONCRETE WITH COVER LESS THAN 3/4" OR CL. OR COATING LESS THAN 60, MULTIPLY VALUES ABOVE BY 1.5. FOR ALL OTHER EPOXY COATED REINFORCEMENT, MULTIPLY VALUES ABOVE BY 1.3.
 - ALL SPLICES ASSUMED TO BE CLASS B SPLICES.
 - WHEN SPLICES ARE OF DIFFERENT SIZES USE SPLICE LENGTH FOR LARGEST BAR.
 - MINIMUM HOOK LENGTH EQUALS 16db FOR NO. 3-8 BARS.
 - SPLICE LENGTHS GIVEN ARE MINIMUM, U.N.O.
-
-

GENERAL LEGEND

- REINFORCED MASONRY WALL
- METAL STUD WALL IN SECTION
- CAST-IN-PLACE CONCRETE
- "TEXT" - PROPOSED CONDITIONS
- "Text" - EXISTING CONDITIONS
- ROOF MOUNTED MECHANICAL UNITS
- SECTION DESIGNATION
- SHEET NUMBER
- ELEVATION DESIGNATION
- PLAN DETAIL DESIGNATION
- SHEET NUMBER
- MOMENT CONNECTION

MASONRY REINFORCING SPLICE LENGTH SCHEDULE	
REINF. SIZE	VERT. OR HORIZ. (IN.)
#3	27
#4	36
#5	45
#6	54
#7	63

NOTES:

- WHEN SPLICING BARS OF DIFFERENT SIZES USE SPLICE LENGTH FOR LARGEST BAR.
- MINIMUM HOOK LENGTH EQUALS 16db FOR NO. 3-7 BARS.
- SPLICE LENGTHS GIVEN ARE MINIMUM, U.N.O.

WALL FOOTING SCHEDULE	
MK.	SIZE
WF2.0	2'-0" WIDE x 1'-0" THK.
	(3) #5 CONTINUOUS w/ #3 TRANSVERSE @ 48" O.C.

LEGEND OF ACRONYMS & ABBREVIATIONS

- | | | | |
|-----------|----------------------------------|--------|--|
| & | - USE FOR "AND" WHEN APPROPRIATE | H.M. | - HOLLOW METAL |
| @ | - USE FOR "AT" WHEN APPROPRIATE | HORIZ. | - HORIZONTAL |
| A.C.T. | - ACOUSTICAL CEILING TILE | HVAC | - HEATING/VENTILATION/AIR CONDITIONING |
| ADD. | - ADDITIONAL | I.F. | - INSIDE FACE |
| A.F.F. | - ABOVE FINISHED FLOOR | INSUL. | - INSULATION |
| ALUM. | - ALUMINUM | INT. | - INTERIOR |
| ARCH. | - ARCHITECTURAL | L | - LENGTH |
| BL | - BUILDING LINE | LL.H | - LONG LEG HORIZONTAL |
| BLDG. | - BUILDING | LL.V | - LONG LEG VERTICAL |
| BLOCK | - BLOCK | MAX. | - MAXIMUM |
| B.O.F. | - BOTTOM OF FOOTING | MET. | - METAL |
| BRG. | - BEARING | MFR. | - MANUFACTURER |
| BTWN. | - BETWEEN | MIN. | - MINIMUM |
| C. | - CARPET | MISC. | - MISCELLANEOUS |
| C.I.P. | - CAST-IN-PLACE | N.I.C. | - NOT IN CONTRACT |
| CL | - CENTERLINE | NO. | - NUMBER |
| CLG. | - CEILING | O.C. | - ON CENTER |
| CLR. | - CLEAR | O.F. | - OUTSIDE FACE |
| COL. | - CONCRETE MASONRY UNIT | PenDOT | - PENNSYLVANIA DEPT. OF TRANSPORTATION |
| CUM. | - COLUMN | PL. | - PLATE |
| CONC. | - CONCRETE | PLF | - POUNDS PER LINEAL FOOT |
| CONT. | - CONTINUOUS | PNT. | - PAINT |
| D. OR DP. | - DEEP | PWD. | - POUNDS PER SQUARE FOOT |
| d | - BAR DIAMETER | PSF | - POUNDS PER SQUARE INCH |
| dia | - DIAMETER (USE Ø WHEN POSSIBLE) | PSSI | - POUNDS PER SQUARE FOOT |
| DIM. | - DIMENSION | RAD. | - RADIUS |
| DN. | - DOWN | REQ. | - REQUIRED |
| DWG. | - DRAWING | SEAL. | - SEALER |
| EA. | - EACH | RET. | - RETURN |
| E.F. | - EACH FACE | SC | - SLIP CRITICAL |
| ENG. | - ENGINEER/ENGINEERING | SECT. | - SECTION |
| ELEC. | - ELECTRICAL/ELECTRICAL | SM | - SIMILAR |
| ELEV. | - ELEVATION | SUR. | - SEALER |
| EQ. | - EQUAL | S.S. | - SPACE |
| EQUIP. | - EQUIPMENT | S.S. | - STAINLESS STEEL |
| EW. | - EACH WAY | STL. | - STEEL |
| EX. | - EXISTING | T & B | - TOP & BOTTOM |
| EXT. | - EXTERIOR | THK. | - THICK |
| F.E. | - FIRE EXTINGUISHER | T.O.F. | - TOP OF FOOTING |
| F.E.C. | - FIRE EXTINGUISHER WITH CABINET | T.O.S. | - TOP OF STEEL |
| F.F. | - FINISHED FLOOR | T.O.W. | - TOP OF WALL |
| F.G. | - FINISHED GRADE | TYP. | - TYPICAL |
| FIB. | - FIBERGLASS | U.N.O. | - UNLESS NOTED OTHERWISE |
| FIN. | - FINISH (ED) | V | - VINYL |
| FLR. | - FLOOR | VAR | - VARIES |
| FTG. | - FOOTING | V.C.T. | - VINYL COMPOSITION TILE |
| GA. | - GAGE OR GAUGE | VERT. | - VERTICAL |
| GALV. | - GALVANIZED | W. | - WIDTH |
| GYP. | - GYPSUM | WI. | - WITH |
| GROW. | - GYPSUM DRYWALL | WD. | - WOOD |
| HGT. | - HEIGHT | W.W.R. | - WELDED WIRE REINFORCING |

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READING HOUSING AUTHORITY

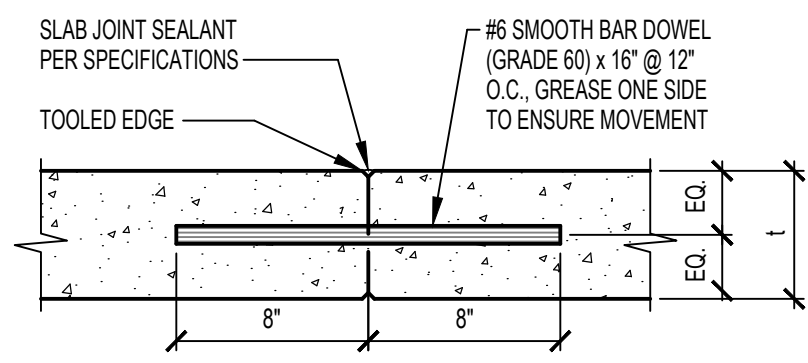
PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
1001 SCOTT STREET
READING, PA 19611

SHEET TITLE GENERAL NOTES, LEGENDS, AND KEY PLAN

ISSUE DATE 2026.09.01 SCALE AS NOTED

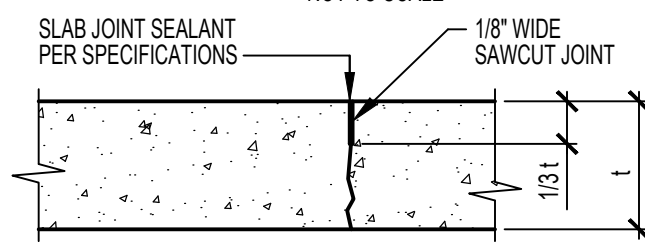
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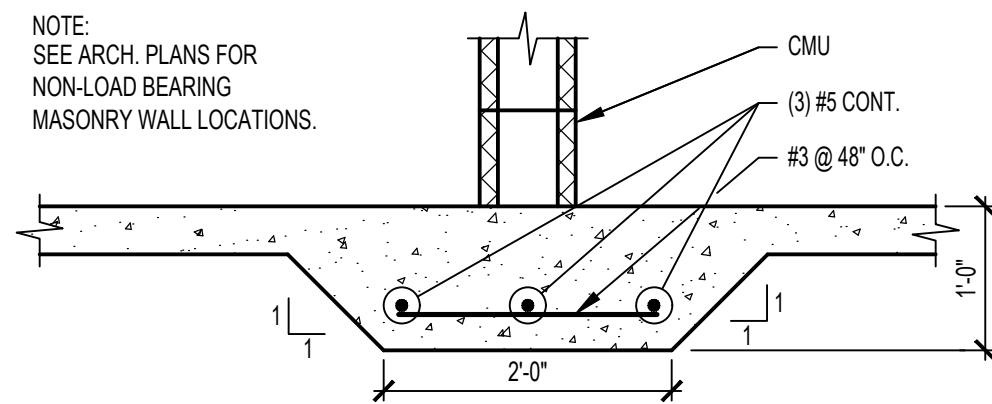
NOTES:
1. DOWELS SHOULD BE PLAIN ROUND ASTM A615 GRADE 60.
2. PLACE DOWELS LEVEL AND PARALLEL TO DIRECTION OF SLAB MOVEMENT. PROVIDE SUPPORT FOR DOWELS DURING CONSTRUCTION.

DOWELED CONSTRUCTION JOINT

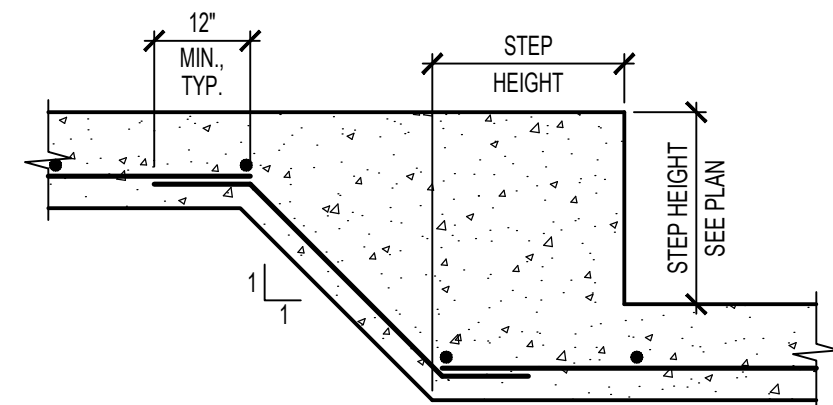


NOTE:
FOR SLABS WITH W.W.R., SAWCUT CONTROL JOINT SHALL BE 1/4 IN. DEEP.

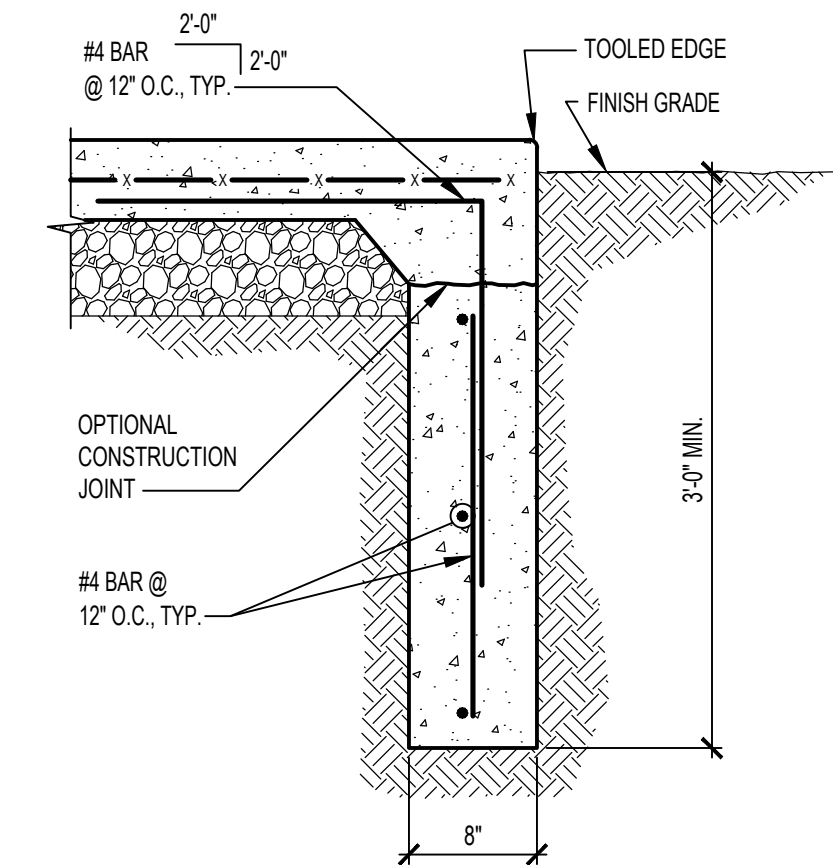
SAWCUT CONTROL JOINT



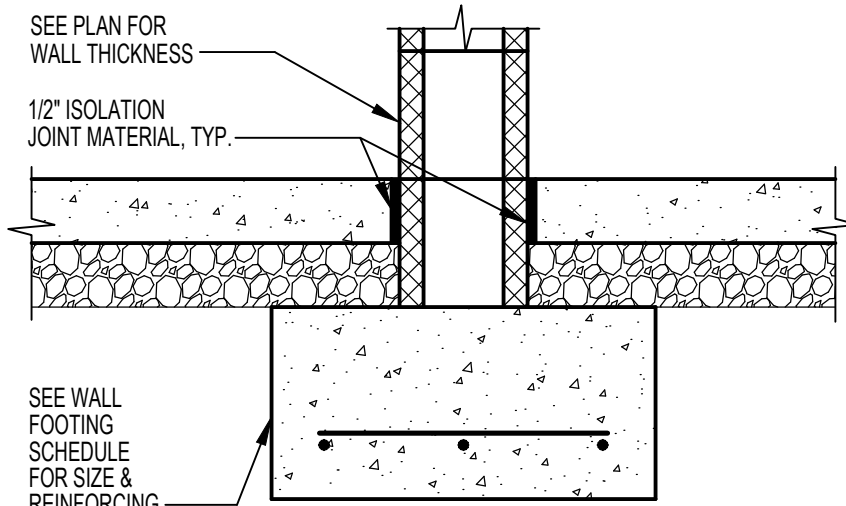
THICKENED SLAB AT NON-LOAD BEARING INTERIOR MASONRY WALL



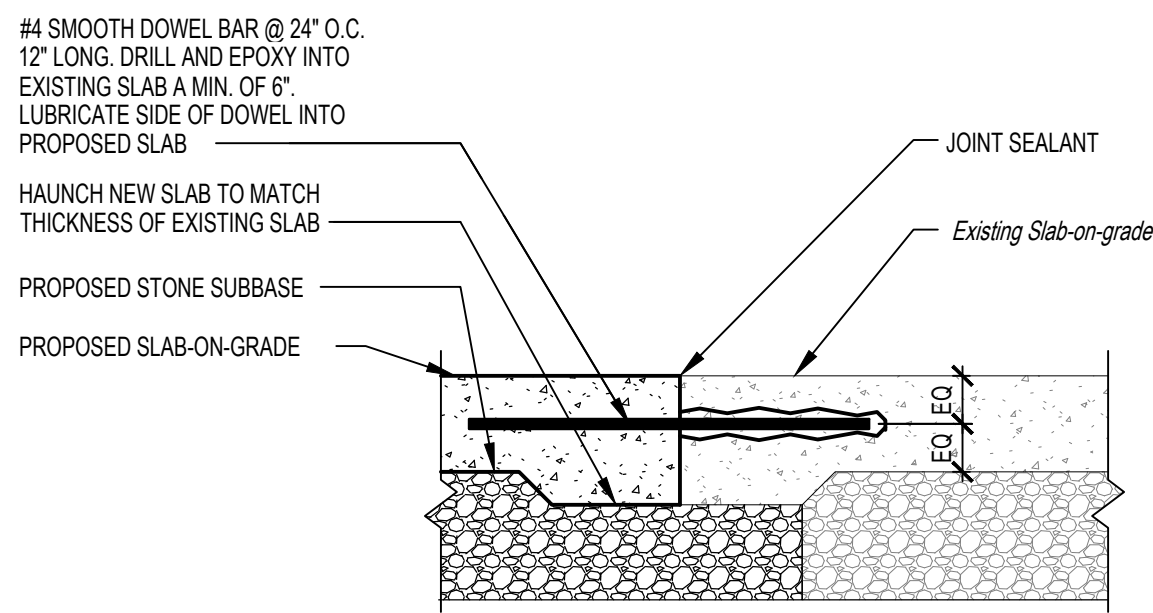
STEP FOOTING



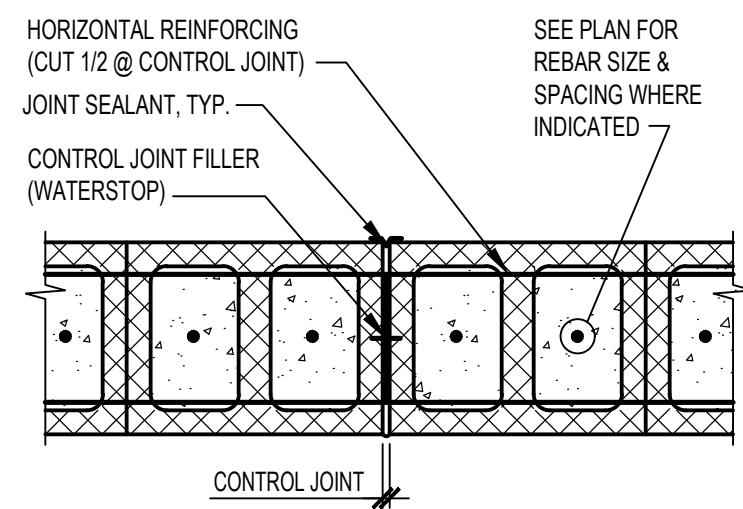
SLAB TURNDOWN



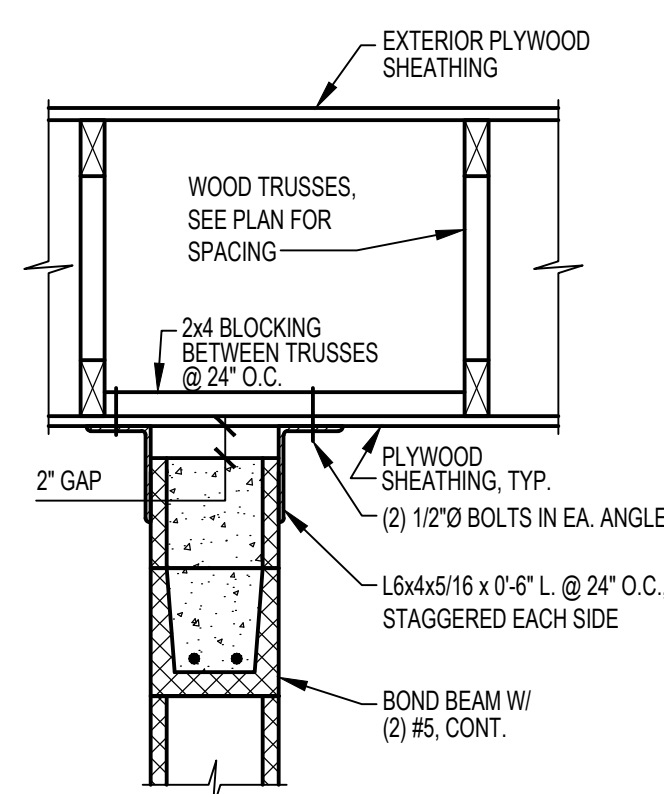
TYPICAL INTERIOR WALL FOOTING



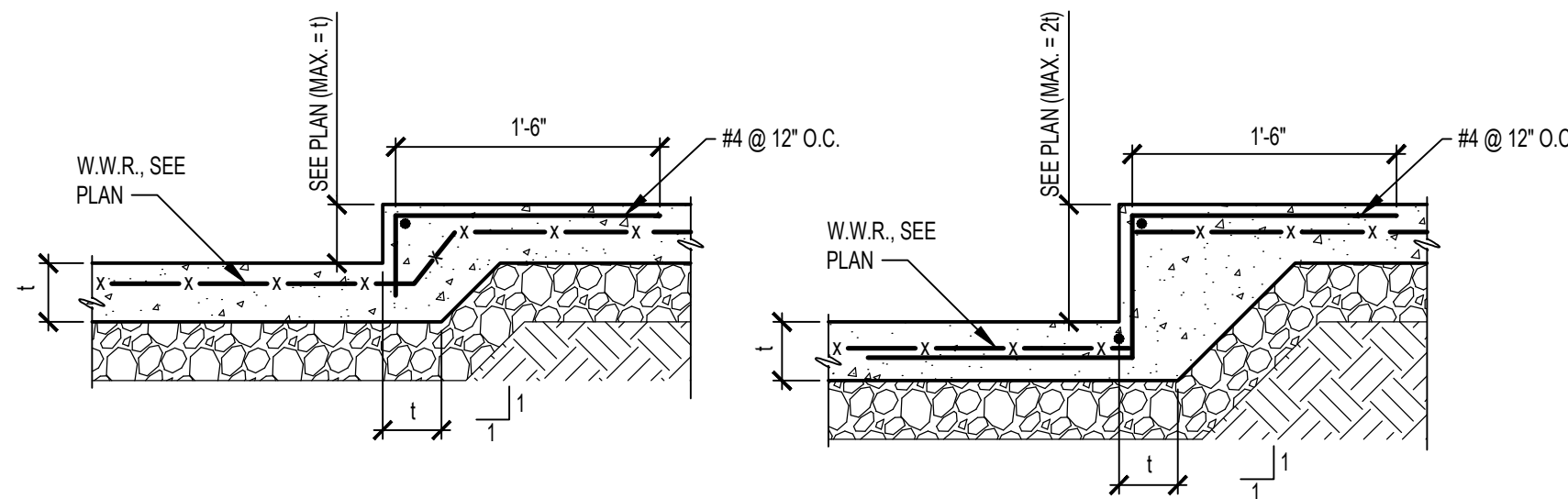
NEW TO EXISTING SLAB JOINT DETAIL



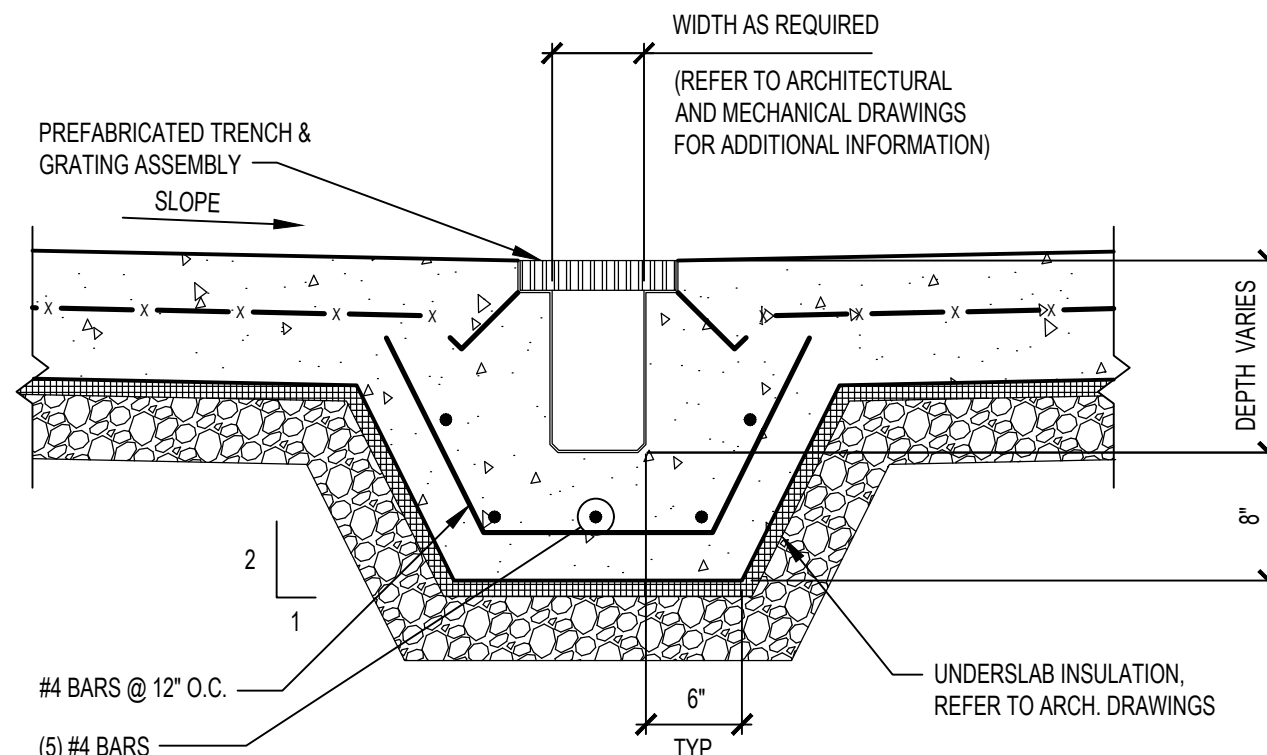
MASONRY WALL CONTROL JOINT



TOP OF NON-LOAD BEARING INTERIOR CMU WALL

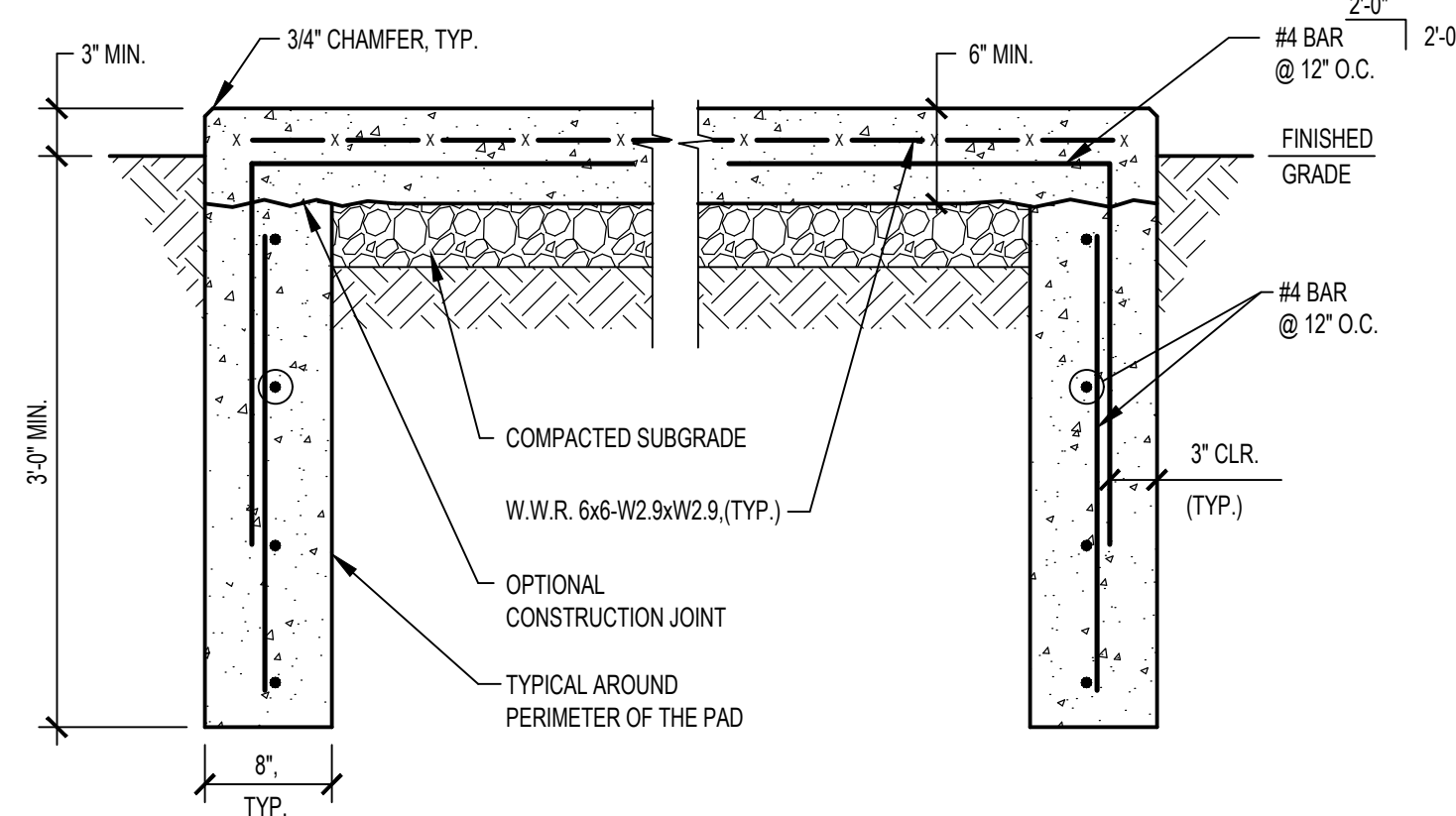


TYPICAL DEPRESSED SLAB DETAILS



NOTE:
REFER TO MEP DRAWINGS FOR DRAIN / OUTLET REQUIREMENTS.

TYPICAL TRENCH DRAIN DETAIL



NOTES:
1. PROVIDE CONCRETE EQUIPMENT PADS WHERE INDICATED ON CIVIL, ARCH, OR MEP DRAWINGS.
2. SEE CIVIL, ARCH, OR MEP DRAWINGS FOR EXACT SIZE OF CONCRETE PADS.

EXTERIOR CONCRETE EQUIPMENT PAD

ALL DIMENSIONS, MEASUREMENTS AND PROJECT CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR. REFER ALL DIFFERENCES, IN WRITING, TO THE ARCHITECT FOR CONSIDERATION PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BEAR THE COST OF RECTIFYING WORK NOT APPROVED BY THE ARCHITECT, CAUSED BY LACK OF COORDINATION AND/OR NOTIFICATION.

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READING
HOUSING AUTHORITY

PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
1001 SCOTT STREET
READING, PA 19611

SHEET TITLE TYPICAL SECTIONS AND DETAILS

ISSUE DATE 2026.09.01

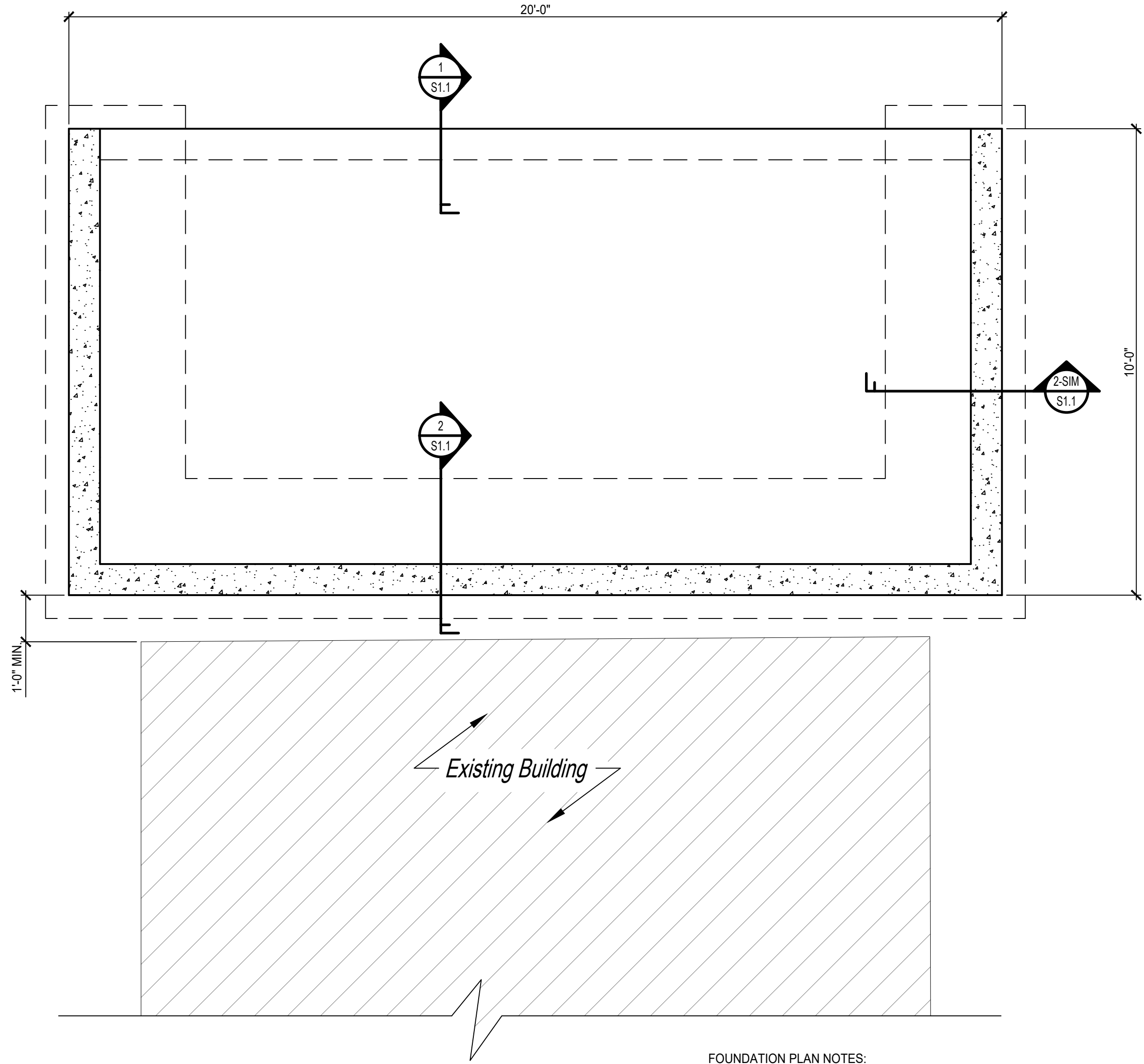
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FILE NUMBER 2532

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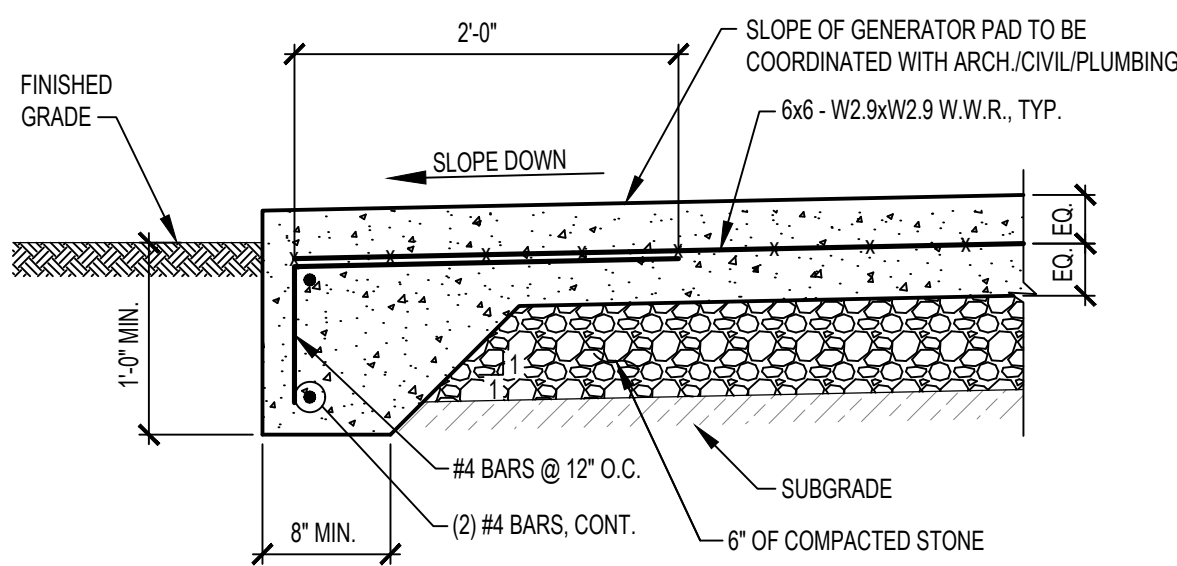
S0.2



- FOUNDATION PLAN NOTES:
- COORDINATE FINISHED SLAB ELEVATION WITH SITE PLAN.
 - ALL ELEVATIONS NOTED THUS (-X'-X") DESIGNATE TOP OF FOOTING OR PIER ELEVATIONS AND ARE WITH RESPECT TO THE FINISHED FIRST FLOOR ELEVATION.
 - ALL EXTERIOR CONCRETE SLABS SHALL BE 6" THK. AIR ENTRAINED CONCRETE W/6x6 W2.9xW2.9 W.W.R. ON 8" PPH/DOT 2A COMPACTED STONE, U.N.O. ALL EXTERIOR SLABS SHALL BE TURNED DOWN AROUND PERIMETER AND EXTEND TO (-3'-0") BELOW FINISHED GRADE. SEE SLAB TURNDOWN DETAIL.
 - SEE ARCHITECTURAL DRAWINGS FOR ALL NECESSARY EMBEDDED ITEMS, RAMPS, STAIRS, LANDINGS, AND FINISH DETAILS.
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.
 - CONTRACTOR SHALL VERIFY WALL LOCATIONS WITH ARCHITECTURAL PLANS. PRIOR TO FOUNDATION LAYOUT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEER.

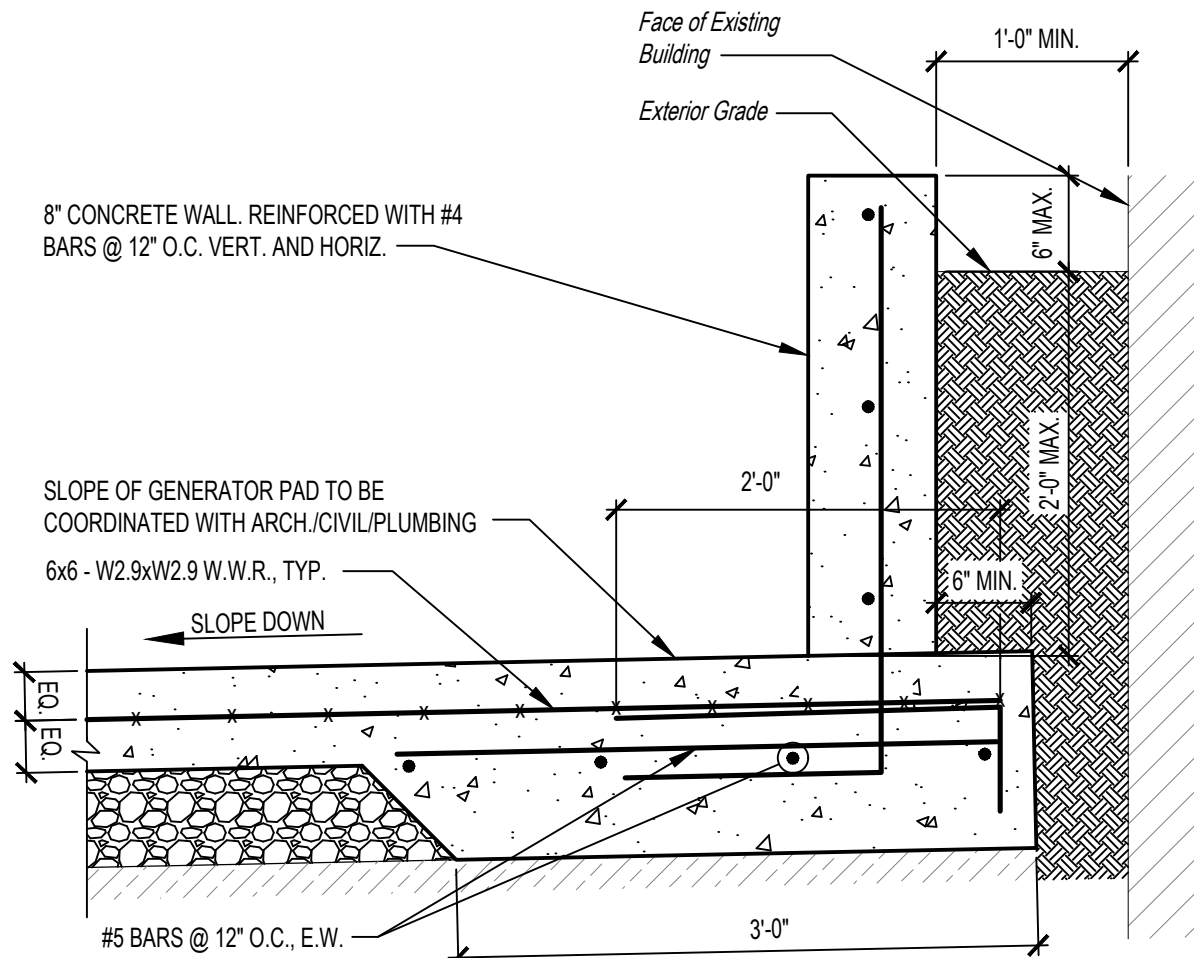
GENERATOR PAD AND RETAINING
WALL FOUNDATION PLAN

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



SECTION 1

SCALE: 1"=1'-0"



NOTE:
SECTION 2-SM/S1.1 IS SAME EXCEPT GRADE
VARIES AND TOP OF WALL SLOPES.

SECTION 2

SCALE: 1"=1'-0"

ALL DIMENSIONS, MEASUREMENTS AND
PROJECT CONDITIONS SHALL BE CHECKED
AND VERIFIED IN THE FIELD BY THE
CONTRACTOR. REFER ALL DIFFERENCES,
IN WRITING, TO THE ARCHITECT FOR
CONSIDERATION PRIOR TO PROCEEDING
WITH THE WORK. THE CONTRACTOR
SHALL BEAR THE COST OF RECTIFYING
WORK NOT APPROVED BY THE ARCHITECT,
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1001 SCOTT STREET
READING, PA 19611

SHEET TITLE GENERATOR PAD & RETAINING WALL FOUNDATION PLAN

ISSUE DATE 2026.09.01

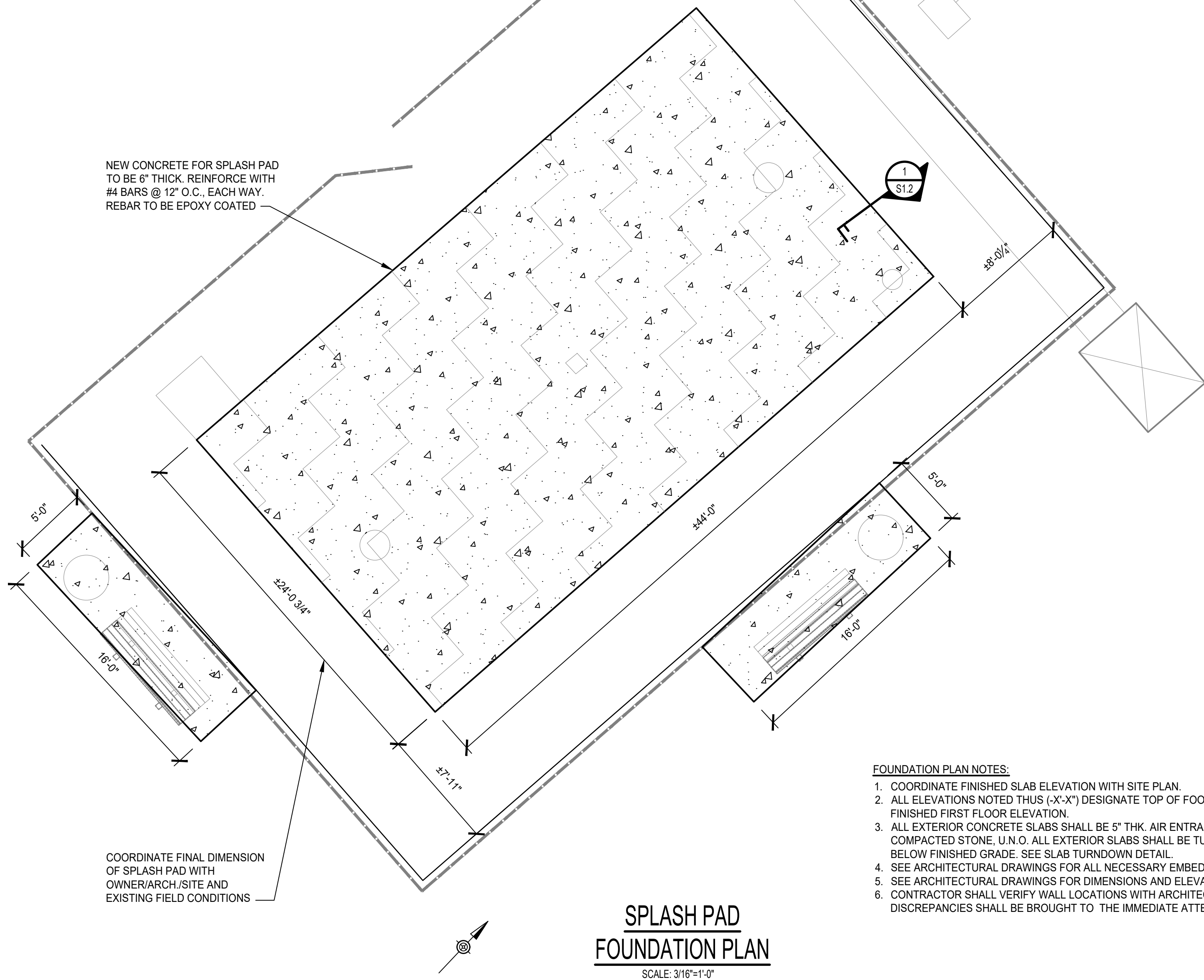
SCALE AS NOTED

FILE NUMBER 2532

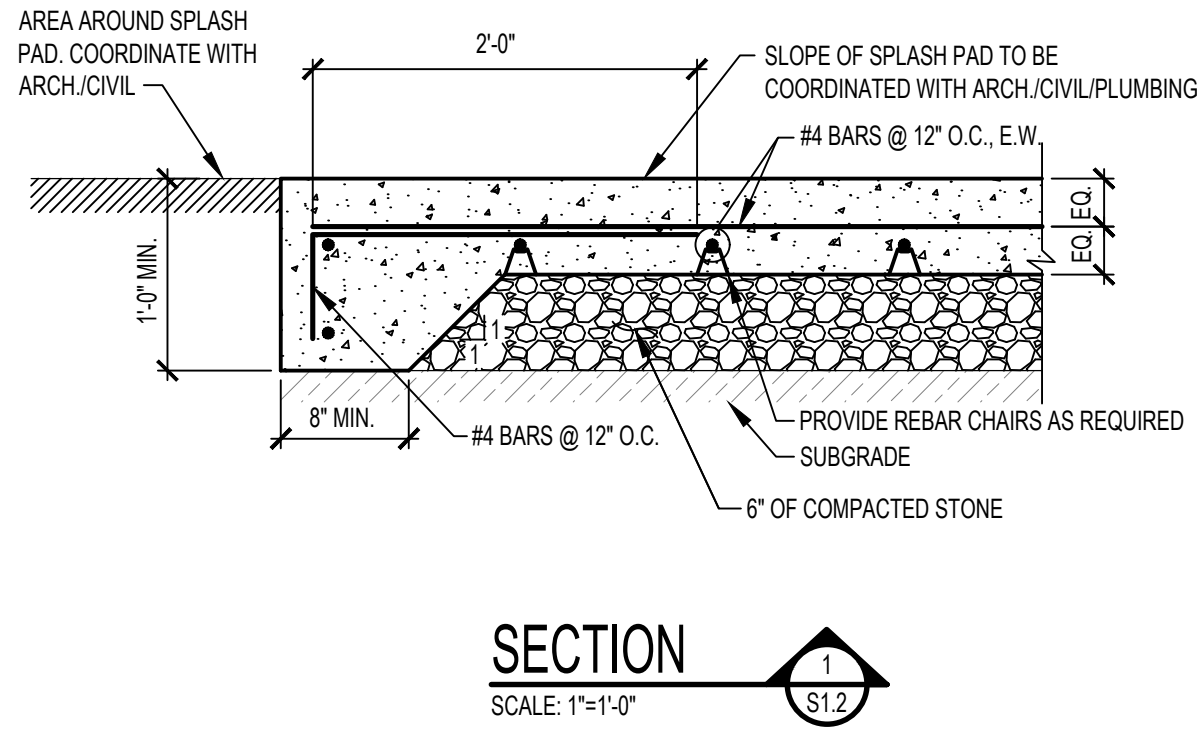
DRAWN BY JEM

CHECKED BY EDL

S1.1



- FOUNDATION PLAN NOTES:**
- COORDINATE FINISHED SLAB ELEVATION WITH SITE PLAN.
 - ALL ELEVATIONS NOTED THUS ("X'-X") DESIGNATE TOP OF FOOTING OR PIER ELEVATIONS AND ARE WITH RESPECT TO THE FINISHED FIRST FLOOR ELEVATION.
 - ALL EXTERIOR CONCRETE SLABS SHALL BE 5" THK. AIR ENTRAINED CONCRETE W/6x6 W2.9xW2.9 W.W.R. ON 6" PennDOT 2A COMPACTED STONE, U.N.O. ALL EXTERIOR SLABS SHALL BE TURNED DOWN AROUND PERIMETER AND EXTEND TO (-3'-0") BELOW FINISHED GRADE. SEE SLAB TURNDOWN DETAIL.
 - SEE ARCHITECTURAL DRAWINGS FOR ALL NECESSARY EMBEDDED ITEMS, RAMPS, STAIRS, LANDINGS, AND FINISH DETAILS.
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.
 - CONTRACTOR SHALL VERIFY WALL LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO FOUNDATION LAYOUT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEER.



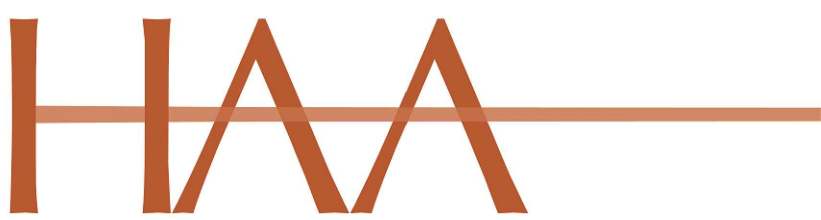
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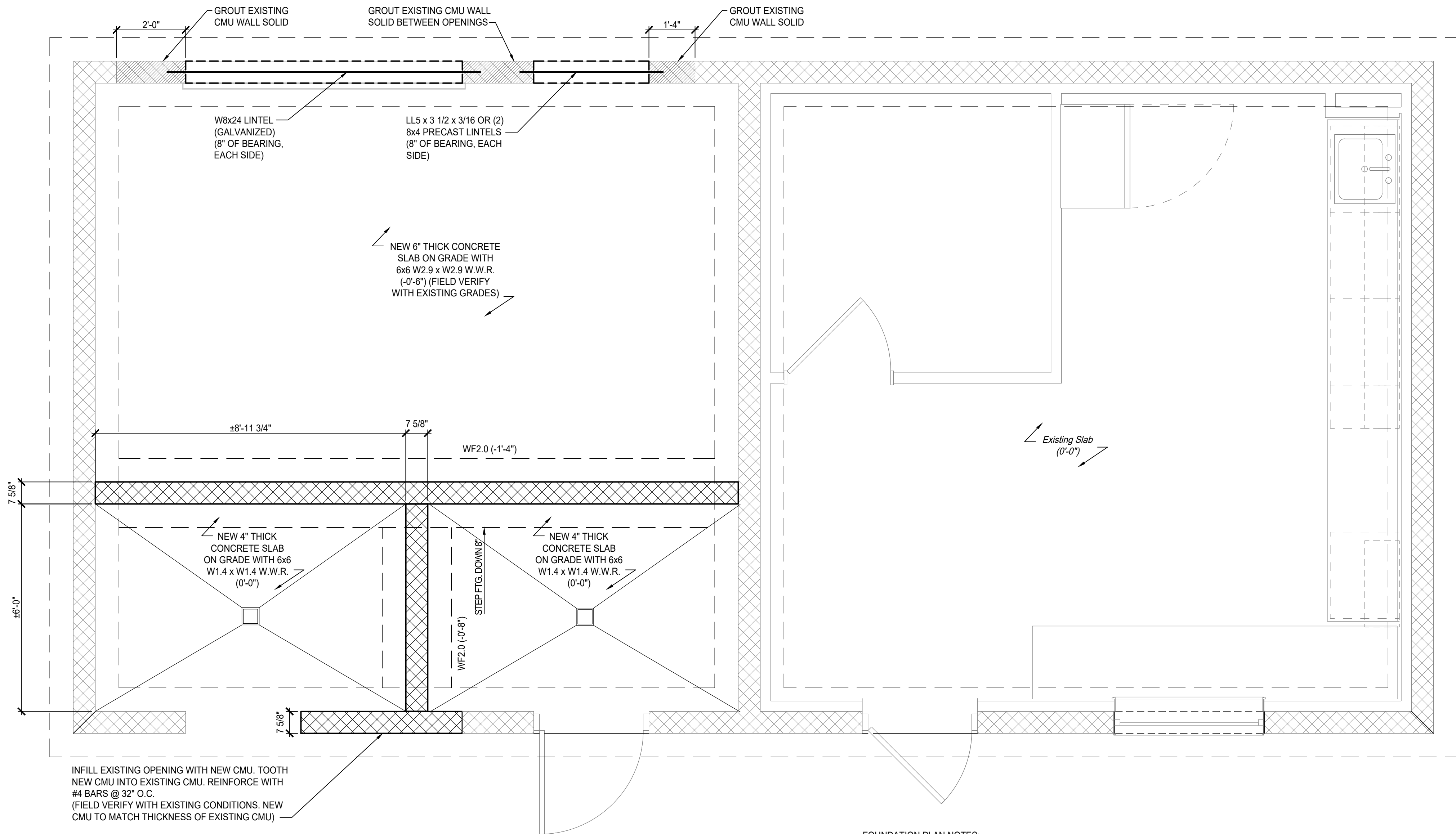
READING
HOUSING AUTHORITY

PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS
1001 SCOTT STREET
READING, PA 19611

SHEET TITLE SPLASH PAD FOUNDATION PLAN

ISSUE DATE	2026.09.01	SCALE	AS NOTED
FILE NUMBER	2532	DRAWN BY	JEM
		CHECKED BY	EDL

S1.2



- FOUNDATION PLAN NOTES:
1. FINISHED FIRST FLOOR ELEVATION IS 100.00 (0'-0") (ASSUMED), U.N.O.
 2. ALL ELEVATIONS NOTED THUS (-X'-X") DESIGNATE TOP OF FOOTING OR PIER ELEVATIONS AND ARE WITH RESPECT TO THE FINISHED FIRST FLOOR ELEVATION.
 3. ALL WALL FOOTINGS SHALL BE WF2.0, U.N.O. ALL INTERIOR NON-LOAD BEARING MASONRY WALLS MAY BEAR ON THICKENED SLAB, U.N.O.
 4. ALL COLUMNS TO CENTER ON FOOTINGS AND PIERS, U.N.O. ALL WALLS TO CENTER ON WALL FOUNDATIONS, U.N.O.
 5. ALL INTERIOR FLOOR SLABS SHALL BE 4" THK. CONCRETE SLAB WITH W.W.R. 6x6 - W1.4 x W1.4 REINFORCEMENT ON 4" OF PennDOT 2A COMPACTED STONE, U.N.O. PROVIDE SAWCUT CONTROL JOINTS AS INDICATED IN THE CAST-IN-PLACE CONCRETE CONSTRUCTION SECTION OF THE GENERAL SPECIFICATIONS. SUBMIT A CONTROL JOINT LOCATION PLAN TO THE ENGINEER FOR REVIEW & APPROVAL.
 6. ALL EXTERIOR CONCRETE SLABS SHALL BE 5" THK. AIR ENTRAINED CONCRETE W6x6 W2.9xW2.9 W.W.R. ON 6" PennDOT 2A COMPACTED STONE, U.N.O. ALL EXTERIOR SLABS SHALL BE TURNED DOWN AROUND PERIMETER AND EXTEND TO (-3'-0") BELOW FINISHED GRADE. SEE SLAB TURNDOWN DETAIL.
 7. SEE FOOTING, COLUMN & BASE PLATE, PIER, AND WALL FOOTING SCHEDULES.
 8. SEE ARCHITECTURAL DRAWINGS FOR ALL NECESSARY EMBEDDED ITEMS, RAMPS, STAIRS, LANDINGS, AND FINISH DETAILS.
 9. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.
 10. CONTRACTOR SHALL VERIFY WALL LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO FOUNDATION LAYOUT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEER.



ENLARGED CONCESSION BUILDING

FOUNDATION / FLOOR PLAN

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

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PROJECT DESCRIPTION

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1001 SCOTT STREET
READING, PA 19611

SHEET TITLE CONCESSION BUILDING FOUNDATION / FLOOR PLAN

ISSUE DATE 2026.09.01

SCALE AS NOTED

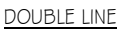
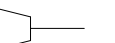
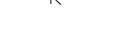
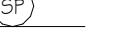
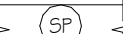
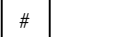
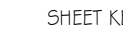
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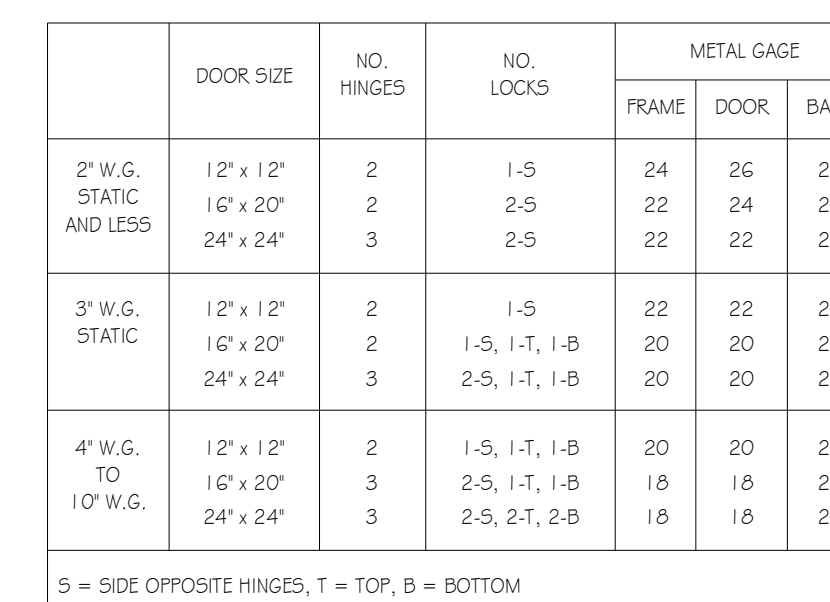
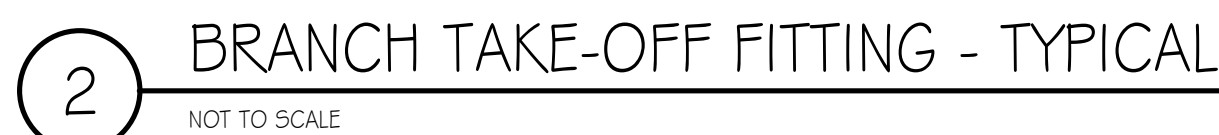
S1.3

HEATING, VENTILATION AND AIR CONDITIONING

ABBREVIATIONS											
A	ABOVE	FLX	FLEXIBLE	O	OIA	OUTSIDE AIR	 MITERED ELBOW W/ TURNING VANES  RADIUS ELBOW				
AD CL	ABOVE CEILING	FLM	FLOOR	OAI	OUTSIDE AIR INTAKE	OC				ON CENTER	
ACU	AIR CONDITIONING UNIT	FT	FOOT/FEET	OPNG	OPENING	P		 TRANSITION CONCENTRIC  TRANSITION ECCENTRIC			
ADT	ABOVE FINISHED FLOOR	FT HD	FEET OF HEAD	PC	PLUMBING CONTRACTOR	PD	PRESSURE DROP				
AHU	ABOVE FINISHED GRADE	FUT	FUTURE	PH	PHASE	PLBG	PLUMBING	 MANUAL VOLUME DAMPER  INCLINED RISER (OR DROP) ARROW IN DIRECTION OF AIR FLOW			
AMP	AMPERES	G		PRV	PRESSURE REDUCING VALVE/PRESSURE RELIEF VENT	PSI	POUNDS PER SQUARE INCH				
APPROX	APPROXIMATE	GA	GAUGE/GAGE	PTR	PRESSURE TEMPERATURE RELIEF	R		 RECTANGULAR BRANCH TAKE OFF  ROUND BRANCH TAKE OFF			
ARCH	ARCHITECTURAL	GAL	GALLON	RAD	RADIATION	RD	ROUND				
ASME	AMERICAN SOCIETY OF MECH ENG	GALV	GALVANIC or GALVANIZED	REG	REGISTER	REL	RELIEF AIR	 DUCT-MOUNTED REHEAT COIL  FLEXIBLE DUCT			
ATC	AUTOMATIC TEMPERATURE CONTROL	GC	GENERAL CONTRACTOR	RF	ROOF	RLA	RATED LOAD AMPERES				
AT ST	AT STRUCTURE	GEN	GENERAL	RNM	ROOM	RPM	REVOLUTIONS PER MINUTE	 FLEXIBLE CONNECTION  DUCT SILENCER			
AUTO	AUTOMATIC	GPM	GALLONS PER MINUTE	RTU	ROOF TOP UNIT	RV	RELIEF VALVE				
B	BD	BACK DRAFT DAMPER	GR	GRILLE	S			 DUCT ACCESS DOORS  SUPPLY DIFFUSER			
BE	BOTTOM ELEVATION	GRD	GRADE	SAC	DUCT ACCESS DOORS	SAN	SANITARY				
BFG	BELOW FINISHED GRADE	H		SHT	SHEET	SHT	SHEET	 RETURN REGISTER/GRILLE  EXHAUST REGISTER/GRILLE			
BJ	BETWEEN JOISTS	H	HIGH	SP	STATIC PRESSURE	SPEC	SPECIFICATIONS				
BLOG	BUILDING	HC	HEATING (HVAC) CONTRACTOR	SQ	SQUARE	STD	STANDARD	 LINEAR DIFFUSER  FIRE DAMPER (HORIZONTAL/VERTICAL)			
BLW	BELOW	HDS	HEAVY DUTY ARCHITECTURAL GRILLE	TD	TRANSFER DUCT	TE	TOP ELEVATION				
BDD	BOTTOM OF DUCT	HDB	HOT GAS BYPASS	TOH	TOTAL DYNAMIC HEAD	TEMP	TEMPERATURE	 SMOKE AND FIRE DAMPER  RADIATION DAMPER			
BOT	BOTTOM	HDB2	HORIZONTAL	THRU	THROUGH	TJ	THROUGH JOISTS				
BTU	BRITISH THERMAL UNIT	HP	HORSE POWER	TSP	TOTAL STATIC PRESSURE	TSTAT	THERMOSTAT	 BACK DRAFT DAMPER  MOTOR OPERATED DAMPER			
C	CU	CONVECTOR	HPC	HIGH PRESSURE CONDENSATE	TD	TRANSFER DUCT	TOH				TOTAL DYNAMIC HEAD
CM	CM	CUBIC FEET PER MINUTE	HRS	HOUR	TE	TOP ELEVATION	TEMP	TEMPERATURE	 SMOKE DAMPER  SMOKE AND FIRE DAMPER		
CLG	CEILING	HSTAT	HUMIDISTAT	IN OR *	INSIDE DIAMETER	TJ	THROUGH JOISTS				
CLND	CLEANOUT	HT	HEIGHT	D	DIA	DIAMETER	TJ	THROUGH JOISTS	 RADIATION DAMPER  BACK DRAFT DAMPER		
CCD	CENTER OF DUCT	HTG	HEATING	INT	INTERIOR	TD	TRANSFER DUCT				
CONC	CONCRETE	HTR	HOT WATER RETURN	INV	INVERTER	TOH	TOTAL DYNAMIC HEAD	 SMOKE DAMPER  SMOKE AND FIRE DAMPER			
COND	CONDENSATE/CONDENSING	HWS	HOT WATER SUPPLY	ISP	INTERNAL STATIC PRESSURE	TE	TOP ELEVATION				
CONN	CONNECTION/CONNECTION	HZ	HERTZ (FREQUENCY)	INW	INCH WATER GAUGE	TEMP	TEMPERATURE	 RADIATION DAMPER  BACK DRAFT DAMPER			
CONSTR	CONSTRUCTION/CONSTRUCTION	I		INW	INCH WATER GAUGE	TEMP	TEMPERATURE				
COORD	COORDINATE	K		INW	INCH WATER GAUGE	TEMP	TEMPERATURE	 RADIATION DAMPER  BACK DRAFT DAMPER			
CR	CR	STEAM CONDENSATE RETURN	KW	KILOWATT	INW	INCH WATER GAUGE	TEMP				TEMPERATURE
CRACU	COMPUTER ROOM ACU	L	LEAVING AIR TEMPERATURE	KWH	KILOWATT HOURS	INW	INCH WATER GAUGE	 RADIATION DAMPER  BACK DRAFT DAMPER			
CU	CONDENSING UNIT	LAT	LEAVING AIR TEMPERATURE	L	LEAVING AIR TEMPERATURE	INW	INCH WATER GAUGE				
CUH	CABINET UNIT HEATER	LB or LBS	POUNDS	LDB	LEAVING DRY BULB TEMPERATURE	INW	INCH WATER GAUGE	 RADIATION DAMPER  BACK DRAFT DAMPER			
CV	CHECK VALVE	LDB	LEAVING DRY BULB TEMPERATURE	LF	LINEAR FEET	INW	INCH WATER GAUGE				
CWR	COLD WATER	LPC	LOW PRESSURE CONDENSATE	LPC	LOW PRESSURE CONDENSATE	INW	INCH WATER GAUGE	 RADIATION DAMPER  BACK DRAFT DAMPER			
CWS	CHILLED WATER RETURN	LPS	LOW PRESSURE STEAM	LPS	LOW PRESSURE STEAM	INW	INCH WATER GAUGE				
D	DB	DRY BULB	LWB	LEAVING WET BULB TEMPERATURE	LWB	LEAVING WET BULB TEMPERATURE	INW	INCH WATER GAUGE	 RADIATION DAMPER  BACK DRAFT DAMPER		
DEG	DEGREE	LWC	LOW WATER CUT-OFF	LWC	LOW WATER CUT-OFF	INW	INCH WATER GAUGE				
DEPT	DEPARTMENT	LWT	LEAVING WATER TEMPERATURE	LWT	LEAVING WATER TEMPERATURE	INW	INCH WATER GAUGE	 RADIATION DAMPER  BACK DRAFT DAMPER			
DIA	DIAMETER	M		UN FL	UNDER FLOOR	INW	INCH WATER GAUGE				
DISC	DISCONNECT	MAU	MAKE-UP AIR UNIT	UNO	UNLESS NOTED OTHERWISE	INW	INCH WATER GAUGE	 RADIATION DAMPER  BACK DRAFT DAMPER			
DN	DOWN	MBH	THOUSAND BTU PER HOUR	UP	UNDER PLUMBING	INW	INCH WATER GAUGE				
DRAIN	DRAIN	MCH	MECHANICAL CONTRACTOR	UV	UNIT VENTILATOR	INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
DS	DUCT RISER	MCA	MINIMUM CIRCUIT AMPACITY	VAV	VARIABLE AIR VOLUME	INW	INCH WATER GAUGE				
DSU	DUCTLESS SPLIT SYSTEM UNIT	MECH	MECHANICAL	VD	VOLUME DAMPER (MANUAL)	INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
DWG	DRAWING	MFR	MANUFACTURER	VFD	VARIABLE FREQUENCY DRIVE	INW	INCH WATER GAUGE				
E	EA	EXHAUST AIR	MN	MINOR	VI	VIBRATION ISOLATOR	INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER		
EAT	ENTERING AIR TEMPERATURE	MNI	MINIMUM	VIR	VENT RISER	INW	INCH WATER GAUGE				
EC	ELECTRICAL CONTRACTOR	MCD	MOTOR OPERATED DAMPER (ATC)	VTR	VENT THROUGH ROOF	INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
EDB	ENTERING DRY BULB TEMPERATURE	MFC	MEDIUM PRESSURE CONDENSATE	W	WATT	INW	INCH WATER GAUGE				
EL	ELEVATION	MFS	MEDIUM PRESSURE STEAM	WO	WITHOUT	INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
ELC	ELECTRICAL	MFD	MOUNTED	WB	WET BULB	INW	INCH WATER GAUGE				
EMER	EMERGENCY	MTG	MOUNTING	WG	WATER GAUGE	INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
ENCL	ENCLOSURE	M2	MULTIZONE	WL	WEATHER LOUVER	INW	INCH WATER GAUGE				
EQUIP	EQUIPMENT	NA	NOT APPLICABLE	WP	WEATHERPROOF	INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
ERU	ENERGY RECOVERY UNIT	NC	NOISE CRITERIA	WPD	WATER PRESSURE DROP	INW	INCH WATER GAUGE				
ESP	EXTERNAL STATIC PRESSURE	NC or NC	NORMALLY CLOSED	WT	WEIGHT	INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
ETR	EXISTING TO REMAIN	NE or NE	NORMALLY EMERGENCY POWER	WTD	WATER TEMPERATURE DROP	INW	INCH WATER GAUGE				
EWB	ENTERING WET BULB TEMPERATURE	NE	NOT IN CONTRACT	WTR	WATER TEMPERATURE RISE	INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
EWI	ENTERING WATER TEMPERATURE	NO	NUMBER	X	TRANSFORMER	INW	INCH WATER GAUGE				
EXH	EXHAUST/EXHAUSTER	NO or NO	NORMALLY OPEN			INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
EX OR EXIST	EXISTING	NTS	NOT TO SCALE			INW	INCH WATER GAUGE				
EXP	EXPOSED					INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
F	FAHRENHEIT					INW	INCH WATER GAUGE				
FD	FIRE DAMPER					INW	INCH WATER GAUGE	RADIATION DAMPER BACK DRAFT DAMPER			
FLA	FULL LOAD AMPERES					INW	INCH WATER GAUGE				

GRAPHIC SYMBOLS	
	RETURN AIR DESIGNATION
	SUPPLY AIR DESIGNATION
	AREA OF REVISION
	REVISION SEQUENCE NUMBER
	SHEET KEYNOTE
	DEMOLITION KEYNOTE
	POINT OF CONNECTION TO EXISTING SYSTEM
	POINT OF DISCONNECTION FROM EXISTING SYSTEM
	DEMOLISHED ITEM
	EXISTING ITEM

HVAC GENERAL NOTES	
1.	ALL WORK AND EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE LAWS, CODES, AND REQUIREMENTS, OF ALL AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL PLUMBING CODE, THE LOCAL FIRE MARSHAL, UNDERWRITERS LABORATORY, RFI, FM, OSHA, AND THE NATIONAL ELECTRICAL CODE. MODIFICATIONS REQUIRED BY THE ABOVE AUTHORITIES IN ORDER TO BRING THE PROJECT INTO CODE REQUIREMENTS SHALL BE MADE AT NO ADDITIONAL COST TO OWNER. IF CONTRACT DOCUMENTS ARE MORE STRINGENT THAN CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN.
2.	ALL SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. ANY CONFLICTING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, AND WORK SHALL CEASE ON THAT PORTION OF THE PROJECT UNTIL CLARIFICATIONS ARE ISSUED. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE APPROXIMATE ARRANGEMENT OF THE SYSTEMS. THE CONTRACTOR SHALL FIELD VERIFY EXACT INFORMATION, DIMENSIONS, LOCATIONS AND COORDINATE WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS. NOT ALL INFORMATION IS SHOWN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES. ALL MATERIAL, WASTE, AND DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. MAINTAIN THE CONSTRUCTION PREMISES IN A NEAT AND ORDERLY CONDITION AT THE END OF EACH WORKING DAY.
3.	CONTRACTOR SHALL CONFIRM THE REQUIREMENTS FOR PREMIUM TIME OR SPECIAL PROCEDURES WITH THE OWNER.
4.	CONTRACTOR SHALL COORDINATE, PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER FOR THEIR APPROVAL. SHOP DRAWINGS TO BE SUBMITTED INCLUDE: SHEET METAL, DIFFUSERS, GRILLES, REGISTERS, FIRE DAMPERS, AND ALL EQUIPMENT. SHEET METAL SHOP DRAWINGS SHALL BE COORDINATED AND SHOW DUCT ELEVATIONS, PROVIDE RISER, DROPS, AND OFFSETS TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. AREAS OF POTENTIAL CONFLICT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
5.	A SET OF MEET RECORD COORDINATION DRAWINGS SHALL BE MAINTAINED BY THE CONTRACTOR AT THE JOB SITE. ACTUAL LOCATIONS OF ALL EQUIPMENT, PIPING, DUCTWORK, AND ALL OTHER ITEMS INCLUDED IN THIS CONTRACT, AND ALL DEVIATIONS OF THE WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE MARKED ON THE RECORD COORDINATION DRAWINGS. EACH TRADE SHALL REVIEW THE COORDINATION DRAWINGS AND RESOLVE ANY POTENTIAL CONFLICTS WITH OTHER TRADES PRIOR TO INSTALLING ANY PORTION OF THEIR WORK. CONTRACTOR SHALL NOT CORE DRILL, OR CUT CONCRETE SLABS FOR ANY REASON WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE OWNER.
6.	WORK SHALL BE EXECUTED IN A GOOD WORKMANLIKE MANNER USING MECHANICS IN THEIR RESPECTIVE TRADES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING THE WORK UNDER THIS CONTRACT. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL DELIVER COMPLETE AND FUNCTIONAL SYSTEMS AS ENCOMPASSED BY THE CONTRACT. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS.
7.	IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF NEED FOR EXPLANATION THEREOF, THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ENGINEER. NO CHANGES ARE TO BE MADE TO THE WORK OF THIS CONTRACT WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL HOLD THE OWNER AND ITS CONSULTANTS HARMLESS AGAINST ALL CLAIMS AND ADJUSTMENTS ARISING OUT OF THE CONTRACTORS PERFORMANCE OF THE WORK OF THIS CONTRACT. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK, WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT WRITTEN AUTHORIZATION FROM THE APPROPRIATE AUTHORITY. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.
8.	THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE MECHANICAL CONTRACTOR ANY SLAB-TO-SLAB PARTITIONS IN ORDER TO PRESERVE RETURN AIR PATHWAYS. CONTRACTOR SHALL VERIFY PARTITION RATING AND PROVIDE FIRE DAMPER AND ACCESS DOOR WHERE REQUIRED BY CODE.
9.	WHEREVER FIRE RATED PARTITIONS ARE PENETRATED FOR WIRE, DUCT OR PIPE PASSAGE, SEAL ANCHOR PASSAGES WITH CODE APPROVED, LABORATORY TESTED AND LABELED SEALANT OF FIRE RESISTANCE RATING NOT LESS THAN THAT OF PENETRATED ASSEMBLY THAT WILL PREVENT PASSAGE OF FIRE AND SMOKE. INSTALL APPROPRIATELY RATED FIRE, SMOKE OR COMBINATION DAMPERS IN ALL DUCT THAT PENETRATES RATED WALLS WHETHER SHOWN. DRAWING SYMBOLS ARE USED AS AN AID, NOT TO DEFINE AN EXACT NUMBER OF PIECES OF EQUIPMENT. PROVIDE A MINIMUM OF 16" ACCESS DOOR OR PANEL FOR ACCESS TO ALL FIRE, SMOKE, AND COMBINATION DAMPERS.
10.	CONTRACTOR SHALL VERIFY THAT THE LOCATION OF CEILING MOUNTED DIFFUSERS, GRILLES AND REGISTERS SHOWN ON THE DRAWINGS ARE ACCEPTABLE TO THE ARCHITECT PRIOR TO INSTALLATION.
11.	ALL NEW LOW PRESSURE RECTANGULAR DUCTWORK SHALL BE 1" INCH W.G. CONSTRUCTION AND ALL NEW MEDIUM PRESSURE RECTANGULAR DUCTWORK SHALL BE 3" INCH W.G. CONSTRUCTION. ALL NEW RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF LOCK FORMING GALVANIZED STEEL IN ACCORDANCE WITH THE LATEST EDITION OF THE DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR CONDITIONING SYSTEMS, PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION INC. (SMACNA). VOLUME DAMPERS SHALL BE PROVIDED IN ALL BRANCH TAKE OFFS, SPHANS OR OTHER CONNECTIONS TO INDIVIDUAL AIR DISTRIBUTION DEVICES. ALL 90° ELBOWS SHALL BE RADIUS, OR RECTANGULAR WITH TURNING VANES. DUCTWORK SHALL BE HUNG FROM THE BUILDING STRUCTURE WITH HANGERS ASSEMBLED IN ACCORDANCE WITH "SMACNA" REQUIREMENTS. ALL DUCT, REGARDLESS OF PRESSURE CLASS, SHALL BE SEALED PER "SMACNA" CLASS "A" REQUIREMENTS. ROUND TO EQUIPMENT SHALL BE IN SIZES INDICATED AND INCREASED OR REDUCED AT POINT OF PIPING CONNECTION TO EQUIPMENT. WHERE VENTS EXIST, ALL DUCTWORK UPSTREAM SHALL BE MEDIUM PRESSURE. ALL DUCTWORK DOWNSTREAM SHALL BE LOW PRESSURE.
12.	RECTANGULAR SUPPLY AND RETURN DUCTWORK SHALL BE INTERNALLY LINED WITH 1" INCH FIBERGLASS, FIBRE-25, SMOKE-50, UNLESS OTHERWISE NOTED. EXTERIOR DUCTWORK SHALL BE INTERNALLY LINED WITH 2" FIBERGLASS, FIBRE-25, SMOKE-50, UNLESS OTHERWISE NOTED. EXTERIOR DUCTWORK SHALL BE PAINTED AND SEALED WITH THE ROOFING FLASH SEALANT. ADDITIONAL INSULATION MAY BE REQUIRED TO MEET THE R-VALUES REQUIRED BY THE LATEST EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE. THE MAIN INTENTION OF THE DUCT LINDER IS SOUND ATTENUATION. ENSURE THE CODE REQUIREMENT IS MET. DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
13.	ALL FLEXIBLE DUCTWORK SHALL BEAR THE UL (B) LABEL (CLASS 1 AIR DUCT) AND SHALL BE FACTORY INSULATED (1-1/2" INCH 0-6 L.B. FIBERGLASS, FIBRE-25, SMOKE-50 ATCO UPC #0761) OR EQUAL. FLEXIBLE DUCTWORK SHALL COMPLY WITH NFPA 90A, AND NFPA 90B. ALL FLEXIBLE DUCTWORK CONNECTED TO DIFFUSERS SHALL NOT BE LESS THAN THE NECK SIZE OF THE DIFFUSER. MINIMUM FLEXIBLE DUCT BEND RADIUS OR CURVATURE SHALL BE 3 DUCT DIAMETERS. MAXIMUM LENGTH SHALL BE 8'-0" NO MORE THAN THE EQUIVALENT OF TWO (2) 90 DEGREE BENDS WILL BE ACCEPTABLE.
14.	ALL NEW ROUND SHEET METAL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH FIGURES 3-1 THROUGH 3-56 AND TABLE 3-2 OF THE "SMACNA" MANUAL. SNAP LOCK LONGITUDE SEAMS AND DRAW BAND JOINT CONNECTIONS ARE NOT ACCEPTABLE. INSTALL 1" FIBERGLASS DUCT WRAP ON ALL ROUND SUPPLY DUCTS.
15.	ALL FLOOR MOUNTED EQUIPMENT AND APPURTENANCES SHALL HAVE MINIMUM 6" THICK CONCRETE FLOOR/KEEPING PAD WHETHER SHOWN.
16.	PROVIDE FULL ROOF OPENING SIZE DUCT DROP FROM EACH EXHAUST FAN, RELIEF VENTILATOR, INTAKE PENTHOUSE, RTU, OR OTHER PIECE OF MECHANICAL EQUIPMENT. WITH MOISTURE TRAP. ALL TAKE-OFFS ARE FROM SIDE OF THE ROOF.
17.	DO NOT INSTALL PIPING, DUCTWORK OR EQUIPMENT OVER ELECTRICAL EQUIPMENT. PROVIDE REQUIRED CLEARANCES FOR ALL ELECTRICAL EQUIPMENT PER NEC. COORDINATE LOCATIONS OF DUCTWORK, PIPING AND EQUIPMENT ABOVE CEILING WITH CABLE TRAYS.
18.	CONNECT ALL DUCTS TO MECHANICAL EQUIPMENT BY FLEXIBLE CANVAS DUCT CONNECTORS WITH NOT LESS THAN 3" SPACING BETWEEN DUCT AND EQUIPMENT.
19.	COORDINATE WALL, ROOF, FLOOR AND CEILING OPENINGS FOR NEW PIPE, DUCT, AND CONDUIT PENETRATIONS. PROVIDE SLEEVES AROUND PIPES AND DUCTS THROUGH ALL FLOORS, CEILINGS, WALLS, AND PARTITIONS.
20.	FIELD VERIFY AND COORDINATE DUCTWORK AND PROVIDE OFFSETS TO ACCOMMODATE DUCTWORK THROUGH OR BETWEEN JOISTS, BETWEEN BEAMS AND EXISTING BUILDING STRUCTURE, WALL STUDS, AND ALL TRADES NOT SPECIFICALLY LISTED AT NO ADDITIONAL COST.
21.	EQUIPMENT, APPLIANCES, STRUCTURAL JOISTS, BEAMS, WALLS, CEILINGS, LIGHTING FIXTURES, ELECTRICAL EQUIPMENT, AND OTHER TRADE WORK WHERE SHOWN ARE FOR REFERENCE ONLY. VERIFY AND COORDINATE IN FIELD. REFER TO RESPECTIVE DRAWINGS.
22.	ALL AUTOMATIC TEMPERATURE CONTROL SYSTEM WORK AND INSPECTION SHALL BE ACCOMPLISHED BY THIS CONTRACTOR. THERMOSTATS SHALL BE INSTALLED IN CLOSE PROXIMITY TO RETURN AIR INLETS UNDER THIS CONTRACT. STANDARD MOUNTING HEIGHT TO TOP OF THERMOSTAT IS 48" ABOVE FINISHED FLOOR OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS. DO NOT INSTALL THERMOSTATS NEAR DAMPER SWITCHES. WIRING OF ALL MOTORIZED OPERATORS AND THERMOSTATS, REGARDLESS OF VOLTAGE ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. THE SYSTEM MUST HAVE A PROGRAMMABLE SCHEDULE.
23.	CONTRACTOR SHALL MAKE ALL FINAL EQUIPMENT CONNECTIONS AND PROVIDE THE NECESSARY ADAPTERS, FITTINGS, VALVES, AND DEVICES FOR A COMPLETE OPERABLE SYSTEM. COORDINATE REQUIREMENT FOR PROVISION OF CONNECTIONS, AND CONTROL WIRING FOR PROPER FUNCTIONING SYSTEM WITH ELECTR



	DOOR SIZE	NO. HINGES	NO LOCKS	METAL GAGE		
				FRAME	DOOR	BATTEN
2" W.G. STATIC AND LPS9	12" x 12"	2	1-5	24	22	20
	10" x 20"	2	2-5	22	24	22
	24" x 24"	3	2-5	22	22	22
3" W.G. STATIC	12" x 12"	2	1-5	22	22	20
	10" x 20"	2	1-5, 1-1, 1-8	20	20	20
	24" x 24"	3	2-5, 1-1, 1-8	20	20	20
4" W.G. TO 10" W.G.	12" x 12"	2	1-5, 1-1, 1-8	20	20	20
	10" x 20"	3	2-5, 1-1, 1-8	16	16	20
	24" x 24"	3	2-5, 1-1, 2-8	16	16	20

S = SIDE OPPOSITE HINGES, T = TOP, B = BOTTOM

9 DUCT ACCESS
NOT TO SCALE

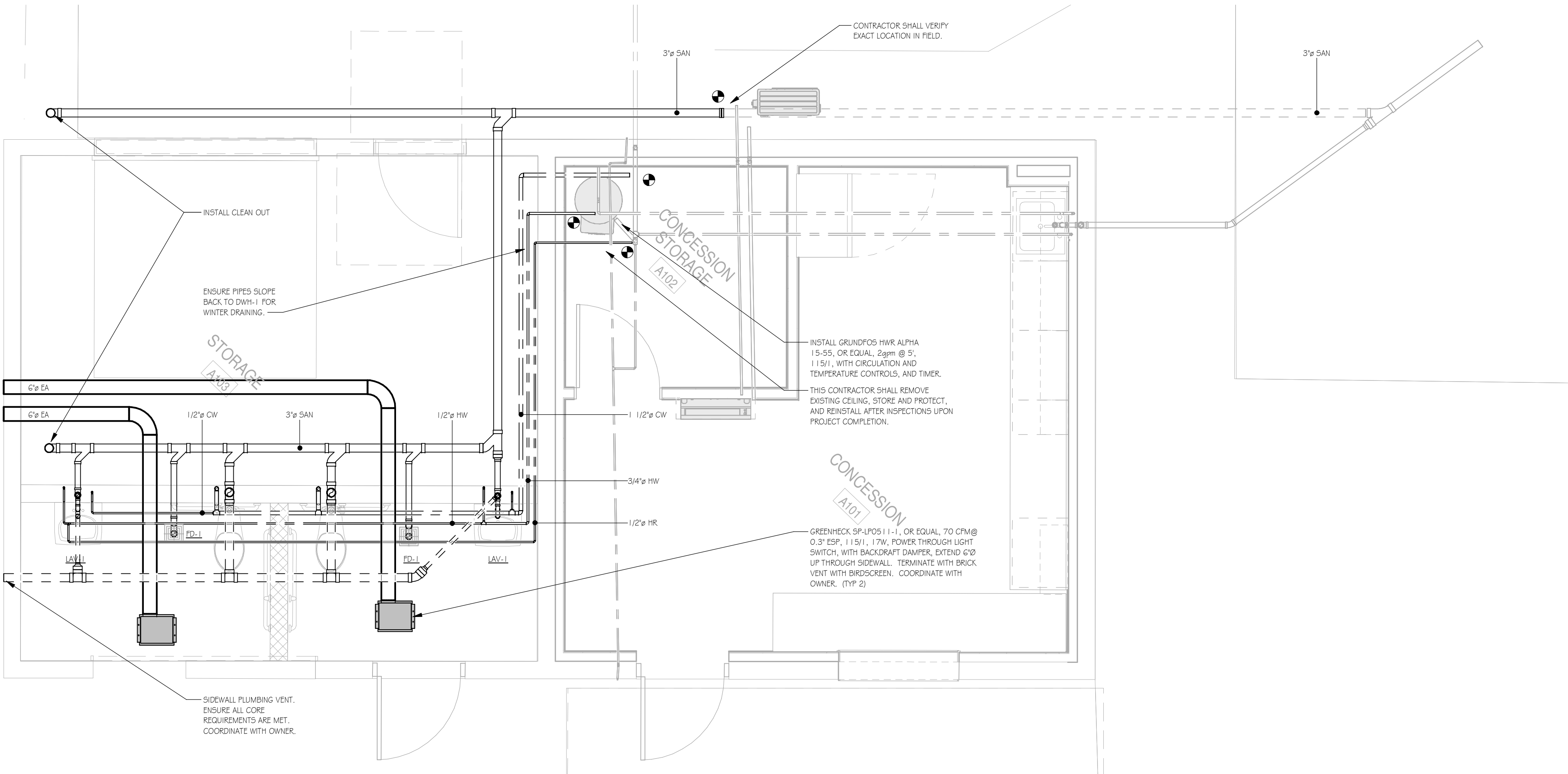
M-501

4. GENERAL NOTES
5. A. FLOOR FINISH SHALL BE ON THE FLOOR WHERE IT IS INSTALLED, NOT THE FLOOR IT SERVES, UNLESS NOTED OTHERWISE.
6. B. MAINTAIN SPACE FOR SERVICE AND MAINTENANCE OF EQUIPMENT.
7. C. PROTECT FLOOR DURING REMOVAL OF CONNECTION PERIODS TO AVOID CLOGGING WITH DIRT AND DEBRIS AS WELL AS TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION WORK.
8. D. IF PLUGS IN ENDS OF DISCONNECTS ARE NOT USED, THE DISCONNECTS SHALL BE KEPT IN THE OPEN POSITION.
9. E. INSTALL ISOLATION VALVES ON EACH ISOLATION PIPING AT EACH OF DAY AND NIGHT WORK STOPS.
10. F. INSTALL ISOLATION VALVES ON EACH ISOLATION STOP TO THE SITE INVERT CONNECTION FROM STARTING CONNECTION.
11. G. MAINTAIN A MINIMUM OF 18" CLEARANCE FROM THE WALLS OF THE TUNNEL.
12. H. USE A MINIMUM OF 2" OR GREATER PIPING HIGHER GRADE FOR SANITARY.
13. I. MAINTAIN A MINIMUM OF 18" CLEARANCE FROM THE WALLS OF THE TUNNEL.
14. J. ROUGH-IN PIPING SERVICES FOR PICTURES, MOUNT TYPING CABINETS ACCORDING TO CONTRACT DOCUMENTS, LOCAL CODES AND REQUIREMENTS.
15. K. FURNISH AND INSTALL CLEANOUTS AT THE BASE OF EACH STACK.
16. L. REFER TO STRUCTURAL DRAWINGS FOR SEISMIC CLASSIFICATION FOR BUILDING, FURNISH AND INSTALL SEISMIC ANCHORS AND BRACINGS AS REQUIRED.

STAMP



2548 Brandywine Lane, York, PA 17404
412-841-4901



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READING
HOUSING
AUTHORITY

PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS

1001 SCOTT STREET
READING, PA 19611

SHEET TITLE
FLOOR PLAN - MECHANICAL AND PLUMBING

ISSUE DATE

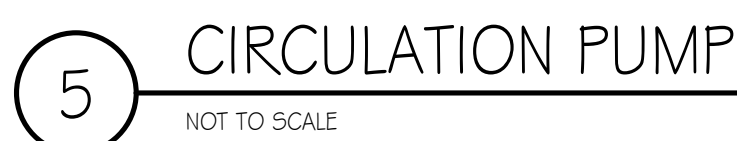
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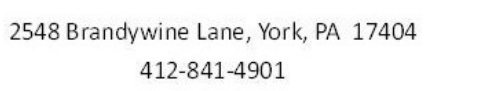
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PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS

1001 SCOTT STREET
READING, PA 19611

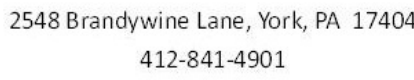
P-501

ABG	ABOVE GROUND	CSD	COPPER TYPE DAW	FLG	FLANGED	PVC	PVC
ALG	ALUMINUM	CTF	COPPER TYPE K	FSK	FLASK	FLK	FLASK REBAR KEAT FIBER PARTS
AKG	AKK WATER KEAT FIBER PARTS	CTH	COPPER TYPE L	GLD	GALD	GLD	GALD
BEG	BELOW GROUND	CFM	COPPER TYPE M	GRV	GRD/VOID	GRV	GRV
BIG	BRASS	CTL	COPPER TYPE L	GSK	GRUNDED GASETS	GRS	GRS
BST	BLACK STEEL PIPE	DI	DUCTILE IRON	GRV	GRUNDED STEEL	GRV	GRV
CCJ	CONCRETE	DSF	DUST ELASTOMER	NFD	NO HUB FITTINGS	NFD	NFD
CDR	CASH FLOW SERVICE INCHES	DSP	DROPSID	HTF	HYDRAULIC	HTF	HTF
CEL	CELLULAR GLASS	FBC	FIBERGLASS	FSH	FURISH ON	FSH	FSH

1. FINAL FINISH AND COLOR BY ARCHITECT FROM STANDARD COLOR PALETTE.
INSTALL DRAIN COCK AT EACH FUTURE WATER CONNECTION. PROVIDE
MEANS FOR WINTERIZATION DRAINING.
2. WITH WATER SUPPLIES, P-TRAP, GRID DRAIN, ADA INSULATION, AND KOHLER
SIMPLICE 556 FAUCET, HAVING 3-FUNCTION FULL DOWN SPRAY HEAD,
SINGLE HOSE INSTALLATION.
3. WITH WATER SUPPLIES, CARRIER, P-TRAP, GRID DRAIN, ADA INSULATION,
1/20 MIXING VALVE, VIBRAL RESISTANT WITH INTEGRAL FAUCET SYSTEM.
PROVIDE CARRIER, INSTALL AIR CONTROL PUSHBUTTON VALVES,
ATMOSPHERIC, VET303 1/4" SATIN FINISH.
4. WITH WATER HANGLER ARRESTOR, 1/4" TURN.
5. ANTI-SIPHON, AUTO DRAINING
6. WITH ALUMINUM DOCK, 3" WATER DAM ON EMERGENCY
7. WITH SERVICE FAUCET, HOSE AND HOSE BRACKET, MOP HANGER, AND
STAINLESS STEEL BUMPERGUARD
8. WITH SEAT, GRAB BARS, SHOWER KID, CURTAIN, VALVE AND HAND-HELD
SHOWER, DRAIN, AND RECESSED SPOON DISH. MIXING VALVE SHALL BE
ACORN TYPE 8 AND BE ADJUSTED TO COMPLIANT
9. WITH CARRIER, AND SLOAN ROVAL, 16-01 1/2" FLUSH VALVE
10. WITH CARRIER
11. WITH SEAT, AND WATER SUPPLY
12. WITH SLOAN REGAL 1111-1, 28" FLUSH VALVE



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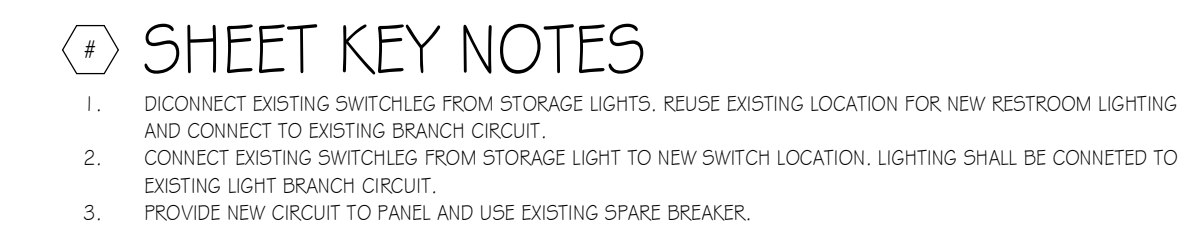
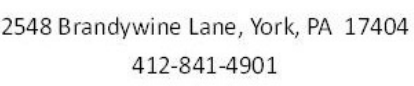


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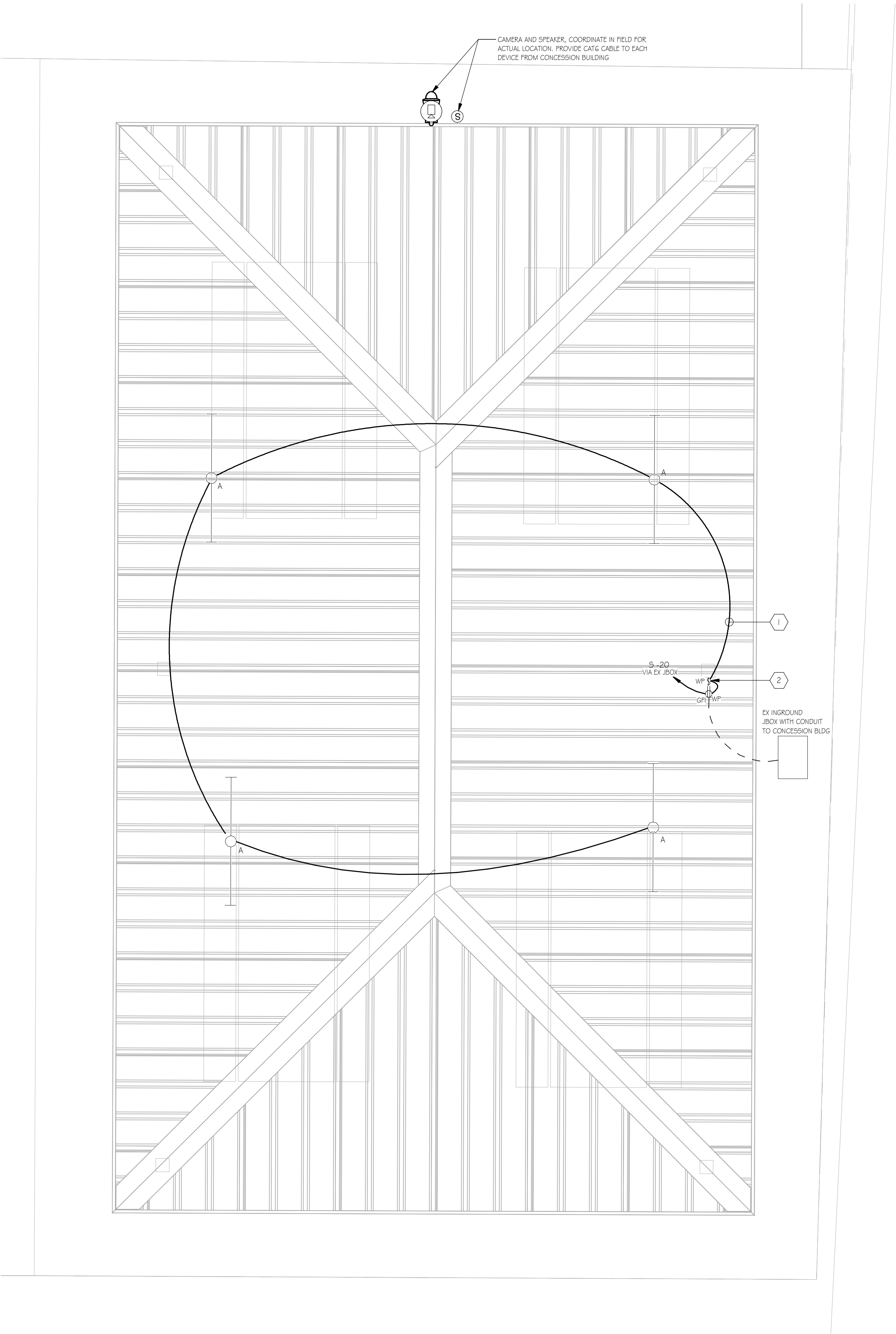
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P-601



E-101



2 ENLARGED PLAN - PAVILION
SCALE: 1/2" = 1'-0"

- # SHEET KEY NOTES
1. ALL CONDUIT INSTALLED THROUGHOUT PAVILION SHALL BE CONCEALED INSIDE BUILDING FRAME. COORDINATE WITH G.C. PRIOR TO INSTALLING.
 2. PROVIDE PHOTO-EYE FOR DUSK TO DAWN OPERATION WITH 24 HOUR TIMER TO ESTABLISH OFF TIMES. SINGLE POLE SWITCH SHALL ACT AS A MANUAL OVERRIDE.

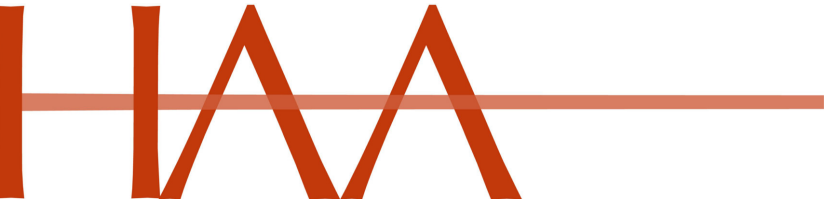
All dimensions, measurements and project conditions shall be checked and verified in the field by the contractor. Refer all differences, in writing, to the architect for consideration prior to proceeding with the work. The contractor shall bear the cost of rectifying work not approved by the architect, caused by lack of coordination and or notification.

STAMP

GREEN BUILDING ENGINEERS

2548 Brandywine Lane, York, PA 17404
412-841-4901

REVISIONS		
No.	Description	Date



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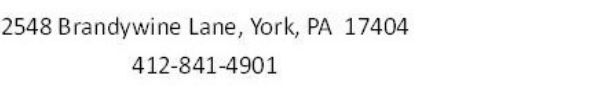
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PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS

1001 SCOTT STREET
READING, PA 19611

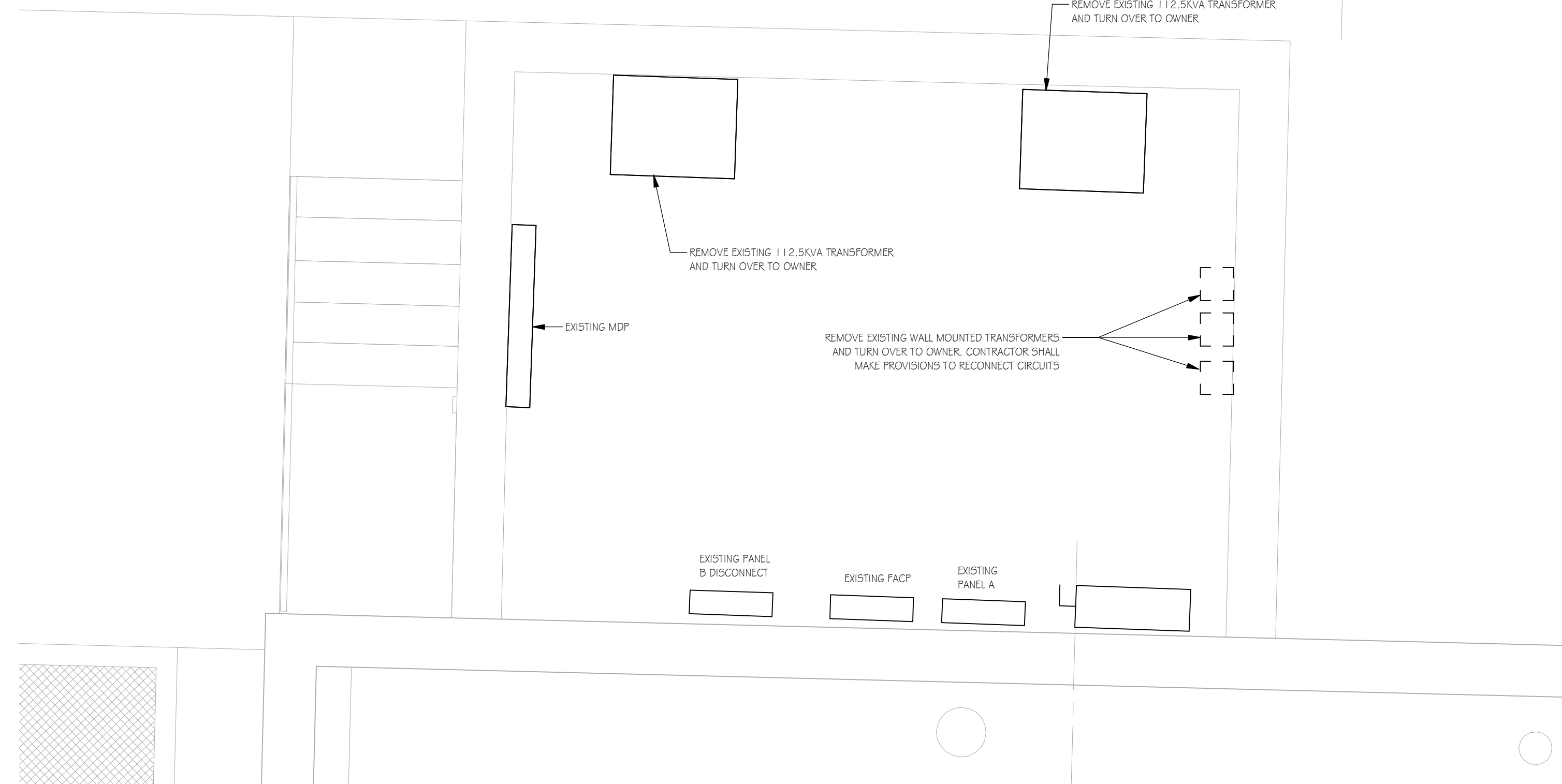
SHEET TITLE ENLARGED PLAN - PAVILION		
ISSUE DATE 09.09.2026	SCALE AS NOTED	
FILE NUMBER 2532	DRAWN BY SEA	CHECKED BY SEA

E-102



- ## GENERAL NOTES

- 3 ENLARGED FLOOR PLAN - EXISTING ELECTRICAL ROOM DEMO

[illegible]

PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS

1001 SCOTT STREET
READING, PA 19611

SHEET TITLE
ENLARGED PLANS

ISSUE DATE 09.09.2026	SCALE AS NOTED	
FILE NUMBER 2532	DRAWN BY SEA	CHECKED BY SEA

E-103



FSC BLDG POWER RISER - DEMOLITION

NRC POWER RISER - DEMOLITION

FSC KEY NOTES

1. COORDINATE WITH UTILITY TO REMOVE EXISTING TRANSFORMER AND REPLACE WITH NEW 1200208V, 3 PHASE.
2. EXISTING UNDERGROUND CONDUITS SHALL REMAIN FOR REUSE.
3. EXISTING CONDUITS UP SIDE OF BUILDING, WEATHERHEADS AND CONDUITS THROUGH WALL SHALL BE REMOVED IN THEIR ENTIRETY.
4. EXISTING TRANSFORMERS SHALL BE REMOVED AND TURNED OVER TO OWNER, MAKE PROVISIONS TO CONNECT EXISTING CONDUITS AND CABLES TO MOTORS COMING FEEDER CIRCUIT.
5. CONTRACTOR SHALL CHECK ALL MOTORS THROUGH ALL FACILITIES FOR CORRECT ROTATIONS, RE-LABEL PANELS FOR ANY CHANGES.
6. 2 SETS OF (4) #500KCMIL 6 (1) #10 GROUND (2) 3 / 12"

FSC BLDG POWER RISER - NEW

NRC KEY NOTES

1. INTERCEPT EXISTING FEEDERS AND REMOVE.
2. REMOVE EXISTING DISCONNECT AND TURN OVER TO OWNER.
3. REMOVE EXISTING TRANSFORMER AND TURN OVER TO OWNER.
4. CONNECT TO EXISTING FEEDER AND INSTALL TO NEW ATS.
5. INTERCEPT CONDUITS FROM PSC BUILDING AND INSTALL TO NEW ATS, 2 SETS OF (4) #500KCMIL 4 (1) #1 GRD IN EXISTING CONDUITS
6. (4) #500KCMIL 4 (1) #3 GRD IN 3 1/2"
7. (4) #350 4 (1) #6 GRD IN 2 1/2"

NRC POWER RISER - NEW

[illegible]

HAMMEL ASSOCIATES ARCHITECTS, LLC
25 E. Grant St. | Suite 102 | Lancaster, PA 17602 | 717.393.3713 | www.hammelarch.com

READING
HOUSING
AUTHORITY

PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS

1001 SCOTT STREET
READING, PA 19611

SHEET TITLE
ELECTRICAL SCHEDULES & POWER RISER

ISSUE DATE

SALE

FILE NUMBER
2532

AWN BY
A

CHECKED BY
EA

E-200

[illegible]

READING
HOUSING
AUTHORITY

PROJECT DESCRIPTION
OAKBROOK HOMES
OPPORTUNITY HOUSE PLAYGROUND IMPROVEMENTS

1001 SCOTT STREET
READING, PA 19611

SHEET TITLE
SITE PLAN

ISSUE DATE
09.09.2026

SCALE
AS NOTED

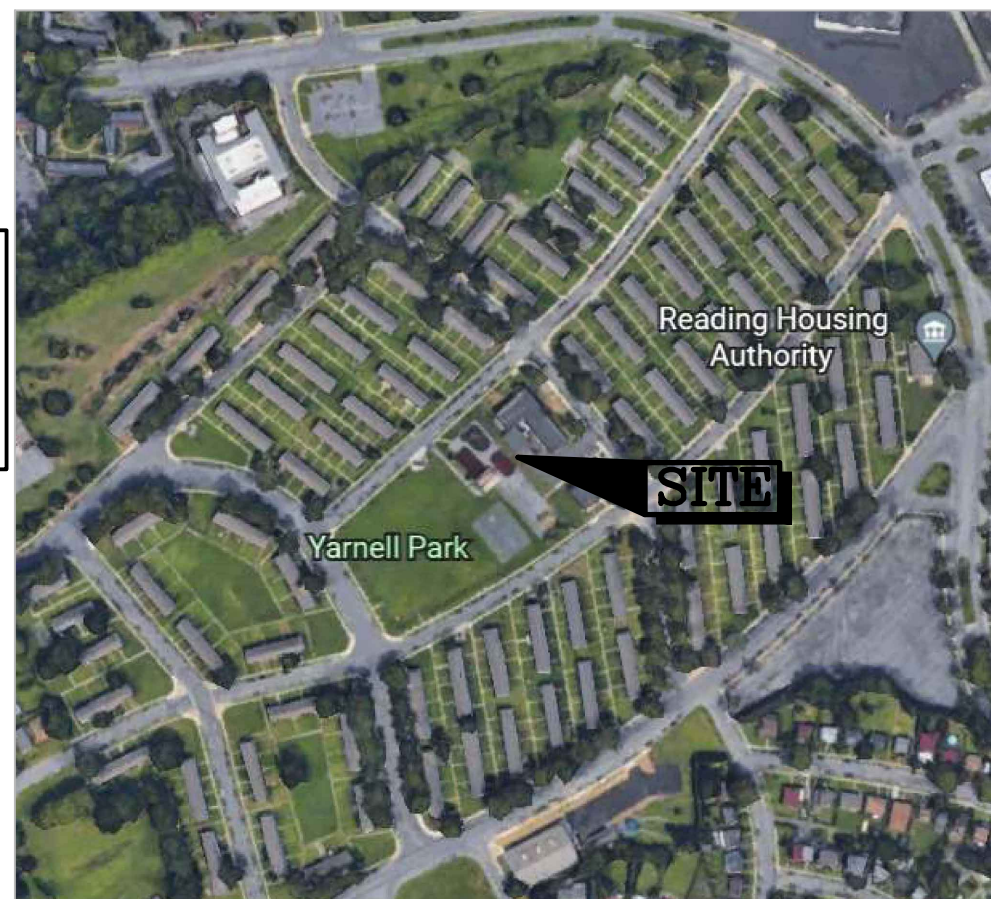
FILE NUMBER
2522

DRAWN BY
SEA

EP100



- S24	Contour
— MH	Manhole (Sanitary)
Sign	Sign
→ ←	Utility Pole (w/ Guy Wire)
☆ LP	Light Pole
——	Edge of Macadam
——	Concrete Curb
==	Storm Line
- G -	Gas Line
- S -	Sanitary Line
- W -	Water Line
- UG -	Underground Electric
- TU -	U/G Communication
- X -	Fence
○ DS	Down Spout
●	Benchmark
~ ~ ~	Deciduous Tree
~ ~ ~	Coniferous Tree



LOCATION MAP
SCALE = 1" = 800'

R-3 RESIDENTIAL DISTRICT
PERMITTED USE: PUBLIC PARKS AND
LOW-RISE APARTMENTS

MIN. LOT AREA	REQUIRED	EXISTING
MIN. LOT WIDTH	5,500 SF	1,091,613.6 SF
MIN. FRONT YARD SETBACK	30 FT.	N/A FT.
MIN. SIDE YARD SETBACK	5 FT.	N/A FT.
MIN. REAR YARD SETBACK	6 FT.	N/A FT.
MAX. BUILDING HEIGHT(PRINCIPAL)	20 FT.	N/A FT.
MAX. BUILDING COVERAGE	35 FT.	35 FT.
MAX. IMPERVIOUS COVERAGE	60%	
	80%	

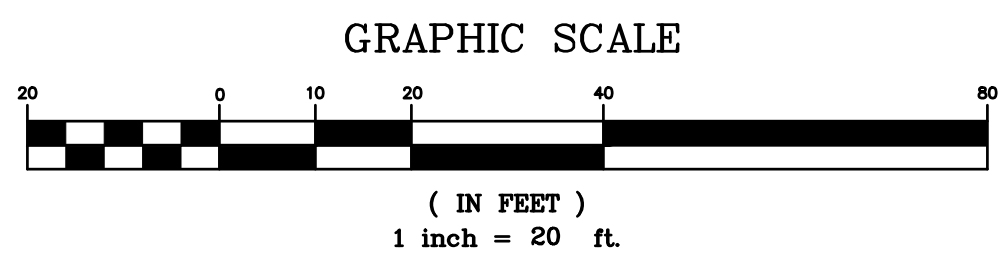
READING HOUSING AUTHORITY
1301 SCHUYLKILL AVENUE
READING, PA 19611

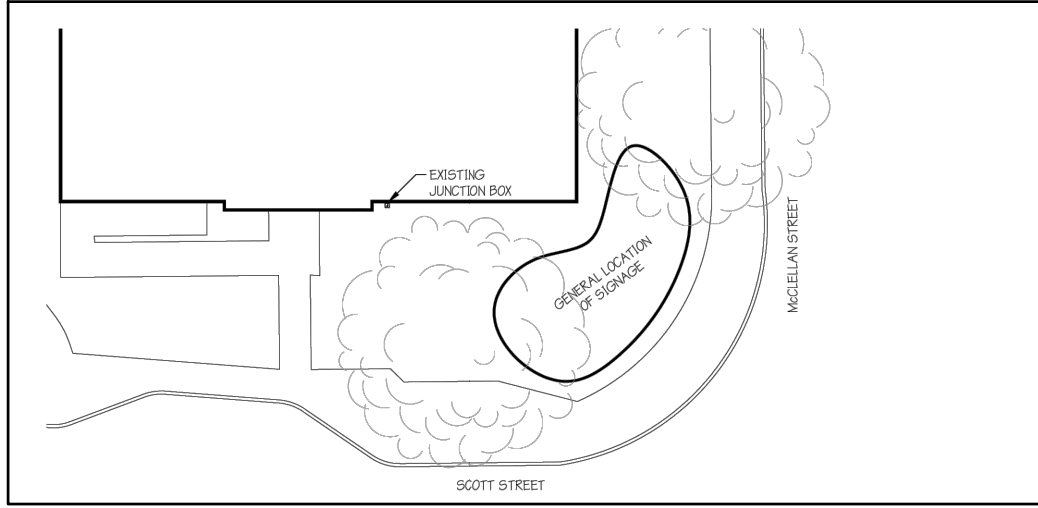
1001 SCOTT STREET
READING, PA 19611

THE ADJACENT LAND USE IS
SINGLE FAMILY HOMES

DEED REFERENCE: 10880118
PARCEL ID. 18530655246465
LOT AREA: 25.06 ACRES

GENERATOR CONCRETE PAD NOTE:
REFER TO THE ARCHITECTURAL AND ELECTRICAL
DRAWINGS FOR THE GENERATOR PAD SIZE.

[illegible]



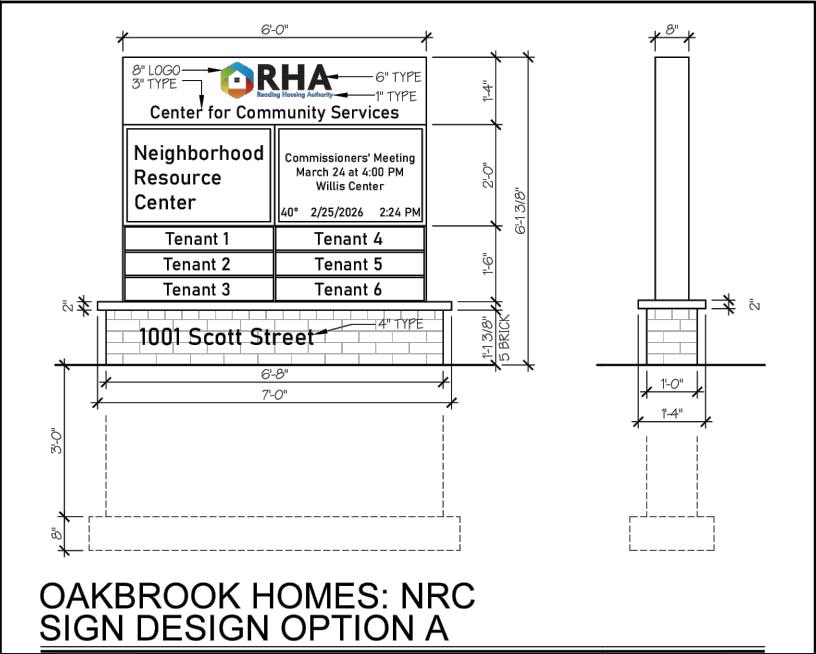
OAKBROOK HOMES NRC
1001 SCOTT STREET
N.T.S

**OAKBROOK HOMES NRC
GENERAL INFORMATION**

SIGN LOCATION:
1001 SCOTT STREET,
READING, PA 19611

WORK TO BE COMPLETED:

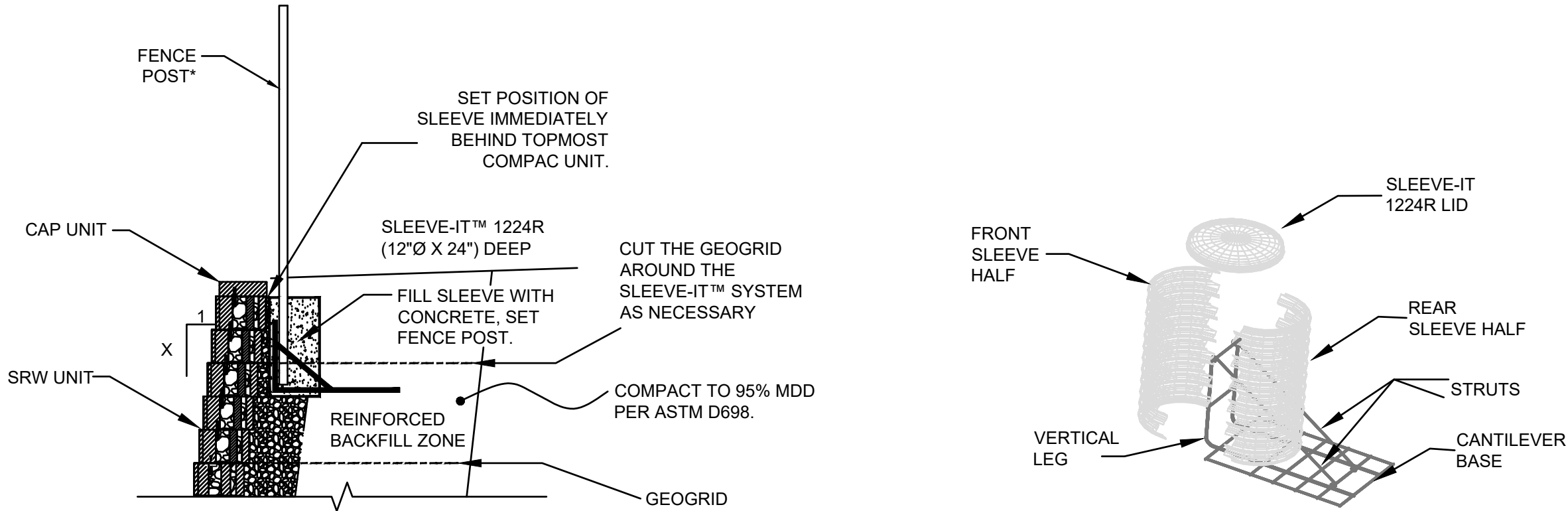
- EXCAVATION FOR, AND POURING OF, NEW MONOLITHIC FOUNDATION
- NEW MASONRY SIGN BASE WITH BRICK VENEER AND CAST STONE CAPS
- ALUMINUM BOX SIGN FOR CENTER NAME
- W/ POST-MOUNTED ACRYLIC LETTERS
- 6 SMALLER MODULAR TENANT PANELS
- AND 1 LARGER MODULAR TENANT PANEL
- ELECTRONIC MESSAGE CENTER
- ADDRESS IN POST-MOUNTED ACRYLIC LETTERS



OAKBROOK HOMES NRC
SIGN DESIGN OPTION A

NOTE:

SIGN TO BE INSTALLED UNDER SEPARATE CONTRACT.



*FENCING SYSTEMS APPROVED FOR USE WITH THE SLEEVE-IT™ 1224R ARE LIMITED TO THE FOLLOWING HEIGHTS: CHAIN LINK - UP TO 8-FT, PRIVACY - UP TO 6-FT (WOODEN, PVC, METAL). POST SIZE 4"X4" MAX.

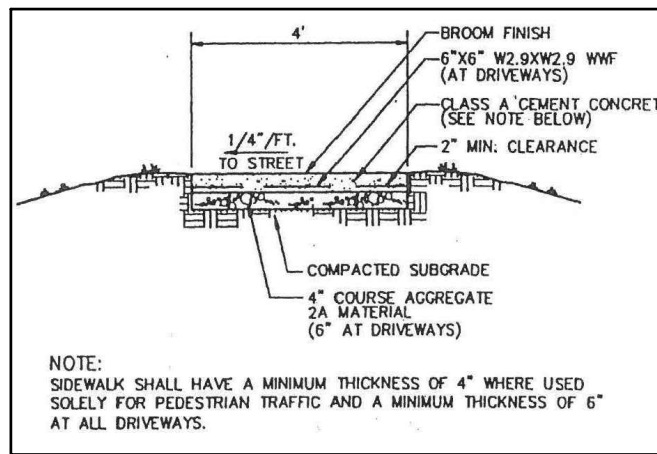
DETAIL OF FENCE POST INSTALLATION USING SLEEVE-IT 1224-R

N.T.S

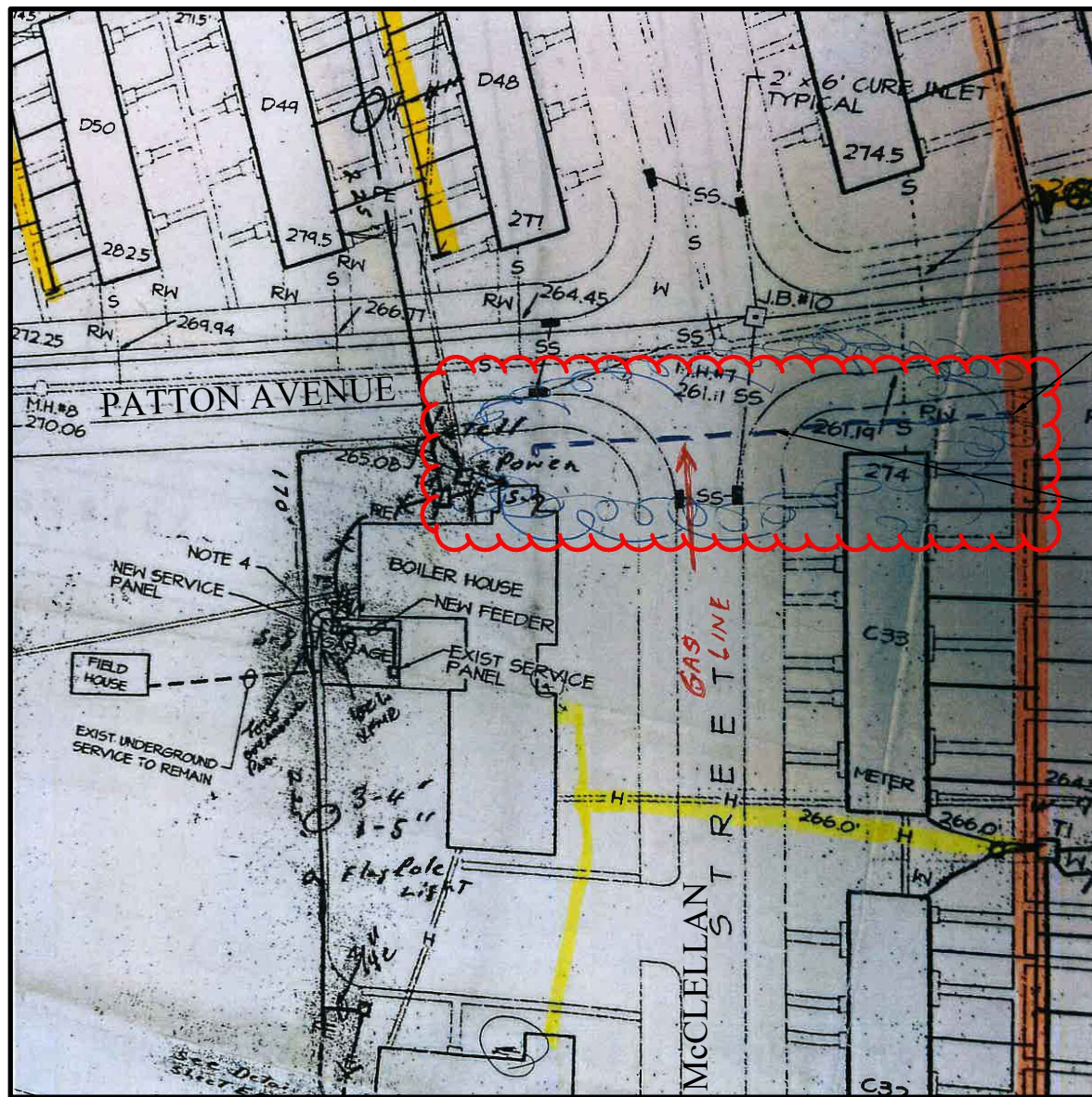
NOTE: MATCH THE SAME RETAINING WALL MATERIAL AS LOCATED AT WILLIS CENTER FOR ADMINISTRATION: 400 HANCOCK BLVD, READING PA. 19611

NOTE:

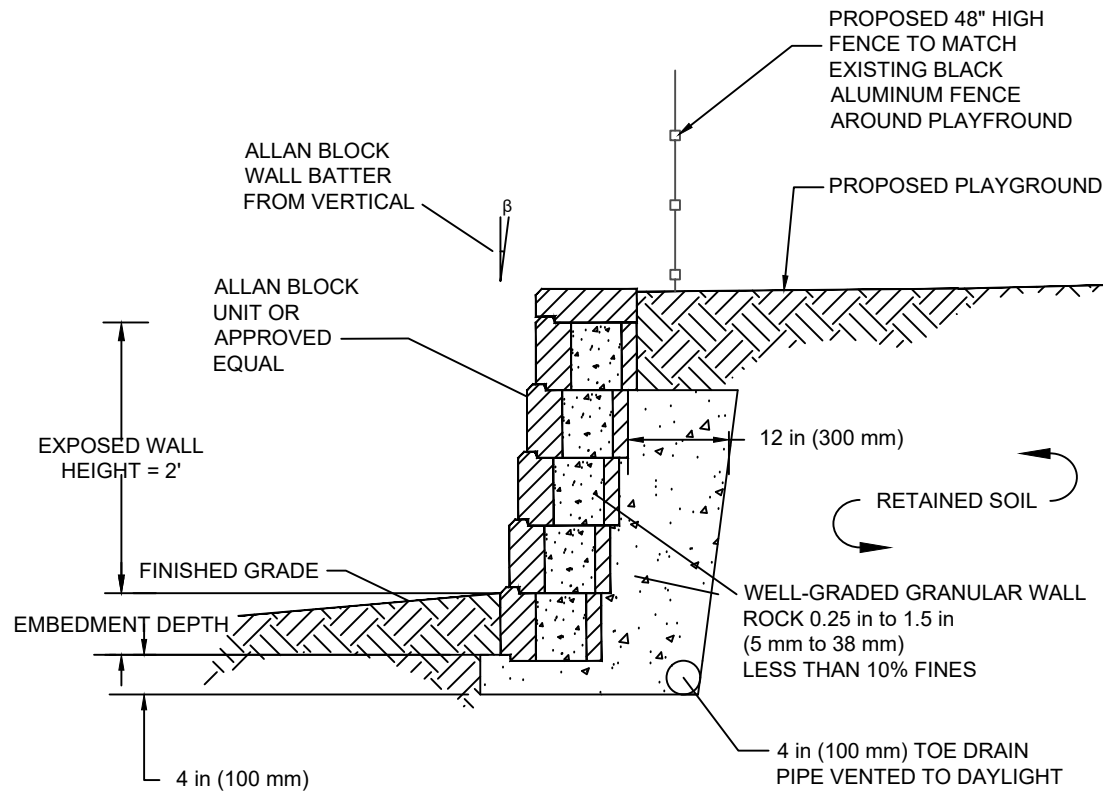
12" TRIPLE RUBBER MATTING WEED SEAL MUST BE INSTALL UNDER ALL FENCING



SIDEWALK DETAIL
NOT TO SCALE



GENERATOR GAS LATERAL PLAN
NOT TO SCALE

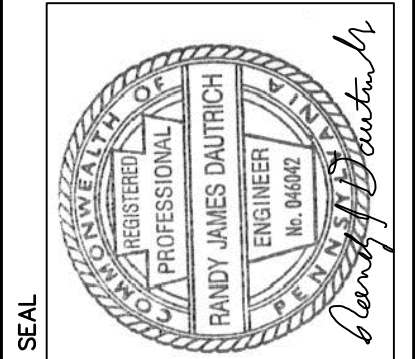
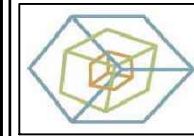


RETAINING WALL DETAIL
N.T.S

NOTE: MATCH THE SAME RETAINING MATERIAL AND FENCE AS LOCATED AT WILLIS CENTER FOR ADMINISTRATION: 400 HANCOCK BLVD, READING PA. 19611

NO	REVISION	DATE	BY
1.	REVISED AS PER BCCD REVIEW COMMENTS DATED 7/22/26	7/29/26	RJD

DAUTRICH ENGINEERING



CIVIL DETAILS	PRELIMINARY/FINAL LAND DEVELOPMENT PLAN OAKBROOK COMMUNITY REC. FIELD IMPROVEMENTS			
	CITY OF READING	BERKS COUNTY	PENNSYLVANIA	CLIENT HAMMEL ASSOCIATES ARCHITECTS, LLC 2000 MARKET STREET LANCASTER, PA 17602
DRAFT:	RJD	DATE:	9/11/26	
CHECK:	RJD	SCALE:	N/A	

JOB NO.	2601
SHEET NO.	3 of 5
DWG. NO.	C.3.0

PAST, PRESENT AND PROPOSED LAND USES

BASED ON HISTORIC AERIAL PHOTOGRAPHY, THE PROJECT AREA WAS PLAYGROUND FOR THE READING HOUSING AUTHORITY. FOR THE LAST FIVE YEARS, THE PROPERTY HAS BEEN USED IN THE SAME CAPACITY. THE PROJECT PROPOSES TO UP DATE THE PLAYGROUND BY ADDING NEW EQUIPMENT, RESTROOMS AND A PAVILION.

SEDIMENT AND EROSION CONTROL NARRATIVE

THE PURPOSE IS TO PREVENT THE ACCELERATED EROSION OF EXPOSED SITE SOILS DURING CONSTRUCTION AND TO RETAIN, ON-SITE, ALL SEDIMENT PRODUCED BY THE PROPOSED CONSTRUCTION. THIS WILL BE ACCOMPLISHED THROUGH THE USE OF FABRIC SILT FENCES, TEMPORARY EROSION CONTROL MEASURES, AND THROUGH THE PROPER PHASING OF EARTHMOVING ACTIVITIES, AND BY THE RAPID STABILIZATION OF ALL DISTURBED AREAS.

SEQUENCE OF CONSTRUCTION

1. ALL EARTH DISTURBANCE ACTIVITY SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED.
2. CLEARLY MARK THE LIMIT OF DISTURBANCE. NO CONSTRUCTION ACTIVITY OR TRAFFIC SHOULD BE PERMITTED OUTSIDE THE LIMIT OF DISTURBANCE OR WITHIN THE INFILTRATION FACILITY AREA.
3. INSTALL STONE CONSTRUCTION ENTRANCE, SILT BARRIERS AND CONCRETE WASHOUTS AS SHOWN ON THE PLAN AND IN THE DETAILS.
4. CLEAR AND GRUB ONLY THE AREAS NECESSARY FOR CONSTRUCTION OF THE IMPROVEMENTS ON THE LOT. THE PROPOSED INFILTRATION BEDS SHALL BE PROTECTED FROM DISTURBANCE DURING CONSTRUCTION.
5. STRIP AND STOCKPILE TOPSOIL AT THE LOCATION SHOWN ON THE PLAN. TOPSOIL STORAGE PILES ARE TO BE COMPLETELY SURROUNDED WITH SILT BARRIER AND SHALL NOT EXCEED 35 FEET WITH SLOPES 2:1 OR FLATTER.
6. BEGIN CONSTRUCTION OF PROPOSED SITE IMPROVEMENTS.
7. CONSTRUCT INSTALL NEW PLAYGROUND EQUIPMENT, RESTROOMS AND PAVILION.
8. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE PROPERLY MAINTAINED. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH RUNOFF EVENT AND AT A MINIMUM ON A WEEKLY BASIS. ALL PREVENTATIVE AND CORRECTIVE MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING, MUST BE PERFORMED IMMEDIATELY.
9. AFTER 70% UNIFORM VEGETATIVE COVER HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED, UNBLOCK YARD DRAIN. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED.

ANTICIPATED START OF CONSTRUCTION - FALL 2026
ANTICIPATED FINAL STABILIZATION - FALL 2026

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS SHOWN ON THE PLANS.

UNTIL THE SITE IS FULLY STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL CONTROLS AFTER EACH STORM AND ON A WEEKLY BASIS.

NOTE:
SEDIMENT BARRIERS (I.E., SILT SOCK) SHALL BE INSTALLED BELOW ALL AREAS DISTURBED FOR THE ESTABLISHMENT OF LAWNS AND SHALL BE MAINTAINED UNTIL THE LAWN HAS BEEN PERMANENTLY STABILIZED.

E&S LEGEND

- 12" COMPOST FILTER SOCK
- ROCK CONSTRUCTION ENTRANCE
- L.O.D. - LIMIT OF DISTURBANCE
- SOIL TYPES

THE AREA OF DISTURBANCE = 17,497 SF, 0.4017 AC

NOTE 1: ALL DISTURB AREAS ARE TO BE COVERED WITH S75BN EROSION MAT AS PER DETAIL ON PLAN SHEET C.4.1

LEGEND:

- Contour
- Manhole (Sanitary)
- Sign
- Utility Pole (w/ Guy Wire)
- Light Pole
- Edge of Macadam
- Concrete Curb
- Storm Line
- Gas Line
- Sanitary Line
- Water Line
- Underground Electric
- U/G Communication
- Fence
- Down Spout
- Benchmark

Deciduous Tree

Coniferous Tree

INFILTRATION TEST & SOIL PROBE

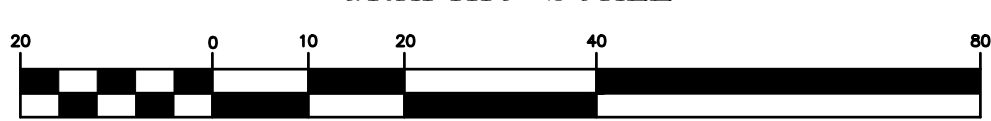
PROP. LAMP POST

PROP. WALL PACK LIGHT

PROP. TRAFFIC CONTROL SIGN

PROP. YARD DRAIN

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

SYMBOL	DESCRIPTION	DEPTH TO RESTRICTIVE FEATURE	NATURAL DRAINAGE CLASS	DEPTH TO WATER TABLE	HYDROLOGIC SOIL GROUP	HYDRIC SOIL RATING
UgB	URBAN LAND, 0-8% SLOPES	N/A	N/A	N/A	N/A	NO

SOIL INFORMATION TAKEN FROM UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCE CONSERVATION DISTRICT, WEB SOIL SURVEY

SOIL LIMITATIONS:

THE DEEPEST EXCAVATION WILL BE FOR THE FOUNDATION FOR THE NEW STEEL COLUMNS. THE DEPTH TO BEDROCK MAY AFFECT HOW THE FOUNDATION IS EXCAVATED. A HYDRAULIC HAMMER MAY HAVE TO BE USED.

THERMAL IMPACT ANALYSIS

THE POTENTIAL FOR THERMAL IMPACTS IS PRESENT DUE TO THE REMOVAL OF PROJECT SITE VEGETATION AND STORM WATER FLOWS OVER SURFACES WITH ELEVATED TEMPERATURES SUCH AS BARE EARTHWORK AREAS AND IMPERVIOUS SURFACES.

POTENTIAL THERMAL IMPACTS TO SURFACE WATERS WILL BE MINIMIZED BY MINIMIZING CLEARING AND RETAINING EXISTING VEGETATION WHERE POSSIBLE. BARE EARTHWORK AREAS/DISTURBED AREAS WILL BE CONTROLLED BY EROSION CONTROL MEASURES. RUNOFF FROM THE MAJORITY OF THE DISTURBED AREAS WILL FLOW TO COMPOST FILTER SOCKS. COMPOST FILTER SOCKS WILL PROVIDE SHEET FLOW THROUGH THE SOCK AND REMOVE SEDIMENT FROM THE RUNOFF. THE DISTURBED AREAS WILL BE RESEED AS SOON AS POSSIBLE FOLLOWING CONSTRUCTION. THESE MEASURES WILL MITIGATE THERMAL IMPACTS BY ALLOWING RUNOFF TO SLOW DOWN LEAVING THE SITE THEREBY REDUCING THERMAL IMPACTS FROM THE SITE DURING CONSTRUCTION. ADDITIONALLY, DOWNSTREAM AREAS LOCATED BETWEEN THE RECEIVING SURFACE WATERS AND THE BARE EARTHWORK AREAS AND/OR IMPERVIOUS SURFACES ARE VEGETATED AND/OR WOODED WHICH WILL FURTHER FILTER AND COOL THE RUNOFF PRIOR TO THESE FLOWS ENTERING THE WATERWAY.

THE MAJORITY OF THE IMPERVIOUS SURFACES WILL BE DIRECTED TO THE PROPOSED STORMWATER MANAGEMENT FACILITIES. ANY RUNOFF THAT MAY BE WARMED BY IMPERVIOUS SURFACES WILL BE COOLED AS IT IS CONVEYED TO THE STONE STORAGE AREA BELOW GRADE OR ACROSS THE VEGETATED AREAS. THIS RUNOFF WILL INFILTRATE INTO THE GROUND AND WILL BE COOLED. THE EXISTING CONDITION OF THE PROJECT SITE IS MEADOW. THE PROJECT PROPOSES TO PROTECT AS MUCH EXISTING VEGETATED AREAS AS PRACTICAL. SITE RUNOFF THAT IS NOT COLLECTED BY THE SITE'S STORMWATER MANAGEMENT FACILITIES WILL FLOW OVER EXISTING, STABILIZED VEGETATED AREAS WHICH WILL ALLOW THE RUNOFF TO COOL PRIOR TO ENTERING THE STREAM.

EROSION AND SEDIMENTATION CONTROL NARRATIVE

THE E&S PLANS PREPARED FOR THIS PROJECT MINIMIZE THE EXTENT AND DURATION OF EARTH DISTURBANCE TO THE GREATEST EXTENTS POSSIBLE THROUGH A DETAILED SEQUENCE OF CONSTRUCTION.

THE E&S PLANS PREPARED FOR THIS PROJECT MAXIMIZE THE PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION. THE PROPOSED IMPROVEMENTS HAVE BEEN SITUATED TO AVOID DISTURBANCE TO EXISTING DRAINAGE FEATURES AND THE PROPOSED SITE DISTURBANCE HAS BEEN KEPT TO A MINIMUM. EXISTING VEGETATION WILL BE PROTECTED, AS MUCH AS PRACTICAL, DURING SITE DEVELOPMENT.

THE E&S PLANS WILL MINIMIZE SOIL COMPACTION ON THE PROJECT SITE.

THE E&S PLANS USE SEVERAL EROSION CONTROL MEASURES TO PREVENT OR MINIMIZE GENERATION OF INCREASED STORMWATER RUNOFF. THESE MEASURES INCLUDE SILT SOCKS, EROSION CONTROL AND RAPID STABILIZATION PRACTICES.

PATTON AVENUE
ONE WAY

SAINTARY MAIN

30' CARTRIDGE (TYP.)

CONCRETE SIDEWALK

PROPOSED 2' HIGH LANDSCAPE WALL

PROPOSED FENCE

TOPSOIL STOCKPILE

CONCRETE WASHOUT

NEW GENERATOR PAD

RECEIVING WATER/WATERSHED NAME:

WYOMISSING CREEK: CHAPTER 93 CLASSIFICATION: CWF, MF.

ZONING REQUIREMENT

R-3 RESIDENTIAL DISTRICT

PERMITTED USE: PUBLIC PARKS AND LOW-RISE APARTMENTS

REQUIRED EXISTING

5,500 SF 1,091,613.6 SF

30 FT N/A FT

MIN. FRONT YARD SETBACK 5 FT. N/A FT.

MIN. SIDE YARD SETBACK 6 FT. N/A FT.

MIN. REAR YARD SETBACK 20 FT. N/A FT.

MAX. BUILDING HEIGHT (PRINCIPAL) 35 FT. 35 FT.

MAX. BUILDING COVERAGE 60% 80%

MAX. IMPERVIOUS COVERAGE 80%

PROPERTY OWNER

READING HOUSING AUTHORITY

1301 SCHUYLKILL AVENUE

READING, PA 19611

ADJACENT LAND USES:

THE ADJACENT LAND USE IS ATTACHED SINGLE FAMILY HOMES

PROPERTY INFORMATION

1001 SCOTT STREET

READING, PA 19611

DEED REFERENCE: 10880118

PARCEL ID. 18530655246465

LOT AREA: 25.06 ACRES

RECEIVING WATER/WATERSHED NAME:

WYOMISSING CREEK: CHAPTER 93 CLASSIFICATION: CWF, MF.

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EROSION CONTROL GENERAL NOTES

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE WRITTEN IN WRITING FROM THE LOCAL CONSERVATION DISTRICT, THE DEPARTMENT OR THE APPROPRIATE REVIEWING AGENCY PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND/OR FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S). THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT, THE REGIONAL OFFICE OF THE DEPARTMENT OR THE APPROPRIATE REVIEWING AGENCY.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROJECT OWNER FOR ALL FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE ON TO ANY ROAD.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORKDAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN, IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES. 6 TO 12 INCHES ON COMPACTED SOILS --- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUT SLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDD AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS, DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH MAY BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.

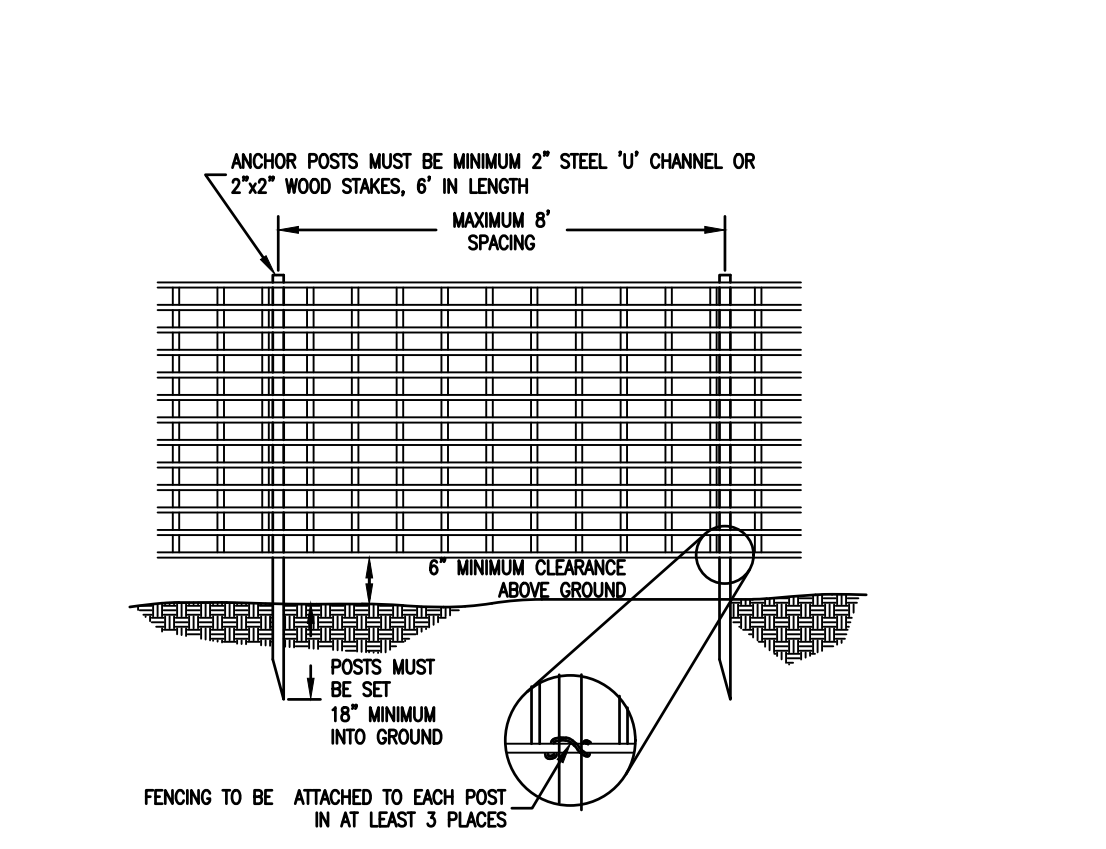
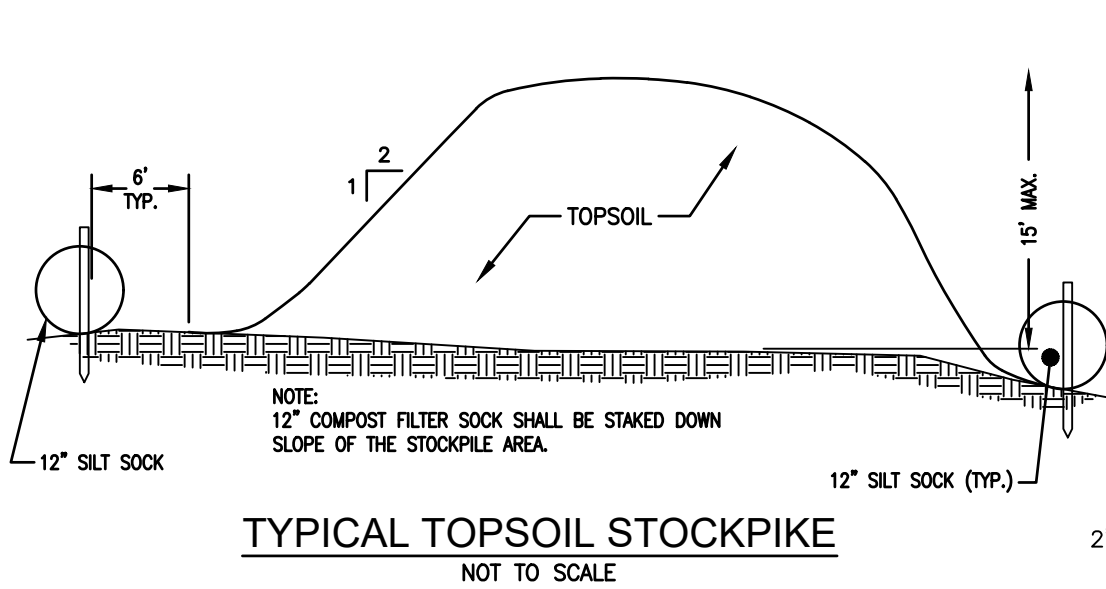
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT, THE DEPARTMENT OR THE APPROPRIATE REVIEWING AGENCY.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT OR THE APPROPRIATE REVIEWING AGENCY FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT OR THE APPROPRIATE REVIEWING AGENCY TO SCHEDULE A FINAL INSPECTION.
- FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

ADDITIONAL MAINTENANCE NOTES (IF APPLICABLE)

- CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
- UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
- SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
- SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES.
- ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL INSPECTOR, LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
- FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS.

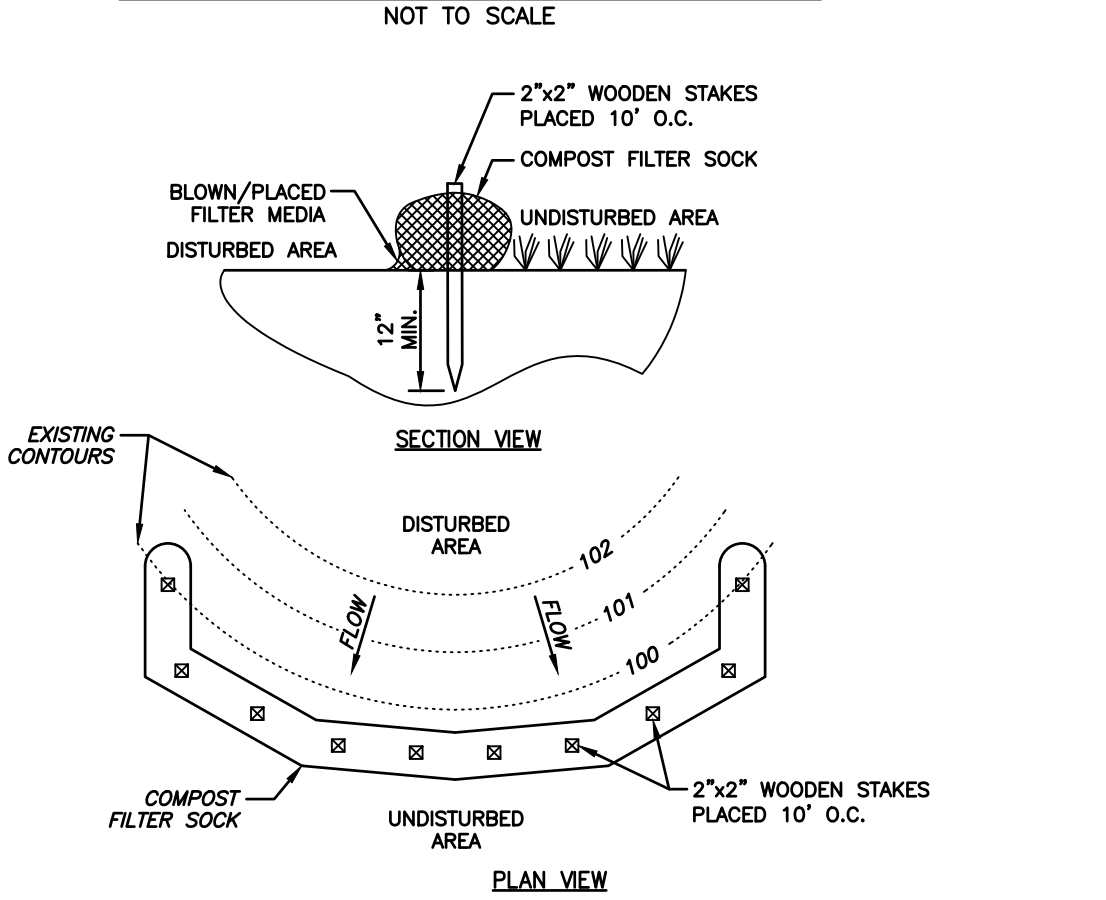
MAINTENANCE PROGRAM NOTES

- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL SITE REVISIONS MUST BE DOCUMENTED IN AN INSPECTION LOG. THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION MUST BE NOTED. THE INSPECTION LOG WILL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE UPON REQUEST.
- POST-STORM EVENT INSPECTIONS SHALL BE CONDUCTED WITHIN 24 HOURS AFTER EACH MEASURABLE STORM EVENT (0.25 INCH OR GREATER) OR THE OCCURRENCE OF SNOWFALL SUFFICIENT TO CAUSE A DISCHARGE. INDICATE THIS MEASURABLE STORM EVENT ON THE PLAN DRAWINGS.
- THE PROPERTY OWNER IS REQUIRED TO REMEDY ANY DEFICIENCY IDENTIFIED DURING THE INSPECTION PROCESS IN A REASONABLE TIME FRAME. IF A REASONABLE TIME FRAME IS NOT SPECIFIED BY THE INSPECTOR TO REMEDY THE DEFICIENCY, THEN THE TIME FRAME SHALL BE 30 DAYS DEPENDENT UPON WEATHER CONDITIONS. BASED UPON THE DEFICIENCY IDENTIFIED, THE TIME FRAME CAN BE LONGER OR SHORTER THAN 30 DAYS.
- WHERE BMPS ARE FOUND TO FAIL TO ALLEVATE EROSION AND SEDIMENTATION POLLUTION, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION:
 - THE LOCATION AND SEVERITY OF THE BMP'S FAILURE AND ANY POLLUTION EVENTS
 - ALL STEPS TAKEN TO REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE
 - THE TIME FRAME TO CORRECT THE NON-COMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.
- ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE NEEDED.
- SEDIMENT SHALL BE REMOVED FROM STORMWATER BMP'S WHEN IT HAS ACCUMULATED TO A DEPTH OF 6 INCHES. COLLECTED SEDIMENT SHALL BE SPREAD ELSEWHERE (IN AREAS UNDER CONSTRUCTION) DURING CONSTRUCTION AND STABILIZATION. SEEDING AND MULCHING OF SLOPES SHALL CONFORM TO THE RECOMMENDATIONS WITHIN OR APPROVED EQUAL. TOPSOIL (MINIMUM 6 INCHES) SHALL BE PLACED PRIOR TO SEEDING.
- VEGETATION SHALL BE MOWED WHENEVER NECESSARY TO MAINTAIN A PLEASING APPEARANCE AND DISCOURAGE WEED GROWTH. ALL LOCAL REGULATIONS WILL BE COMPLIED WITH.
- SEEDD AREAS THAT HAVE WASHED AWAY SHALL BE FILLED AND GRADED AS NECESSARY AND THEN RESEDED. A BURLAP OR STRAW COVER WILL BE APPLIED AT A RATE OF 3 TONS/ACRE TO RETAIN THE SEED UNTIL IT HAS A CHANCE TO ROOT PROPERLY. THIS PROCEDURE SHALL BE REPEATED AFTER EACH SIZEABLE STORM UNTIL NO MORE SIGNS OF EROSION ARE EVIDENT. AT WEEKLY INTERVALS THEREAFTER, INSPECTION AND NECESSARY CLEANING WILL BE DONE. PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE DONE IMMEDIATELY.
- ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AT COMPLETION OF THE PROJECT. AFTER ALL EXPOSED SOIL SURFACES ARE FINISH-GRADED AND STABILIZED.
- PERMANENT EROSION CONTROL MAINTENANCE WILL CONSIST OF MAINTAINING THE STORMWATER MANAGEMENT BMPS IN ACCORDANCE WITH THE PCSM PLAN OPERATIONS AND MAINTENANCE NOTES. THE PERMANENT FACILITIES MAINTENANCE WILL BE THE RESPONSIBILITY OF THE LANDOWNER.
- THE RESPONSIBLE PARTY MUST DOCUMENT EACH SITE INSPECTION ON DEP'S CHAPTER 102 VISUAL SITE INSPECTION REPORT (3800-FM-BCW0271D) OR ALTERNATIVE DOCUMENT OR ELECTRONIC FORM THAT COLLECTS AND RETAINS IDENTICAL INFORMATION BEGINNING DECEMBER 8, 2025. VISUAL SITE INSPECTION REPORTS MUST BE COMPLETED BY QUALIFIED PERSONNEL.



- PROTECTION BARRIER SHALL BE 4' HIGH, CONSTRUCTED OF DURABLE AND HIGHLY VISIBLE MATERIAL (PLASTIC ORANGE CONSTRUCTION FENCE OR SNOW FENCE MAY BE USED).
- PROTECTION BARRIERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK AT THE SITE.
- ADDITIONAL WARNING SIGNS SHOULD ALSO BE PLACED ON THE FENCING AND IN APPROPRIATE AREAS NEAR THE WORK ZONE.

ORANGE CONSTRUCTION FENCING



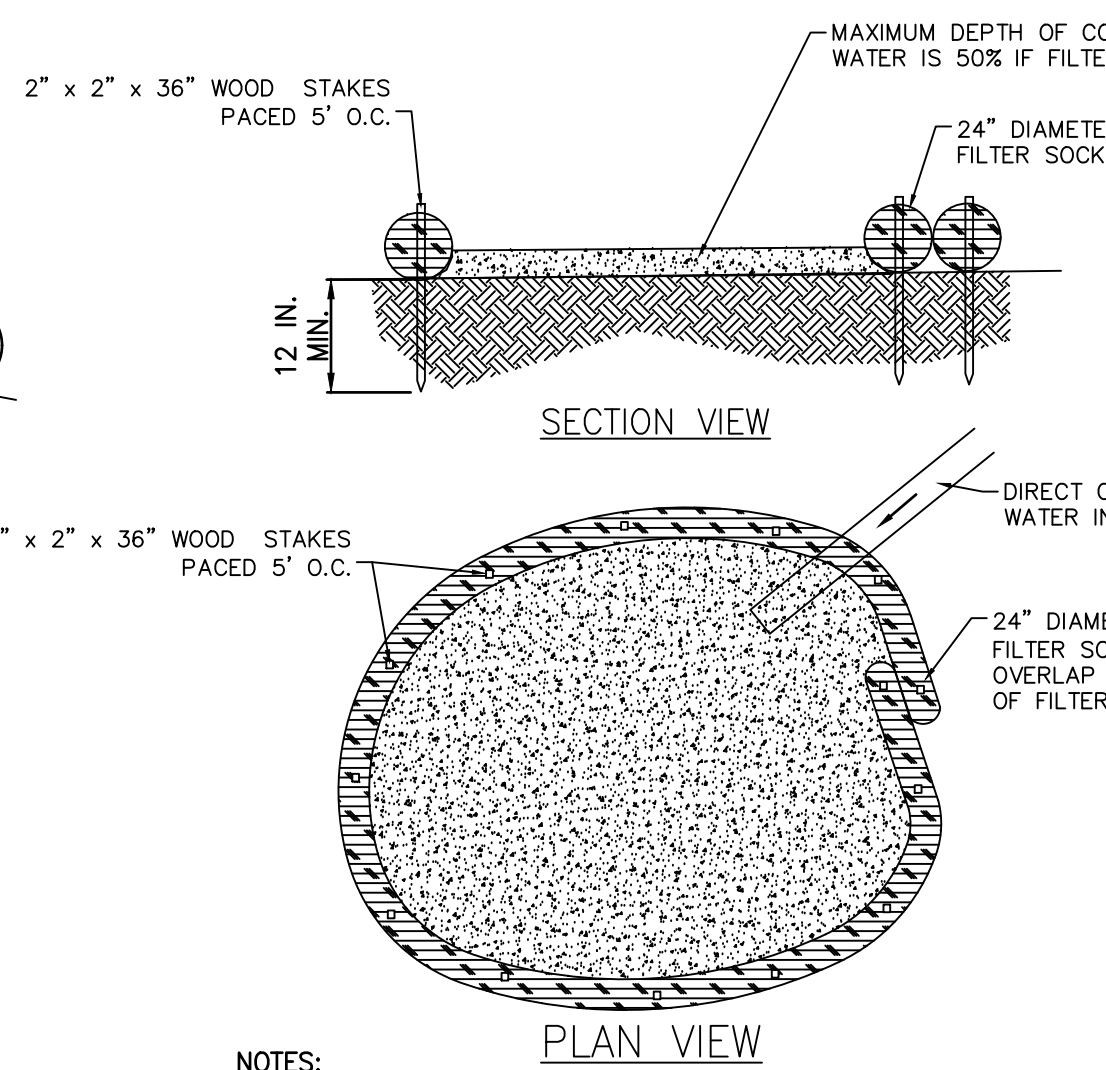
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SLOPE ALIGNMENT (FIGURE 4.1). MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 4.2. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

FILTER SOCK CALCULATIONS				
ID	SIZE	SOCK LENGTH	SLOPE LENGTH	SLOPE
FS1	12"	114'	167'	1%
FS2	12"	45'	14'	2%
FS3	12"	17'	10'	20%

COMPOST FILTER SOCK

EROSION AND SEDIMENTATION CONTROL NOTES

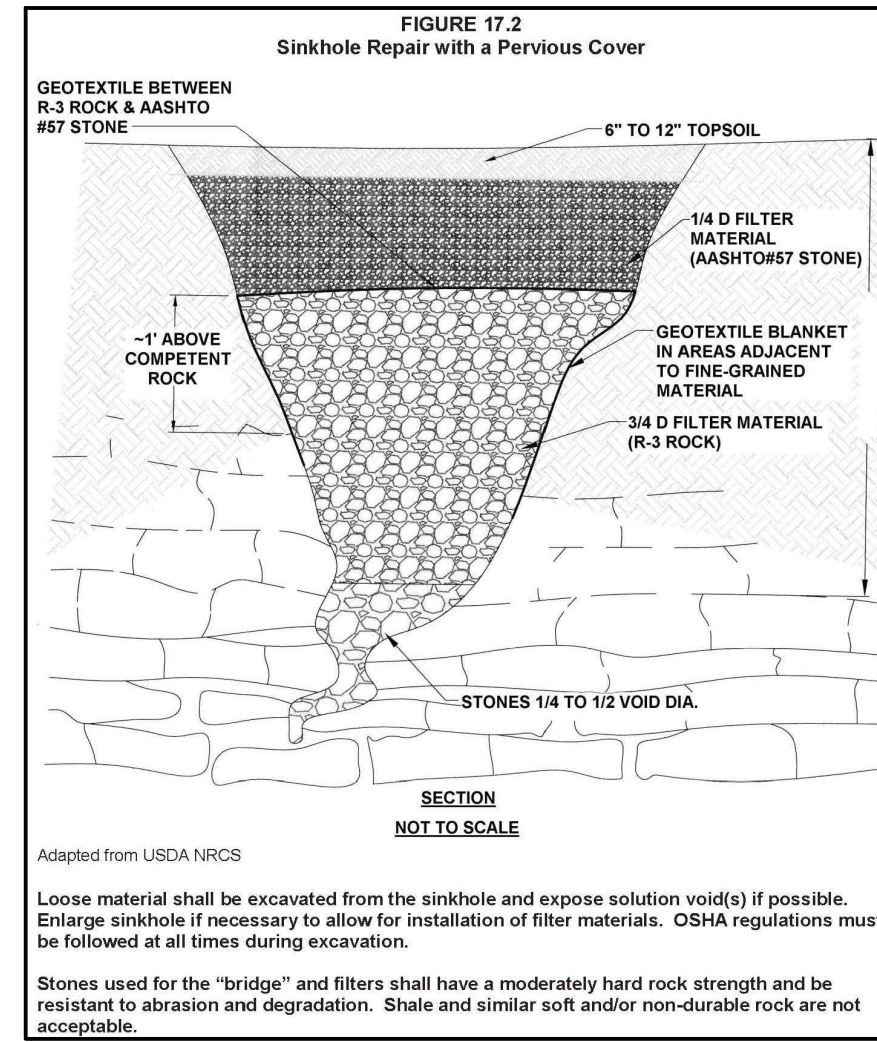
- BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E & S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE CHESTER COUNTY CONSERVATION DISTRICT. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- ALL SLOPES 3H:1V OR STEEPER AS WELL AS ALL DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER SHALL BE STABILIZED WITH E&S BLANKETING.
- UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY THAT WILL EXCEED 4 DAYS, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY WYED DUE TO THE SPW OF THE RECEIVING SECTION OF THE WYOMISSING CREEK. STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION.



NOTES:

- A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
- INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
- 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
- CONCRETE WASHOUT RECYCLING, TREATMENT, AND DISPOSAL OF MATERIALS FROM CONCRETE TRUCK CHUTES, HAND MIXERS, AND/OR OTHER EQUIPMENT IS TO BE SEPARATED BY A SCREEN AND PLACED IN AGGREGATE BINS TO BE HARDENED FOR RETURN TO THE READY MIX PLANT ALONG WITH ANY UNUSED CONCRETE. UNUSED WET CONCRETE CANNOT BE DUMPED ON BARE GROUND TO HARDEN ON-SITE BECAUSE THIS PRACTICE CAN NEGATIVELY IMPACT GROUNDWATER AND SURFACE WATER.

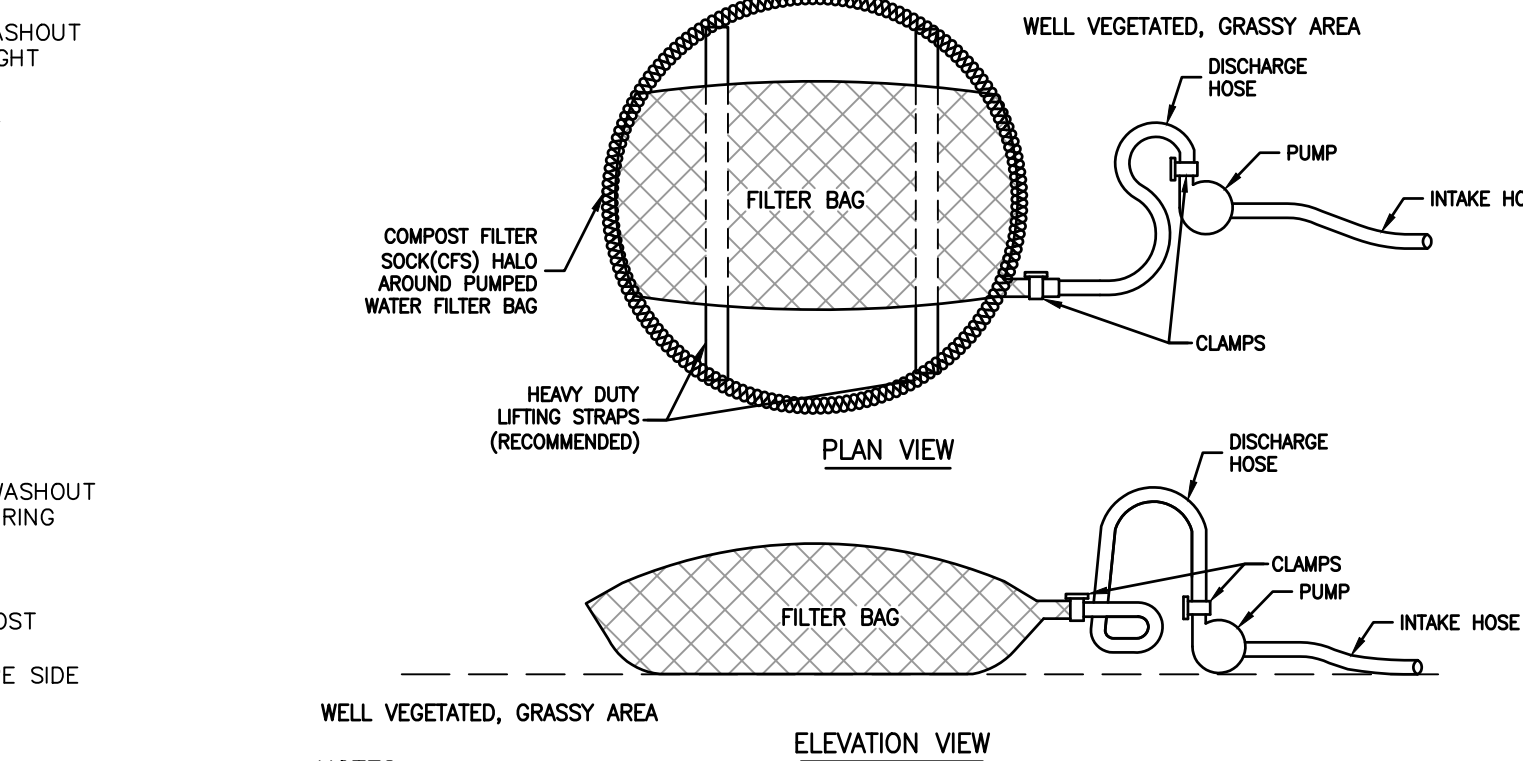
COMPOST SOCK CONCRETE WASHOUT



SINKHOLE REPAIR DETAIL

SINKHOLE NOTE:

IMMEDIATE REPAIR OF ANY SINKHOLES IS REQUIRED



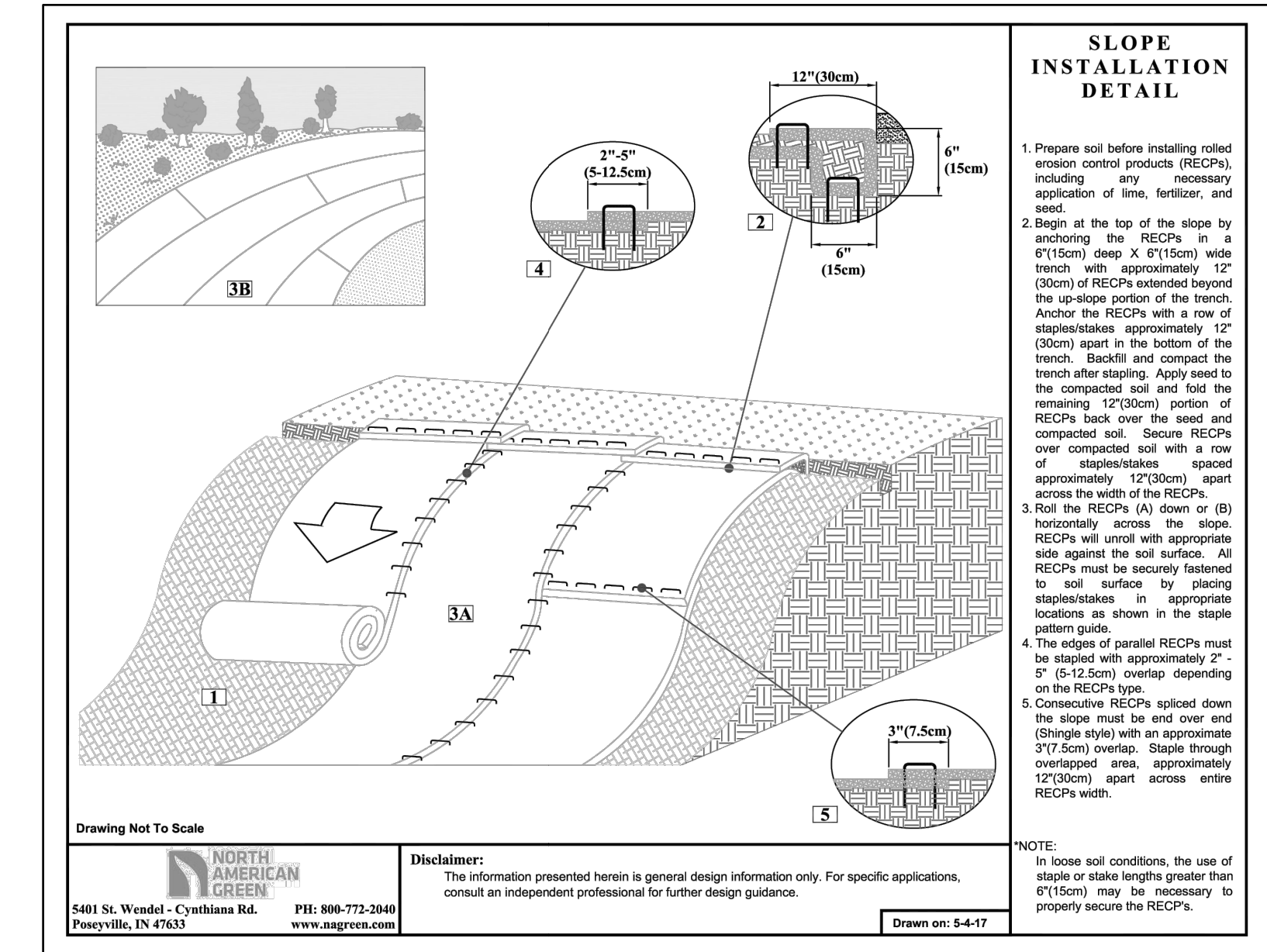
NOTES

- LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE, STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AGS % RETAINED	ASTM D-4751	80 SIEVE

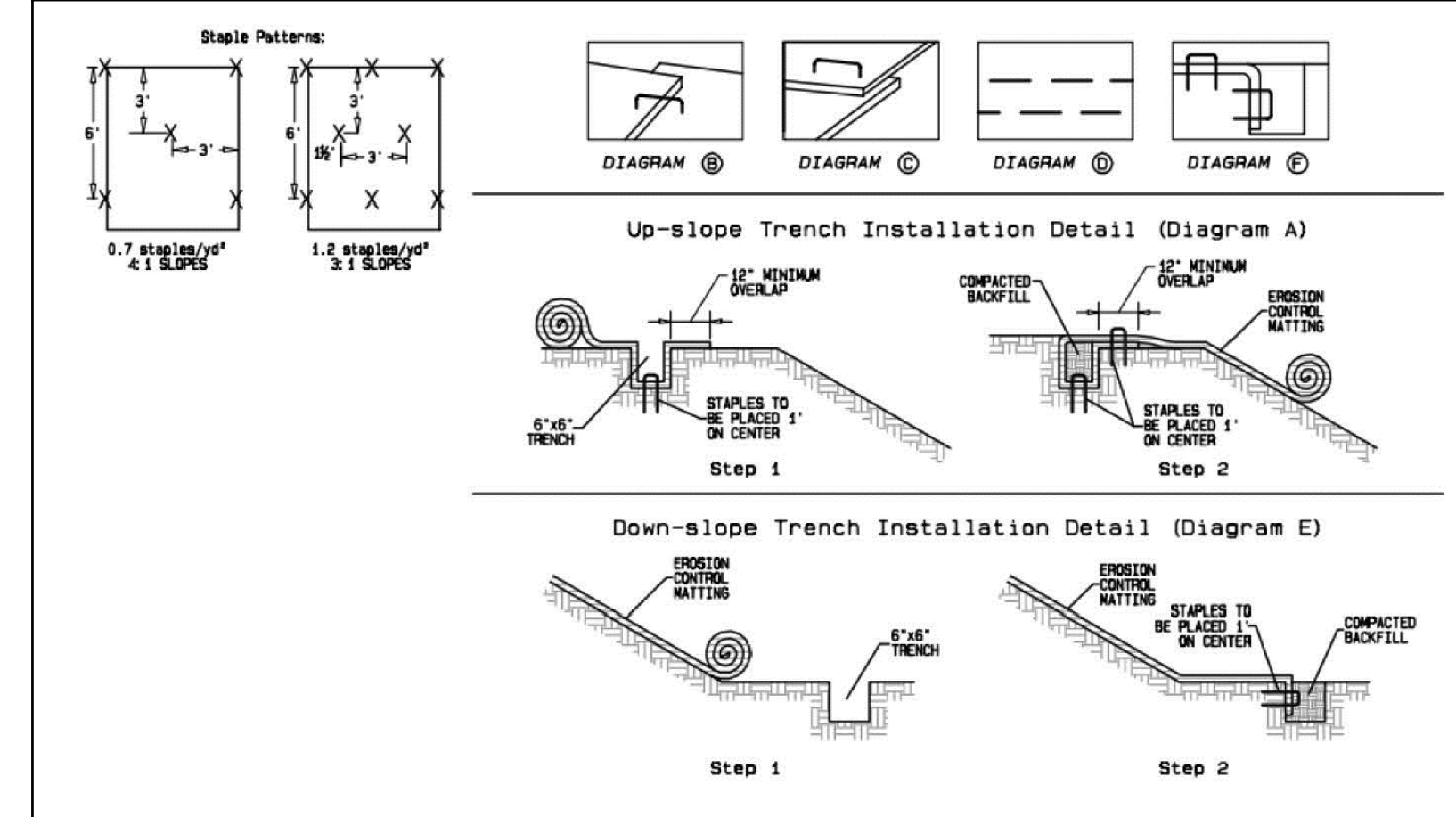
- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
- BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 2% FOR SLOPES EXCEEDING 2% CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
- NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN H2O OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
- THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
- THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
- FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG



EROSION CONTROL BLANKET NOTES

- SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
- PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS, AND GRASS.
- BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
- THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGE OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DATES.



DAUTRICH ENGINEERING

261 Preston Road
Wernersville, Pennsylvania 19685
Phone 610-413-0664
email: dautrich@peid.net

PROFESSIONAL ENGINEER
PA 00402
PA 00402

EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN
OAKBROOK COMMUNITY REC. FIELD IMPROVEMENTS

CITY OF READING BERKS COUNTY PENNSYLVANIA

CLIENT
HAMMILL ASSOCIATES ARCHITECTS,LLC
2500 MARKET STREET
LANCASTER, PA 17602

DATE: 9/11/26
SCALE: N/A

DRAFT: RJD
CHECK: RJD

JOB NO. 2601

SHEET NO. 5 of 5

DWG. NO. C.4.1

1. REVISED AS PER BCCD REVIEW COMMENTS DATED 7/22/26

REVISION

DATE

BY

RJD

7/29/26

NO



Reading Housing Authority Playground
Reading, PA
26-19238A

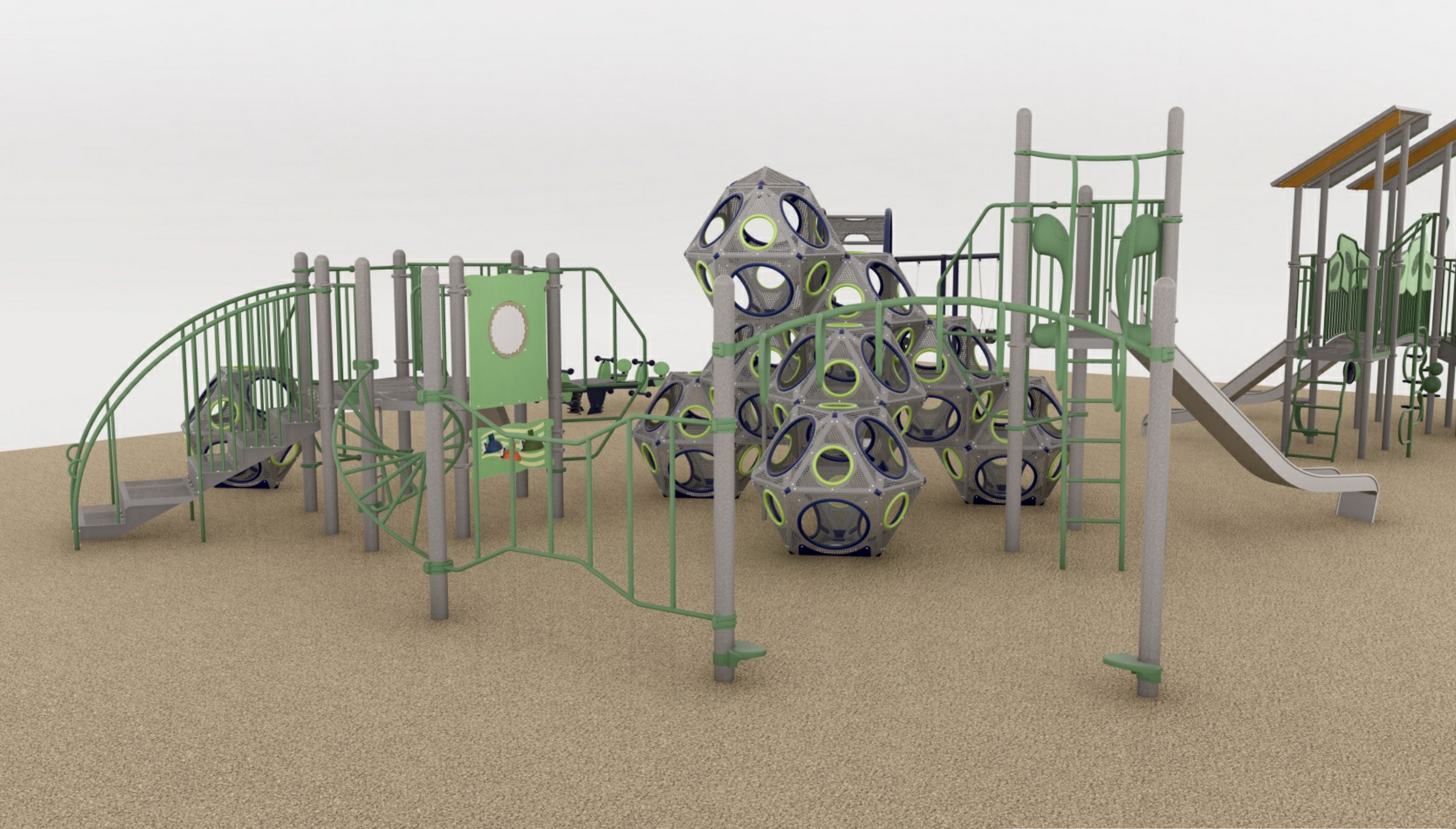
Sales Representative

George
Ely
ASSOCIATES
Active, Park & Playground Equipment

Equipment Manufacturer


The world needs play.

POST & COMPONENT	ROTOMOLD PLASTIC	2-COLOR PLASTIC	PLASTISOL
 Metallic Gray	 Cobalt	 Cobalt-Sand	 Gray
 Cobalt	 Green	 Lime-Sand	
 Blue	 Brownstone	 Blue-Sand	
 Green	 Lime		
			ROPE
			 Black



Reading Housing Authority Playground

Reading, PA

26-19238A

Sales Representative

George

Ely

ASSOCIATES

Active, Park, & Playground Equipment

Equipment Manufacturer

PLAYWORLD

The world needs play.

POST & COMPONENT	ROTOMOLD PLASTIC	2-COLOR PLASTIC	PLASTISOL
Metallic Gray	Cobalt	Cobalt-Sand	Gray
Cobalt	Green	Lime-Sand	
Blue	Brownstone	Blue-Sand	
Green	Lime		
			ROPE
			Black



Reading Housing Authority Playground
Reading, PA
26-19238A

Sales Representative

George
Ely
ASSOCIATES
Active, Park & Playground Equipment

Equipment Manufacturer

PLAYWORLD
The world needs play.

POST & COMPONENT	ROTOMOLD PLASTIC	2-COLOR PLASTIC	PLASTISOL
Metallic Gray	Cobalt	Cobalt-Sand	Gray
Cobalt	Green	Lime-Sand	ROPE Black
Blue	Brownstone	Blue-Sand	
Green	Lime		



Reading Housing Authority Playground

Reading, PA

26-19238A

Sales Representative

George

Ely

ASSOCIATES

Architect, Park, & Playground Equipment

Equipment Manufacturer

 **PLAYWORLD**

The world needs play.

POST & COMPONENT	ROTOMOLD PLASTIC	2-COLOR PLASTIC	PLASTISOL
 Metallic Gray	 Cobalt	 Cobalt-Sand	 Gray
 Cobalt	 Green	 Lime-Sand	
 Blue	 Brownstone	 Blue-Sand	
 Green	 Lime		
			ROPE
			 Black



Reading Housing Authority Playground

Reading, PA

26-19238A

Sales Representative



Equipment Manufacturer



POST & COMPONENT	ROTOMOLD PLASTIC	2-COLOR PLASTIC	PLASTISOL
Metallic Gray	Cobalt	Cobalt-Sand	Gray
Cobalt	Green	Lime-Sand	
Blue	Brownstone	Blue-Sand	
Green	Lime		
			ROPE
			Black



Reading Housing Authority Playground

Reading, PA

26-19238A

Sales Representative



Equipment Manufacturer



POST & COMPONENT

- Metallic Gray
- Cobalt
- Blue
- Green

ROTOMOLD PLASTIC

- Cobalt
- Green
- Brownstone
- Lime

2-COLOR PLASTIC

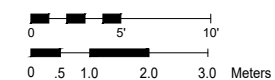
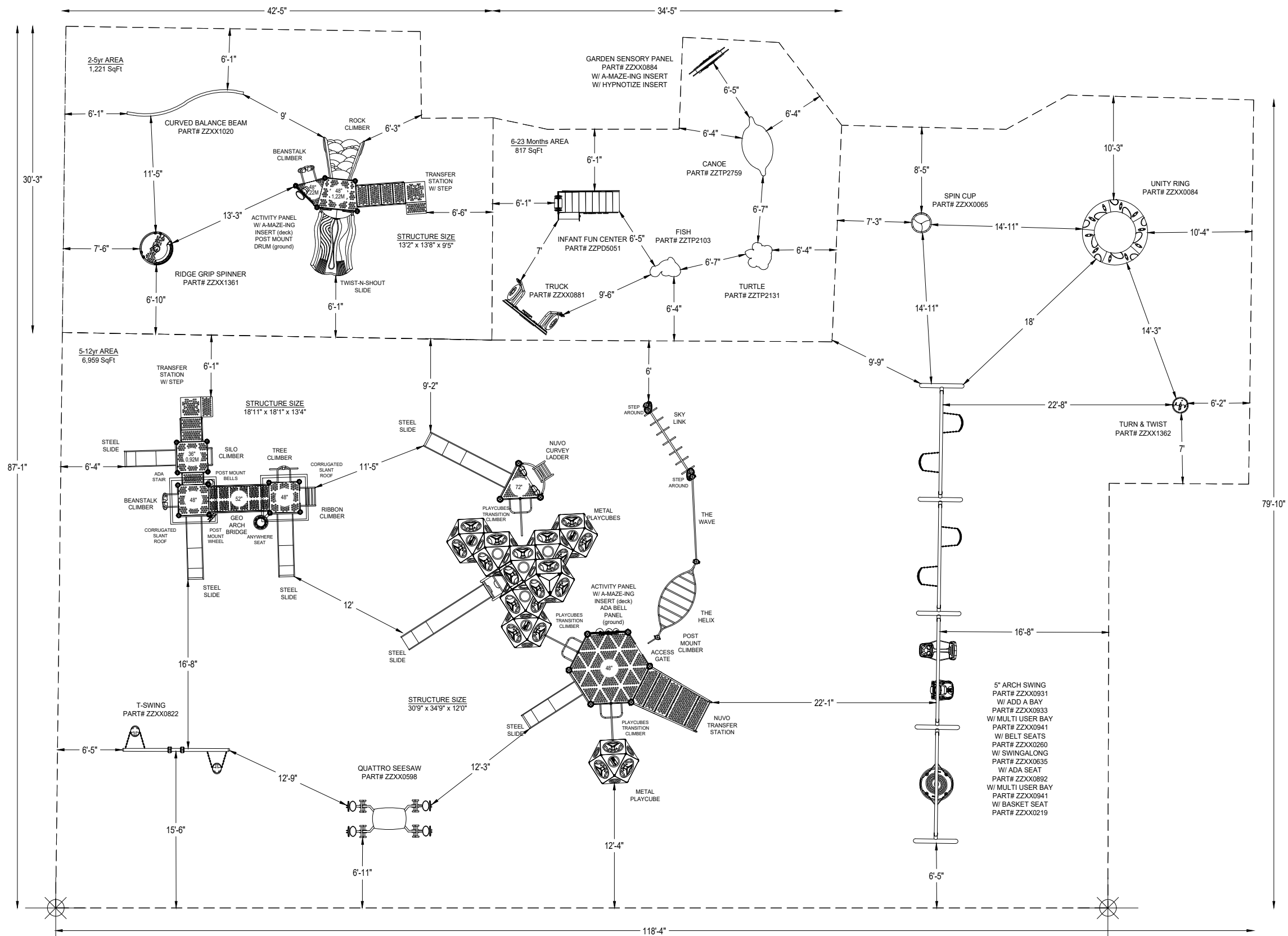
- Cobalt-Sand
- Lime-Sand
- Blue-Sand

PLASTISOL

- Gray

ROPE

- Black



*PLAYGROUND SUPERVISION REQUIRED



GEORGE ELY ASSOCIATES
P.O. Box 396
Carlisle, PA 17013

EQUIPMENT SIZE:
SEE DWG

USE ZONE:
SEE DWG

AREA:
SEE DWG

PERIMETER:
SEE DWG

FALL HEIGHT:
8'6"

USER CAPACITY:
175

AGE GROUP:
2-12

✓ ASTM F1487-25



PROJECT NO:
26-19238A

SCALE:
3/32"=1'-0"

DRAWN BY:
J.HOUSER

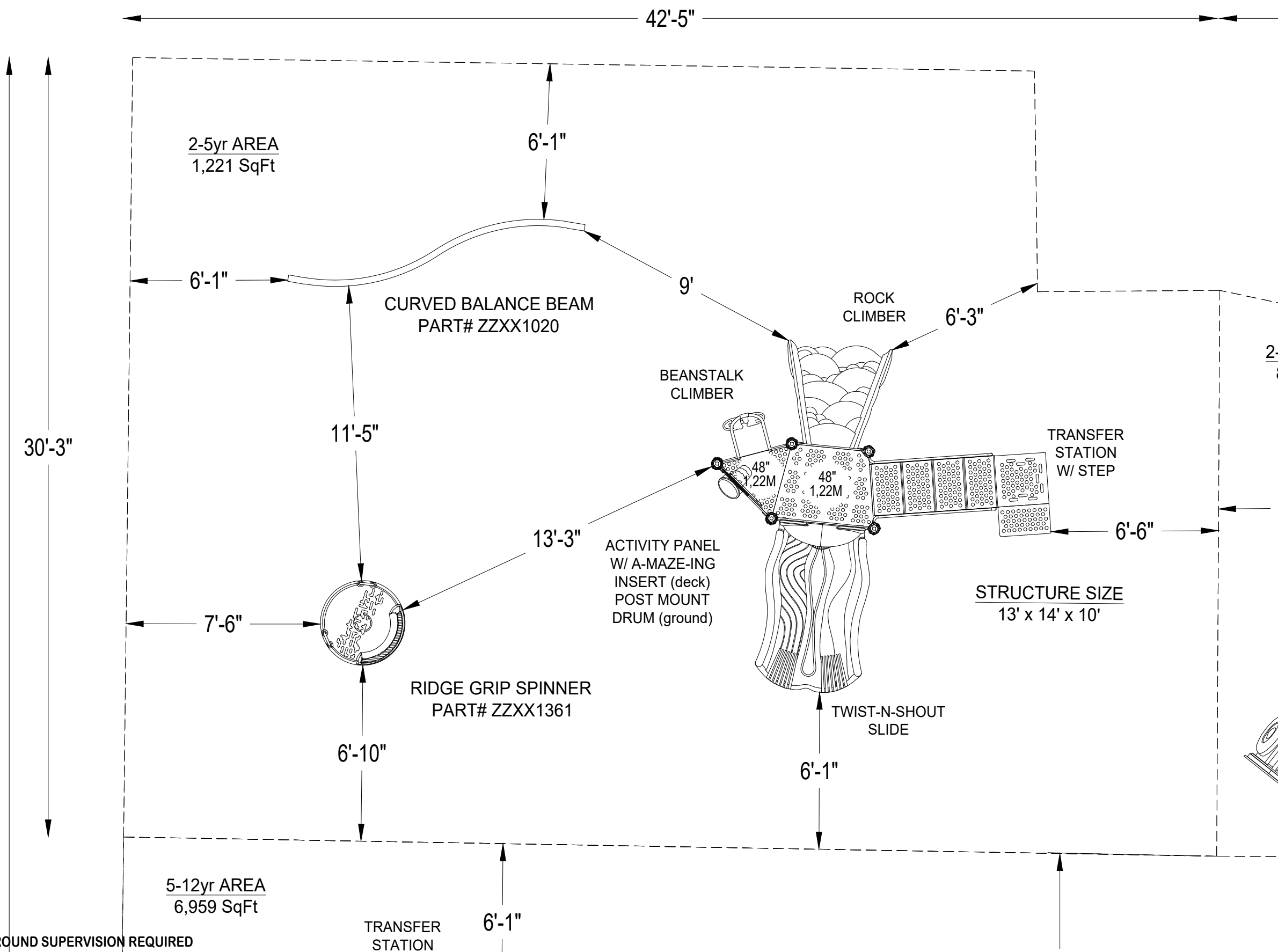
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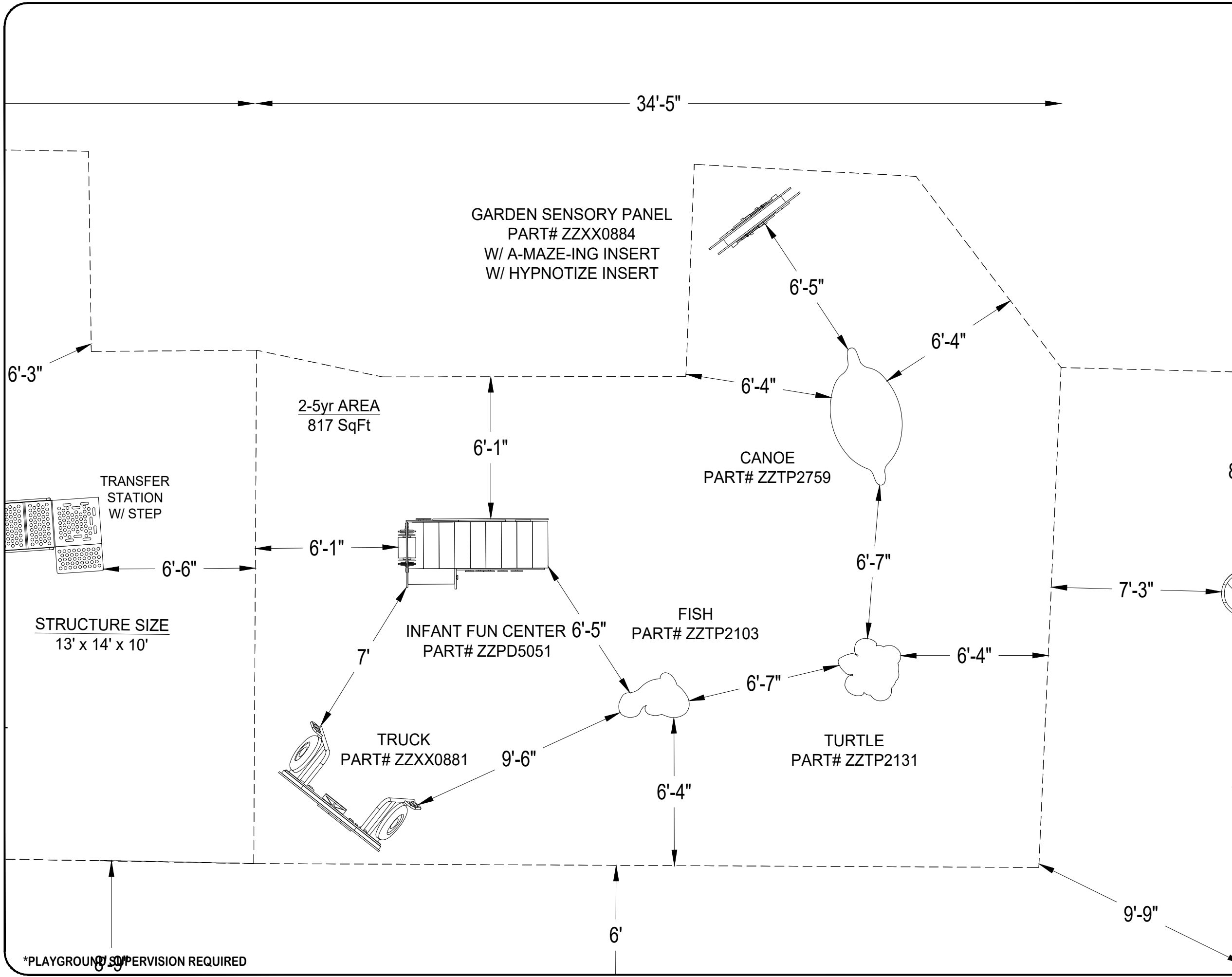
DATE:
23-JUL-2026

READING HOUSING AUTHORITY PLAYGROUND
READING, PA

READING, PA

***PLAYGROUND SUPERVISION REQUIRED**





GEORGE ELY ASSOCIATES
P.O. Box 396
Carlisle, PA 17013

EQUIPMENT SIZE:
SEE DWG

USE ZONE:
SEE DWG

AREA:
SEE DWG

PERIMETER:
SEE DWG

FALL HEIGHT:
1'8"

USER CAPACITY:
18

AGE GROUP:
2-5

- ✓ ASTM F1487-25
- ✓ CPSC #325



PROJECT NO:
26-19238A

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

DRAWN BY:
J.HOUSER

Paper Size

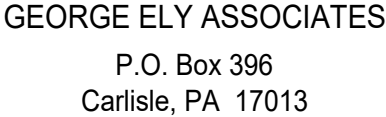
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21-JUL-2026

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READING HOUSING AUTHORITY PLAYGROUND

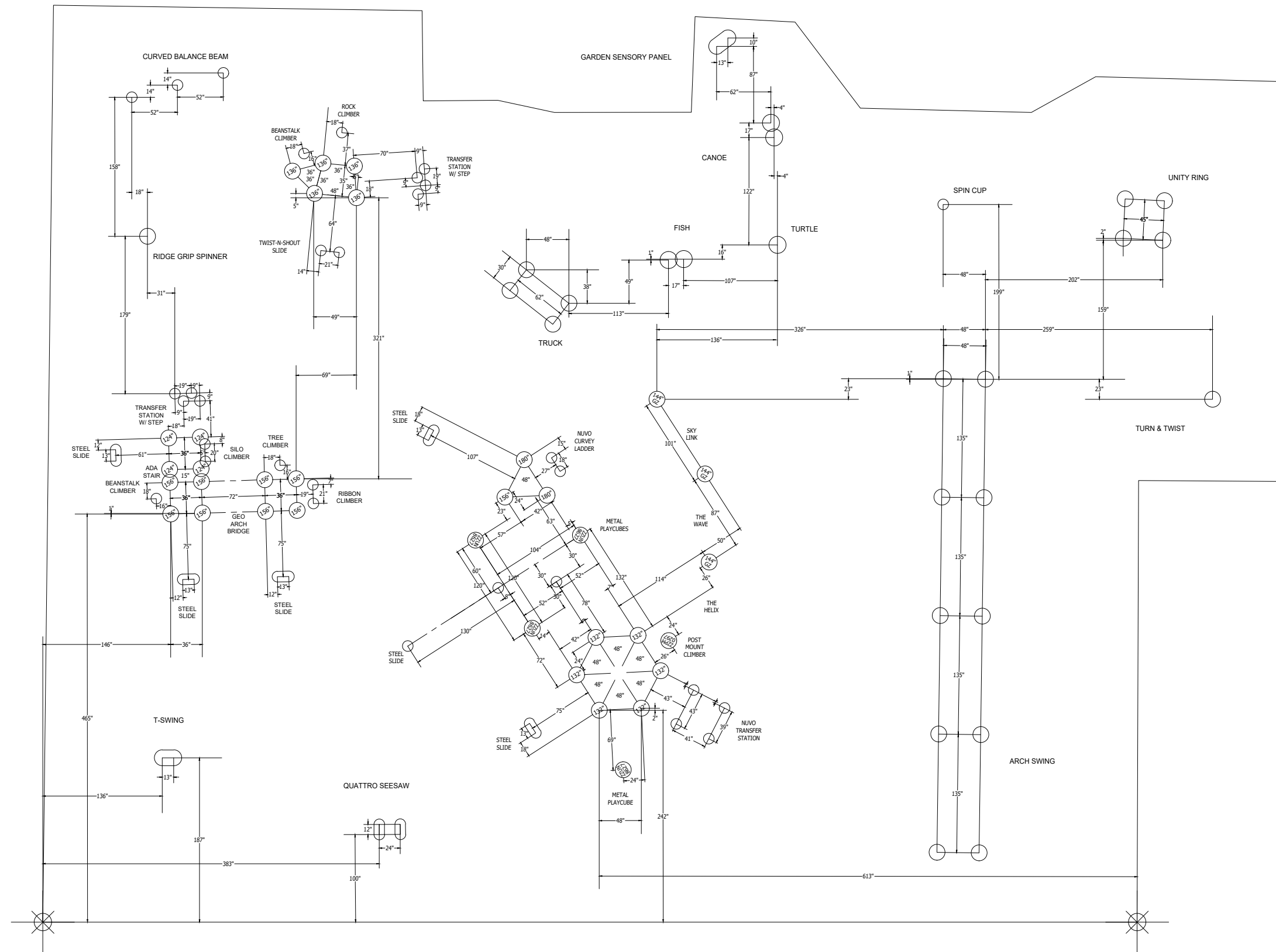
READING, PA

*PLAYGROUND SUPERVISION REQUIRED

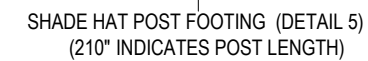
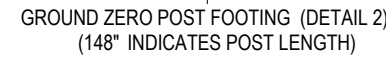
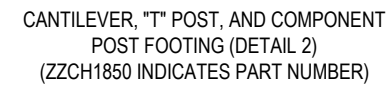


READING HOUSING AUTHORITY PLAYGROUND

READING, PA



COMPONENT FOOTING (DETAIL 3)



PROJECT NO: 26-19238A	SCALE: 3/32"=1'-0"
DRAWN BY: J.HOUSER	Paper Size B
DATE: 23-JUL-2026	

***PLAYGROUND SUPERVISION REQUIRED**

Reading Housing Authority Playground

Design Number: 26-19238A - Bill Of Material

Ref. No.	Part No.	Description	Quantity
Posts			
1	ZZCH0018	3.5in OD x 124in STEEL POST W/RIVETED CAP	4
2	ZZCH0028	3.5in OD x 136in STEEL POST W/ RIVETED CAP	5
3	ZZCH0217	3.5in OD x 156in SWAGED STEEL POST	8
4	ZZPM0026	5in OD X 132in STEEL POST W/ RIVETED CAP	6
5	ZZPM0036GZ	5in OD X 144in STEEL POST (GROUND ZERO)	3
6	ZZPM0046	5in OD X 156in STEEL POST W/ RIVETED CAP	1
7	ZZPM0066	5in OD X 180in STEEL POST W/ RIVETED CAP	2
Decks & Kick Plates			
8	ZZCH0616	SQUARE COATED DECK ASSEMBLY	3
9	ZZCH0617	TRIANGULAR COATED DECK ASSEMBLY	1
10	ZZCH0636	DOUBLE SLIDE COATED DECK ASSEMBLY	1
11	ZZPM0617	TRIANGULAR COATED DECK ASSEMBLY	1
12	ZZPM0619	HEX COATED DECK ASSEMBLY	1
13	ZZUN2290	COATED DECK TO DECK CONNECTION KIT	1
ADA Items			
14	ZZCH2006	TRANSFER STATION (36in DECK)	1
15	ZZCH2027	TRANSFER STATION W/BARRIERS (48in DECK)	1
16	ZZPM0684	NUVO- 48in TRANSFER STATION	1
17	ZZUN2019	APPROACH STEP FOR TRANSFER STATION	2
Slides			
18	ZZCH2727	TWIST AND SHOUT (48in DECK)	1
19	ZZCH2909	STAINLESS STEEL SLIDE- 48in DECK	2
20	ZZCH2916	STAINLESS STEEL SLIDE- 36in DECK	1
21	ZZPM2907	STAINLESS STEEL SLIDE- 72in DECK	1
22	ZZPM2909	STAINLESS STEEL SLIDE- 48in DECK	1
23	ZZUN9098	METAL PLAYCUBE - SLIDE AND BARRIERS	1
Activity Panels			
24	ZZCH4290	POST MOUNTED STEERING WHEEL	1
25	ZZCH4578	ANYWHERE SEAT	1
26	ZZCH4671	CH PANEL FRAME- DECK LEVEL	1
27	ZZPM4671	PM PANEL FRAME- DECK LEVEL	1
28	ZZUN4673	A-MAZE-ING INSERT	3
29	ZZUN4674	HYPONOTIZE INSERT	1
Audible Activities			
30	ZZCH4556	7in BELL (POST MOUNT)	1
31	ZZCH4558	9in BELL (POST MOUNT)	1
32	ZZCH4649	POST MOUNT DRUM	1
33	ZZPM4409	ACCESSIBLE BELL PANEL	1
Bridges			
34	ZZCH6967	6ft GEO ARCH BRIDGE	1
Climbers			
35	ZZCH7439	ROCK CLIMBER (48in DECK)	1



Reading Housing Authority Playground

Design Number: 26-19238A - Bill Of Material

Ref. No.	Part No.	Description	Quantity
36	ZZCH7949	SILO CLIMBER (36in DECK)	1
37	ZZCH8110	BEANSTALK CLIMBER (48in DECK)	2
38	ZZCH8190	TREE CLIMBER (48in DECK)	1
39	ZZCH8290	RIBBON CLIMBER (48in DECK)	1
40	ZZPM7059	72in CURVY CLIMBER	1
41	ZZPM8939	TRANSITION CLIMBER- PLAYMAKER	3
42	ZZUN8627	PLAYCUBE- GROUND LEVEL- METAL	4
43	ZZUN8628	PLAYCUBE- ONE SIDED CONNECTION - METAL	4
44	ZZUN8647	PLAYCUBE- THREE SIDED CONNECTION- METAL	1
45	ZZUN8927	PLAYCUBE- PERF ROOF- METAL	1
46	ZZUN8936	PLAYCUBES- SUPPORT POST- 4 CUBES HIGH- METAL	1
Stairs and Ladders			
47	ZZCH9168	12in ACCESS STEPPED PLATFORM (DECK TO DECK)	1
Roofs & Arches			
48	ZZCH9628	SLANT CORRUGATED ROOF	2
Balance			
49	ZZPM0149	STEP AROUND	2
Ground Zer0 Climbers			
50	ZZPM0297	POST W/ LADDER CLIMBER (36in OR 48in DECK)	1
51	ZZPM8398	THE HELIX	1
52	ZZPM8399	THE WAVE	1
Barriers			
53	ZZPM4288	ACCESS GATE	1
GroundZer0 Overhead Events			
54	ZZPM8450	THE SKY LINK	1
Additional Tool & Maintenance Kits			
55	ZZUN1471	INSTALLER HARDWARE KIT	1
56	ZZUN9930	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	1
57	ZZXX0678	LABEL KIT- COMPOSITE STRUCTURE - ASTM	1
58	ZZXXGNGUIC	GENERAL INSTALLERS GUIDE	1

Reading Housing Authority Playground

Design Number: 26-19238A - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZCH0018	4	3.5in OD x 124in STEEL POST W/RIVETED CAP	Certified	155.64			215	0	4.00	0.50	0
2	ZZCH0028	5	3.5in OD x 136in STEEL POST W/ RIVETED CAP	Certified	217.55			293	0	5.00	0.63	0
3	ZZCH0217	8	3.5in OD x 156in SWAGED STEEL POST	Certified	630.48			508	0	4.00	1.00	0
4	ZZCH0616	3	SQUARE COATED DECK ASSEMBLY	Certified	164.58			521	9	3.00	0.00	0
5	ZZCH0617	1	TRIANGULAR COATED DECK ASSEMBLY	Certified	29.90			120	2	1.00	0.00	0
6	ZZCH0636	1	DOUBLE SLIDE COATED DECK ASSEMBLY	Certified	63.86			185	3	1.00	0.00	0
7	ZZCH2006	1	TRANSFER STATION (36in DECK)	N/A				TBD				
8	ZZCH2027	1	TRANSFER STATION W/BARRIERS (48in DECK)	N/A				TBD				
9	ZZCH2727	1	TWIST AND SHOUT (48in DECK)	Certified	183.86			656	4	3.00	0.06	1
10	ZZCH2909	2	STAINLESS STEEL SLIDE- 48in DECK	Certified	261.76			563	4	8.00	0.12	2
11	ZZCH2916	1	STAINLESS STEEL SLIDE- 36in DECK	Certified	115.48			274	2	4.00	0.06	1
12	ZZCH4290	1	POST MOUNTED STEERING WHEEL	Certified	7.83			44	1	0.25	0.00	1
13	ZZCH4556	1	7in BELL (POST MOUNT)	Certified	4.61			41	1	0.25	0.00	1
14	ZZCH4558	1	9in BELL (POST MOUNT)	Certified	6.21			45	1	0.25	0.00	1
15	ZZCH4578	1	ANYWHERE SEAT	Certified	31.10			90	1	0.25	0.00	1
16	ZZCH4649	1	POST MOUNT DRUM	Certified	12.78			167	1	0.50	0.00	1
17	ZZCH4671	1	CH PANEL FRAME- DECK LEVEL	Certified	32.87			163	0	1.00	0.00	0
18	ZZCH6967	1	6ft GEO ARCH BRIDGE	N/A	275.84			881	2	1.50	0.00	1
19	ZZCH7439	1	ROCK CLIMBER (48in DECK)	N/A				TBD				
20	ZZCH7949	1	SILO CLIMBER (36in DECK)	Certified	70.33			129	1	1.50	0.06	1
21	ZZCH8110	2	BEANSTALK CLIMBER (48in DECK)	Certified	154.54			646	4	3.00	0.06	2
22	ZZCH8190	1	TREE CLIMBER (48in DECK)	Certified	73.93			176	2	1.50	0.03	1
23	ZZCH8290	1	RIBBON CLIMBER (48in DECK)	Certified	38.72			110	2	1.50	0.06	1
24	ZZCH9168	1	12in ACCESS STEPPED PLATFORM (DECK TO DECK)	Certified	70.28			277	1	2.00	0.00	0
25	ZZCH9628	2	SLANT CORRUGATED ROOF	Certified	467.74			1,199	0	3.00	0.00	0



Reading Housing Authority Playground

Design Number: 26-19238A - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
26	ZZPD5051	1	INFANT FUN CENTER	N/A	227.50			850	6	2.00	0.00	5
27	ZZPM0026	6	5in OD X 132in STEEL POST W/ RIVETED CAP	Certified	445.26			650	0	6.00	0.72	0
28	ZZPM0036GZ	3	5in OD X 144in STEEL POST (GROUND ZERO)	Certified	241.23			352	0	4.50	0.54	0
29	ZZPM0046	1	5in OD X 156in STEEL POST W/ RIVETED CAP	Certified	87.71			126	0	1.00	0.13	0
30	ZZPM0066	2	5in OD X 180in STEEL POST W/ RIVETED CAP	Certified	201.62			289	0	2.00	0.26	0
31	ZZPM0149	2	STEP AROUND	Certified	16.78			270	2	1.00	0.00	2
32	ZZPM0297	1	POST W/ LADDER CLIMBER (36in OR 48in DECK)	Certified	74.81			131	1	0.50	0.13	1
33	ZZPM0617	1	TRIANGULAR COATED DECK ASSEMBLY	Certified	46.40			169	2	1.00	0.00	0
34	ZZPM0619	1	HEX COATED DECK ASSEMBLY	Certified	228.72			638	8	2.00	0.00	0
35	ZZPM0684	1	NUVO- 48in TRANSFER STATION	Certified	389.40			418	3	4.00	0.12	0
36	ZZPM2907	1	STAINLESS STEEL SLIDE- 72in DECK	Certified	186.00			368	2	4.00	0.06	1
37	ZZPM2909	1	STAINLESS STEEL SLIDE- 48in DECK	Certified	145.30			292	2	4.00	0.06	1
38	ZZPM4288	1	ACCESS GATE	Certified	34.38			92	0	0.50	0.00	0
39	ZZPM4409	1	ACCESSIBLE BELL PANEL	Certified	32.28			275	1	0.50	0.00	1
40	ZZPM4671	1	PM PANEL FRAME- DECK LEVEL	Certified	46.46			205	0	1.00	0.00	0
41	ZZPM7059	1	72in CURVY CLIMBER	Certified	95.53			577	1	2.00	0.06	1
42	ZZPM8398	1	THE HELIX	Certified	85.74			202	2	0.75	0.00	1
43	ZZPM8399	1	THE WAVE	Certified	70.55			183	2	0.75	0.00	1
44	ZZPM8450	1	THE SKY LINK	Certified	55.09			129	2	0.50	0.00	1
45	ZZPM8939	3	TRANSITION CLIMBER- PLAYMAKER	Certified	180.42			700	6	7.50	0.00	3
46	ZZTP2103	1	FISH	N/A	65.90			1,802	2	2.00	0.30	1
47	ZZTP2131	1	TURTLE	N/A	53.80			2,600	2	1.50	0.15	1
48	ZZTP2759	1	CANOE	N/A	148.50			3,379	4	2.00	0.30	1
49	ZZUN1471	1	INSTALLER HARDWARE KIT	N/A	3.90			57	0	0.00	0.00	0



Reading Housing Authority Playground

Design Number: 26-19238A - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
50	ZZUN2019	2	APPROACH STEP FOR TRANSFER STATION	Certified	71.66			144	2	2.00	0.08	0
51	ZZUN2290	1	COATED DECK TO DECK CONNECTION KIT	Certified	0.29			4	0	0.50	0.00	0
52	ZZUN4673	3	A-MAZE-ING INSERT	Certified	43.53			593	6	0.75	0.00	3
53	ZZUN4674	1	HYPONOTIZE INSERT	Certified	14.95			288	2	0.25	0.00	1
54	ZZUN8627	4	PLAYCUBE- GROUND LEVEL- METAL	Certified	1,340.40			4,497	16	10.00	0.48	4
55	ZZUN8628	4	PLAYCUBE- ONE SIDED CONNECTION - METAL	Certified	1,052.76			3,990	16	8.00	0.00	4
56	ZZUN8647	1	PLAYCUBE- THREE SIDED CONNECTION- METAL	Certified	240.41			970	3	2.50	0.00	1
57	ZZUN8927	1	PLAYCUBE- PERF ROOF- METAL	Certified	16.88			105	0	0.50	0.00	0
58	ZZUN8936	1	PLAYCUBES- SUPPORT POST- 4 CUBES HIGH- METAL	Certified	27.78			27	0	1.00	0.03	0
59	ZZUN9098	1	METAL PLAYCUBE - SLIDE AND BARRIERS	Certified	363.23			842	2	3.50	0.06	1
60	ZZUN9930	1	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	N/A				TBD				
61	ZZXX0065	1	SPIN CUP	Certified	57.21			301	1	2.00	0.12	1
62	ZZXX0084	1	UNITY RING	Certified	457.20			3,378	9	2.50	0.52	1
63	ZZXX0218	1	ARCH SWING- HOOPLA SEAT	Certified	46.61			527	3	1.50	0.00	1
64	ZZXX0260	4	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	35.20			216	4	1.00	0.00	4
65	ZZXX0598	1	QUATTRO SEE-SAW (w/ SEAT BACKS)	Certified	482.67			1,510	6	5.00	0.24	1
66	ZZXX0635	1	SWING ALONG SEAT TO 8ft TOP RAIL	Certified	31.84			341	2	0.50	0.00	1
67	ZZXX0678	1	LABEL KIT- COMPOSITE STRUCTURE - ASTM	N/A	0.04			0	0	0.08	0.00	0
68	ZZXX0822	1	7ft EARLY CHILDHOOD T-SWING	N/A				TBD				
69	ZZXX0881	1	TRUCK	N/A	269.10			764	0	8.00	0.24	0
70	ZZXX0884	1	GARDEN SENSORY WALL FOR 2 INSERTS	N/A	156.90			474	8	1.50	0.12	1
71	ZZXX0892	1	ACCESSIBLE SWING SEAT- 8ft TOP RAIL	N/A	53.80			314	1	0.50	0.00	1
72	ZZXX0931	1	5in OD 2-UNIT STEEL ARCH SWING- 8ft TOP RAIL	Certified	417.00			84	0	3.00	0.48	0



Reading Housing Authority Playground

Design Number: 26-19238A - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
73	ZZXX0933	2	5in OD STEEL ARCH SWING 2-UNIT ADD-A-BAY	Certified	498.60			169	0	4.00	0.48	0
74	ZZXX0941	1	5in OD ARCH SWING ADD-A-BAY (MULTI-USER)	Certified	250.50			191	0	2.00	0.24	0
75	ZZXX1020	1	CURVED BALANCE BEAM	Certified	62.01			91	2	2.00	0.11	1
76	ZZXX1361	1	RIDGE GRIP SPINNER	Certified	122.30			422	3	2.00	0.13	1
77	ZZXX1362	1	TURN N TWIST	N/A				TBD				
78	ZZXXGNGUIC	1	GENERAL INSTALLERS GUIDE	N/A				TBD				
Totals:					12,346.04	1,951	3,768	42,297	175	165.08	8.73	63
					0 Kg	0 Kg	0 Kg	0 Metric Tons	0 m3			



Reading Housing Authority Playground

Design Number: 26-19238A - Compliance and Technical Data

Reference Document: ASTM F1487

Ref.	Unit	Total	Pre-	Post-	CO2e		Install	Concrete	Active
No.	ASTM	Weight	Consumer	Consumer	Footprint	Users	Hours	(Yds3)	Play
Part No.	Status	(lbs)	Recycled	Content	(kgs)				Events
Qty.	Description								

ASTM F1487

The lay-out for this custom playscape, design number 26-19238A, has been configured to meet the requirements of the ASTM F1487 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

2010 ADA Standards for Accessible Design

The lay-out was also designed to meet the 2010 Standards published 15-Sep-2010, by the Department of Justice when installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.

Installation Times

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

Carbon Footprint

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

Pre-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

Post-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.

** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.



Model #: RHS2034

Design Criteria: Structure shall be designed to meet site specific snow and wind load design criteria using most current applicable building codes. All structural members are ASTM A-500 U.S. grade B steel. Welded connection plates shall be ASTM A-36 hot rolled steel. All fabrication performed to latest AISC standards by AWS Certified welders. All framing connections are done using A325 grade bolts within concealed access openings from above and will later be concealed by the roofing. All roof framing shall be flush against the roof decking to eliminate the possibility of bird nesting.

Tubular Steel Columns and Beams: Standard column dimension shall be 5" x 5" x 3/16" tubular steel welded to 5/8" base plates for surface mounting. Main support beams are 7" x 5" x 3/16" and purlins are 6" x 3" x 1/8" and 5" x 3" x 1/8". Steel sizes are preliminary and may change due to ongoing review and final engineering.

Roofing: 24 Ga. pre-cut steel Multi-Rib panels with Kynar 500 finish in a variety of colors with white underside. Standard roof slope is a 4/12 pitch with a eave height of 8'-0". Attached to structural framing with exposed self tapping screws painted to match roof color. Matching 24 Ga. trim included.

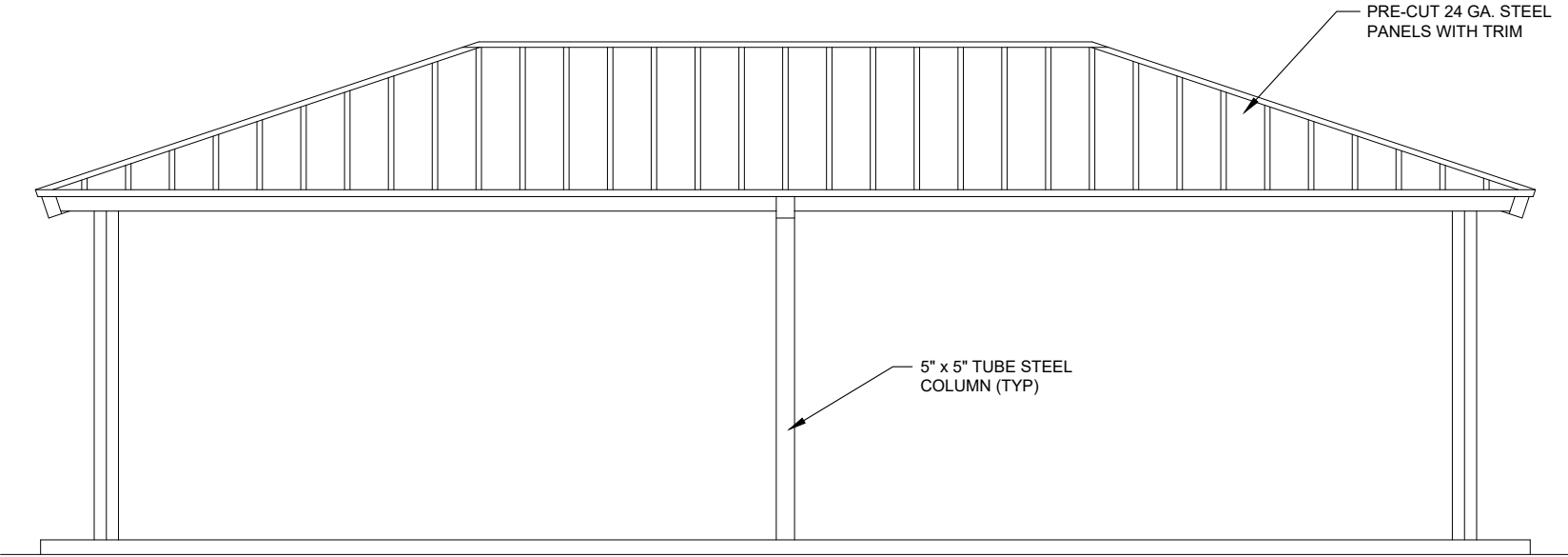
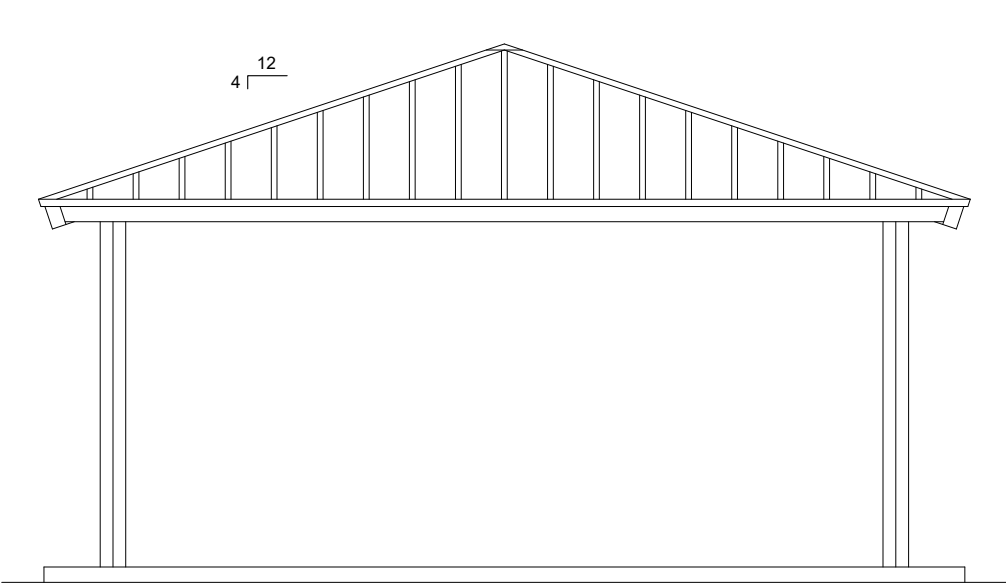
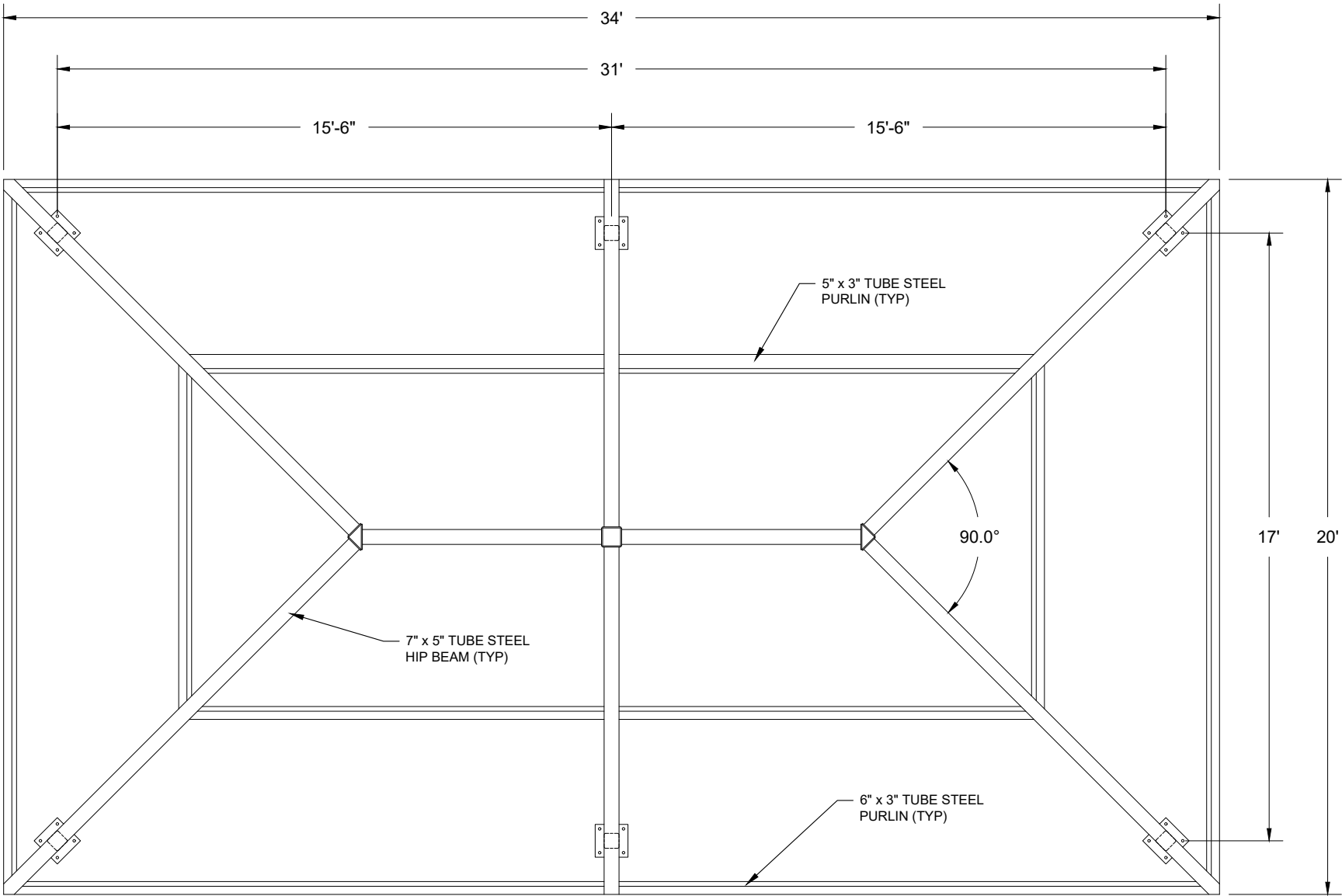
Frame Finish: All steel framework will receive a corrosion protective TGIC Polyester powder coat, electro-statically applied and cured at 400°F. A large selection of standard colors are available.

Foundation: All columns need to be anchored to concrete footings (footing design provided separately). Columns can be surface mounted to footings with anchor bolts at or below finish slab elevation or they can be embedded directly into the footing without base plates upon request. Anchor bolts and bracing templates are included. Optional base plate covers are available at an additional cost.

Hardware: All structural hardware and roofing fasteners shall be provided.

Warranty: 10 years against manufacturer defects.

Not Included: Concrete work of any kind, unloading of product and installation.



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PRELIMINARY
NOT FOR CONSTRUCTION

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MODEL NUMBER:	RHS2034	SHOWN WITH STANDARD OPTIONS	REVISION DATES	DRAWN BY:	DATE:
DESCRIPTION:	20x34 Rect Hip Shelter		REV:	JES	11-1-18
Possible Options:	☐ 29ga METAL ROOF ☐ STANDING SEAM ROOF ☐ CEDAR SHINGLES	☐ METAL BASE SHOES ☐ STEEL COLUMNS ☐ CUSTOM ROOF PITCH	☐ LIGHTNING PROTECTION ☐ 2 TIER ROOF ☐ CUPOLA	SHEET: 1 OF 1	