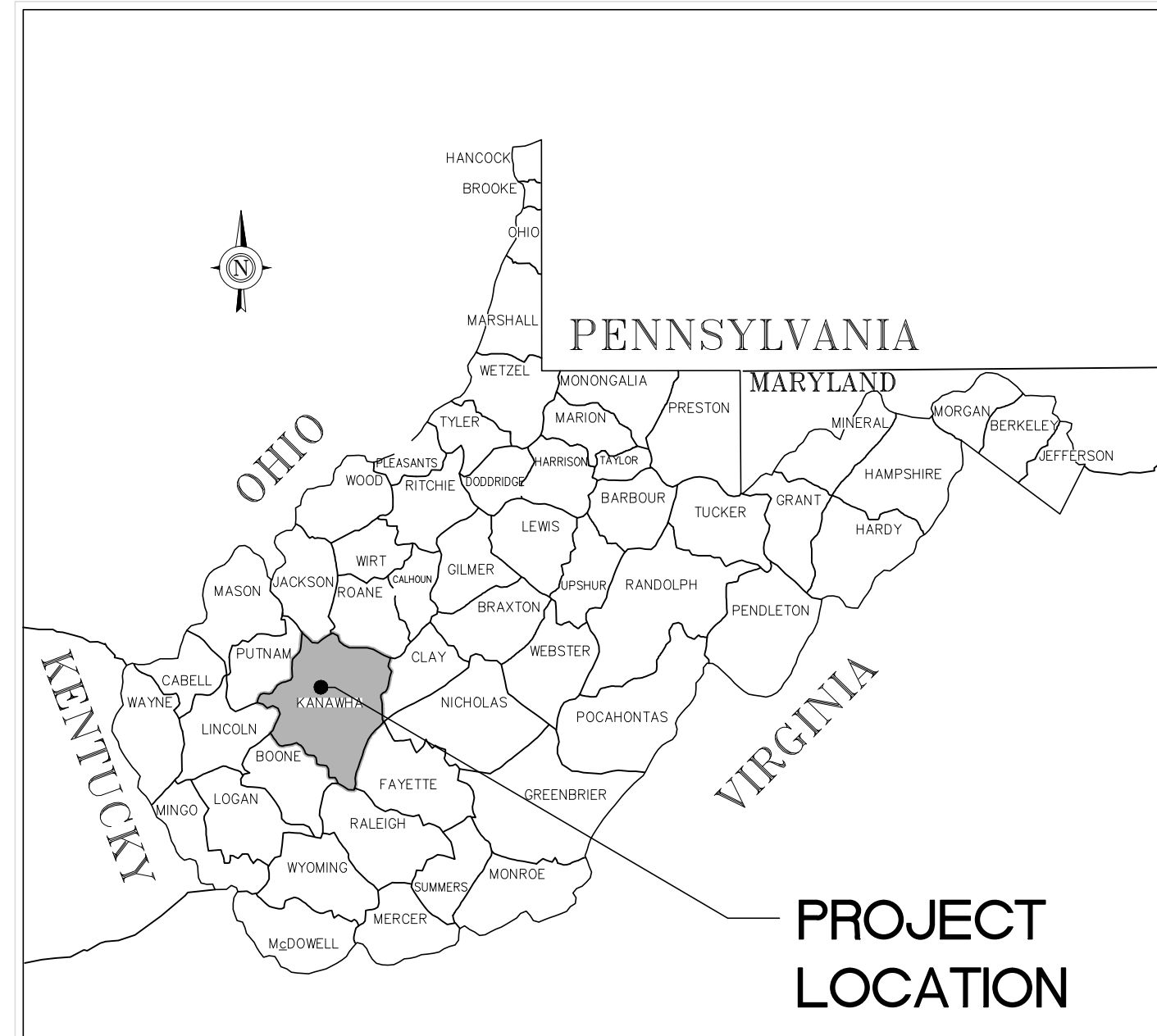
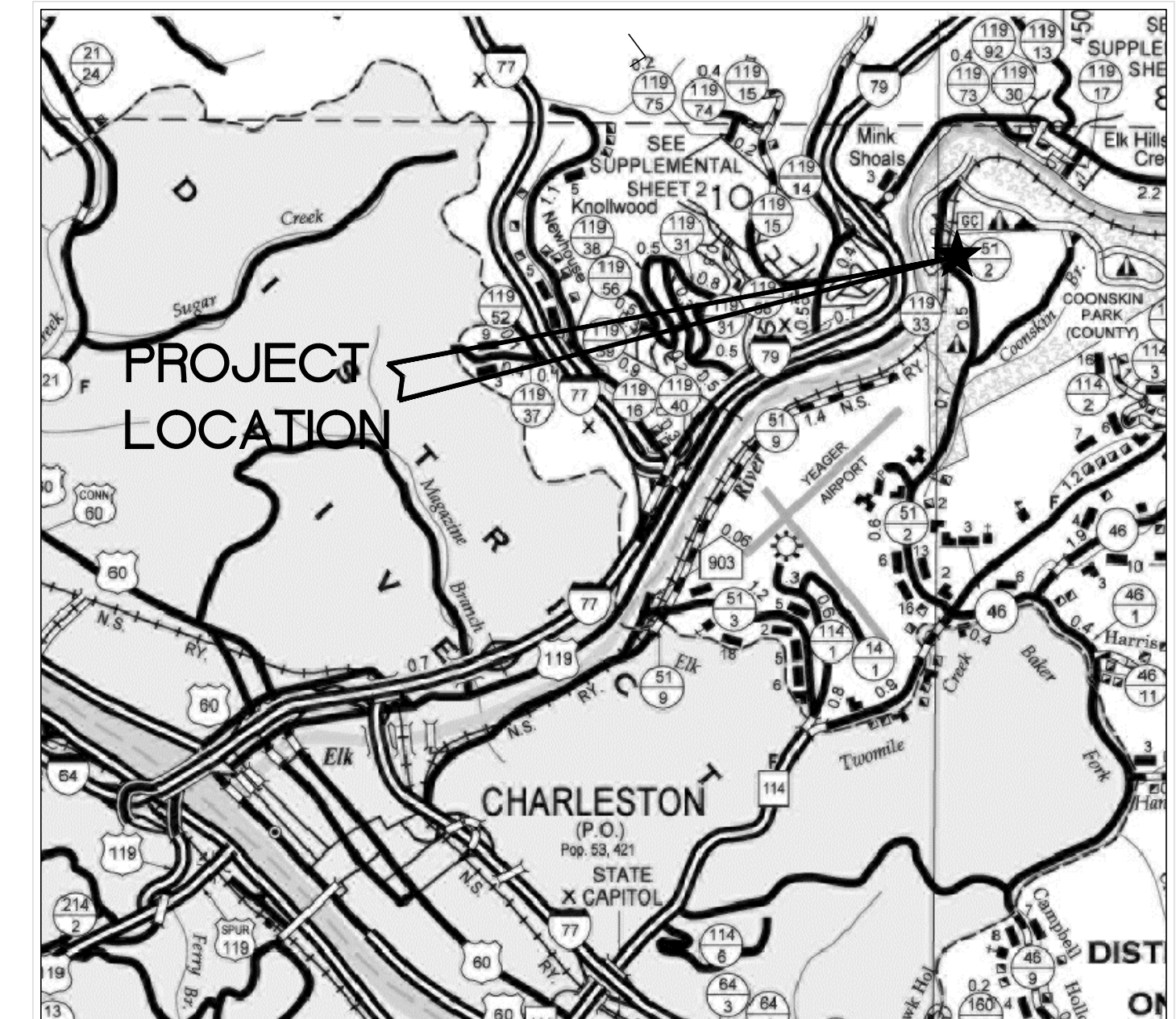


WEST VIRGINIA ARMY NATIONAL GUARD
 STATE OF WEST VIRGINIA
 CHARLESTON, WEST VIRGINIA

COONSKIN PARK MAINTENANCE FACILITY



LOCATION MAP



VICINITY MAP

 ARCHITECTURAL RONNIE LEE BOLEN A.I.A.	 STRUCTURAL & CIVIL PATRICK W. FOGARTY P.E.	 LANDSCAPE ARCHITECT LAURA COX A.S.L.A.	 MECHANICAL/ELECTRICAL DAVID J. HILLIARD P.E.
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CODE

FIRE PROTECTION AND LIFE SAFETY CODE REVIEW

PROJECT NAME:
 COONSKIN PARK MAINTENANCE FACILITY

KANAWHA COUNTY, WEST VIRGINIA

APPLICABLE CODES AND STANDARDS
 INTERNATIONAL BUILDING CODE (IBC) 2012
 2012 NFPA 101 AND WEST VIRGINIA REVISIONS AS THEY APPLY TO BOTH

OCCUPANCY CLASSIFICATION
 IBC 311 S
 311.2 STORAGE GROUP S-1 Moderate Hazard Storage

OCCUPANCY LOAD
 WAREHOUSES 500 GROSS S.F. PER OCCUPANT - 6000 S.F. / 500 S.F. = 12 PEOPLE

CONSTRUCTION TYPE
 TYPE II (000) NONCOMBUSTIBLE PROTECTED

STORAGE OF LIQUIDS, FUELS, ETC.
 706.7 OPENINGS

OPENINGS IN THE FIRE BARRIER WALLS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 715. OPENINGS SHALL BE LIMITED TO A MAXIMUM AGGREGATE WIDTH OF 25% OF THE LENGTH OF THE WALL, AND THE MAXIMUM AREA OF ANY SINGLE OPENING SHALL NOT EXCEED 120 S.F. OPENINGS IN EXIT ENCLOSURES SHALL ALSO COMPLY WITH SECTION 1019.1.1.

SHEET INDEX:

SHEET	DESCRIPTION	SHEET	DESCRIPTION
T-1	TITLE PAGE		
C-0	EXISTING CONDITIONS PLAN	P-0	PLUMBING LEGEND
C-1	SITE PLAN	P-1	PLUMBING PLAN (PLUMBING/SEWERS)
C-2	UTILITY PLAN	P-2	PLUMBING PIPING PLAN
C-3	SITE DETAILS	P-3	PLUMBING DETAILS/SCHEDULES
A-0.1	ARCHITECTURAL LEGEND	M-0	MECHANICAL LEGEND
A-1.1	FLOOR PLAN	M-1	MECHANICAL PLAN HVAC
A-1.2	ENLARGED FLOOR PLAN	M-2	MECHANICAL DETAILS
A-2	BUILDING ELEVATIONS	E-0	ELECTRICAL LEGEND
A-3	BUILDING SECTIONS	E-1	POWER PLAN
S-0.1	STRUCTURAL GENERAL NOTES	E-2	LIGHTING PLAN
S-1	FOUNDATION PLAN	E-3	FIRE ALARM PLAN
S-2	FOOTING DETAILS	E-4	ELECTRICAL DETAILS/SCHEDULES
S-3	JOINT DETAILS		

COONSKIN PARK MAINTENANCE FACILITY

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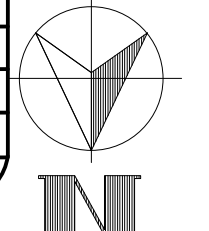
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Designed by:	Rev:	12/10/13
Drawn by: MPJ	Project No:	135625
Reviewed by: RLB	Drawing Code:	
Submitted by:	File Name:	12/10/13
	Plot Code:	NONE

COONSKIN PARK MAINTENANCE FACILITY

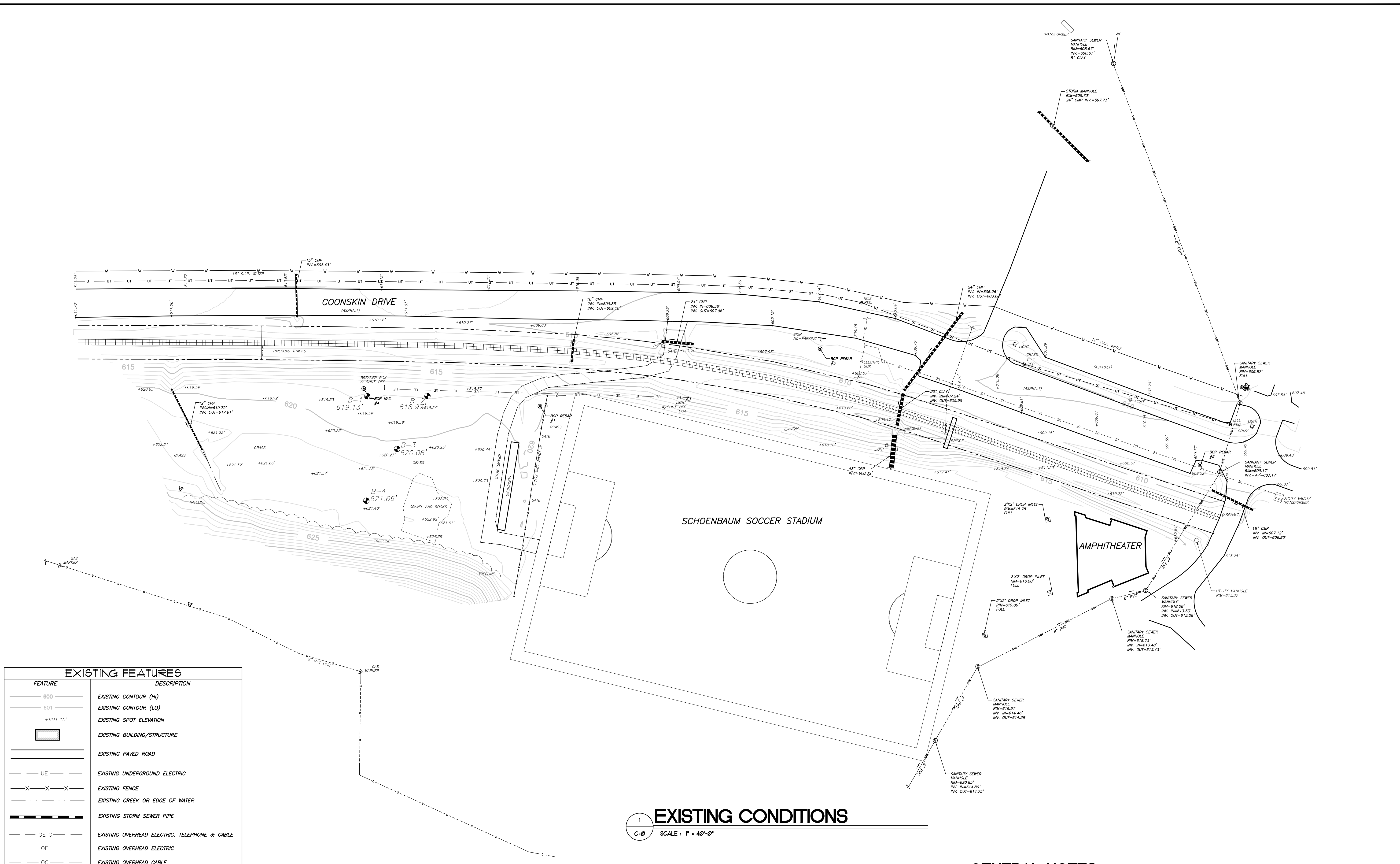
TITLE PAGE

Sheet reference number:
T-1



REV.	DESCRIPTION	DATE

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		Plot date:	12/10/13
		Plot scale:	1"=30'-0"



FEATURE	DESCRIPTION
600	EXISTING CONTOUR (HI)
601	EXISTING CONTOUR (LO)
+601.10'	EXISTING SPOT ELEVATION
[Symbol]	EXISTING BUILDING/STRUCTURE
[Symbol]	EXISTING PAVED ROAD
UE	EXISTING UNDERGROUND ELECTRIC
X-X-X	EXISTING FENCE
[Symbol]	EXISTING CREEK OR EDGE OF WATER
[Symbol]	EXISTING STORM SEWER PIPE
OETC	EXISTING OVERHEAD ELECTRIC, TELEPHONE & CABLE
OE	EXISTING OVERHEAD ELECTRIC
OC	EXISTING OVERHEAD CABLE
OET	EXISTING OVERHEAD ELECTRIC AND TELEPHONE
UT	EXISTING UNDERGROUND TELEPHONE
SAN	EXISTING SANITARY SEWER LINE
W	EXISTING WATER LINE
G	EXISTING GAS LINE
[Symbol]	EXISTING RIGHT-OF-WAY
[Symbol]	EXISTING PROPERTY LINE
PAR74	- PARCEL NUMBER
TM12	- TAX MAP NUMBER

EXISTING SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	EXISTING SURVEY BAKER CONTROL	[Symbol]	EXISTING SURVEY BAKER PK NAIL
[Symbol]	EXISTING BENCH MARK	[Symbol]	EXISTING SINGLE POST SIGN
[Symbol]	EXISTING PROPERTY CORNER (FOUND)	[Symbol]	EXISTING POWERPOLE
[Symbol]	EXISTING SANITARY CLEANDOUT	[Symbol]	EXISTING LIGHT POLE
[Symbol]	EXISTING WATER VALVE	[Symbol]	EXISTING GUY WIRE
[Symbol]	EXISTING WATER METER	[Symbol]	EXISTING STORM MANHOLE
[Symbol]	EXISTING GAS METER	[Symbol]	EXISTING SANITARY MANHOLE
[Symbol]	EXISTING GAS VALVE	[Symbol]	EXISTING TELEPHONE PEDESTAL
[Symbol]	EXISTING GAS MARKER	[Symbol]	EXISTING TREE
[Symbol]	EXISTING WATER WELL	[Symbol]	EXISTING POST/BOLLARD

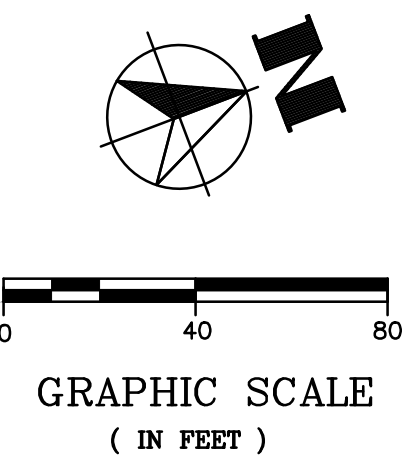
CONTROL POINTS				
PNT.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	508237.2350	1801569.9600	619.80'	BCP REBAR
2	507692.8990	1801507.5950	627.01'	BCP REBAR
3	508491.7470	1801567.4350	608.90	BCP REBAR
4	508086.3520	1801524.6030	618.90'	BCP NAIL
5	508803.9630	1801733.3030	609.64'	BCP NAIL

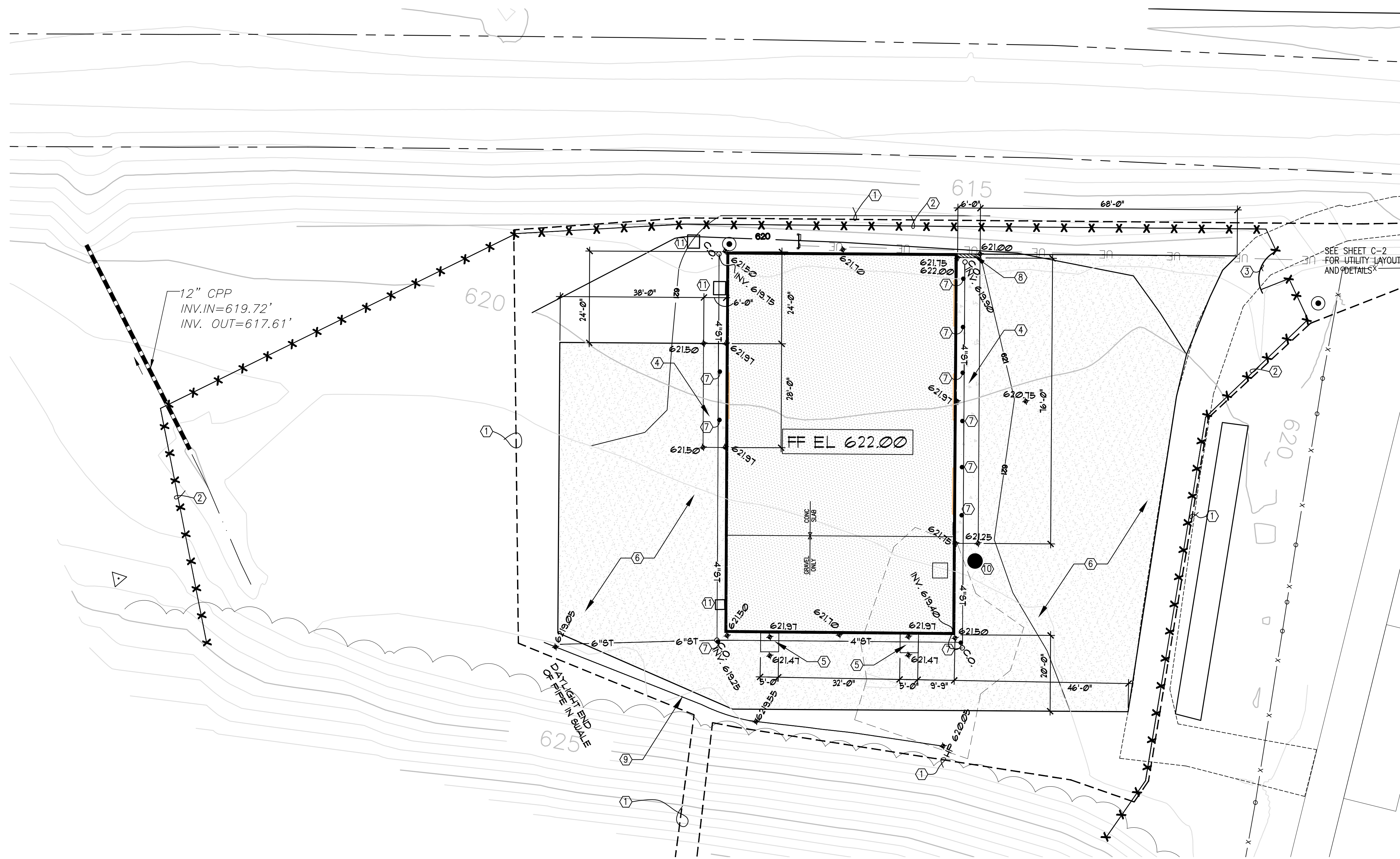
EXISTING CONDITIONS
 SCALE: 1" = 40'-0"

GENERAL NOTES:

1) THE LOCATION OF UNDERGROUND UTILITIES AS SHOWN HEREON IS BASED ON VISIBLE ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED BY THE SURVEYOR. LOCATIONS OF UNDERGROUND UTILITY LINES AND STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITY LINES AND STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES AND STRUCTURES.

2) THE HORIZONTAL AND VERTICAL DATUM WAS BASED UPON A DRAWING BY S & S ENGINEERS, INC (SCHOENBAUM SOCCER STADIUM & AMPHITHEATER SITE PLAN) DATED FEB. 28, 2000.





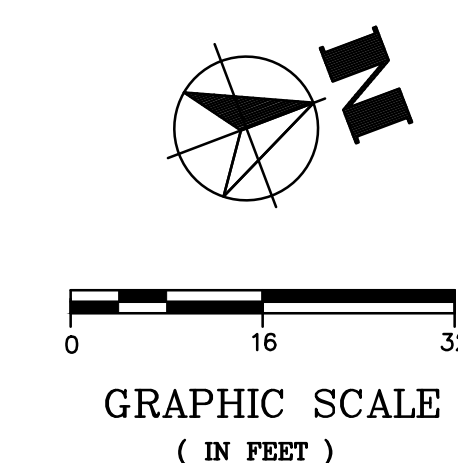
KEYED NOTES:

- ① LIMITS OF DISTURBANCE
- ② 8' H TEMPORARY CONSTRUCTION FENCE
- ③ 8' W TEMPORARY CONSTRUCTION GATE
- ④ NEW CONCRETE APRON (SEE DETAIL 4A SHEET C-3)
- ⑤ NEW CONCRETE PAD (SEE DETAIL 4 SHEET C-3)
- ⑥ NEW GRAVEL DRIVE AREA (SEE DETAIL 1 SHEET C-3)
- ⑦ NEW BOLLARD (SEE DETAIL 3 SHEET C-3)
- ⑧ NEW RETAINING WALL (SEE DETAIL 4B SHEET C-3)
- ⑨ EXISTING DRAINAGE SWALE
- ⑩ NEW GRINDER PUMP IN MANHOLE (SEE DETAIL 5 SHEET C-3)
- ⑪ NEW CONCRETE UTILITY PAD (SEE DETAIL 2 SHEET C-3)

EROSION / SEDIMENT CONTROL NOTES:

1. CONTRACTOR TO SUPPLY EROSION AND SEDIMENT CONTROL PLAN PER WDEP STANDARDS. THE EROSION AND SEDIMENT CONTROL PLAN TO BE PREPARED BY CONTRACTOR AND APPROVED BY OWNERS REPRESENTATIVE.
2. THE PLAN SHALL INCLUDE PROVISIONS FOR THE FOLLOWING:
 - A. VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS UNDISTURBED AREAS.
 - B. PROVIDE MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF AND AIRBORNE DUST TO UNDISTURBED AREAS AND TO ADJACENT PROPERTIES AND WALKWAYS.
 - C. INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.
 - D. CLEAN, REPAIR, AND RESTORE ADJOINING PROPERTIES AND ROADS AFFECTED BY EROSION AND SEDIMENTATION FROM PROJECT SITE DURING THE COURSE OF PROJECT.
 - E. REMOVE EROSION AND SEDIMENTATION CONTROLS AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.

SITE PLAN
SCALE: 1" = 16'-0"



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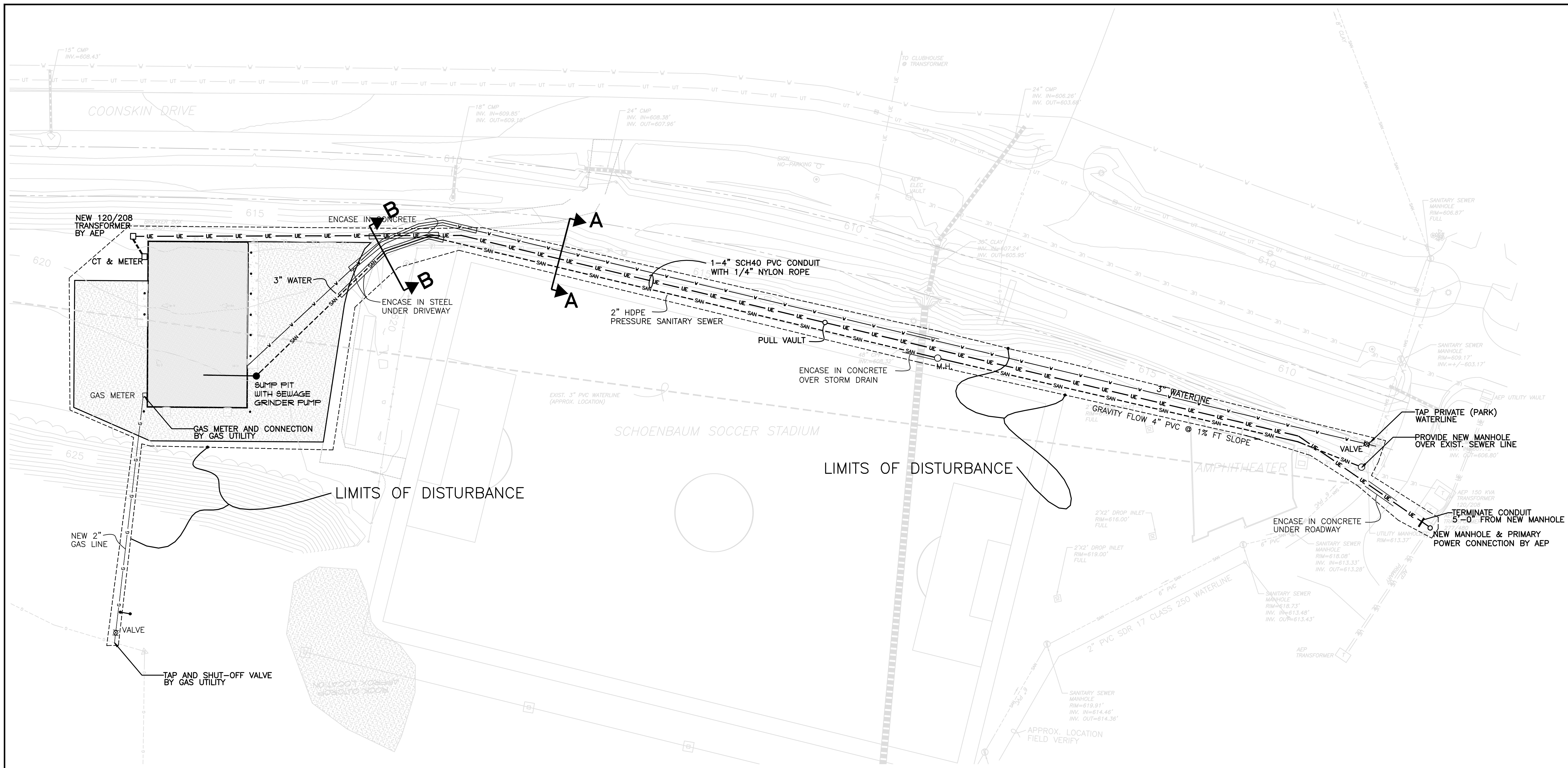
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COONSKIN PARK
MAINTENANCE FACILITY

SITE PLAN

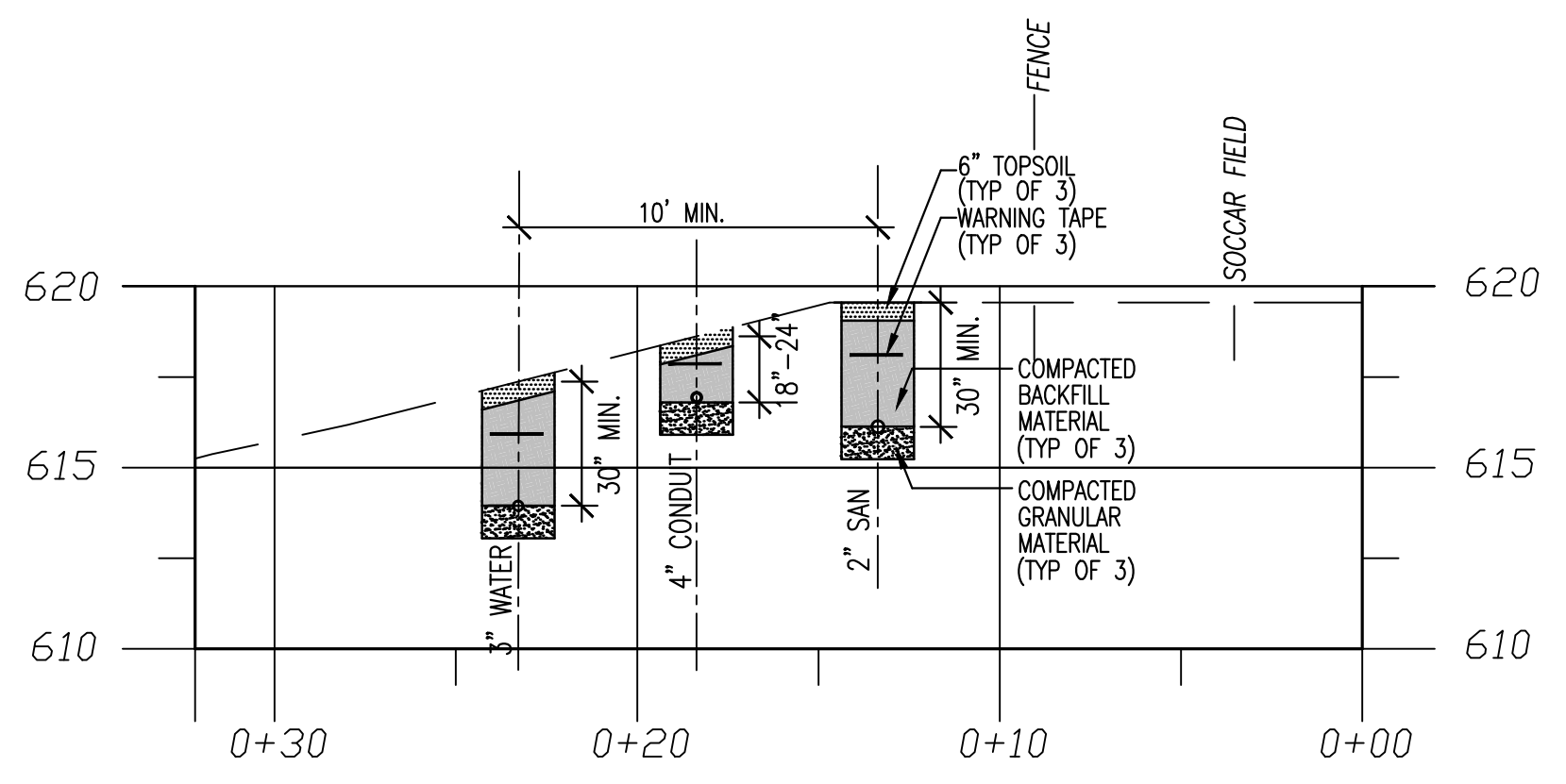
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C-1



UTILITY PLAN

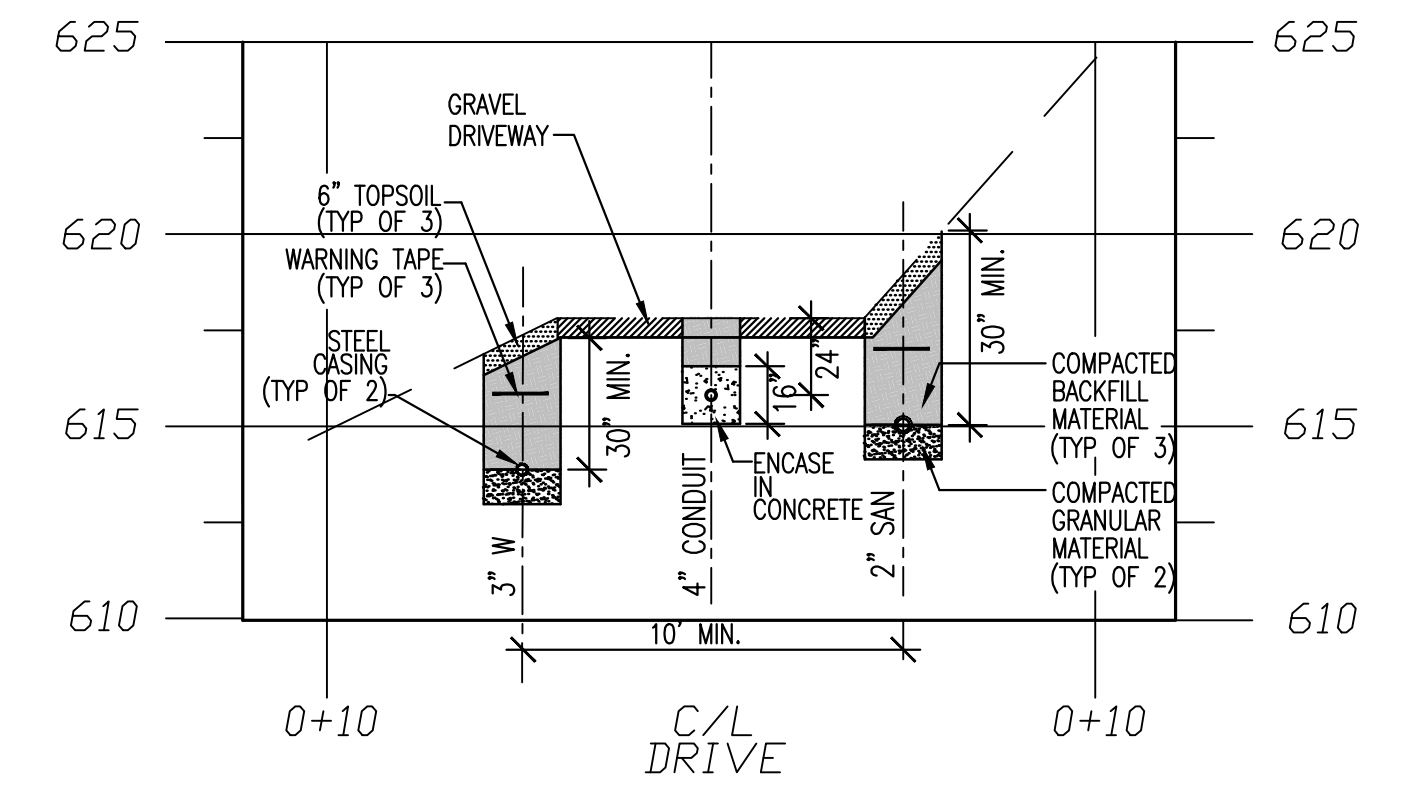
1
C-2

SCALE : 1" = 30'-0"



SECTION A-A

2
C-2 SCALE : 1" = 5'-0"

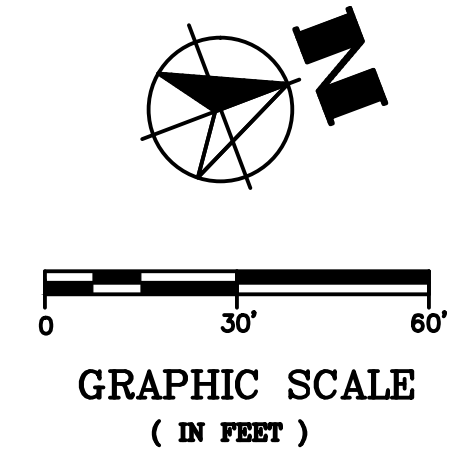


SECTION B-B

3
C-2 SCALE : 1" = 5'-0"

NOTES:

1. ELECTRICAL CONDUITS 24" DEEP MINIMUM UNDER ROADWAYS & PARKING LOTS, 18" DEEP ELSEWHERE.
2. CONTRACTOR SHALL PROTECT EXISTING FACILITIES THROUGHOUT CONSTRUCTION (I.E. SOCCER FIELD, AMPHITHEATER, ETC.).
3. CONTRACTOR SHALL INCLUDE THE COST FEES OF UTILITY CONNECTIONS IN BIDS.
4. SANITARY SEWER SHALL BE A MINIMUM OF 18" BELOW THE ELECTRICAL SERVICE AT ANY CROSSING.



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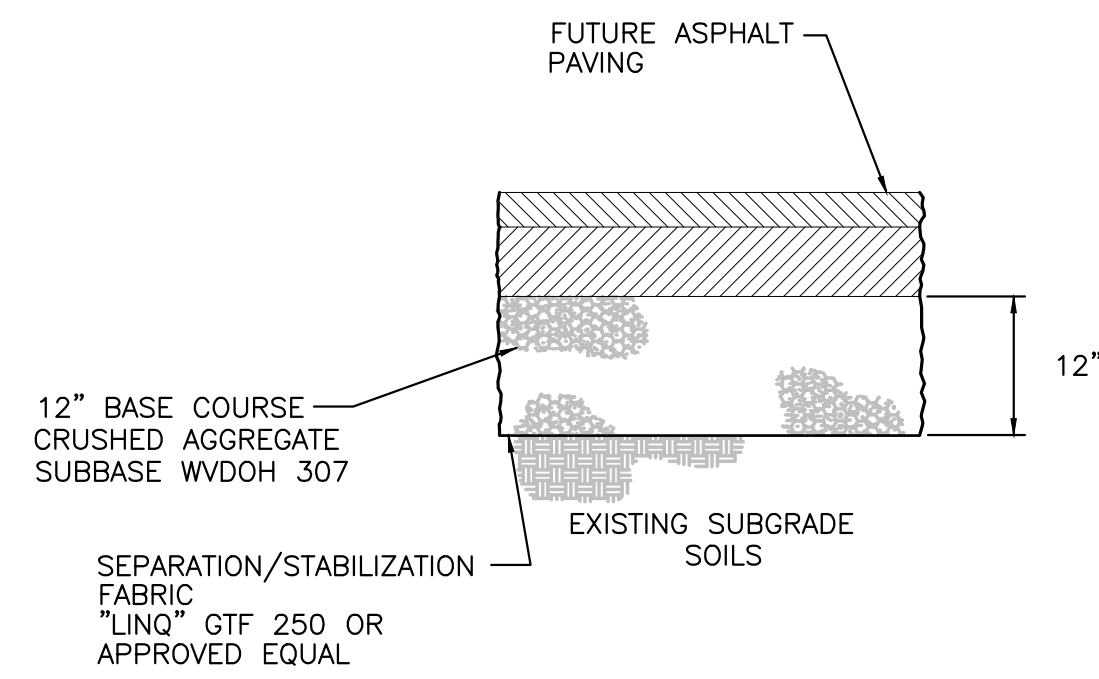
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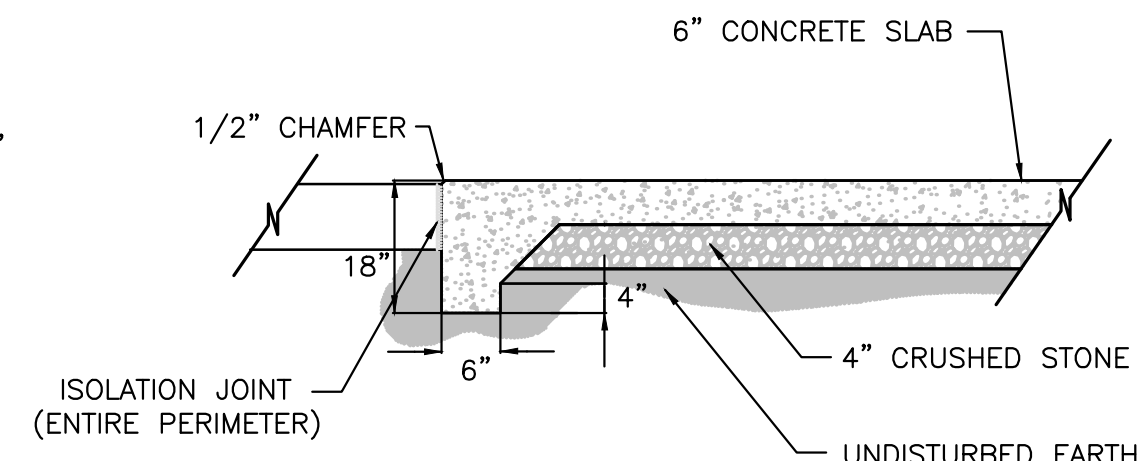
COONSKIN PARK
 MAINTENANCE FACILITY

SITE UTILITY PLAN

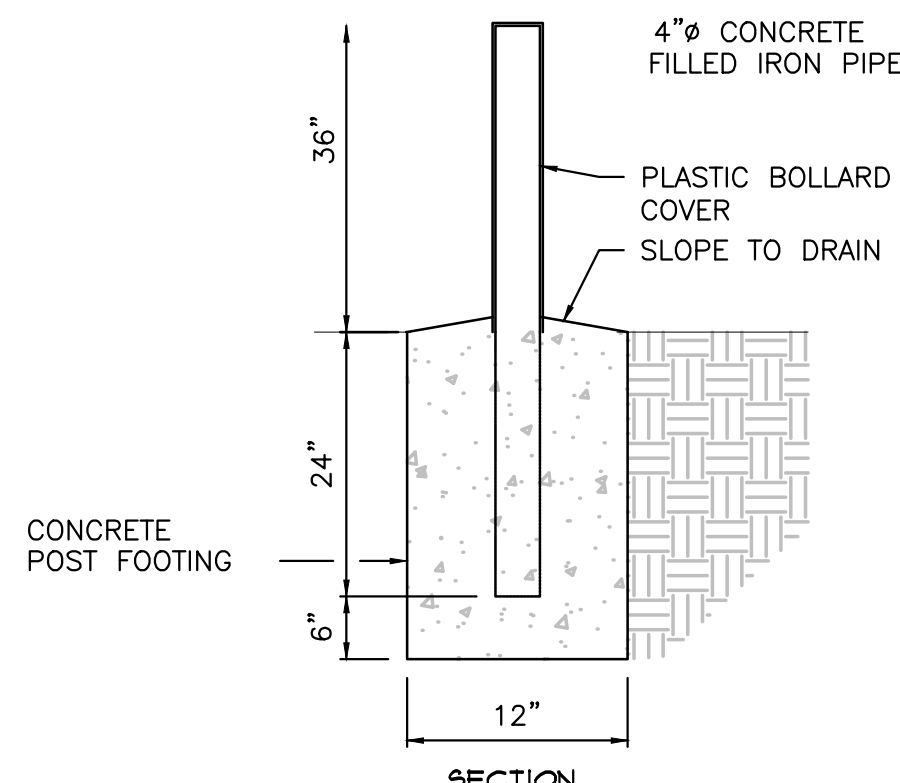
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C-2



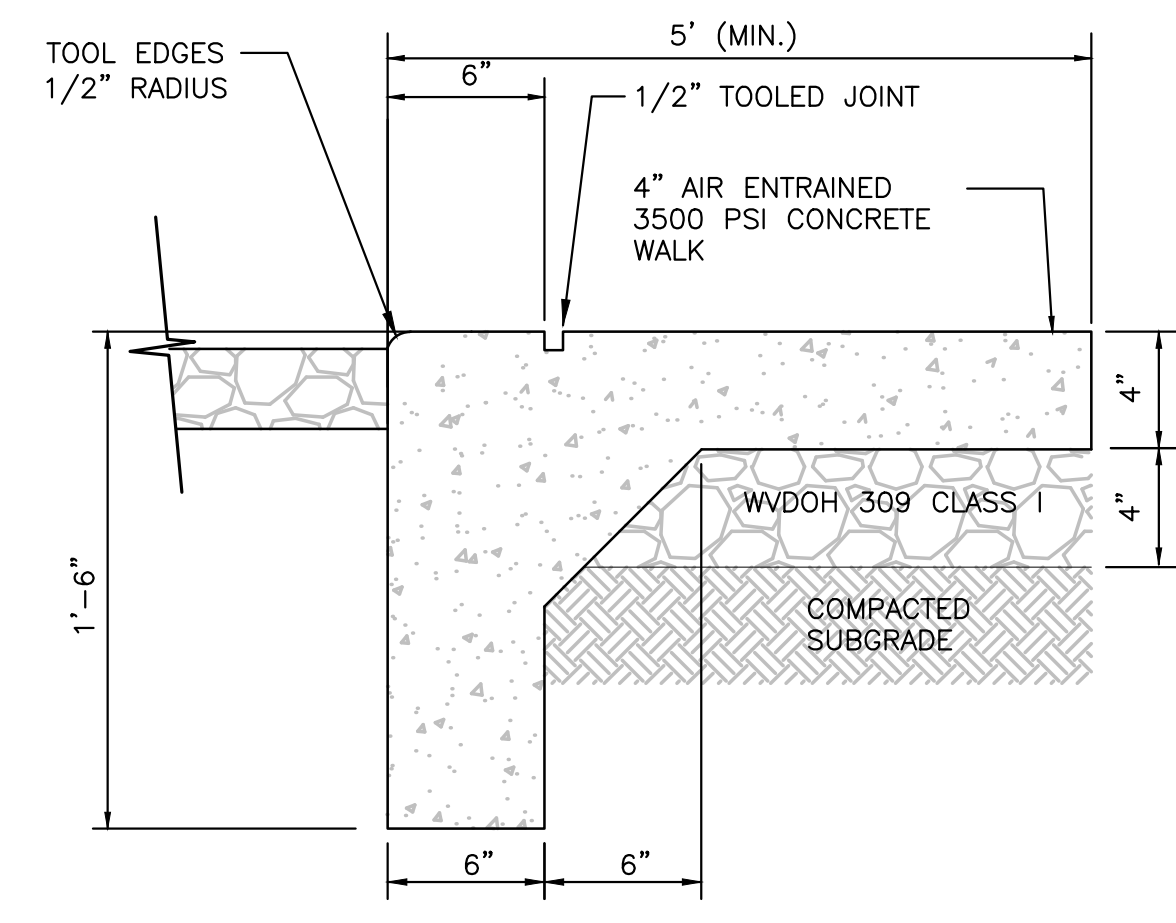
1 PAVEMENT DETAIL
C-3 SCALE : NONE



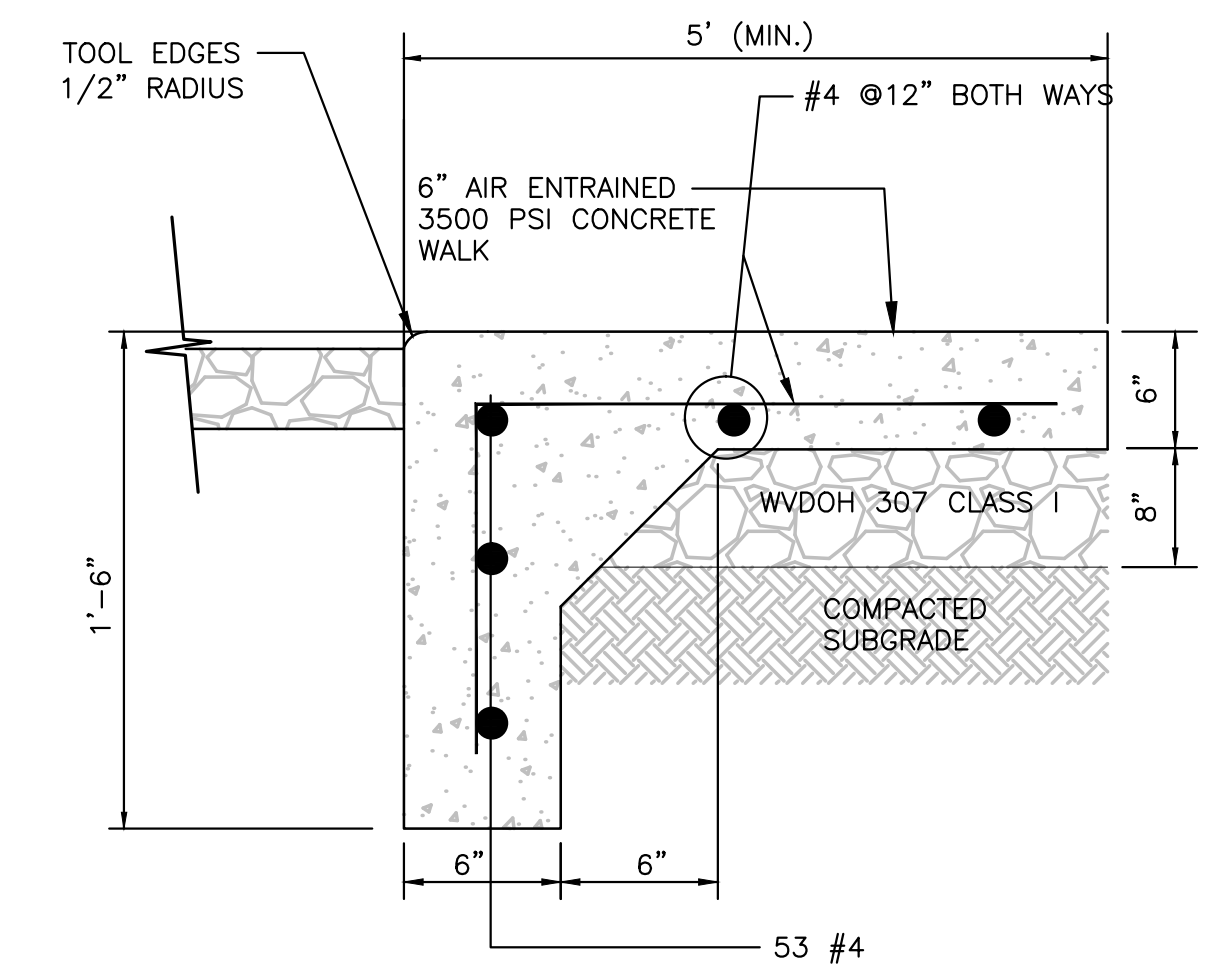
2 CONCRETE UTILITY PAD
C-3 SCALE : NONE



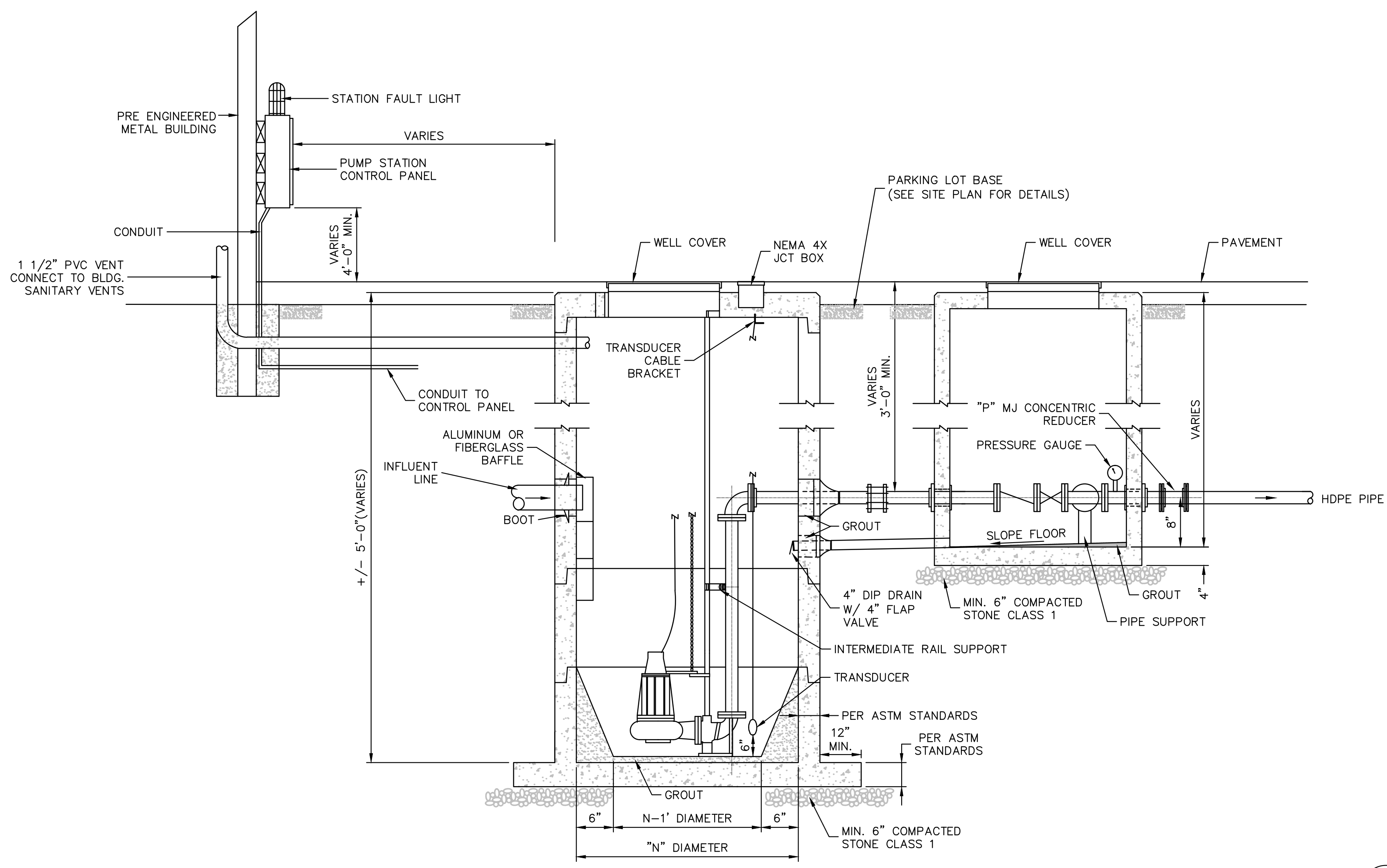
3 TYPICAL BOLLARD
C-3 SCALE : NONE



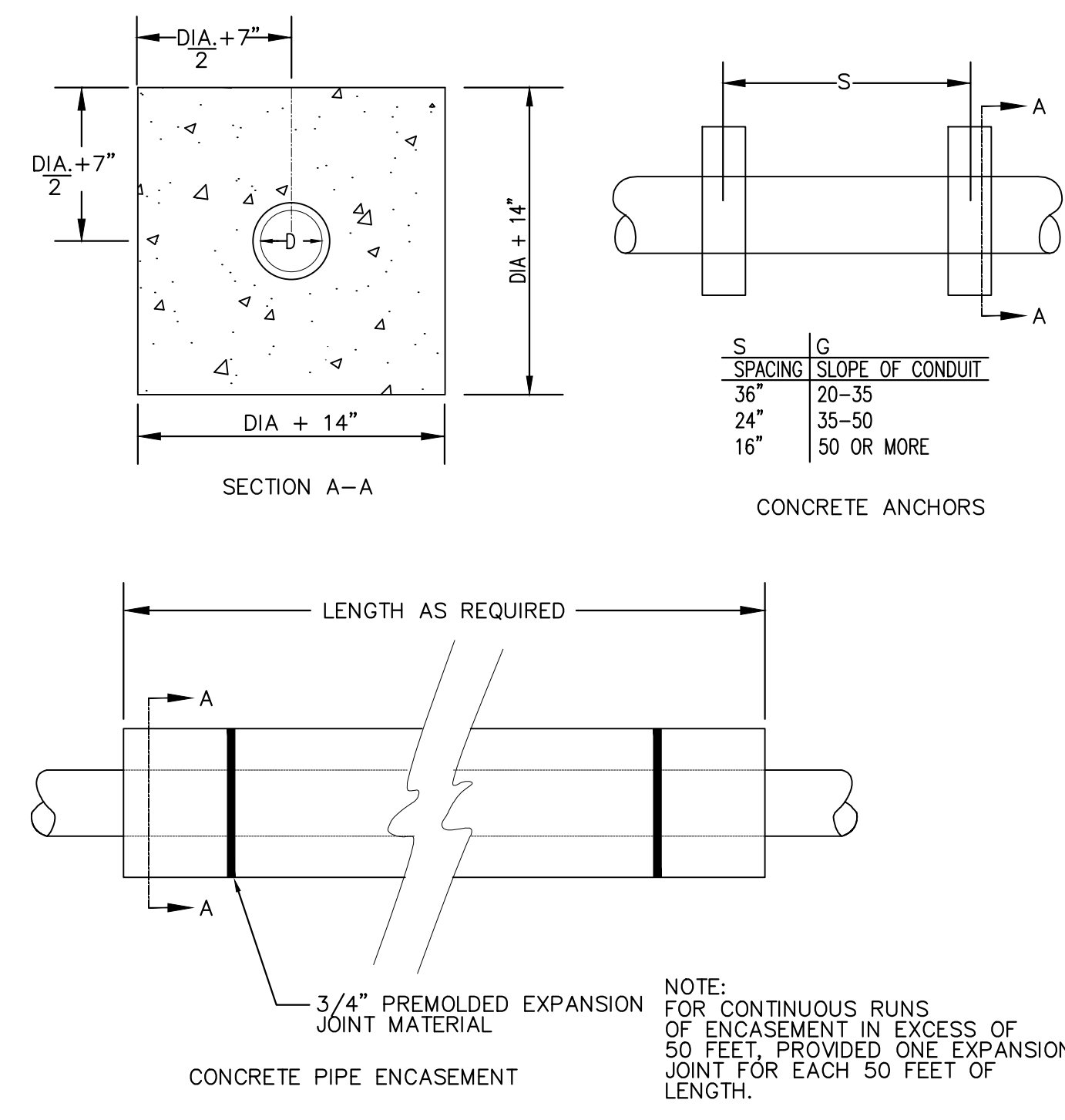
4A CONCRETE APRON
C-3 SCALE : NONE



4B RETAINING WALL
C-3 SCALE : NONE



5 PUMP STATION and VALVE PIT SECTION
C-3 SCALE : NONE



6 CONCRETE ANCHORS and PIPE ENCASEMENT
C-3 SCALE : NONE

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COONSKIN PARK MAINTENANCE FACILITY

SITE DETAILS

Sheet reference number:
C-3

ABBREVIATIONS

ACP	ACOUSTIC CEILING PANEL	FE	FIRE EXTINGUISHER	MISC	MISCELLANEOUS	STR	STRUCTURE
AFF	ABOVE FINISH FLOOR	FEC	FIRE EXTINGUISHER CABINET	MO	MASONRY OPENING	STO	STORAGE
ALUM	ALUMINUM	FL	FLOOR	MR	MOISTURE RESISTANT	SPEC	SPECIFICATION
AUTO	AUTOMATIC	FD	FLOOR DRAIN	MS	METAL STUD	SS	STAINLESS STEEL
ABV	ABOVE	FTG	FOOTING	MTL	METAL	STN	STAIN
BC	BOTTOM OF CURB	GA	GAUGE	NA	NOT APPLICABLE	STD	STANDARD
B.O.	BOTTOM OF	GALV	GALVANIZED	NO	NUMBER	SUSP	SUSPENDED
BLK	BLOCK	GC	GENERAL CONTRACTOR	NOM	NOMINAL	TC	TOP OF CURB
BRG	BEARING	GL	GLASS	NTS	NOT TO SCALE	TH	THICK
BLKG	BLOCKING	GOVT	GOVERNMENT	NIC	NOT IN CONTRACT	TYP	TYPICAL
BD	BOARD	GYP	GYP SUM	OPG	OPENING	TR	TREAD
BLDG	BUILDING	GWB	GYP SUM WALLBOARD	OC	ON CENTER	T.O.	TOP OF
CLG	CEILING	HT	HEIGHT	OH	OVERHEAD	TELE	TELEPHONE
CONC	CONCRETE	HC	HANDICAPPED	OPP	OPPOSITE	TEMP	TEMPERED/TEMPORARY
CONT	CONTINUOUS	HDW	HARDWARE	PL	PLATE	UNF	UNFINISHED
CONTR	CONTRACTOR	HTG	HEATING	PLAM	PLASTIC LAMINATE	UNO	UNLESS NOTED OTHERWISE
CMU	CONCRETE MASONRY UNIT	HVAC	HEATING/VENTILATING/ AIR CONDITIONING	PLYMD	PLYWOOD	USAR	UNITED STATES ARMY RESERVE
CT	CERAMIC TILE	PNL	PANEL	VERT	VERTICAL	VF	VERIFY IN FIELD
C.J.	CONTROL JOINT	HM	HOLLOW METAL	PREF	PREFABRICATED	WD	WOOD
CRS	COURSE	INSUL	INSULATION	PERF	PERFORATED	WH	WATER HEATER
DIAM	DIAMETER	INT	INTERIOR	PR	PAIR	WWF	WELDED WIRE FABRIC
DN	DOWN	JT	JOINT	PT	PAINT	W/O	WITHOUT
DTL	DETAIL	JAN	JANITOR	QT	QUARRY TILE		
DWG	DRAWING	LAM	LAMINATE	R	RISER		
EA	EACH	LAV	LAVATORY	RAD	RADIUS		
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	LH	LEFT HAND	RD	ROOF DRAIN		
EWC	ELECTRIC WATER COOLER	LT	LIGHT	REF	REFERENCE		
EXP	EXPANSION	LVR	LOUVER	REINF	REINFORCED		
EXT	EXTERIOR	MAS	MASONRY	RH	RIGHT HAND		
EQUIP	EQUIPMENT	MAX	MAXIMUM	ROW	RIGHT OF WAY		
ELEC	ELECTRIC	MECH	MECHANICAL	RM	ROOM		
EL	ELEVATION	MFR	MANUFACTURER	RO	ROUGH OPENING		
EMER	EMERGENCY	MIN	MINIMUM	RWC	RAINWATER CONDUCTOR		
F/	FACE OF	MIR	MIRROR	SIM	SIMILAR		
EQ	EQUAL			STL	STEEL		

GENERAL NOTES

- STANDARDS AND REGULATIONS:
- 1) CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH APPLICABLE BUILDING CODES, REGULATIONS, ORDINANCES, UTILITY PROVIDER REQUIREMENTS, AND SIMILAR STANDARDS.
 - 2) CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS OF THE WORK. CONTRACTOR SHALL REGULARLY UPDATE OWNER AND ARCHITECT REGARDING THE STATUS OF INSPECTIONS.
 - 3) CONTRACTOR SHALL COORDINATE WORK WITH APPLICABLE UTILITY PROVIDERS.
 - 4) CONTRACTOR SHALL BE FAMILIAR WITH REQUIREMENTS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH REFERENCED FIRE-RATED ASSEMBLY TESTS AND STANDARDS.
- ADMINISTRATION OF THE WORK:
- 1) CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND DIMENSIONS.
 - 2) CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS AT THE SITE.
 - 3) CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK. ANY KNOWN DISCREPANCIES BETWEEN THE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE OWNER FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK RELATED TO THE DISCREPANCY.
 - 4) CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION AND DEMOLITION DEBRIS. CONTRACTOR SHALL OBTAIN APPROVAL OF OWNER FOR DETAILS RELATING TO THE REMOVAL OF TRASH, INCLUDING SUCH ISSUES AS PATH OF TRAVEL, REMOVAL OF WINDOWS, LOCATION OF CHUTES AND DUMPSTERS, ETC., PRIOR TO REMOVAL OF DEBRIS. CONTRACTOR SHALL CLEAN AND REPAIR ANY DAMAGES TO EXISTING ITEMS SOILED OR DAMAGED BY THE DEBRIS REMOVAL PROCESS. IF CLEANING AND/OR REPAIR DOES NOT RETURN ITEMS TO ORIGINAL CONDITION CONTRACTOR SHALL INSTALL NEW ITEMS.
 - 5) CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH OWNER'S PROCEDURES FOR MAINTAINING A SECURE SITE AND BUILDING.
 - 6) EACH INSTALLER SHALL EXAMINE ALL SUBSTRATE CONDITIONS AND/OR SITE CONDITIONS WHICH AFFECT THE QUALITY OF EACH PRODUCT TO BE INSTALLED. IF ANY CONDITIONS EXIST WHICH WILL HAVE A DETRIMENTAL EFFECT ON THE QUALITY OF THE INSTALLATION, THE INSTALLER SHALL IMMEDIATELY NOTIFY THE CONTRACTOR. INSTALLATION SHALL NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION SHALL SIGNIFY ACCEPTANCE OF THE CONDITIONS.
 - 7) CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON THE SITE AT ALL TIMES.
 - 8) CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COORDINATION EFFORTS OF ALL SUBCONTRACTORS.
 - 9) CONTRACTOR SHALL LAY OUT ALL WORK AS SOON AS POSSIBLE. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- USE OF CONSTRUCTION DOCUMENTS:
- 1) DO NOT SCALE DRAWINGS. ONLY WRITTEN DIMENSIONS OR KEYED NOTES SHALL BE USED. CONTACT ARCHITECT IF CLARIFICATION OR ADDITIONAL INFORMATION IS REQUIRED.
 - 2) THE DRAWINGS ARE SCHEMATIC IN NATURE. MODIFICATIONS IN DUCTS, PIPING, CONDUIT AND WIRING MAY BE REQUIRED TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
 - 3) DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS.
 - 4) DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:
 - A) TO CENTERLINE OF GYPSUM WALLS.
 - B) TO CENTERLINE OF COLUMNS.
 - C) TO TOP OF FLOOR SLAB.
 - D) TO BOTTOM OF FINISHED CEILING.
 - E) TO FACE OF MASONRY OR CONCRETE.
 - 5) VERIFY IN FIELD DIMENSIONS OF ALL DOOR, WINDOW AND LOUVER OPENINGS.
- DEFINITIONS:
- 1) "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.
 - 2) "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE.
 - 3) "MAXIMUM" OR "MAX" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
 - 4) "MINIMUM" OR "MIN" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
 - 5) "TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
 - 6) "*" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION OR QUALITY IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. FIELD VERIFICATION AND COORDINATION WITH OTHER ELEMENTS MIGHT BE NECESSARY.

SYMBOLS LEGEND

ROOM NAME XXXX	ROOM NAME ROOM NUMBER
X	PARTITION TYPE
	DOOR NUMBER PROVIDE 150 HINGE SIDE WALL RETURN ON DOORS, U.N.O. OR CENTER IN WALL
	SECTION CALL-OUT
	DETAIL CALL-OUT
	INTERIOR ELEVATION CALL-OUT
10.01	KEYNOTE
	WINDOW TYPE
	TOILET ACCESSORY
	ELEVATION CALL-OUT
	DETAIL REFERENCE NUMBER SHEET NUMBER DETAIL IS DRAWN ON
	ELEVATION MARK
	METAL STUD AND GWB PARTITION
	CONCRETE
	BRICK
	CONCRETE BLOCK
	FIBERGLASS BATT INSULATION
	RIGID BOARD INSULATION
	CONCRETE OR GROUT (DRAWN IN SECTION)
	CONCRETE PAVING (DRAWN IN PLAN)

COONSKIN PARK MAINTENANCE FACILITY

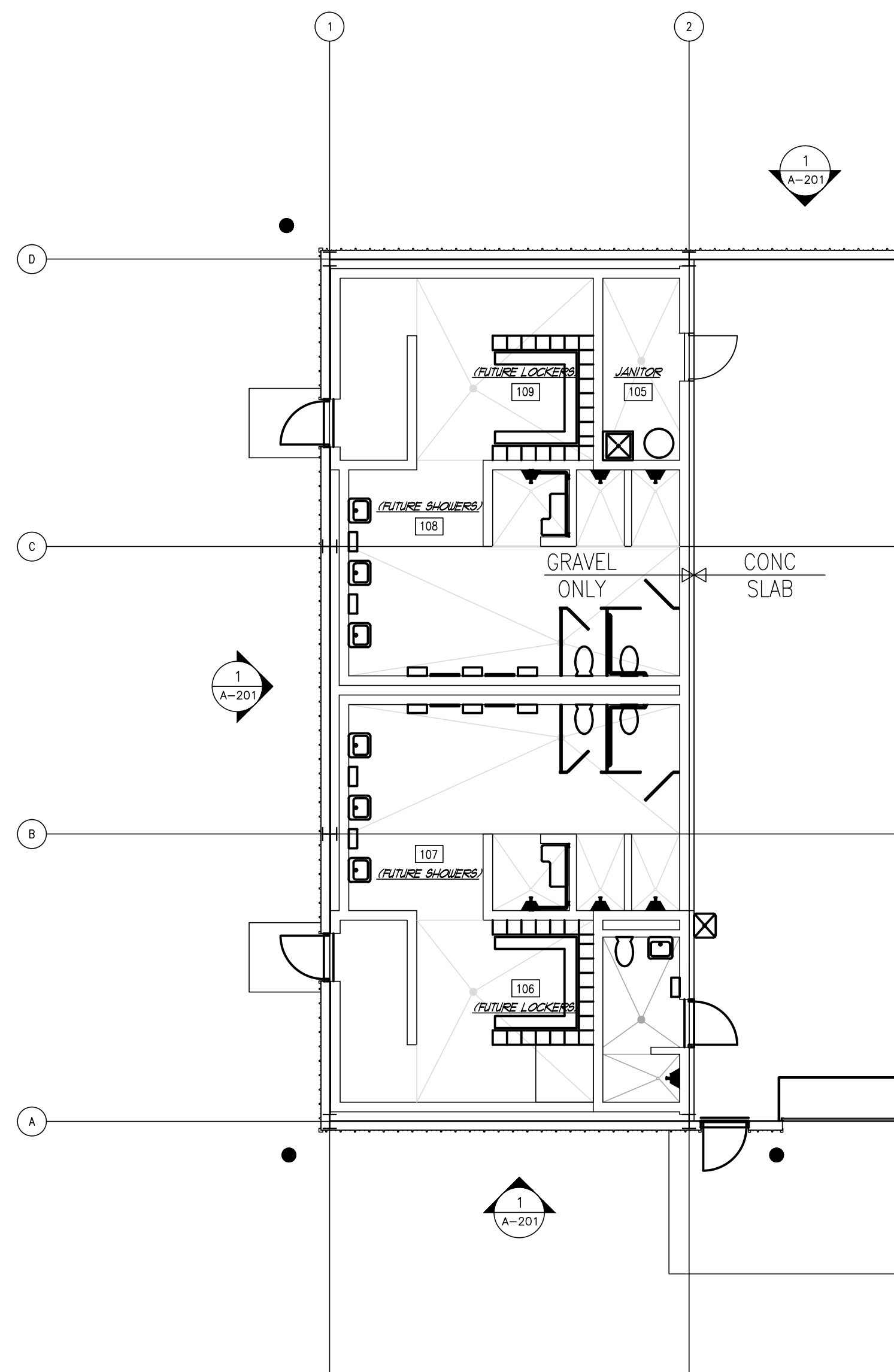
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File name:	12/10/13
Plot date:	

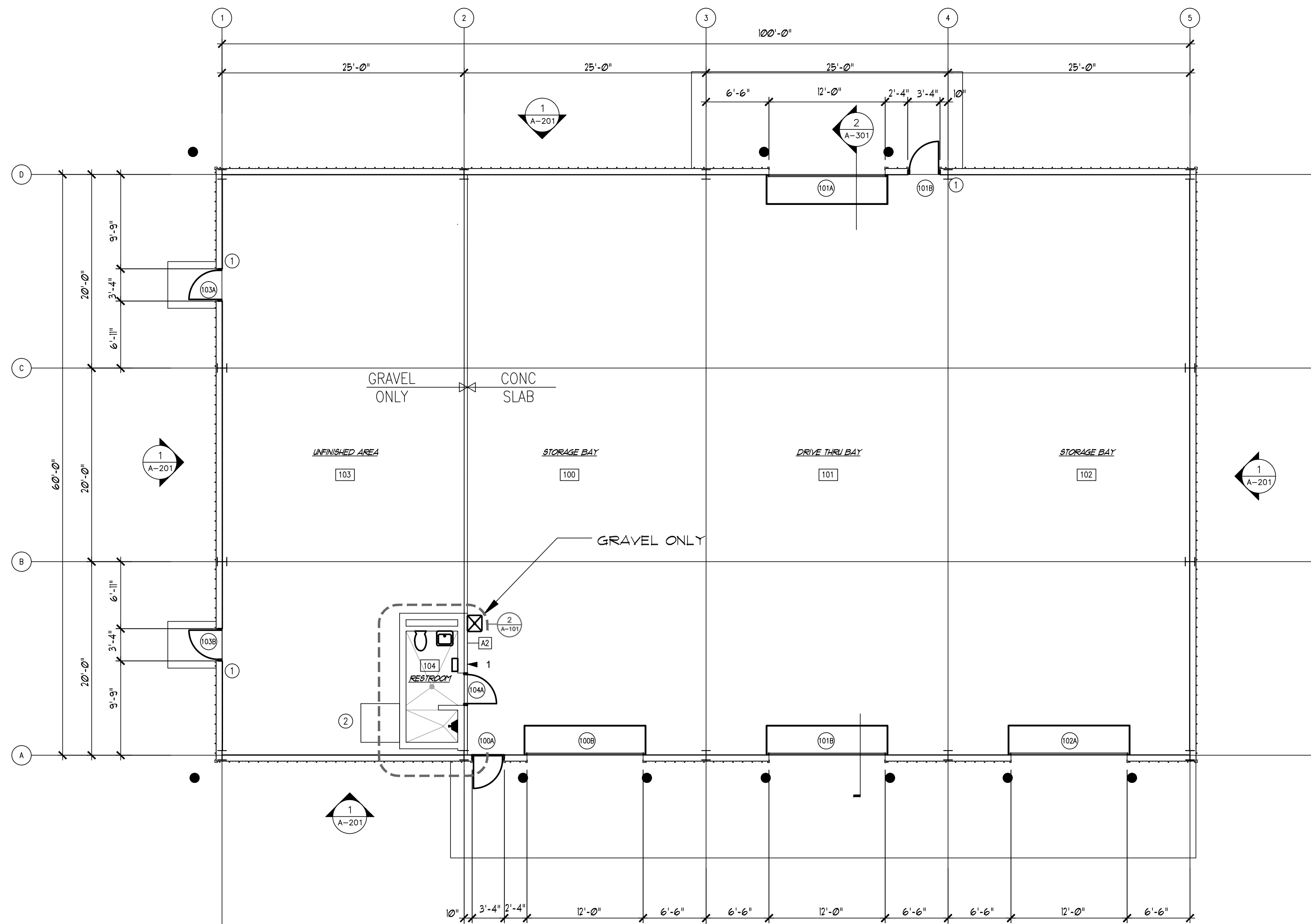
COONSKIN PARK MAINTENANCE FACILITY

ABBREVIATIONS, SYMBOLS LEGEND, AND GENERAL NOTES

Sheet reference number:
A-0.1



2 FLOOR PLAN (FUTURE) (FOR REFERENCE ONLY)
 (FINISHES N.I.C. - U.N.O.)
 SCALE: 1/8" = 1'-0"



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

GENERAL NOTES:

- CONTRACTOR TO PROVIDE BLOCKING IN THE FOLLOWING ROOMS FOR HANGING OWNER SUPPLIED FURNITURE, CABINETS, COUNTERS, ETC.
 - ALL OFFICES
 - DISPATCH
 - COUNTING ROOM
 LOCATION AND HEIGHTS SHALL BE COORDINATED WITH OWNER SUPPLIED FURNITURE PLAN.
- ALL PARTITIONS TO BE A-1 U.N.O.

CODED NOTES:

- FIRE EXTINGUISHER AND HOOK
- HOUSEKEEPING PAD 4'x4'

LEGEND:

- 2 HOUR FIRE WALL
- 1 HOUR FIRE WALL
- SIGN LOCATION - REFER TO SHEET A-601 FOR SIGNAGE SCHEDULE

COONSKIN PARK MAINTENANCE FACILITY

Baker

REV. O	DESCRIPTION	DATE

Designed by:	Date:	Rev.
Dim by: MPJ	12/10/13	135625
Reviewed by:	Drawing code:	
Submitted by: RLB	File name:	12/10/13
	Plot name:	PLT

COONSKIN PARK MAINTENANCE FACILITY

Sheet reference number:
A-1.1

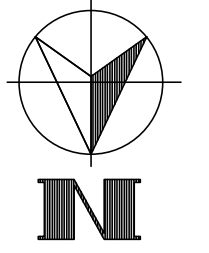
SYMBOL	DOOR LOCATION	SIGN VERBAGE
1	104A	RESTROOM

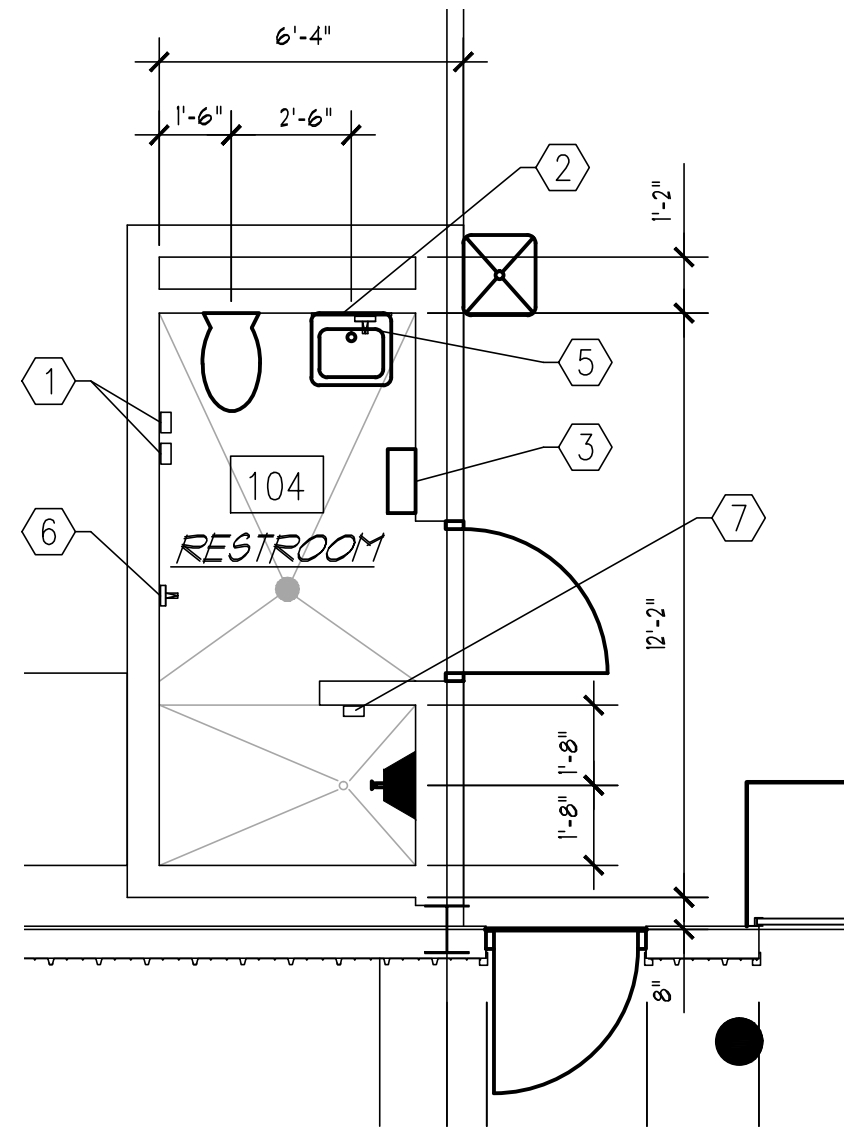
NOTE: TOILET ROOM 104 IS NOT HANDICAPPED EQUIPPED

NO.	ROOM NAME	FLOOR		WALLS				CEILING		REMARKS
		FLR	BASE	N	S	E	W	CLG	HT	
100	STORAGE BAY	SC	NONE	-	-	-	FNT	ES	VARIES	①
101	DRIVE THRU BAY	SC	NONE	-	-	-	-	ES	VARIES	
102	STORAGE BAY	SC	NONE	-	-	-	-	ES	VARIES	
103	UNFINISHED AREA	GR	NONE	-	FNT	FNT	-	ES	VARIES	①
100	STORAGE BAY	SC	NONE	-	-	-	-	ES	VARIES	
104	RESTROOM	SC	NONE	FNT	FNT	FNT	FNT	GWB	8'-0"	② ③

NOTE: ① PAINT ALL EXPOSED CMU AROUND ROOM 104
 ② PAINT CEILING
 ③ PAINT CMU WALL (ARCHITECT TO SELECT TWO COLORS)

ABBREVIATIONS:
 FNT=PAINT
 ACT=ACCOUSTICLE CEILING TILE
 ES=EXPOSED STEEL
 SC=SEALED CONCRETE
 GWB=GYPSUM WALL BOARD OVER 3/8" METAL STUDS @ 1'-4" O.C.
 GR=GRAVEL

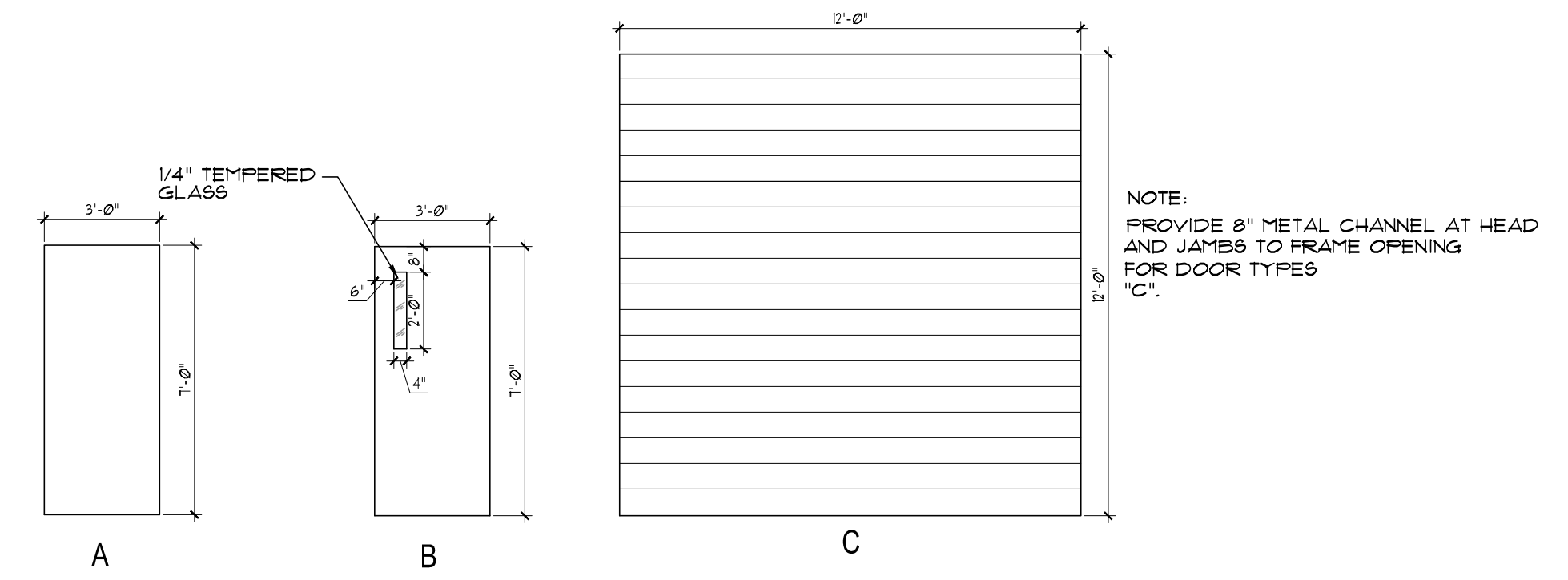




TOILET ACCESSORY SCHEDULE		
EACH RESTROOM TO RECEIVE THE FOLLOWING ITEMS:		
QUANTITY	DESCRIPTION	
1	TOILET TISSUE DISPENSER DOUBLE ROLL BOBRICK # B-3888	
2	MIRROR 30"X12" W BOBRICK # B-290 SERIES	
3	PAPER TOWEL DISPENSER/DISPOSAL BOBRICK # B-269	
4	SOAP DISPENSER BOBRICK # B-40	
5	UNDER LAVATORY GUARD (ANTI-MICROBIAL, MOLDED PLASTIC, GREY)	
6	ROBE HOOK BOBRICK # B-1612	
7	SOAP DISH BOBRICK # B-1680	

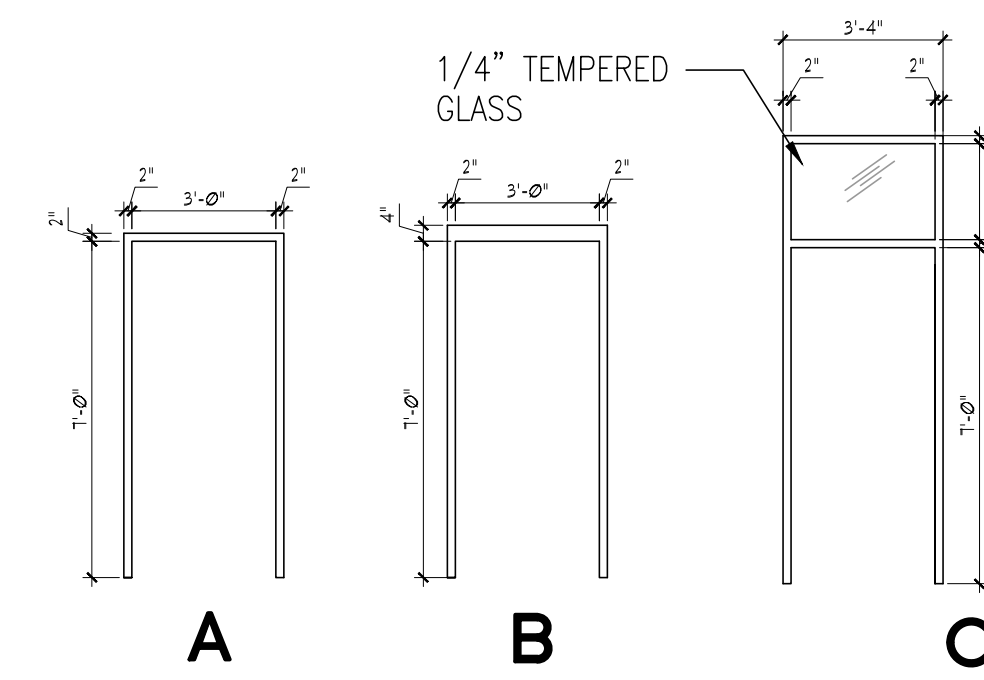
1 ENLARGED FLOOR PLAN

A-12 SCALE: 1/4" = 1'-0"



2 DOOR TYPES

A-12 SCALE: 1/4" = 1'-0"

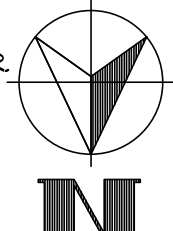


3 FRAME TYPES

A-12 SCALE: 1/4" = 1'-0"

DOOR No.	DOOR DIMENSION			MATERIAL	TYPE	GLAZING	FRAME DETAIL			MATERIAL	TYPE	HARDWARE SET	FIRE RATING LABEL	REMARKS
	WIDTH	HEIGHT	THICK				HEAD	JAMB	SILL					
	100A	3'-0"	7'-0"				1 3/4"	HM	B					
100B	3'-0"	7'-0"	1 3/4"	STL	C	-	-	-	-	STL	C	1	(1)(2)(3)(4)	
101A	3'-0"	7'-0"	1 3/4"	STL	C	-	-	-	-	STL	C	1	(1)(2)(3)(4)	
101B	3'-0"	7'-0"	1 3/4"	HM	B	VL	-	-	-	HM	C	1	(1)(2)(4)	
101C	3'-0"	7'-0"	1 3/4"	HM	B	VL	-	-	-	HM	C	1	(1)(2)(3)(4)	
102A	3'-0"	7'-0"	1 3/4"	STL	C	-	-	-	-	STL	C	1	(1)(2)(3)(4)	
102B	3'-0"	7'-0"	1 3/4"	STL	C	-	-	-	-	STL	C	1	(1)(2)(3)(4)	
103A	3'-0"	7'-0"	1 3/4"	HM	B	VL	-	-	-	HM	C	1	(1)(2)(4)	
103B	3'-0"	7'-0"	1 3/4"	HM	B	VL	-	-	-	HM	C	1	(1)(2)(4)	
104A	3'-0"	7'-0"	1 3/4"	HM	A	-	-	-	-	HM	B	2	90 MIN (1)(4)	

NOTE: ① COORDINATE HEAD JAMB AND THRESHOLD DETAILS IN MAINTENANCE BAYS WITH METAL BUILDING MANUFACTURER.
 ② VERIFY JAMB DEPTH WITH PRE-ENGINEERED METAL BUILDING MANUFACTURER.
 ③ ALL HARDWARE FOR OVERHEAD COILING DOORS SHALL BE PROVIDED BY OVERHEAD DOOR MANUFACTURER.
 ④ ALL DOORS, FRAMES AND EXPOSED STEEL SHALL BE PAINTED ON ALL EXTERIOR AND INTERIOR SURFACES.



COONSKIN PARK MAINTENANCE FACILITY
Baker

REV	DESCRIPTION	DATE	BY

Designed by:	Date:	Rev.
Drawn by: MPJ	12/10/13	1
Reviewed by:	Project No. 135625	
Submitted by: RLB	Drawing code: -	
	File name: 12/10/13	
	Plot date: 12/10/13	

COONSKIN PARK
 MAINTENANCE FACILITY

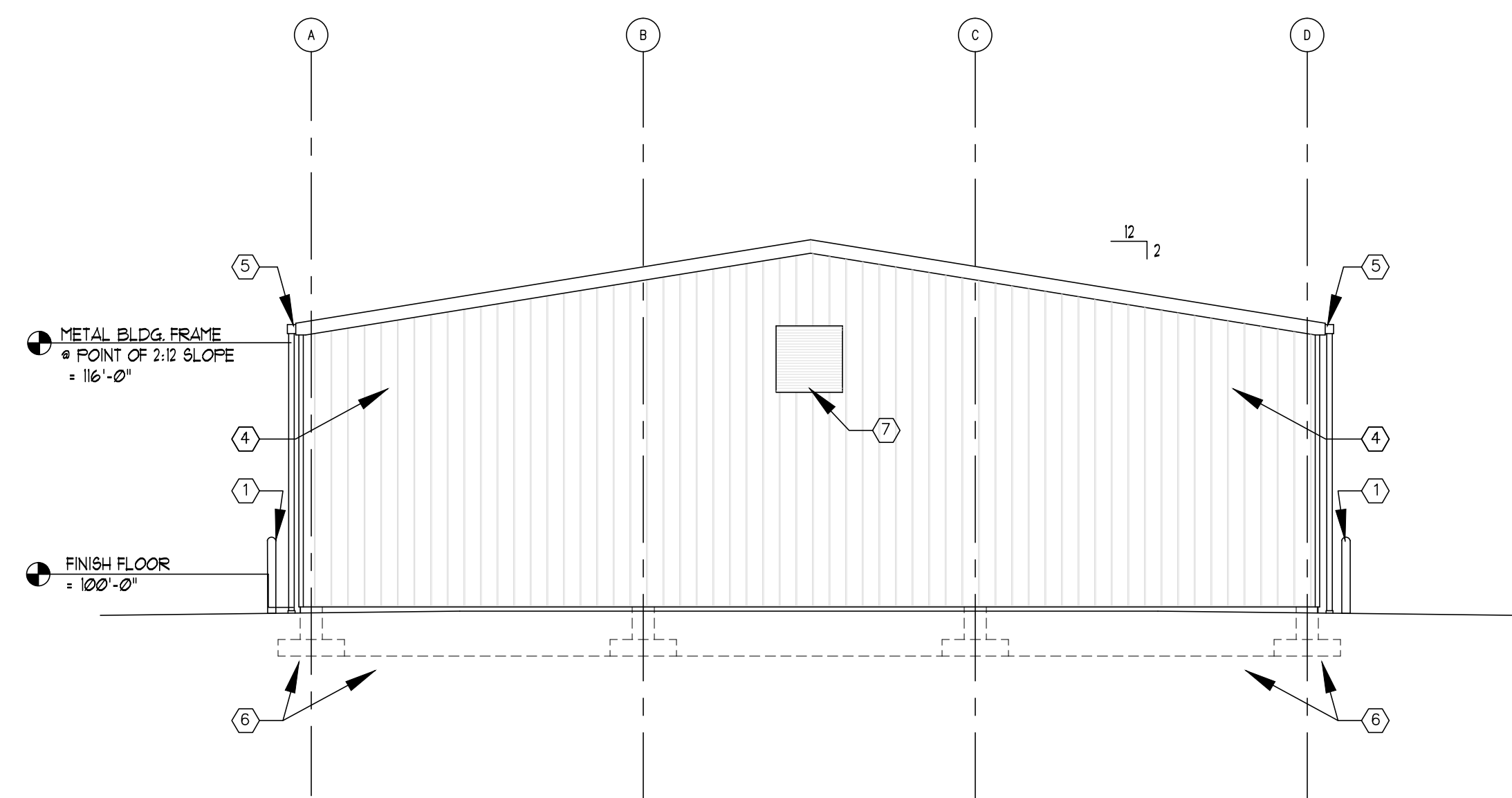
Sheet reference number:
A-1.2

GENERAL NOTES:

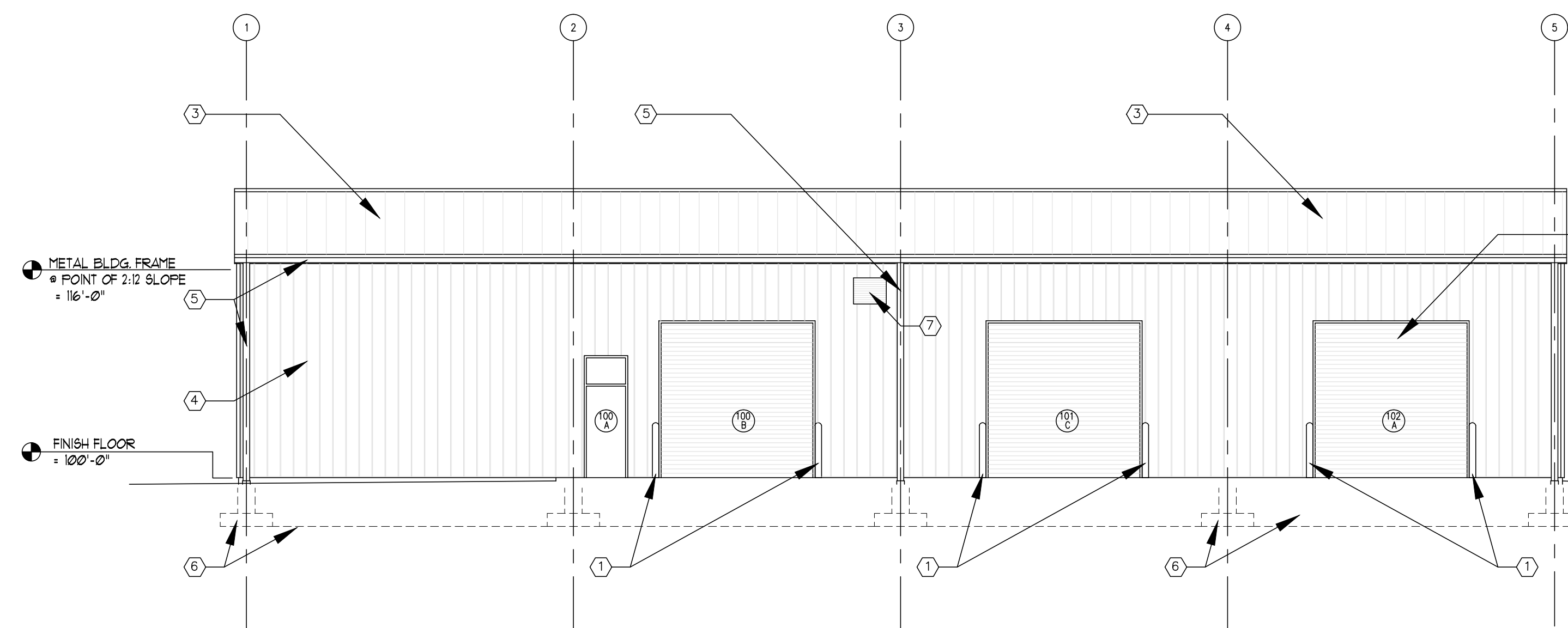
1. CONTRACTOR TO PROVIDE BLOCKING IN THE FOLLOWING ROOMS FOR HANGING OWNER SUPPLIED FURNITURE, CABINETS, COUNTERS, ETC. LOCATION AND HEIGHTS SHALL BE COORDINATED WITH OWNER.

KEYED NOTES:

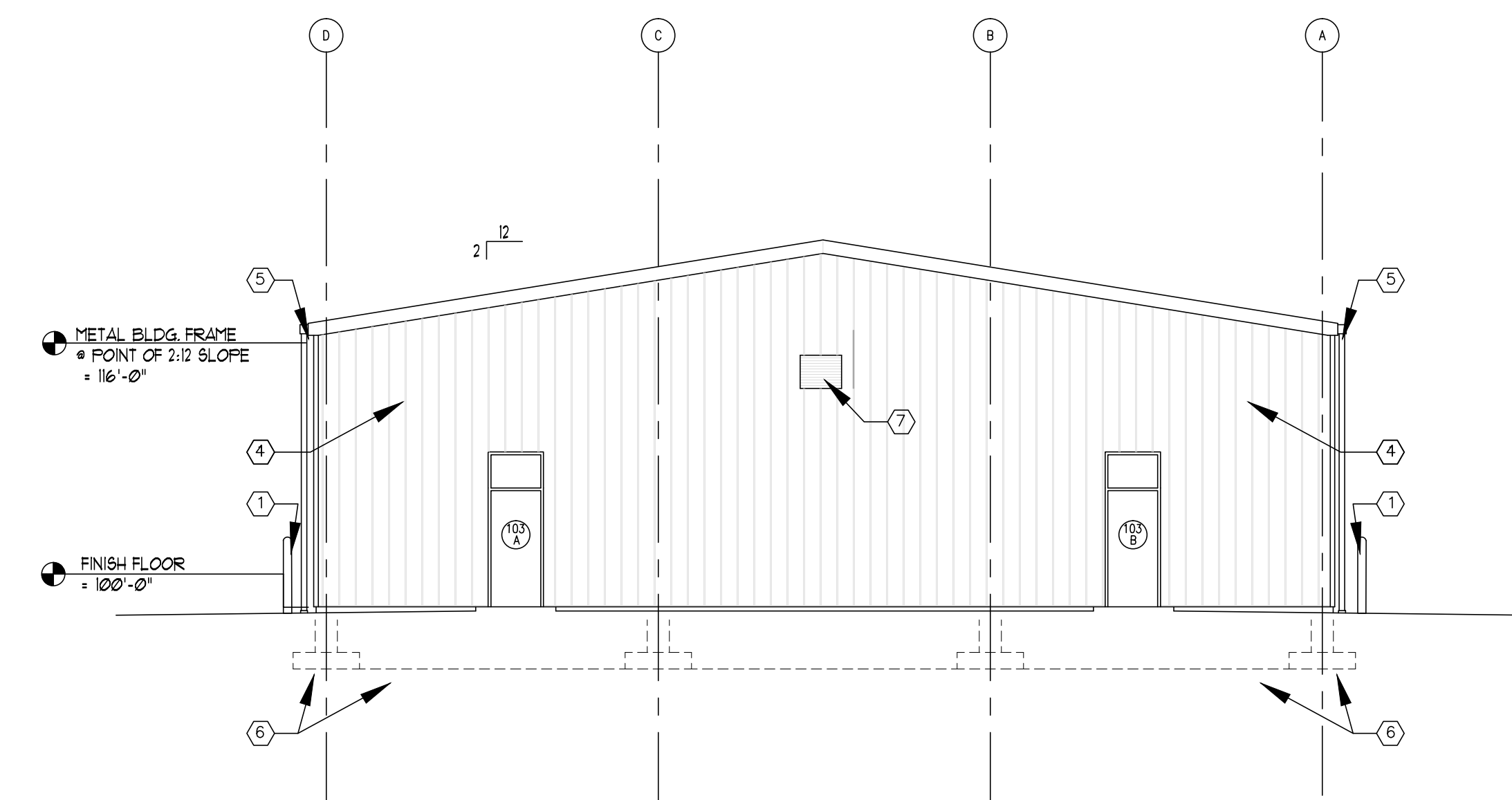
- ① BOLLARDS (TYP)
- ② 10'W x 12'H OVERHEAD DOOR (TYP)
- ③ METAL BUILDING STANDING SEAM ROOF (TYP)
- ④ METAL BUILDING SIDING (TYP)
- ⑤ GUTTER AND DOWNSPOUTS (TYP)
- ⑥ FOUNDATION - SEE STRUCTURAL
- ⑦ LOUVERS - SEE MECHANICAL



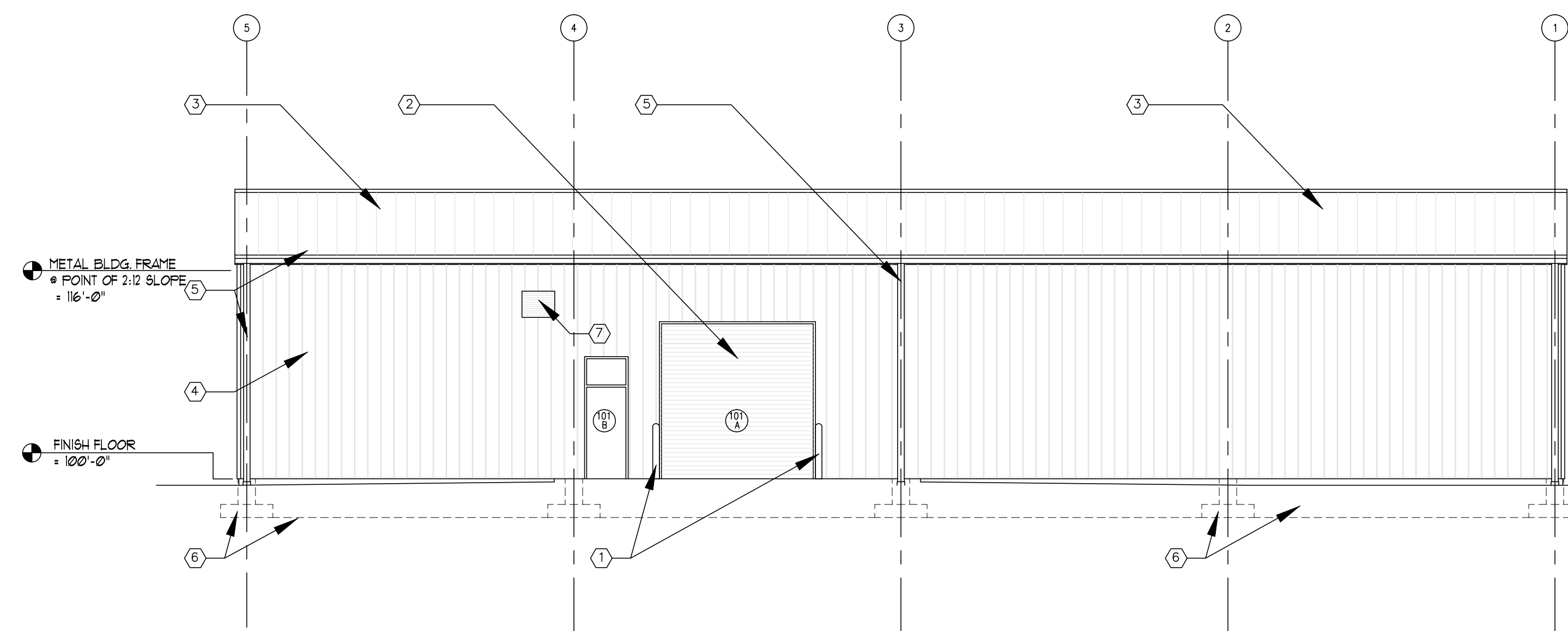
1 **SIDE ELEVATION**
SCALE: 1/8" = 1'-0"



2 **FRONT ELEVATION**
SCALE: 1/8" = 1'-0"



3 **SIDE ELEVATION**
SCALE: 1/8" = 1'-0"



4 **REAR ELEVATION**
SCALE: 1/8" = 1'-0"

COONSKIN PARK MAINTENANCE FACILITY

Baker
Michael Baker Corp., Inc.

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Denver, Colorado 80231
Phone (303) 769-0820
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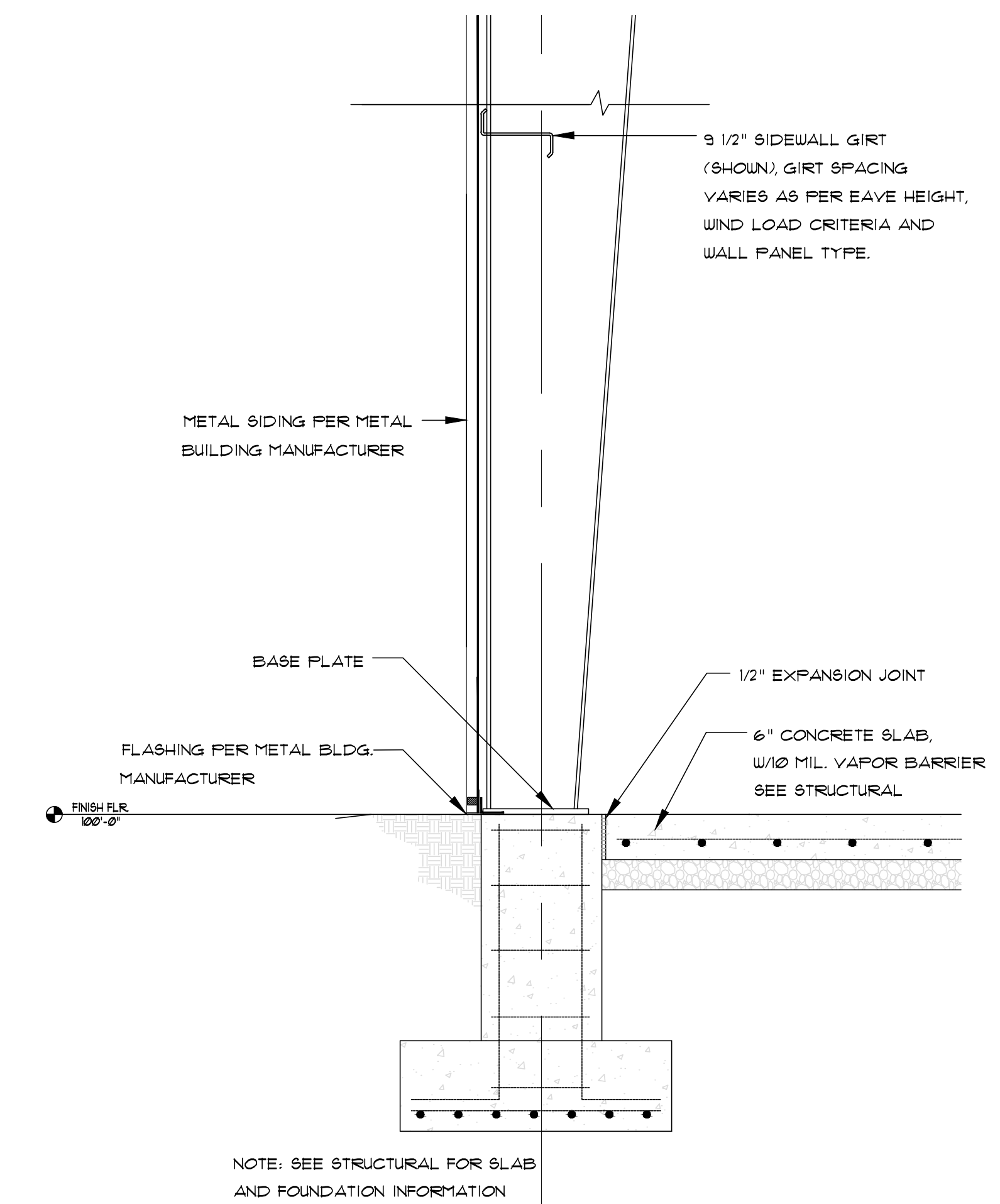
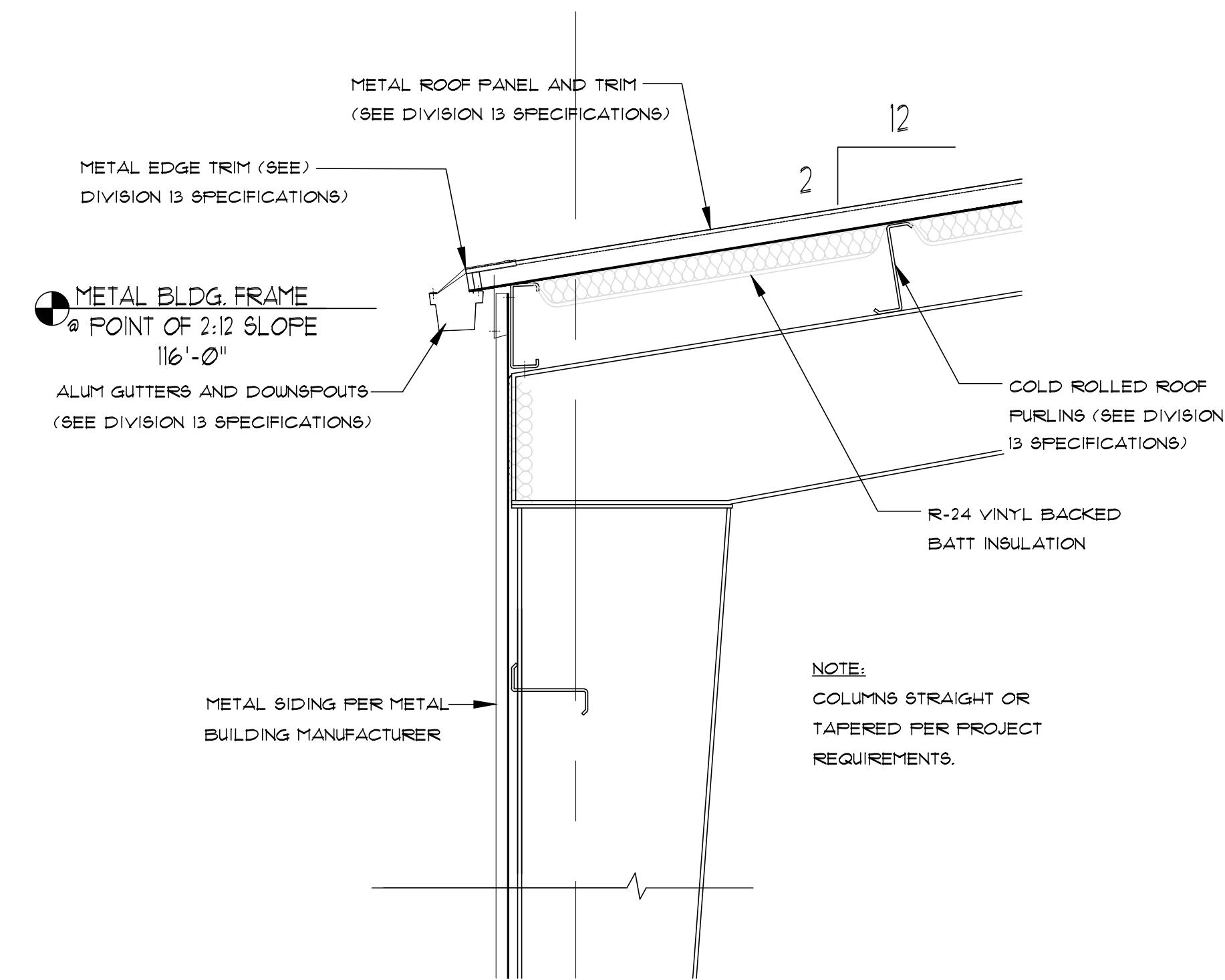
REV	DESCRIPTION	DATE	BY

Designed by:	MPJ	Date:	12/10/13	Rev.	1
Drawn by:		Project No.:	135625		
Reviewed by:		Drawing code:			
Submitted by:	RLB	File name:	12/10/13		
		Plot name:	1013		

COONSKIN PARK
MAINTENANCE FACILITY

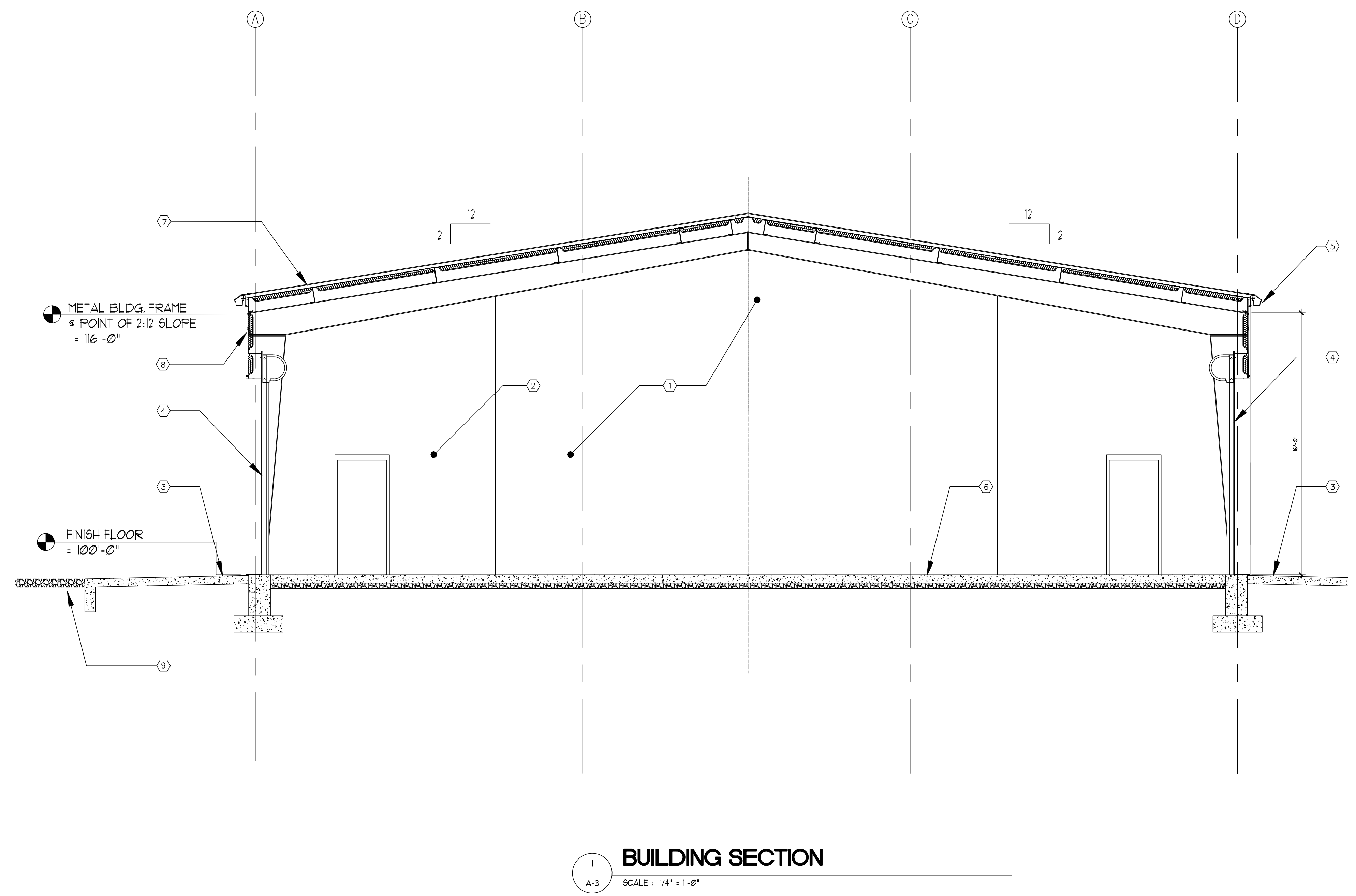
SCHMATIC
BUILDING ELEVATIONS

Sheet reference
number:
A-2



2 WALL SECTION
A-31 SCALE: 3/4" = 1'-0"

- KETED NOTES:**
- ① FUTURE CMU WALL
 - ② FIRE RATED CMU WALL
 - ③ CONCRETE APRON - SEE CIVIL
 - ④ COILING OVERHEAD DOOR
 - ⑤ GUTTER
 - ⑥ 6" CONCRETE SLAB - SEE STRUCTURAL
 - ⑦ PRE-ENGINEERED BUILDING ROOFING SYSTEM
 - ⑧ PRE-ENGINEERED BUILDING WALL SYSTEM
 - ⑨ GRAVEL DRIVE- RAMP UP AT APRONS



1 BUILDING SECTION
A-3 SCALE: 1/4" = 1'-0"

COONSKIN PARK MAINTENANCE FACILITY

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REV	DESCRIPTION	DATE

Designed by:	Date:	Rev.
Drawn by: MPJ	12/10/13	135625
Reviewed by:	Project No.:	135625
Submitted by: RLB	Drawing code:	
	File name:	12/10/13
	Plot scale:	Plot scale

COONSKIN PARK
MAINTENANCE FACILITY

SCHMATIC
BUILDING SECTION

Sheet reference
number:
A-3

STRUCTURAL GENERAL NOTES

GENERAL

THESE NOTES ARE FOR GENERAL INFORMATION, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK, AND DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS MUST BE REPORTED IMMEDIATELY TO THE ENGINEER/ARCHITECT.

COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR LINTELS, SHELF ANGLES, SIZE AND LOCATION OF FLOOR SLOPES, DERESSED AREAS, FINISH FILLS, CHAMFERS, GROOVES, ROOF EDGES, INSERTS, ETC.

COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR PIPE SLEEVES, FLOOR DRAINS, ROOF DRAINS, INSERTS, HANGERS, TRENCHES, PITS, WALL AND SLAB OPENINGS, CONDUIT RUNS IN WALLS AND SLABS, SIZE AND LOCATION OF MACHINE OR EQUIPMENT SUPPORTS, BASE AND ANCHOR BOLTS, ETC.

COORDINATE WITH SITE, ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND CIVIL DRAWINGS FOR RETAINING WALLS, PADS, PAVEMENT AND OTHER EXTERIOR STRUCTURES.

SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER/ARCHITECT.

THE STRUCTURE IS DESIGNED TO BE STABLE AND SELF-SUPPORTING AT THE COMPLETION OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE STABILITY AND SAFETY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING OR TIE-DOWNS THAT MAY BE NECESSARY.

DESIGN LOADS

DEAD LOADS: SELF-WEIGHT

LIVE LOADS:
FIRST FLOOR 100 PSF
ROOF 20 PSF

ROOF SNOW LOADS:
GROUND SNOW LOAD, Pg 30 PSF
ROOF SNOW LOAD 23 PSF
EXPOSURE FACTOR, Ce 1.0
THERMAL FACTOR, Ct 1.0
SLIDING SNOW SURCHARGE 0 PSF
RAIN-ON-SNOW SURCHARGE 5 PSF

WIND DESIGN DATA:
BASIC WIND SPEED (3-SECOND GUST) 90 MPH
WIND IMPORTANCE FACTOR, Iw 1.0
BUILDING CATEGORY 11
WIND EXPOSURE C
POSITIVE ROOF PRESSURE, COMPONENTS AND CLADDING 11 PSF
NEGATIVE ROOF PRESSURE, COMPONENTS AND CLADDING 44 PSF
POSITIVE WALL PRESSURE, COMPONENTS AND CLADDING 19 PSF
NEGATIVE WALL PRESSURE, COMPONENTS AND CLADDING 25 PSF

EARTHQUAKE DESIGN DATA:
SEISMIC IMPORTANCE FACTOR, IE 1.0
SEISMIC USE GROUP 1
SITE CLASS 0
MAPPED SPECTRAL RESPONSE ACCELERATIONS, Ss AND S1 21.5% and 8.7%
SPECTRAL RESPONSE COEFFICIENTS, SDS AND SD1 22.9% AND 13.9%
SEISMIC DESIGN CATEGORY C
BASIC SEISMIC-FORCE-RESISTING SYSTEM BEARING WALL SYSTEMS
LIGHT FRAMES WALL SYSTEM
USING FLAT STRAP BRACING
SEISMIC RESPONSE COEFFICIENT, Cs 5.7%
RESPONSE MODIFICATION FACTOR, R 4.0
ANALYSIS PROCEDURE USED EQUIVALENT LATERAL FORCE

CODES AND SPECIFICATIONS

INTERNATIONAL BUILDING CODE - 2006 EDITION
AMERICAN CONCRETE INSTITUTE:
ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
ACI 302.1R "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
ACI 304R "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
ACI 311.1R "ACI MANUAL OF CONCRETE INSPECTION (SP-2)"
ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
ACI 347r "GUIDE TO FORMWORK FOR CONCRETE"
ACI SP-15FIELD REFERENCE MANUAL
ACI 530 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) - MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN, 13TH EDITION
SD1-01:
"SPECIFICATIONS AND COMMENTARIES FOR NONCOMPOSITE STEEL DECK"
"SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK"

ABBREVIATIONS

AB = ANCHOR BOLT
C/C = CENTER TO CENTER
CONT = CONTINUOUS
EF = EACH FACE
EL = ELEVATION
EW = EACH WAY
FD = FLOOR DRAIN
IJ = ISOLATION JOINT
O.O. = ON CENTER
SP = SPACE
T&B = TOP AND BOTTOM
TYP = TYPICAL
U.N.O. = UNLESS NOTED OTHERWISE
WWR = WELDED WIRE REINFORCEMENT

CONCRETE AND REINFORCEMENT

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318.

ALL REINFORCING DETAILS SHALL CONFORM TO "DETAILS AND DETAILING OF REINFORCEMENT" ACI 315, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.

VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO SLEEVE, OPENING, ANCHOR BOLT, OR INSERT, SHALL BE CAST INTO CONCRETE UNLESS SHOWN ON SHOP DRAWINGS WHICH HAVE BEEN REVIEWED BY THE ENGINEER.

PROVIDE ADEQUATE BOLSTERS, HI-CHAIRS, SUPPORT BARS, ETC., TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS. CONTRACTOR SHALL SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS TO THE ENGINEER FOR REVIEW.

PROVIDE ¼-INCH CHAMFER ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS.

ALL REINFORCING DETAILS SHALL CONFORM TO "DETAILS AND DETAILING OF REINFORCEMENT" ACI 315, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.

DO NOT PLACE REINFORCING STEEL OR CONCRETE FOR FOOTINGS AND SLABS ON GRADE UNTIL THE BEARING SURFACE HAS BEEN APPROVED BY THE ENGINEER.

DO NOT PLACE, CONCRETE IN EXCAVATION CONTAINING WATER OR FROZEN SOIL.

VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO SLEEVE, OPENING, ANCHOR BOLT, OR INSERT, SHALL BE CAST INTO CONCRETE UNLESS SHOWN ON SHOP DRAWINGS WHICH HAVE BEEN REVIEWED BY THE ENGINEER.

IN CONSTRUCTION JOINTS IN BEAMS, SUPPORTED SLABS AND WALL FOOTINGS, PROVIDE HORIZONTAL KEYWAYS AT MEMBER CENTERLINE WITH A DEPTH OF 1 ½ INCH AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBER'S DEPTH.

ALL SLAB ON GRADE CONSTRUCTION JOINTS TO BE TOOLED (1/8" X 2" DEEP) AND FILLED WITH SEALANT U.N.O.

PITCH CONCRETE SLABS TO FLOOR DRAINS SHOWN ON MECHANICAL AND ARCHITECTURAL DRAWINGS.

IN CONSTRUCTION JOINTS IN SLABS, WALL FOOTINGS PROVIDE HORIZONTAL KEYWAYS AT MEMBER CENTERLINE WITH A DEPTH OF 1 ½ INCH AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBER'S DEPTH. CONTINUE REINFORCING THROUGH JOINT. SUBMIT LOCATION OF JOINTS FOR APPROVAL.

SEE ARCHITECTURAL DRAWINGS FOR FINISH MATERIAL APPLIED TO CONCRETE SURFACES. COORDINATE CONCRETE DIMENSIONS, LEDGES, ETC. WITH ARCHITECTURAL DETAILS.

CONCRETE PROTECTION (COVER) FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS:

CAST-IN-PLACE CONCRETE CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 IN.
CONCRETE EXPOSED TO EARTH OF WEATHER #6 THROUGH #18 BARS #5 BAR, W31 OR D31 WIRE AND SMALLER	2 IN. 1 ½ IN.
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, WALL, JOISTS #11 BAR AND SMALLER	¾ IN.

ALL REINFORCING STEEL LAP SPLICES SHALL CONFORM TO THE "MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE" UNLESS SHOWN OR NOTE OTHERWISE. ANCHORAGE DIMENSION SHALL BE AS SHOWN OR NOTED.

MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE (4,000 PSI CONCRETE)					
BAR SIZE	TOP BARS		BAR SIZE	OTHER BARS	
	SPLICE	ANCHORAGE		SPLICE	ANCHORAGE
#3	16"	12"	#3	16"	12"
#4	20"	15"	#4	16"	12"
#5	24"	19"	#5	19"	15"
#6	29"	23"	#6	23"	17"
#7	42"	33"	#7	33"	25"
#8	49"	37"	#8	37"	29"

NOTES:

- WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE SPLICE DIMENSION OF THE SMALLER BAR OR THE ANCHORAGE DIMENSION OF THE LARGE BAR. USE WHICHEVER DIMENSION IS LARGER.
- TOP BARS SHALL BE BEAM AND SLAB HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE TOP REINFORCEMENT.
- ALL STANDARD HOOKS PER ACI-318.
- THIS TABLE SHALL NOT BE USED WHERE CLEAR COVER IS LESS THAN 2" OR WHERE CENTER TO CENTER BAR SPACING IS LESS THAN 6".

ALL CONTINUOUS VERTICAL OR HORIZONTAL BARS IN FOOTINGS, FOUNDATION WALLS, SLABS, PIERS, AND OTHER CONCRETE SHALL BE LAP-SPLICED BY WIRING TOGETHER IN CONTACT, U.N.O.

ALLOW 12 HOURS TO ELAPSE BETWEEN ADJACENT CONCRETE POURS.

ALL WELDED WIRE FABRIC SHALL BE SUPPLIED IN MATS (NOT ROLLS).

ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH TWO COATS OF MASTIC.

LAP SPLICE WELDED WIRE FABRIC ONE SPACE PLUS 2 INCHES AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS. PLACE MESH 2 INCHES FROM TOP OF SLAB FOR SLABS ON GROUND AND 1 INCH FROM TOP OF SUPPORTED SLABS U.N.O.

NO HORIZONTAL ELECTRICAL CONDUIT SHALL BE PLACED IN SLABS.

MAXIMUM SPACING OF CONTROL JOINTS IN SLABS ON GRADE SHALL BE 12' FOR 4' SLABS, 13' FOR 5' SLABS, 15' FOR 6' SLABS, 18' FOR 7' SLABS, 20' FOR 8' SLABS. LENGTH TO WIDTH RATIO NOT TO EXCEED 1.25.

NEW CONCRETE SHALL BE BONDED TO THE EXISTING CONCRETE WITH A STRUCTURAL ADHESIVE BONDING AGENT PER SPECIFICATIONS OR APPROVED EQUAL BY ENGINEER. THE SELECTION OF THE SPECIFIC BONDING AGENT AS WELL AS THE PLACEMENT OF THE BONDING AGENT SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS.

PROVIDE A VAPOR BARRIER UNDER ALL INTERIOR SLABS ON GRADE PER SPECIFICATIONS.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, ALLOWABLE STRESS DESIGN.

WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1.

UNLESS SPECIFIC REACTIONS, MOMENTS, SHEARS, AND AXIAL FORCES ARE INDICATED, PROVIDE BEAM CONNECTIONS DESIGNED FOR THE REACTION DUE TO MAXIMUM UNIFORM LOAD WHICH BEAM CAN SUPPORT AT ITS SPAN SHOWN IN AISC MANUAL OF STEEL CONNECTION, ALLOWABLE STRESS DESIGN ON THE ALLOWABLE LOADS ON BEAM TABLES.

FRAMED BEAM CONNECTIONS SHALL BE USED WHERE POSSIBLE FOR CONNECTION OF ALL BEAMS, PURLINS, AND GIRTS UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

CONNECTION PLATES SUCH AS COLUMN CAP PLATES, COLUMN BASE PLATES, AND OTHER SIMILAR CONNECTION PLATES SHALL BE SHOP WELDED TO STRUCTURAL STEEL MEMBERS WITH FULL-LENGTH, CONTINUOUS FILET WELDS ON EACH SIDE OF PLATE UNLESS SHOWN OTHERWISE.

STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

STRUCTURAL WIDE FLANGES, ASTM A992, GRADE 50 KSI

STRUCTURAL PLATES AND ANGLES, ASTM A36

STRUCTURAL STEEL PIPE, ASTM A53, TYPE E OR S, GRADE B.

STRUCTURAL TUBING, ASTM A500, GRADE B, Fy - 46 KSI

WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN SERIES.

ANCHOR RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM 1554, GRADE 36.

ALL STRUCTURAL STEEL SHALL BE NEW AND UNUSED, U.N.O.

SPLICING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.

ALL BOLTED CONNECTIONS, U.N.O., SHALL BE MADE USING A325 HIGH STRENGTH BOLTS U.N.O.

EXCAVATION BACKFILL AND FOUNDATIONS

1.) REMOVE ALL UNSUITABLE FILLS AND ORGANIC SOILS ENCOUNTERED WITHIN AND BELOW THE AREA TO BE OCCUPIED BY SLABS ON GRADE AND FOUNDATIONS. THIS MATERIAL SHALL NOT BE USED FOR FILL WITHIN OR ADJACENT TO THE BUILDING.

2.) OVER EXCAVATE TO APPROXIMATELY 8' BELOW EXISTING GRADE AT ALL SPREAD FOOTING LOCATIONS AND PERIMETER FROST WALL TO REMOVE THE EXISTING, PARTIALLY CONSOLIDATED FILL.

REPLACE UNDERCUT MATERIAL TO BOTTOM OF PROPOSED FOUNDATION ELEVATION AS FOLLOWS:

A. ENGINEER-APPROVED STRUCTURAL FILL-

BACKFILL PLACED BELOW FOOTINGS SHALL BE COMPACTED TO NOT LESS THAN 98 PERCENT OF THE MAXIMUM DRY DENSITY AND THE MOISTURE CONTENT SHALL BE WITHIN 2 TO 3% OF OPTIMUM MOISTURE AS DETERMINED BY THE STANDARD PROCTOR METHOD, ASTM D-698.

B. LEAN CONCRETE FILL-

REFER TO THE WVDOT/DOH STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION, FOR MIXING, DELIVERY, PLACEMENT AND TESTING OF CLASS D CONCRETE.

3.) NOTIFY ENGINEER IF FOUNDATION CONDITIONS ENCOUNTERED DIFFER FROM SOILS EXPLORATION INFORMATION MADE AVAILABLE TO THE CONTRACTOR.

BEARINGS SURFACES FOR FOUNDATIONS AND SLABS ON GRADE SHALL BE APPROVED PRIOR TO PLACING REINFORCING STEEL AND PRIOR TO PLACING CONCRETE.

FILL PLACED BELOW SLABS SHALL BE COMPACTED TO NOT LESS THAN 98 PERCENT OF THE MAXIMUM DRY DENSITY AND THE MOISTURE CONTENT SHALL BE WITHIN 2 TO 3% OF OPTIMUM MOISTURE AS DETERMINED BY THE STANDARD PROCTOR METHOD, ASTM D-698. BACKFILL TO BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES.

FILL SHALL BE PLACED EVENLY ON BOTH SIDES OF FOUNDATION WALLS.

CENTER FOOTINGS UNDER COLUMNS OR WALLS UNLESS NOTED.

SOIL UNDER FOOTING SHALL BE PROTECTED AGAINST FREEZING.

DEWATER NEW EXCAVATION AS REQUIRED.

SHEAR WALLS (X BRACED WALL)

PROVIDE METAL STRAPS AS REQUIRED IN AN X-BRACE ON EACH SIDE OF WALL AT LOCATIONS NOTED ON DRAWINGS. STRAP SHALL FIT IN SPACE WHERE SHOWN WITHOUT INTERFERING WITH OPENING AND FRAMING.

DESIGN LOAD FOR STRAP IS 45 LBS PER HORIZONTAL FOOT OF X-BRACED WALL.

PROVIDE DOUBLE WIDE FLANGE STUDS AT EACH END OF X BRACE AND SECURE STRAPS WITH WELD OR SCREWS FOR CALCULATED AXIAL FORCE ON STRAP.

BASE TRACK SHALL BE SECURED TO FLOOR SLAB WITH SUITABLE FASTENERS AT 12 INCHES MAX SPACING TO DISSIPATE SHEAR LOAD TO SLAB.

PRETENSION STRAPS AND SECURE TO ENDPPOST STUDS AND ALL INTERMEDIATE STUDS.

ENDPOSTS FOR SHEARWALL SHALL BE DOUBLE STUDS WITH GUSSET PLATES (IF REQUIRED) FOR DIAGONAL STRAPS, AND HOLDDOWN ANCHOR RATED FOR A NOMINAL TENSION LOAD >24,000 LBS (SIMPSON MODEL SHD99 OR EQUAL). USE MINIMUM ¾ INCH DIAMETER EPOXY OR EXPANSION BOLT INTO CONCRETE. SEE SPECIAL DETAIL FOR WELDED STUD HOLDDOWN ANCHORS AT EDGE OF SLAB. USE WASHERS AS REQUIRED.

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Designed by:	PWF	Date:	12/10/13	Rev.	
Drawn by:	MPJ	Project No.:	135625	Drawing code:	
Reviewed by:					
Submitted by:	RLB	File name:	12/10/13	Plot scale:	NONE

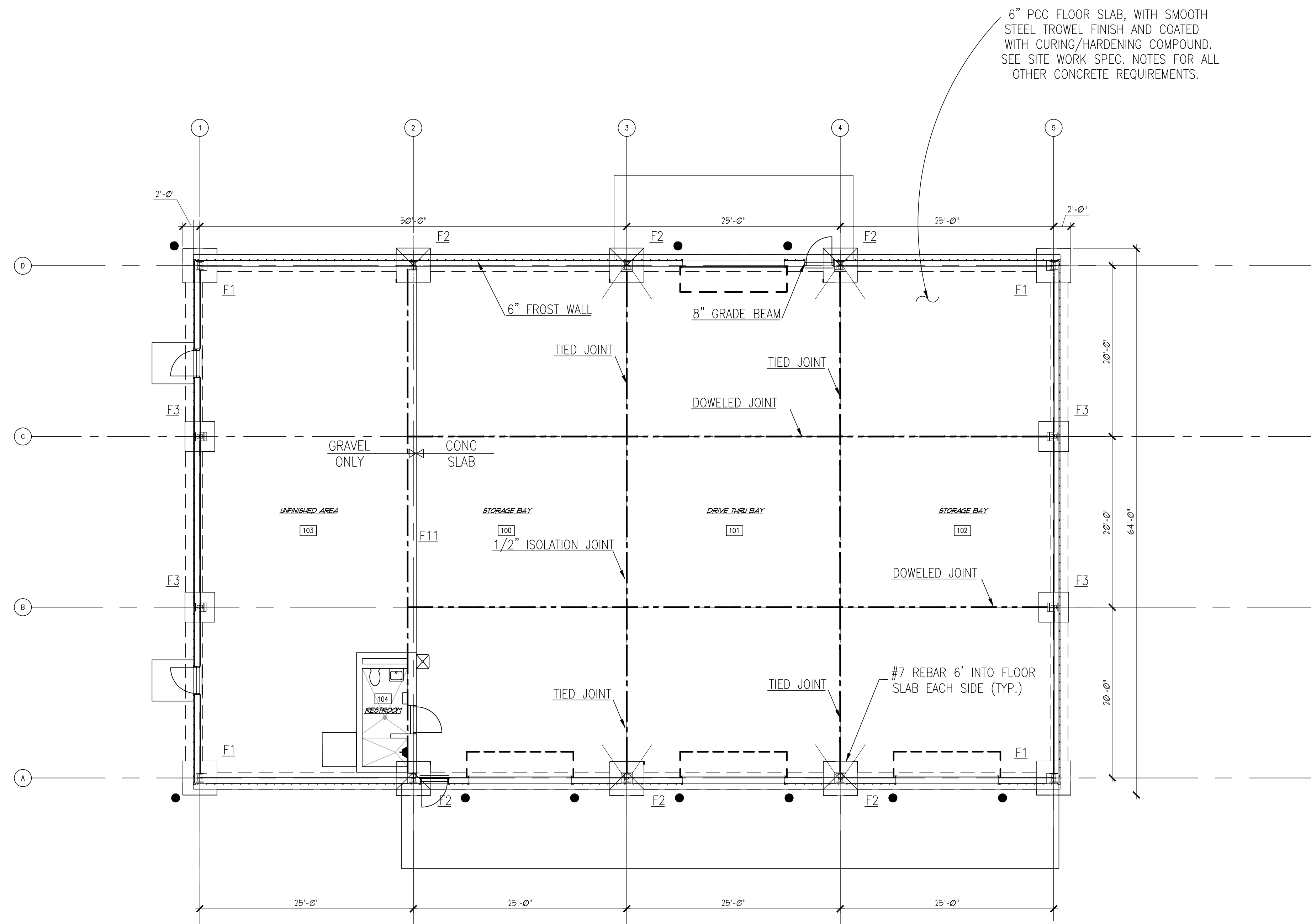
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STRUCTURAL GENERAL
NOTES

Sheet reference
number:
S-01

GENERAL NOTES:

6" PCC FLOOR SLAB, WITH SMOOTH STEEL TROWEL FINISH AND COATED WITH CURING/HARDENING COMPOUND. SEE SITE WORK SPEC. NOTES FOR ALL OTHER CONCRETE REQUIREMENTS.



FLOOR SLAB LEGEND

- = TIED CONSTRUCTION JOINT
- = 1/8" X 1 1/2" SAWCUT JOINT
- = BUTT JOINT
- = DOWELED CONSTRUCTION JOINT
- = 1/2" ISOLATION JOINT
- = # 7 HAIRPIN EMBED 6' ONTO FLOOR SLAB

FOUNDATION PLAN
 SB-100 SCALE : 1/8" = 1'-0"

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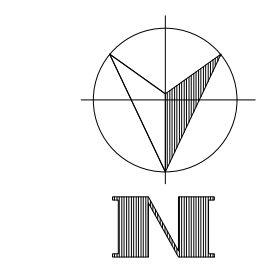
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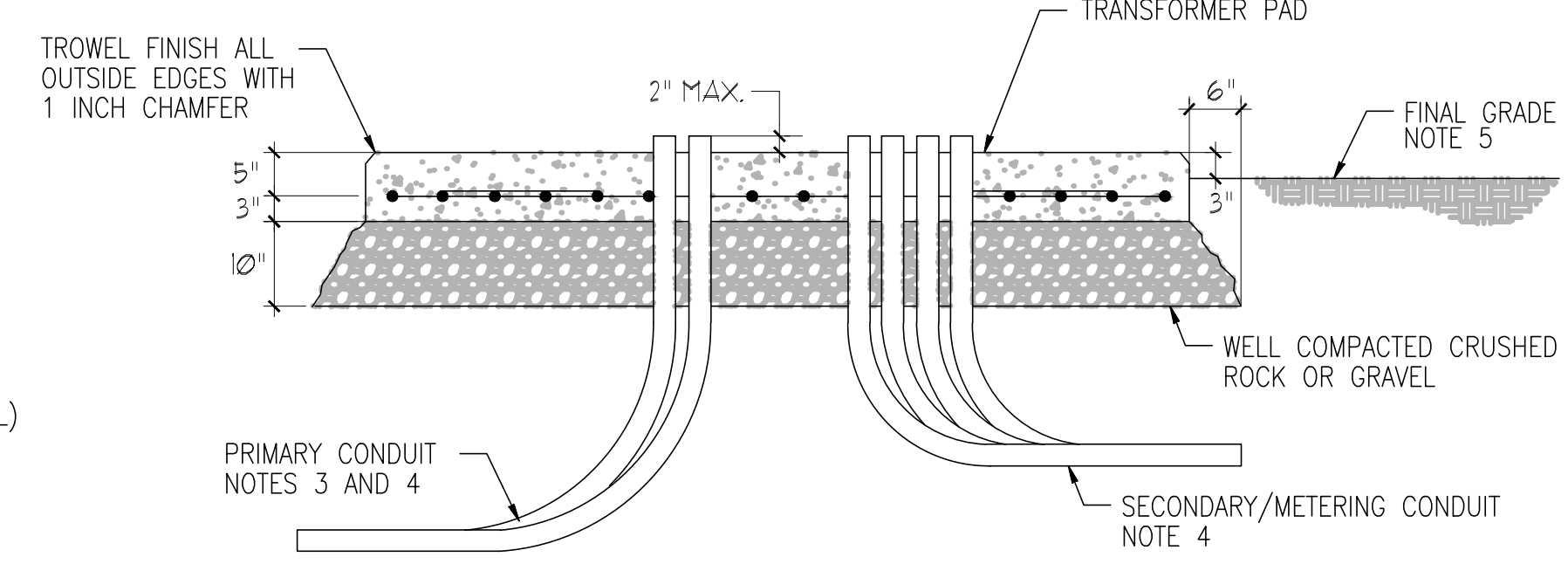
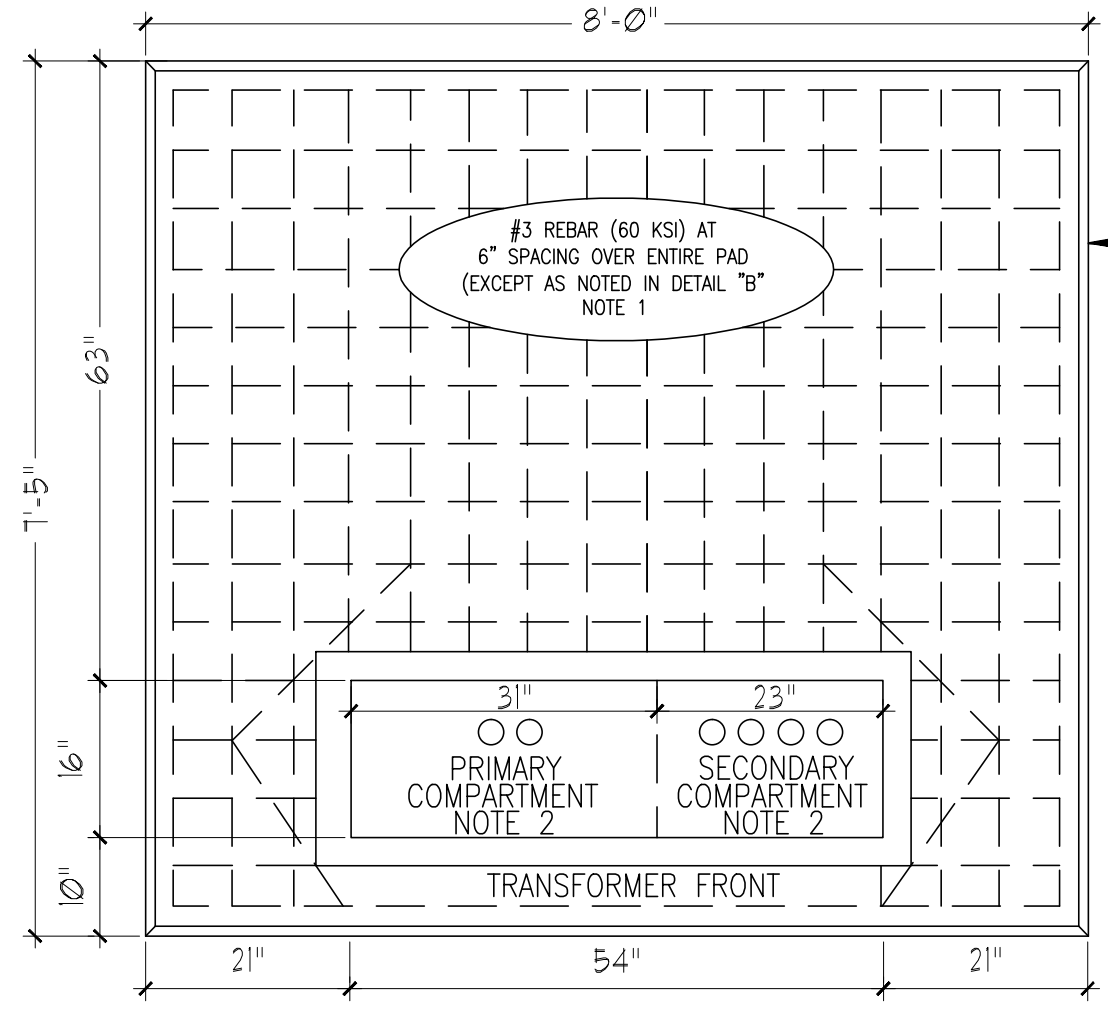
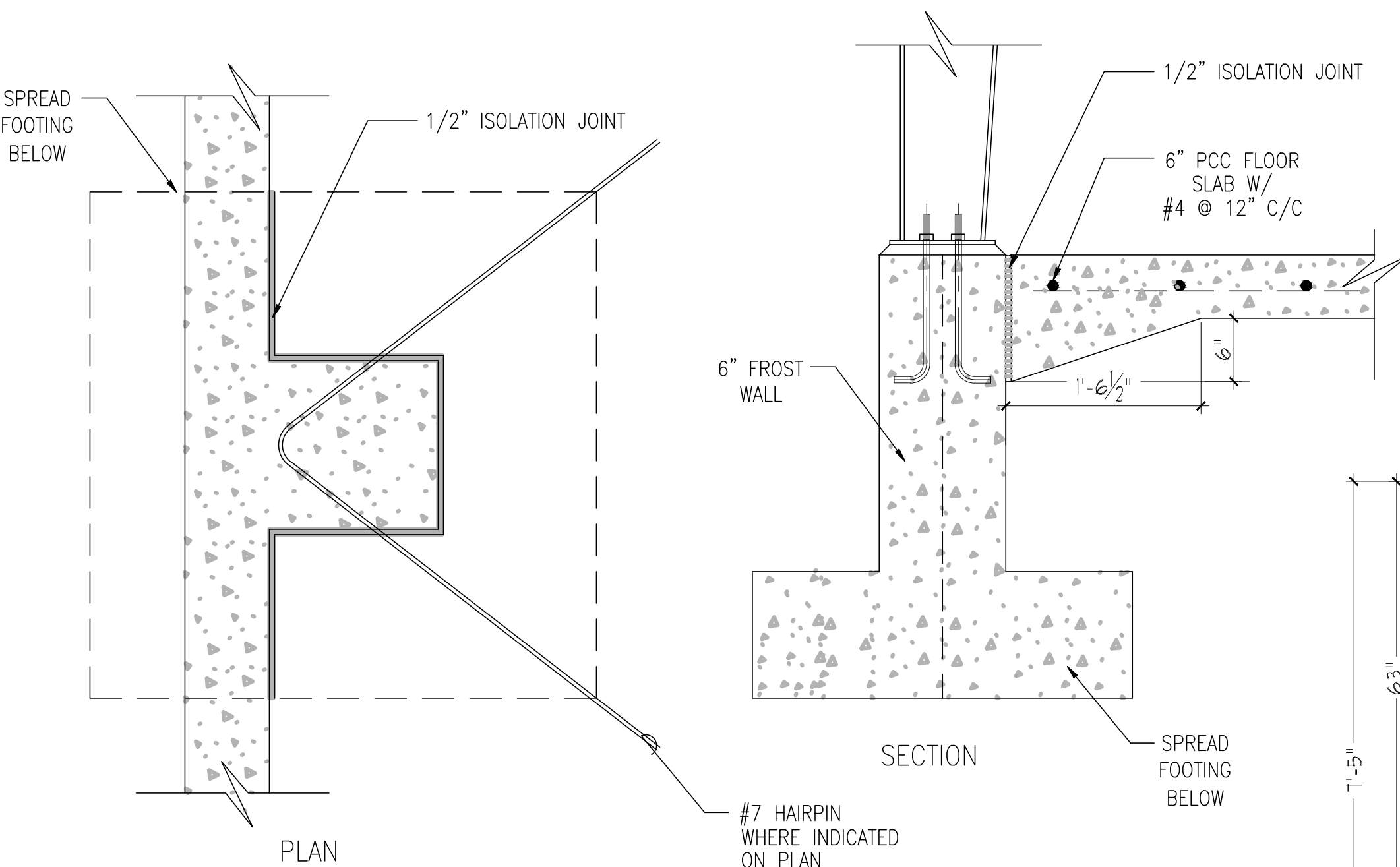
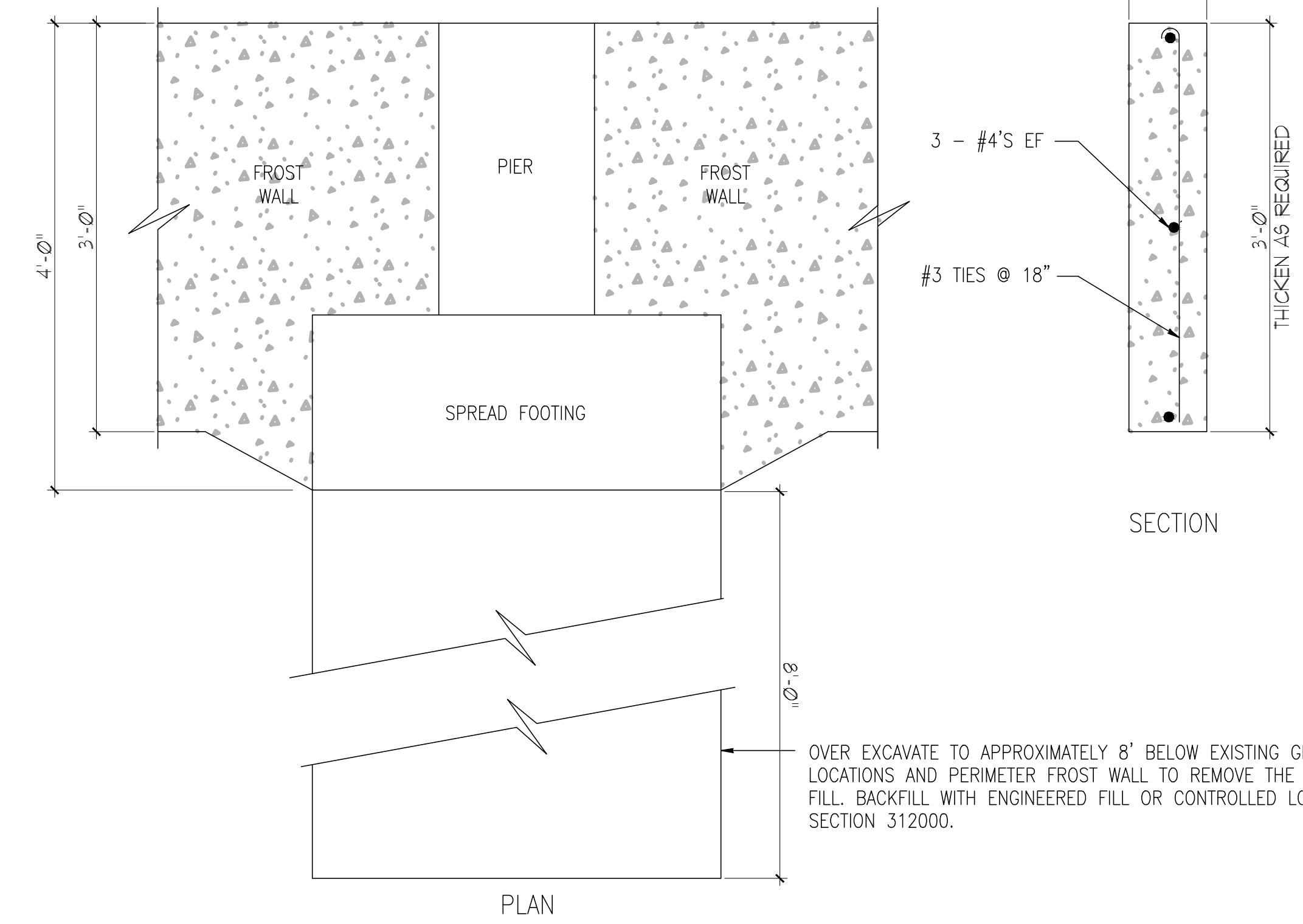
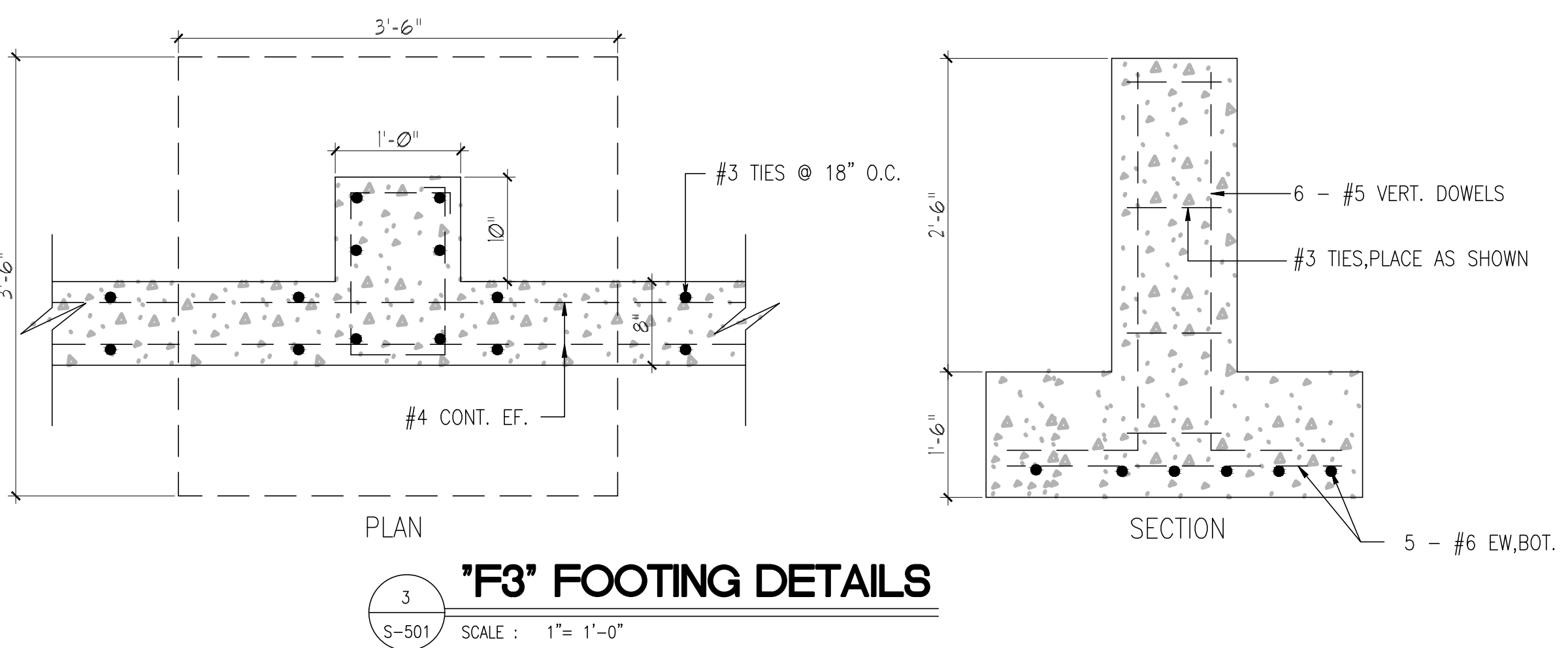
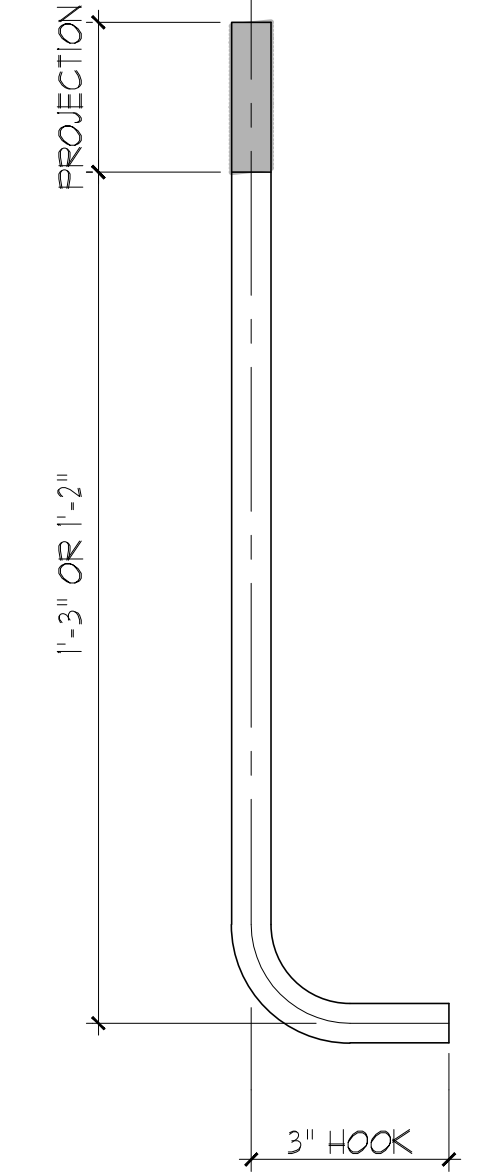
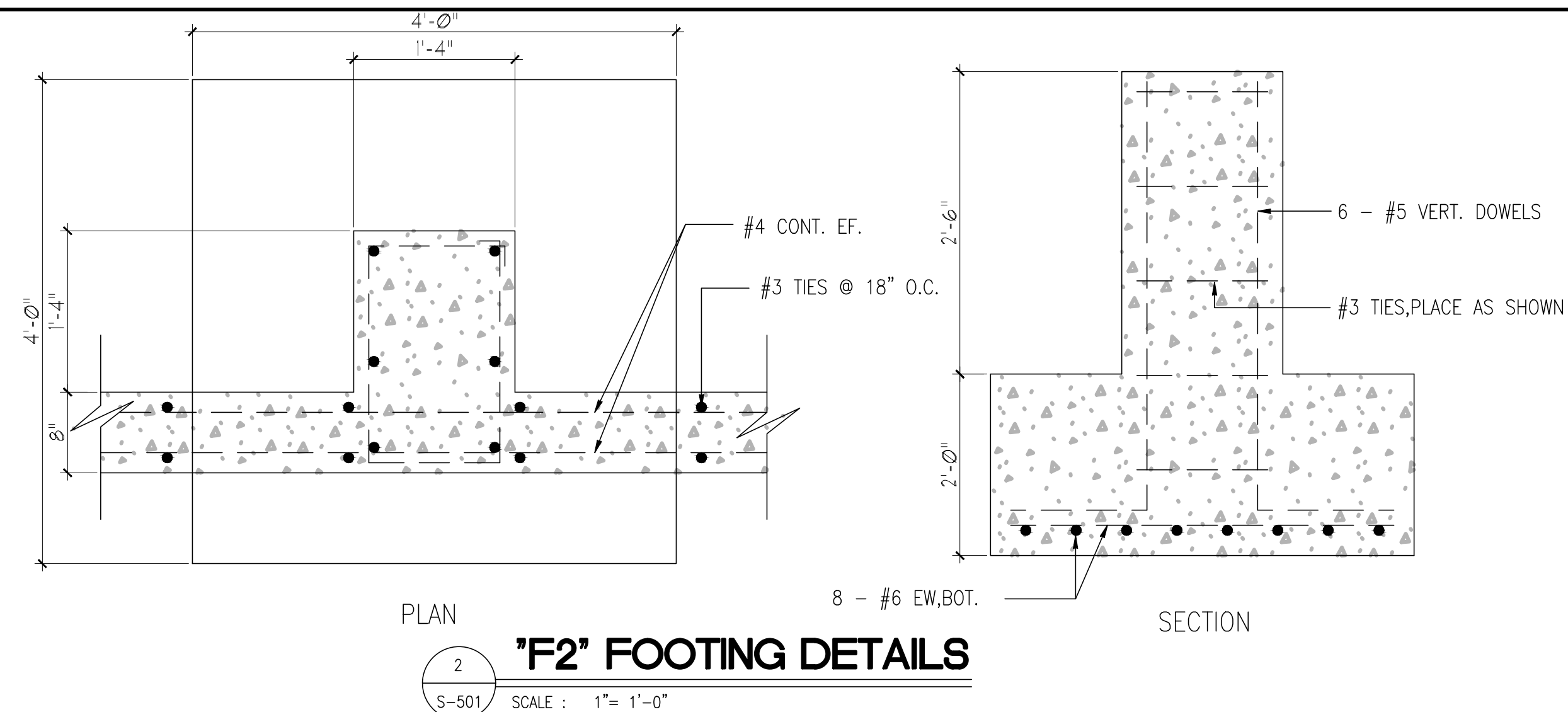
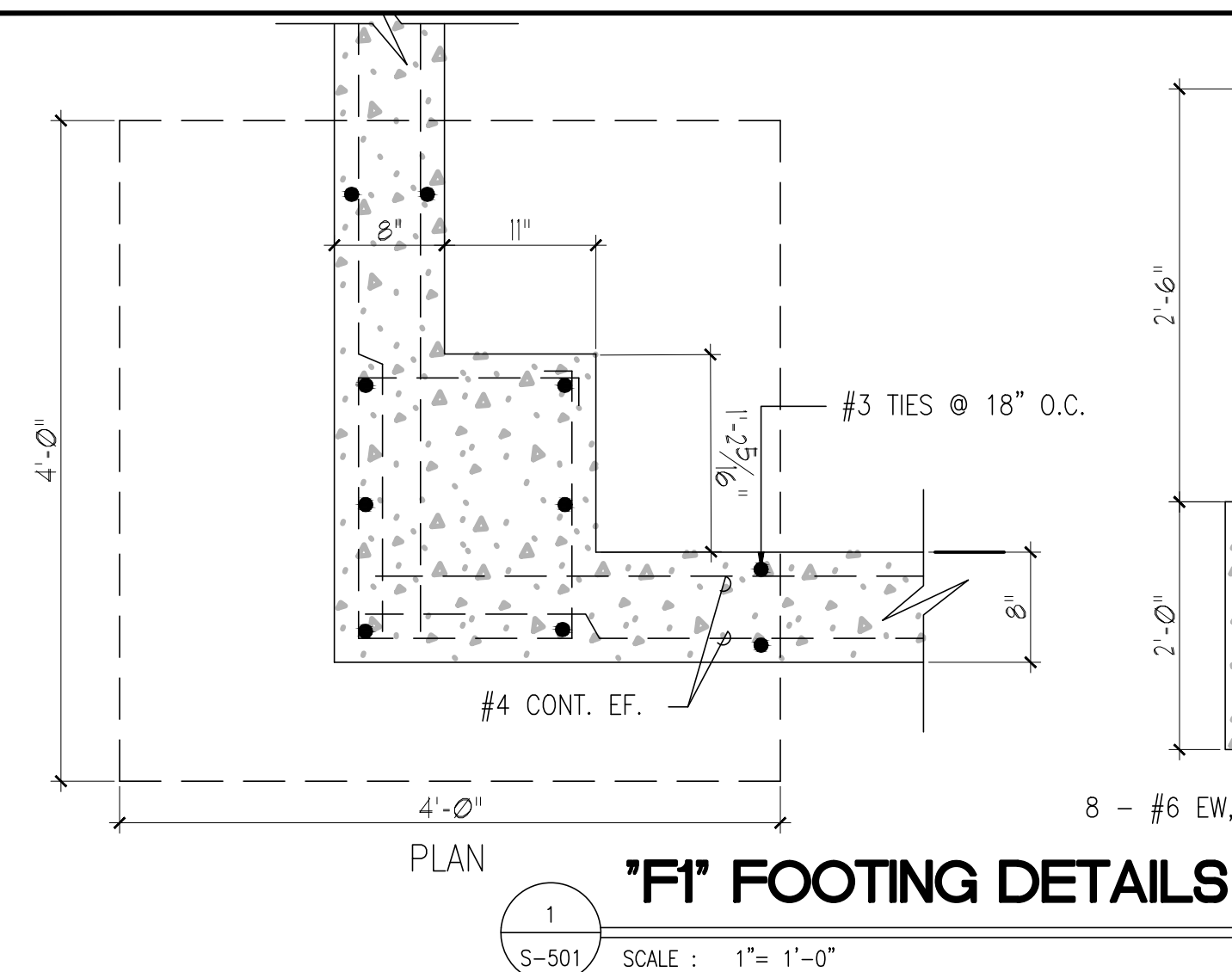
Designed by: PWF	Date: 12/10/13	Rev.
Div by: MPJ	Project No. 135625	
Reviewed by:	Drawing code:	
Submitted by: RLB	File name: 12/10/13	
	Plot scale: 1/8" = 1'-0"	

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FOUNDATION PLAN

Sheet reference number:
S-1

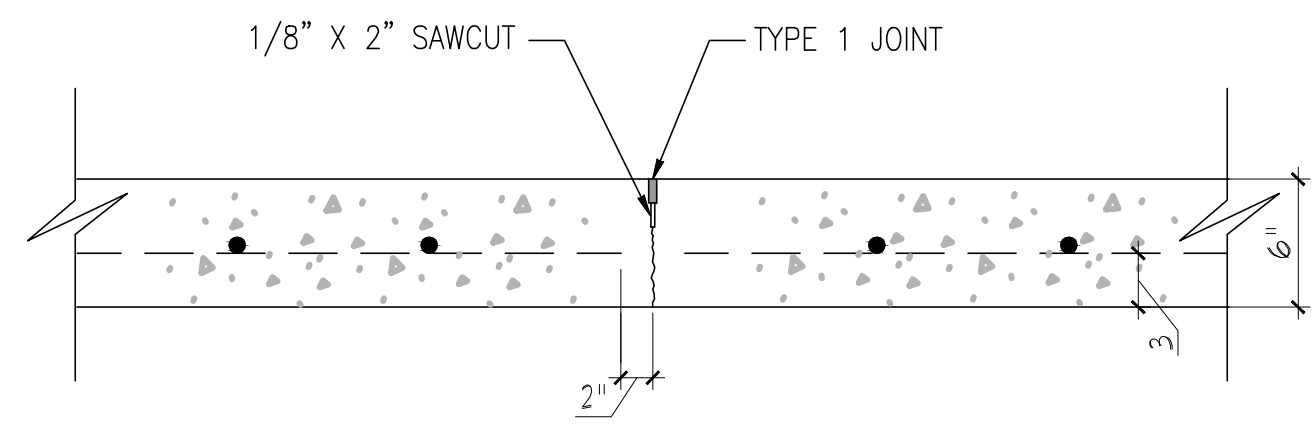




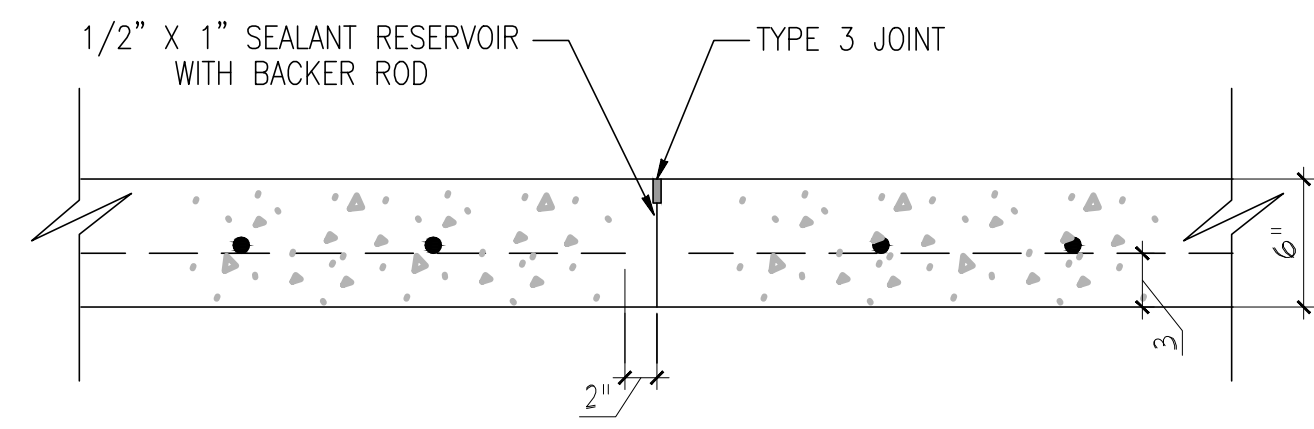
- NOTES:**
- PROVIDE 3,500 PSI CONCRETE WITH A MINIMUM 3 INCH COVER OVER ALL REBAR. WIRE MESH WITH A MINIMUM CROSS SECTIONAL AREA OF 0.176 SQUARE INCHES PER FOOT OF PAD WIDTH MAY BE USED IN PLACE OF REBAR.
 - THE NUMBER AND PLACEMENT OF CONDUITS TO BE DETERMINED BY ENGINEERING. SECONDARY CONDUIT MAY EXTEND IN ANY DIRECTION AS REQUIRED BY THE CONSUMER.
 - PRIMARY CONDUIT NUMBER, SIZE, LOCATION AND DIRECTION TO BE SPECIFIED BY ENGINEERING. CONDUIT CAN BE FLEXIBLE, TYPE EB OR DB PVC CONDUIT WITH 90°, 36 INCH RADIUS BENDS. TO AVOID DISTURBING THE GROUND UNDER THE REAR OF THE PAD AND TO MINIMIZE SETTLING, BRING CONDUITS TO THE FRONT OR SIDES WHENEVER POSSIBLE AND MARK CONDUIT END LOCATIONS.
 - BURIAL DEPTH IS DEFINED AS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE BURIED CABLE OR CONDUIT. PRIMARY CABLES SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 2'-6". IT IS RECOMMENDED THAT PRIMARY CABLES AND SECONDARY CABLES MAINTAIN BURIAL DEPTHS OF 2'-6" AND 2'-0" RESPECTIVELY. THE INITIAL 3'-0" AND 2'-6" BURIAL DEPTHS ARE TO ALLOW FOR CHANGES IN SURFACE CONDITIONS.
 - FINAL GRADE SHALL BE ESTABLISHED BEFORE INSTALLATION OF PAD.

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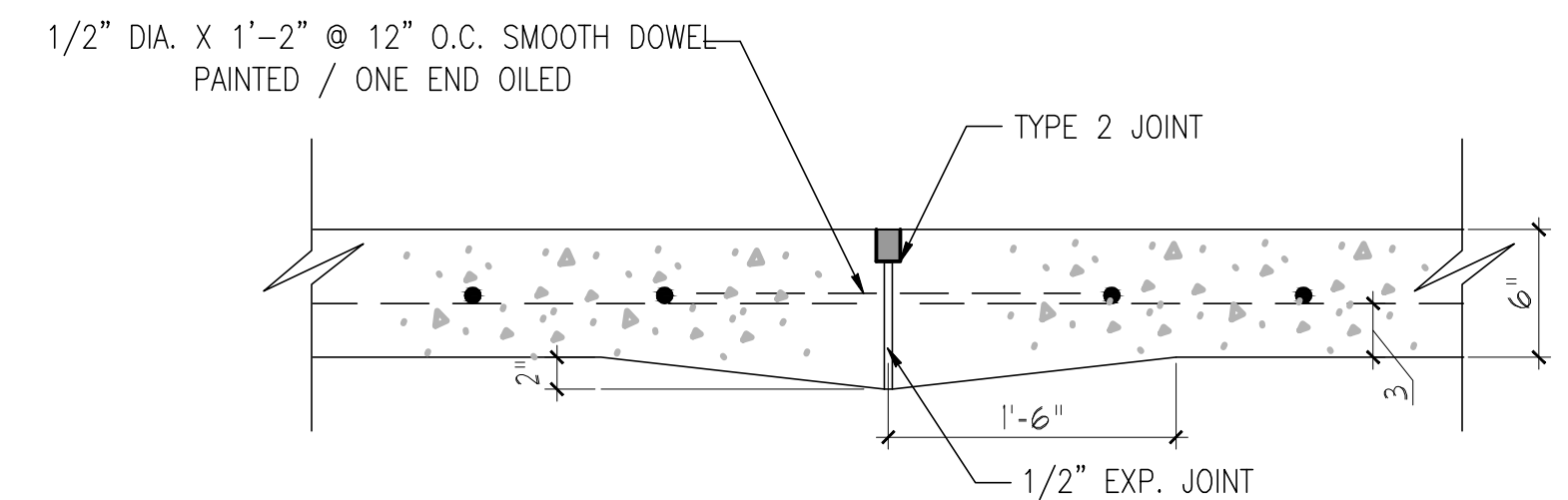
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Submitted by:	RLB	File name:	12/10/13
		PLOT date:	12/10/13
		Plot scale:	NOTED



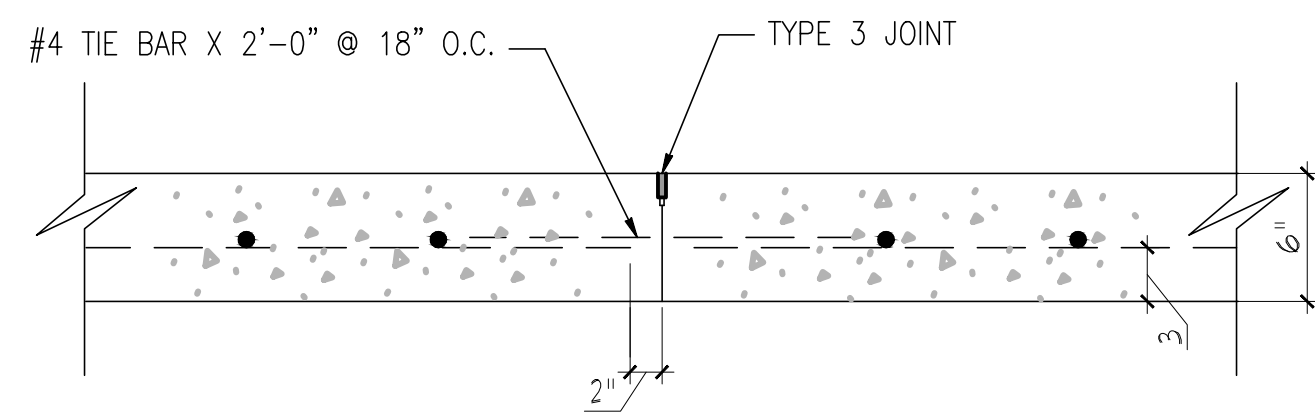
1 SAWCUT CONTRACTION JOINT
 S-3 SCALE : NTS



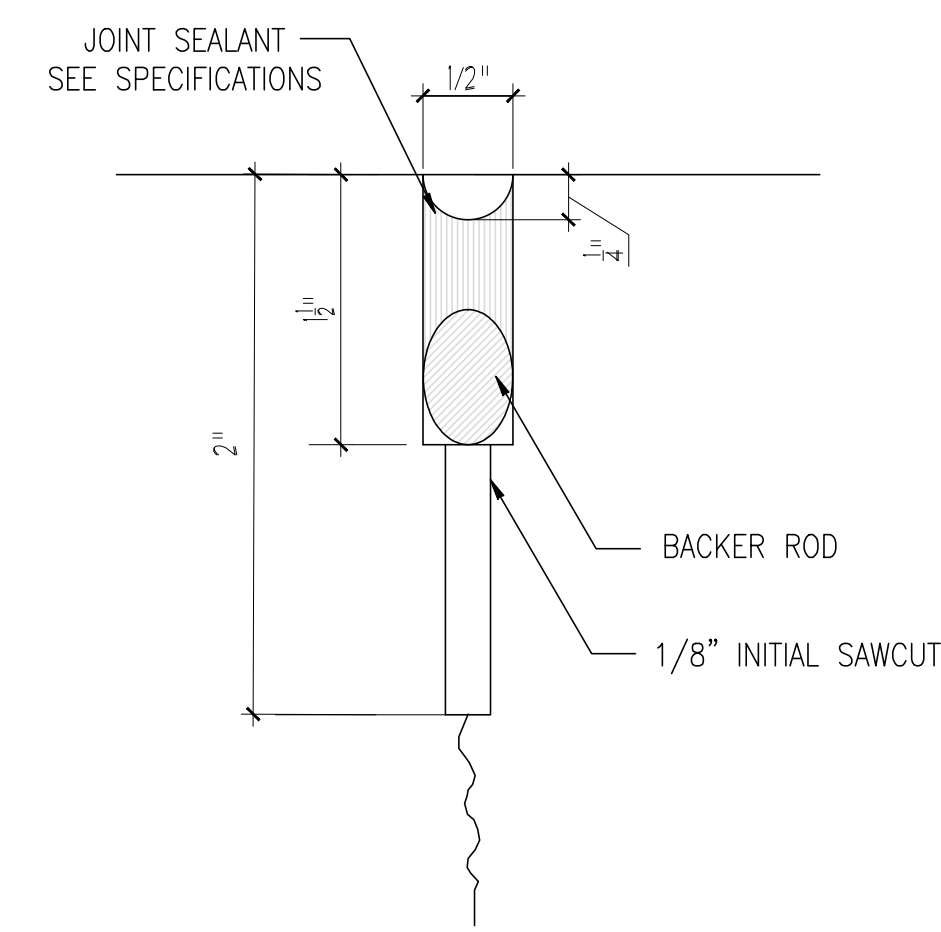
2 BUTT JOINT
 S-3 SCALE : NTS



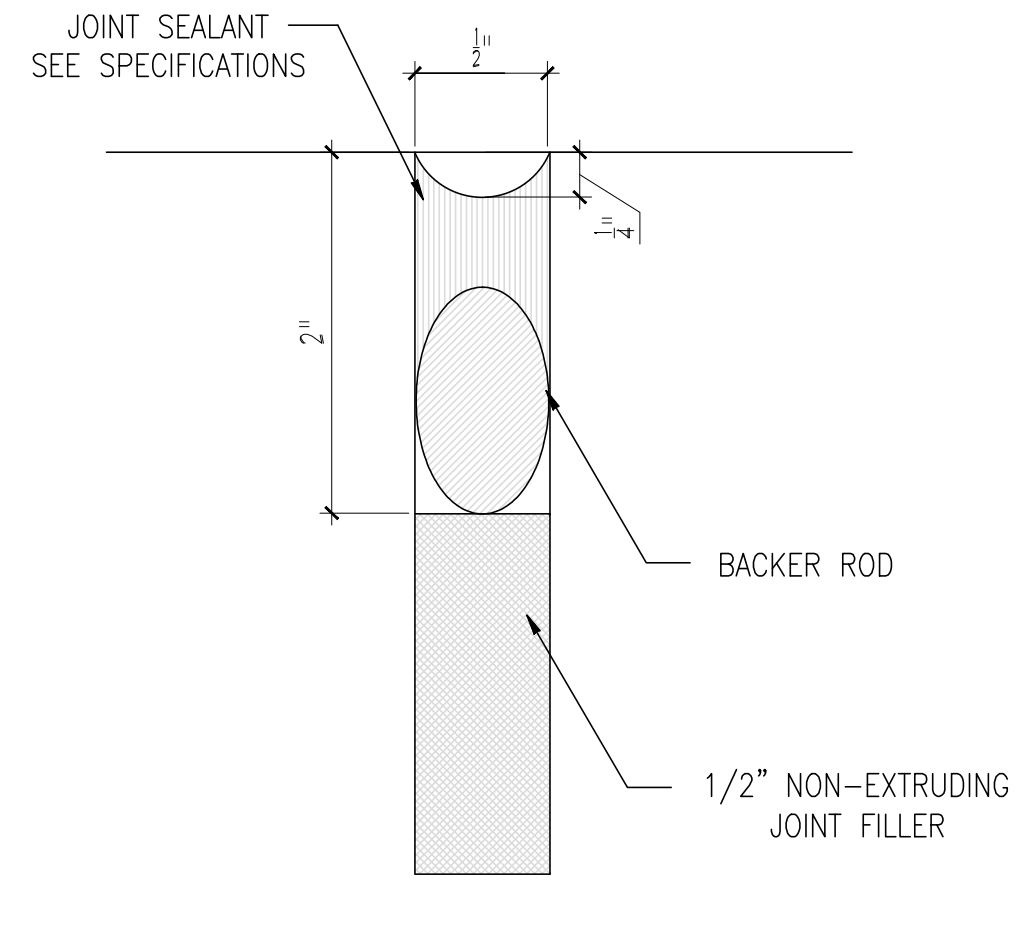
3 DOWELED CONSTRUCTION JOINT
 S-3 SCALE : NTS



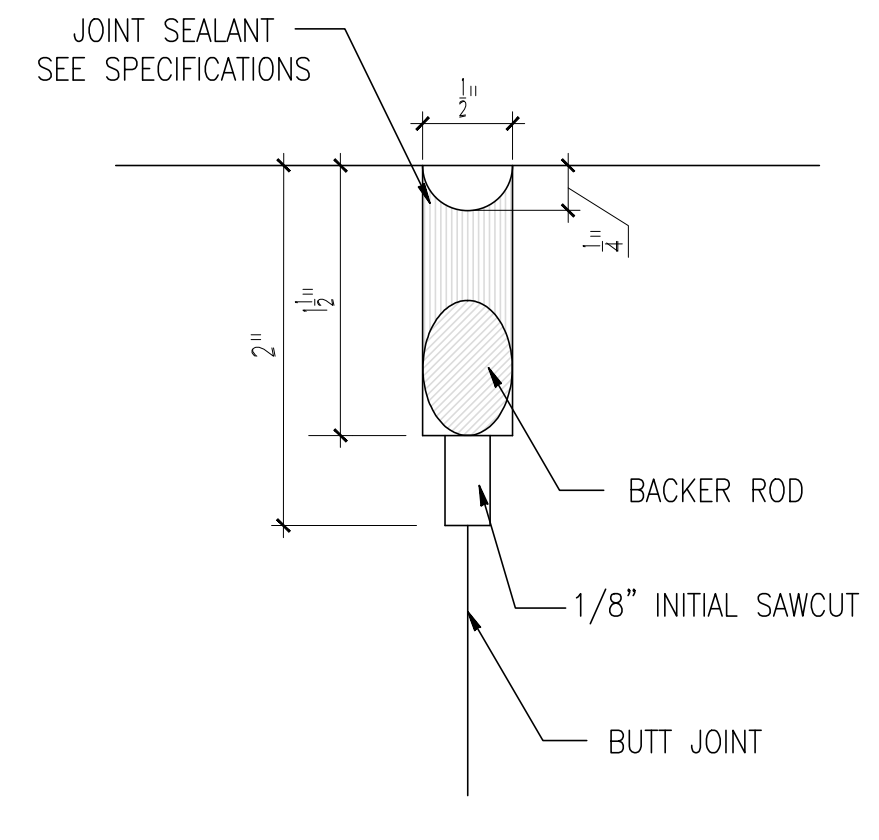
4 TIED CONSTRUCTION JOINT
 S-3 SCALE : NTS



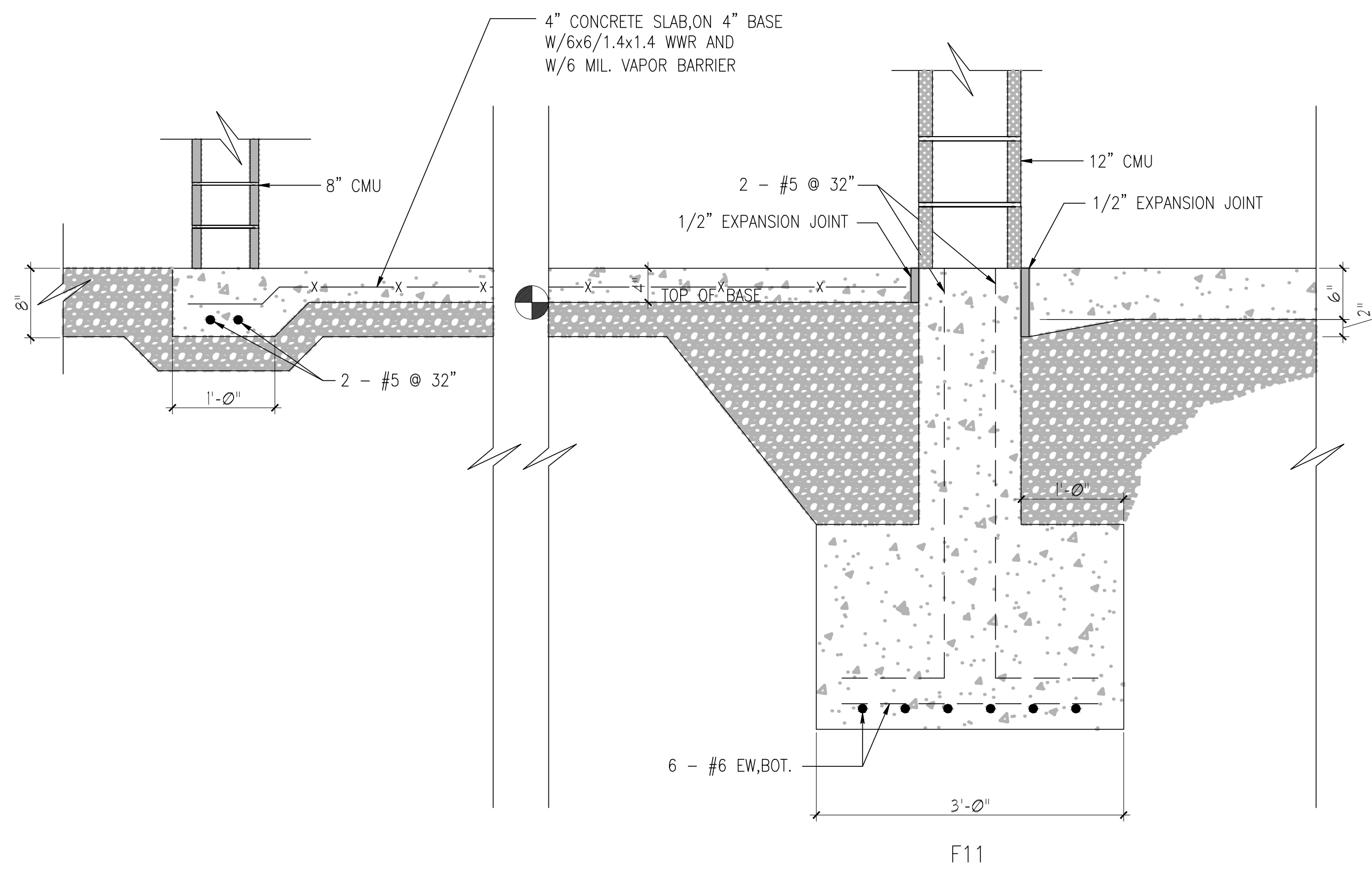
5 TYPE 1 JOINT DETAIL
 S-3 SCALE : NTS



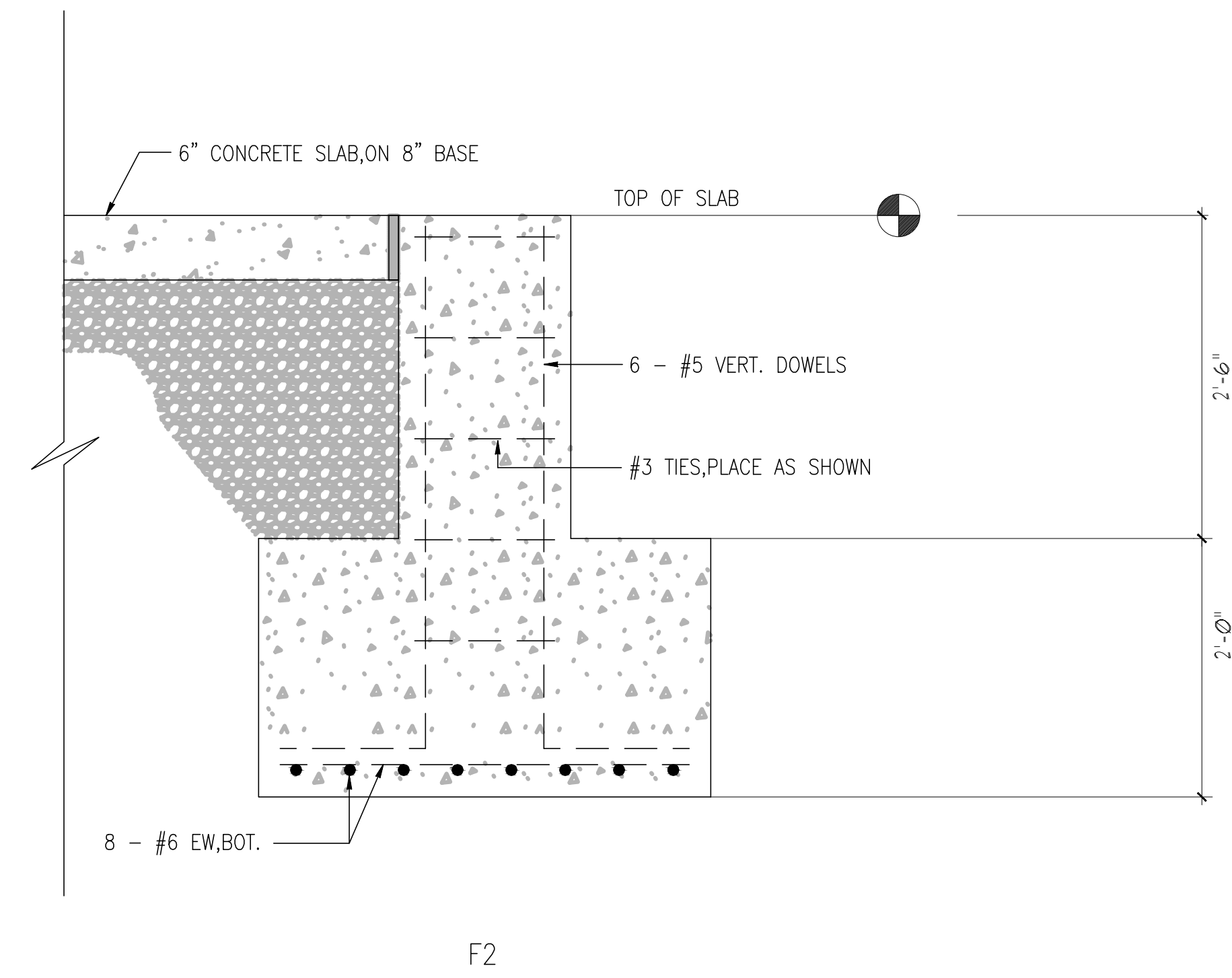
6 TYPE 2 JOINT DETAIL
 S-3 SCALE : NTS



7 TYPE 3 JOINT DETAIL
 S-3 SCALE : NTS



8 'F11' FOOTING DETAIL
 S-3 SCALE : NTS



F2

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REV	DESCRIPTION	DATE	BY

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COONSKIN PARK MAINTENANCE FACILITY

JOINT DETAILS

Sheet reference number: **S-3**

PLUMBING SYMBOLS AND LEGEND

SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION		
	ABV	ABOVE		DFU	DRAINAGE FIXTURE UNIT		GWH	GAS WATER HEATER		P&T	PRESSURE & TEMPERATURE			VALVE IN RISE		
	AC	AIR COMPRESSOR			DIRECTION OF FLOW			GATE VALVE		PSI	PRESSURE PER SQUARE INCH		V	VENT PIPING		
	AD	AREA DRAIN		DN	DOWN		GBD	GARBAGE DISPOSAL			PRESSURE REGULATOR WITH PRESSURE GAUGE		VTR	VENT THRU ROOF		
	AFF	ABOVE FINISHED FLOOR		DWG	DRAWING			GC	GENERAL CONTRACTOR				VU	VENT UP		
	AFR	ABOVE FINISHED ROOF			DRAIN VALVE			GO	GEAR OIL				W-EC	WASTE ENGINE COOLANT		
	AFG	ABOVE FINISHED GRADE		EO	ENGINE OIL			HB	HOSE BIBB				W-EO	WASTE ENGINE OIL		
	AP	ACCESS PANEL			ELBOW DOWN			HB	HOSE BIBB & QUICK COUPLERS		RCP	RECIRCULATING PUMP		WH	WALL HYDRANT	
		AIR OUTLET			ELBOW UP		H OR HW	HOT WATER PIPING			RH	RELATIVE HUMIDITY		W	WATER SERVICE	
	ATF	AUTOMATIC TRANSMISSION FLUID		EC	ENGINE COOLANT			HF	HYDRAULIC FLUID			RWC	RAINWATER CONDUCTOR		WC	WATER CLOSET
		ANGLE GATE - ELEV.		EC	ELECTRICAL CONTRACTOR			HWR	HOT WATER RETURN					WC	WATER COLUMN	
		ANGLE GATE - PLAN		EWC	ELECTRIC WATER COOLER			HW	HOT WATER		S	SINK		WF	WASH FOUNTAIN	
	AHU	AIR HANDLING UNIT		EWH	ELECTRIC WATER HEATER			HV	HEATING AND VENTILATION			SA	SHOCK ABSORBER W/PDI AS INDICATED		WT	WASTE TANK
	AST	ABOVE GROUND STORAGE TANK		ELEV	ELEVATION			IRH	INFRARED RADIANT HEATER			SS	SANITARY PIPING		W	WASTE
	BOF	BOTTOM OF FOOTING		EW	EMERGENCY EYE WASH		IE	INVERT ELEVATION			SHR	SHOWER		W/	WITH	
	BP (ASSE 1013)	BACKFLOW PREVENTER WITH TEST VALVES		ESEW	EMERGENCY SHOWER & EYE WASH		L OR LAV	LAVATORY			SFU	SUPPLY FIXTURE UNIT		W/O	WITHOUT	
		BALL VALVE		ET	EXPANSION TANK		LUBRICATOR			SQ FT	SQUARE FEET					
	BLW	BELOW			FIRE SUPPRESSION SUPPLY LINE			MBH	1,000 BTUH			SD	SD	STORM DRAIN PIPING		
		BRANCH - BOTTOM CONNECTION		FIN	FINISHED		MAX	MAXIMUM				SWC	SAFE WASTE CONNECTION			
		BRANCH - TOP CONNECTION			FILTER		MC	MECHANICAL CONTRACTOR			TD	TRENCH DRAIN				
	BTUH	BRITISH THERMAL UNITS		F/R/L	FILTER/REGULATOR/ LUBRICATOR			MIN	MINIMUM			TE	TEE OUTLET UP			
	CAP	CAP		F/R	FILTER/REGULATOR		MR	MOP RECEPTOR				THERM	THERMOMETER W/PET COCK			
	CB	CATCH BASIN		FC	FIRE PROTECTION CONTRACTOR		MV	MIXING VALVE			TOF	TOP OF FOOTING				
	CA	COMPRESSED AIR PIPE		FD	FLOOR DRAIN W/TRAP		NC	NORMALLY CLOSED			TOP	TOP OF PIPE				
	CFH	CUBIC FEET PER HOUR		FS	FLOOR SINK W/ GRATE SPECIFIED		NO	NORMALLY OPEN				TRAP - ELEVATION				
		CHECK VALVE			FLEXIBLE PIPING CONNECTION		OB	OUTLET BOX				TRAP - PLAN				
	CO	CLEAN-OUT IN VERTICAL		FFE	FINISHED FLOOR ELEVATION		OW	OIL WASTE LINE			TP	TRAP PRIMER				
	CO	CLEAN-OUT		FLR	FLOOR		OWS	OIL WATER SEPARATOR			TYP	TYPICAL				
	CO	CLEAN-OUT IN HORIZONTAL		FM	FORCE MAIN		PC	PLUMBING CONTRACTOR			TW	TEMPERED WATER				
	CW	COLD WATER PIPING		FT	FOOT OR FEET		PDI	PLUMBING & DRAINAGE INSTITUTE			U	URINAL				
	CONC	CONCRETE		FTG	FOOTING			POL	PETROLEUM OIL LUBRICANT							
	CONN	CONNECTION		G	GAS - (PRESSURE)			PRES	PRESSURE GAGE W/PET COCK							
	COND	CONDENSATION			GAS REGULATOR			PRV	PRESSURE REDUCING VALVE							
	CONT	CONTINUATION			GREASE LINE				PRESSURE REGULATING VALVE							

GENERAL NOTES:

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED, TO INSTALL COMPLETE FOR AN OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE CONTRACT DOCUMENT DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
2. INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
3. COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, SOILS, MECHANICAL, ELECTRICAL WORK, ETC., AS SHOWN IN OTHER CONTRACT DOCUMENTS.
4. ALL TESTS SHALL BE COMPLETED BEFORE ANY EQUIPMENT OR PIPING INSULATION IS APPLIED.
5. LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH A STRAIGHT SECTION OF PIPE UPSTREAM AND DOWNSTREAM, AS RECOMMENDED BY THE DEVICE MANUFACTURER FOR ACCURACY.
6. WHERE TWO OR MORE PRODUCTS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCTS OF A SINGLE MANUFACTURER SHALL BE USED.
7. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.
8. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DRAWING DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATION NECESSARY TO ACHIEVE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS. DO NOT SCALE DRAWINGS.
9. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE VALVES AND OTHER CONCEALED PLUMBING EQUIPMENT, DEVICES, ETC. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
10. LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
11. ALL OPENINGS IN FIRE RESISTANCE RATED WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 814 & UL 1479. SIMILARLY, SEAL/FIRESTOP AS REQUIRED AT SMOKE RATED SURFACES AS WELL.
12. CERTAIN ITEMS SUCH AS RISERS AND DROPS IN PIPING, ACCESS DOORS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE TYPES OF ITEMS.
13. LOCATE ALL PLUMBING EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, VALVING, ETC.
14. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING CONNECTED TO UNIT HEATERS AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
15. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE EASILY ACCESSIBLE. ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (AKA MEMORY STOPS). ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
16. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT AND IN BYPASSES TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
17. ALL PIPING SHALL BE COORDINATED WITH ALL TRADES INVOLVED. PROPERLY CONSTRUCTED OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
18. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER MOTORIZED OR PNEUMATICALLY DRIVEN EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.
19. DRAIN PIPING FROM MECHANICAL EQUIPMENT SHALL BE ROUTED SO AS NOT TO CREATE TRIPPING HAZARDS.
20. ADDED TO ALLOW THE UNDERFLOOR PLUMBING PIPING SYSTEMS TO FUNCTION WITH THE PROJECT EXPANSIVE SOILS. COORDINATION WITH ACTUAL FIELD CONDITIONS WILL BE REQUIRED AT TIME OF INSTALLATION TO ACCOUNT FOR ACTUAL SOIL CONDITIONS AT THAT TIME, ACTUAL COMPONENT AND PIPING SYSTEM INSTALLATION DIMENSIONS, ETC. INSTALLING CONTRACTOR TO VERIFY ALL CONDITIONS AND INSTALL/ADJUST INSTALLATION ACCORDINGLY TO SUIT CONDITIONS AT TIME OF INSTALLATION.
21. PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS.
22. PROVIDE DIELECTRIC CONNECTIONS BETWEEN DISSIMILAR MATERIALS.
23. VENT FROM NATURAL GAS EQUIPMENT UHS TO BUILDING EXTERIOR. PIPE SHALL BE SAME SIZE AS VENT OPENING ON UHS.

COONSKIN PARK MAINTENANCE FACILITY

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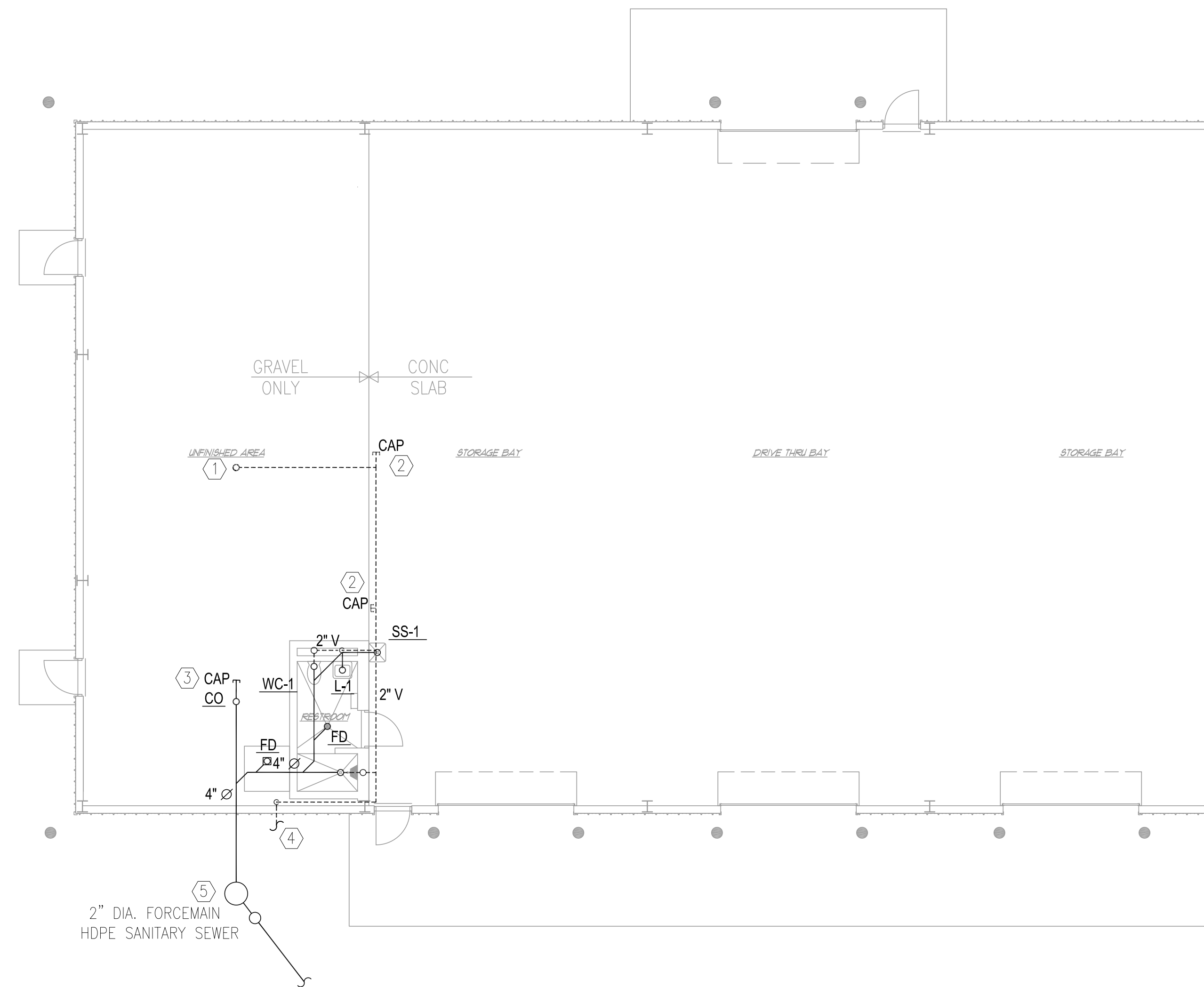
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ABBREVIATIONS, SYMBOLS LEGEND, AND GENERAL NOTES

Sheet reference number:
P-0

GENERAL NOTES:

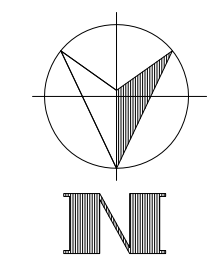
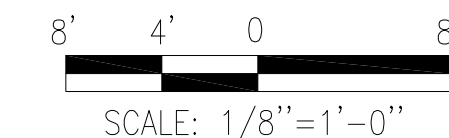
- 1.) SLOPE SANITARY PIPE AT A MINIMUM OF 1/8" PER FT.
- 2.) SEE STRUCTURAL DWG FOR ADDITIONAL FOUNDATION INFORMATION.
- 3.) PLUMBING CONTRACTOR TO VERIFY ALL WORK, CONDITIONS, INVERTS, ETC., IN FIELD.
- 4.) COORDINATE WORK WITH ALL OTHER TRADES.
- 5.) CLOSELY COORDINATE ALL BURIED PLUMBING COMPONENTS IF INTERFERENCES AT FOOTERS, BOLLARDS, ETC., OCCUR, SHIFT PIPING/SPECIALTIES AS REQUIRED FIRST, AND IF REQUIRED, COORDINATE NOTCHING OF FOOTERS, ETC., AS REQUIRED.
- 6.) ALL EXPANSION JOINTS, SLIP JOINTS, AND OTHER POSSIBLE DESIGN/INSTALLATION FEATURES WHICH ARE REQUIRED TO HANDLE SOIL CONDITIONS MAY NOT BE SHOWN. INSTALL ALL REQUIRED FEATURES TO SUIT ACTUAL INSTALLATIONS CONDITIONS.



1 PLUMBING PLAN (PLUMBING/SEWERS)
P-1 SCALE : 1/8" = 1'-0"

SANITARY PLUMBING PLAN CODED NOTES

- ① 3" VENT UP THROUGH ROOF. TERMINATE 18" ABOVE ROOF, FLASH PER METAL BUILDING MANUFACTURERS RECOMMENDATIONS.
- ② CAP 2" VENT FOR FUTURE CONNECTION.
- ③ CAP 4" SANITARY SEWER FOR FUTURE CONNECTION.
- ④ 1 11/2" PVC VENT, CONNECT TO SEWAGE PUMP WELL. (SEE SITE UTILITY PLAN)
- ⑤ SEWAGE PUMP WELL (SEE SITE UTILITY PLAN).



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	Plot date: 12/10/13
	Plot scale: -

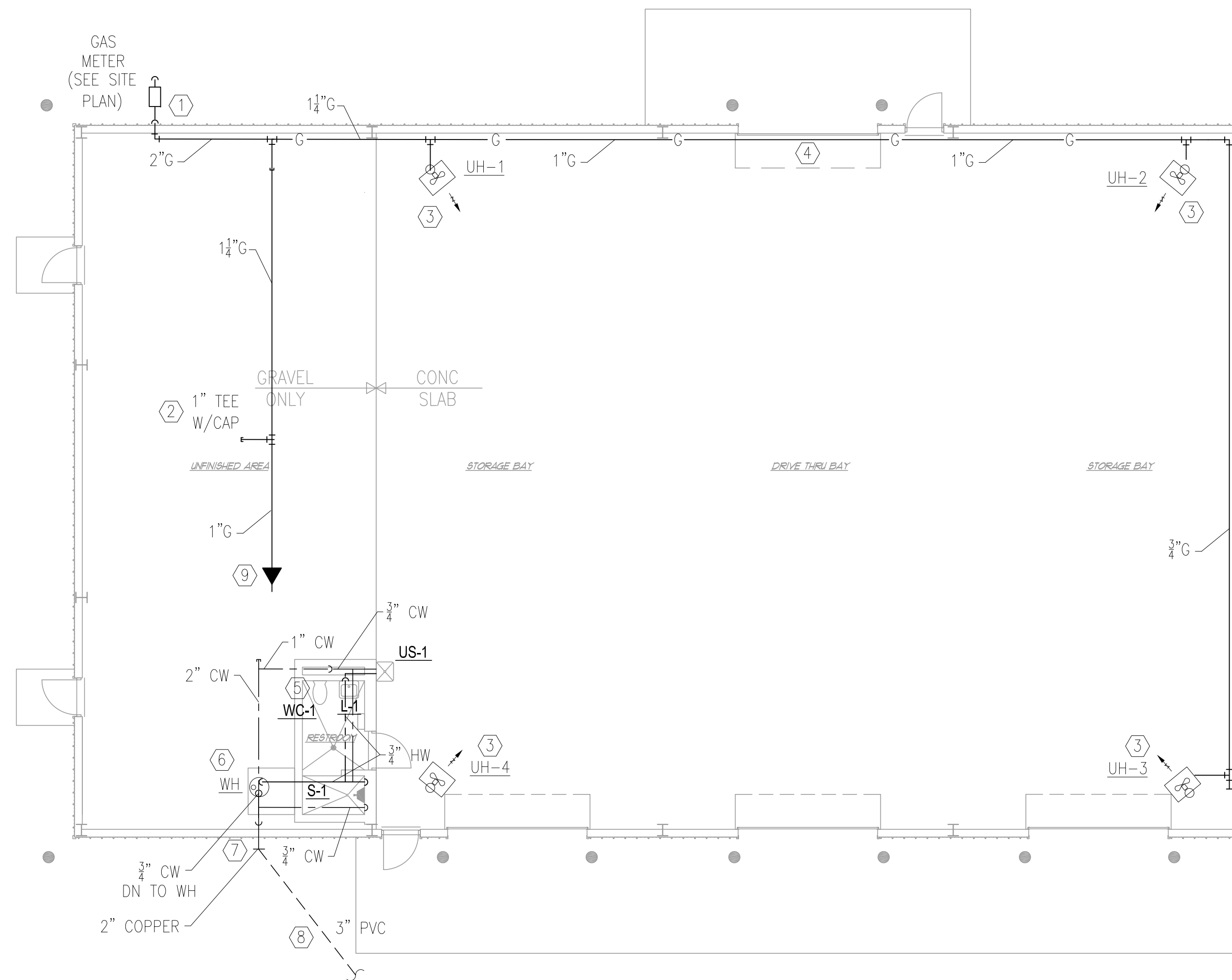
COONSKIN PARK
MAINTENANCE FACILITY

PLUMBING PLAN

Sheet reference
number:
P-1

GENERAL NOTES:

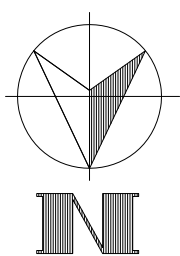
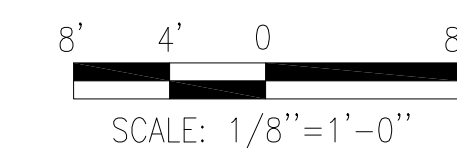
- 1.) SHUT-OFF VALVE SHALL BE INSTALLED ON COLD AND HOT WATER SUPPLY TO EACH PLUMBING FIXTURE.
- 2.) CONNECTION TO EACH GAS FIRED EQUIPMENT REQUIRES SHUT-OFF VALVE, UNION AND DIRT LEG.
- 3.) ALL DOMESTIC PIPING INSIDE BUILDING AND 5'-0" OUTSIDE OF BUILDING IS TO BE COPPER PER PLUMBING SPECS.
- 4.) SEE DRAWING P-3 FOR PLUMBING & PIPING DETAILS.



2 PLUMBING PIPING PLAN
 P-2 SCALE : 1/8" = 1'-0"

PLUMBING PIPING PLAN CODED NOTES

- ① RUN GAS PIPING DOWN ALONG INTERIOR WALL. PROVIDE WALL PENETRATION, EXCLUSION AND CONNECTION TO UTILITY PROVIDED METER.
- ② CAP 1" GAS LINE FOR FUTURE CONNECTION.
- ③ CONNECT GAS UH PER DETAIL 3/P3.
- ④ COORDINATE HORIZONTAL PIPE RUN WITH ROLL UP GARAGE DOOR. NO OFFSETS IN LINE.
- ⑤ CONNECT COLD WATER TO WC-1.
- ⑥ MOUNT HOT WATER TANK ON PAD EXACT LOCATION WITH FLOOR DRAIN AND WATER SERVICE CLEARANCE.
- ⑦ PROVIDE WATER SERVICE ENTRANCE AND SHUT OFF VALVES AS REQUIRED.
- ⑧ 3" UNDERGROUND WATER SERVICE. (SEE SITE UTILITY PLANS). TRANSITION TO 2" BY BUILDING.
- ⑨ CONNECT 3/4" GAS TO WATER HEATER (WH) AND 3/4" GAS TO UNIT HEATER (UH-4).



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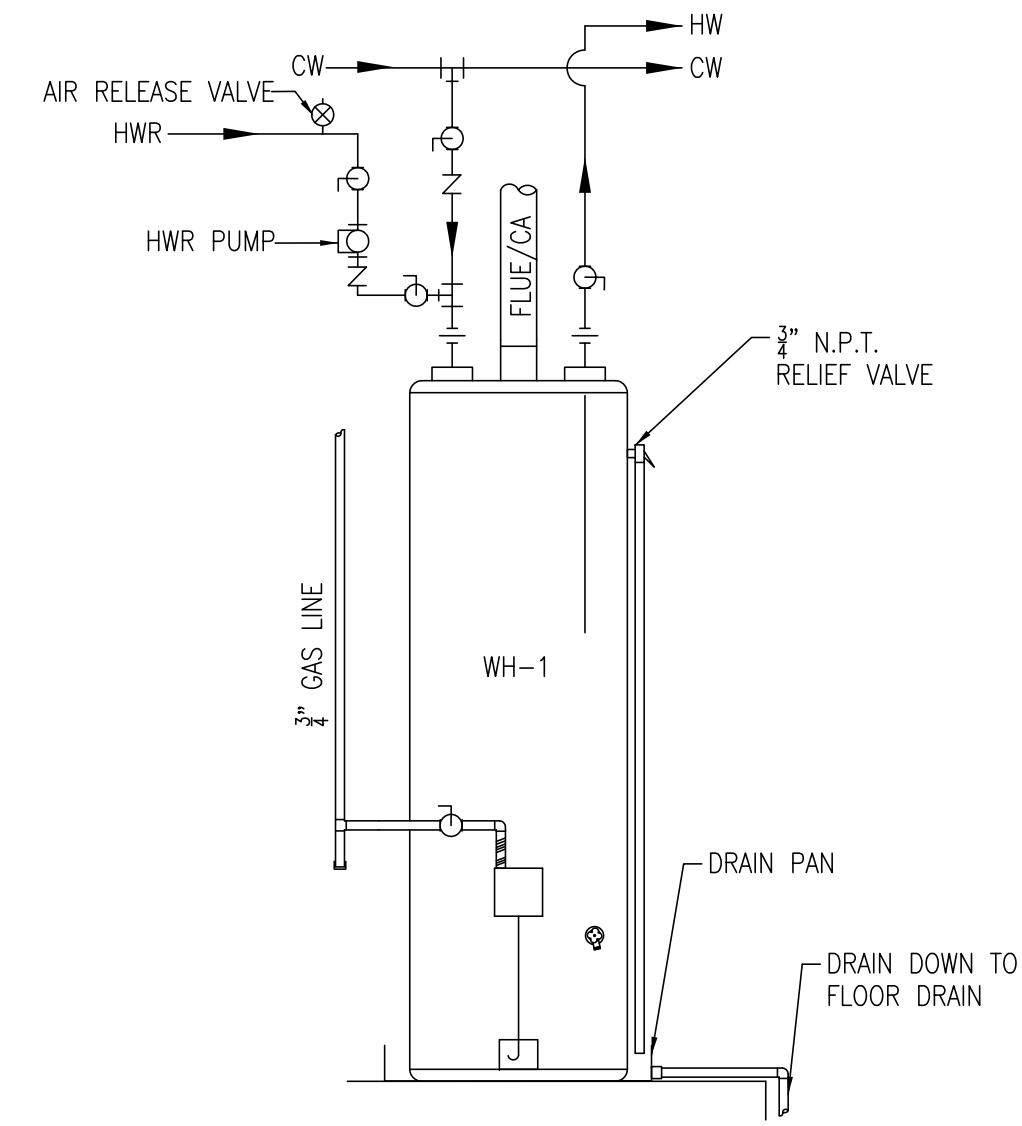
REV	DESCRIPTION	DATE

Designed by:	Rev.:
Drawn by: MPJ	Date: 12/10/13
Reviewed by:	Project No. 135625
Submitted by: RLB	Drawing code: -
	File name: 12/10/13
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**COONSKIN PARK
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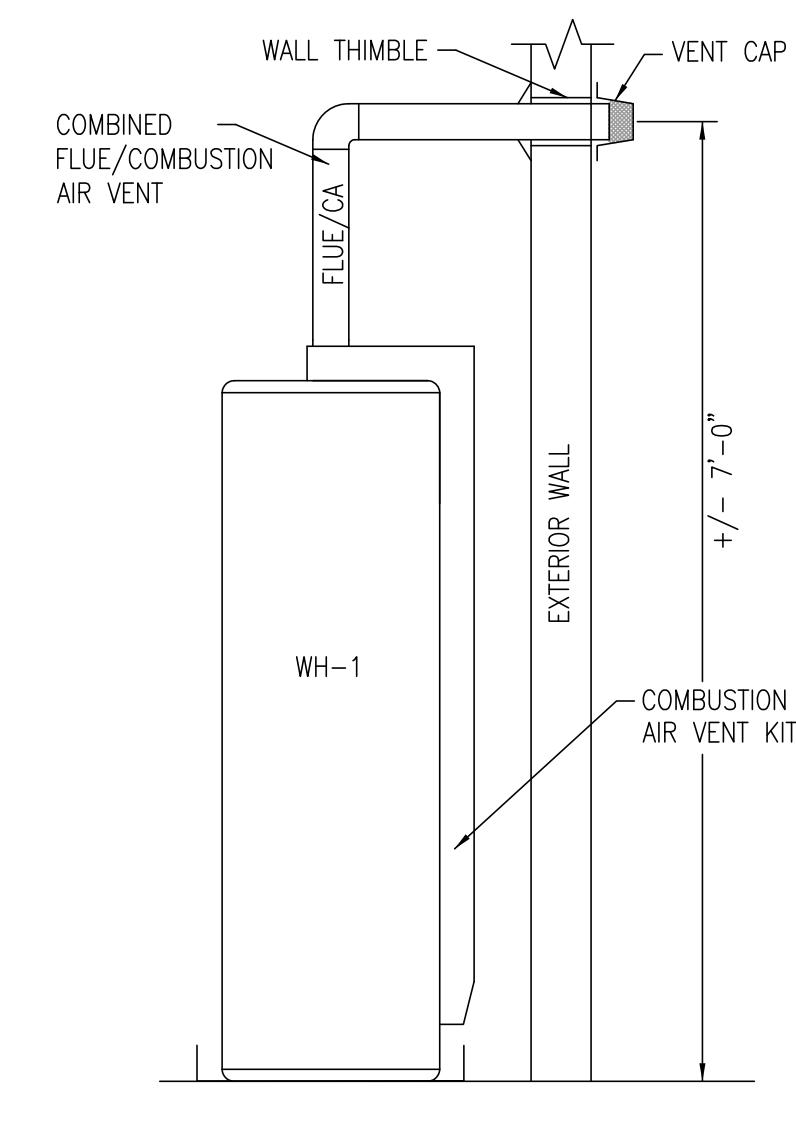
PLUMBING PIPING PLAN

Sheet reference number:
P-2

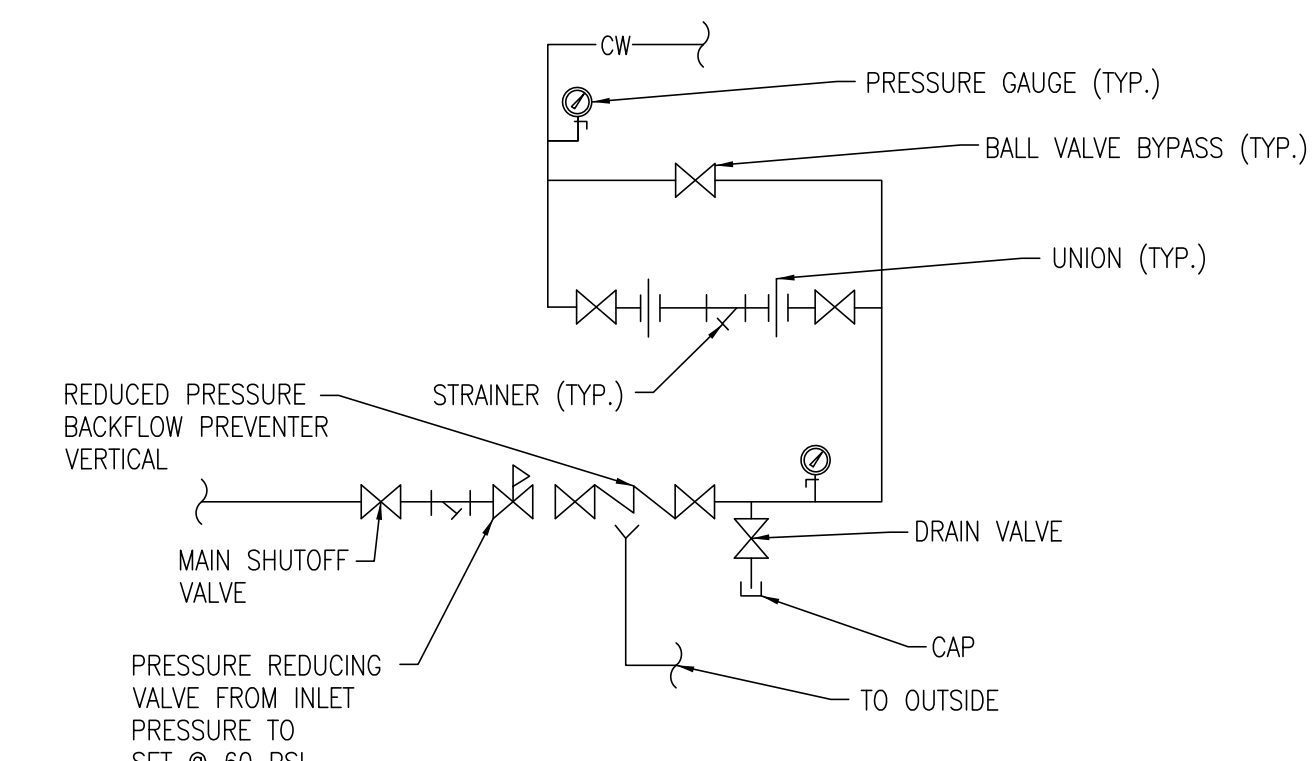


FRONT VIEW
GAS WATER HEATER WH-1

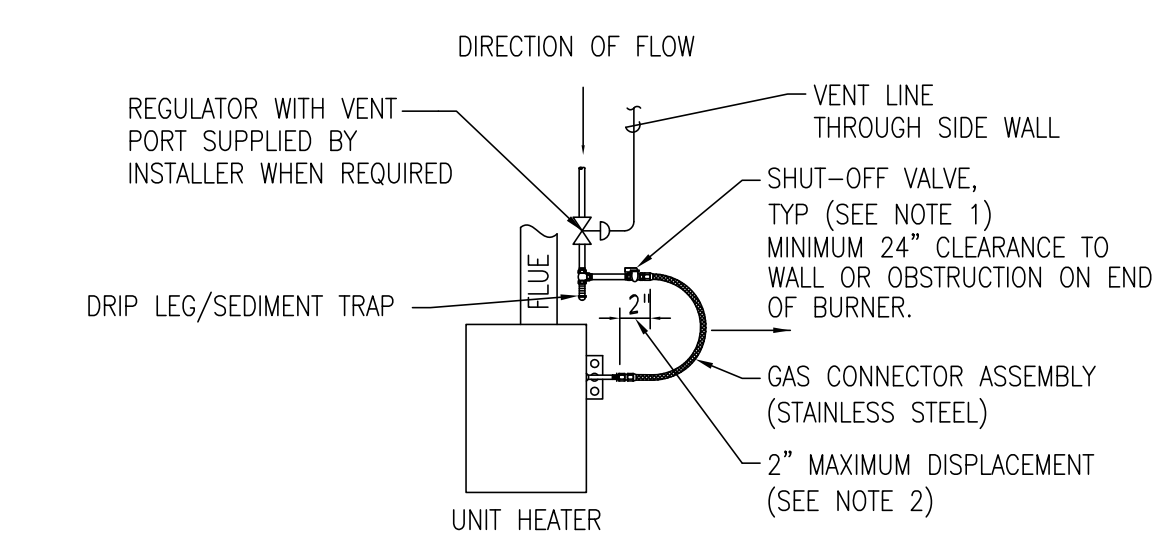
1
P-3 SCALE : NONE



SIDE VIEW



2
P-3 SCALE : NONE
DOMESTIC COLD WATER ENTRY DETAIL



NOTES:
1. SHUT-OFF VALVE MUST BE PARALLEL TO ONE HALF INCH BURNER INLET PIPE.
2. THE 2" DISPLACEMENT AS SHOWN IS FOR THE COLD CONDITION. THIS DISPLACEMENT WILL BE REDUCED AS THE SYSTEM IS FIRED.
3. ALLOW SUFFICIENT CLEARANCES FOR BURNER REMOVAL SERVICE.
4. ALL GAS PIPING AND FINAL CONNECTIONS SHOWN IS BY PLUMBING CONTRACTOR.

3
P-3 SCALE : NONE
UNIT HEATER GAS PIPING DETAIL

PLUMBING FIXTURES & FAUCETS SCHEDULE

2009 INTERNATIONAL PLUMBING CODE

ITEM	FIXTURE	MANUFACTURER/ MODEL NO.	DESCRIPTION	SAN	VENT	CW	HW	DFU	SFU		TOTAL SFU	NOTES
									HW	CW		
WC-1	WATER CLOSET	CRANE 38355	ELONGATED FRONT, RELAXED HEIGHT, FLOOR MOUNT, DUAL FLUSH	4"	2"	1/2"	-	1.1 / 1.6 GPF	-	1.6	1.6	WITH TANK
L-1	LAVATORY	CRANE 1H360	WALL MOUNTED, VITREOUS CHINA, WHEELCHAIR LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	0.5 GPM	0.5	0.5	0.7	
US-1	UTILITY SINK	E. L. MUSTEE 14 UTILATUB	FLOOR MOUNTED, 20 GAL., ONE PIECE MOLDED RESIN	3"	2"	1/2"	1/2"	-	2.25	2.25	3.0	
S-1	SHOWER	STERLING 62010100	38" SHOWER BASE & WALL SURROUND	3"	1 1/2"	1/2"	1/2"	2"	3.0	3.0	4.0	WHITE
HB	HOSE BIBB	-	SEE SPECS	-	-	1/2"	-	-	-	-	-	
FD	FLOOR DRAIN	-	SEE SPECS	3"	-	-	-	-	-	-	-	WITH TRAP PRIMER
WHYD-1	WALL HYDRANT	-	SEE SPECS	-	-	3/4"	-	-	-	-	-	
F-1	LAV. FAUCETS	DELTA 27C4845	4" DECK FAUCET TWO HANDLE MIXING			1/2"	1/2"					① ②
F-2	UTILITY SINK	DELTA 27C4845	TWO HANDLE			1/2"	1/2"					
F-3	SHOWER	DELTA T14238	ONE HANDLE			1/2"	1/2"					

CODED NOTE:
① PROVIDE FLOW CONTROL NON AERATING SPRAY OUTLET
② ADA- WRIST BLADE HANDLE

GAS WATER HEATER SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL NUMBER	TYPE	STORAGE GALLONS	INPUT MBH	RECOVERY RATE GAL/HR	PHYSICAL SIZE HT x DIA	FLUE SIZE	NOTES
WH-1	MECHANICAL ROOM 112	BRADFORD WHITE WATER HEATING	DS1-40S6FN	DIRECT VENT / TALL TANK	40	38	41	49-3/4"x20"	4"	① ② ③

KEYNOTES:
① PROVIDE COMBINATION FLUE / COMBUSTION VENT KIT PER MANUFACTURERS RECOMMENDATIONS. ③ PROVIDE TEMPERATURE AQUASTAT CONTROL OF PUMP.
② PROVIDE 1/2 HP HOT WATER CIRCULATION PUMP, GRUNDFOS MODEL UP15-18B7 OR EQUAL.

REV	DESCRIPTION	DATE	BY

Designed by:	MPJ	Checked by:	
Drawn by:		Reviewed by:	
Submitted by:	RLB	Plot date:	12/10/13
Date:	12/10/13	Project No.:	135625
		Drawing code:	
		Plot scale:	1/2"=1'-0"

COONSKIN PARK
MAINTENANCE FACILITY

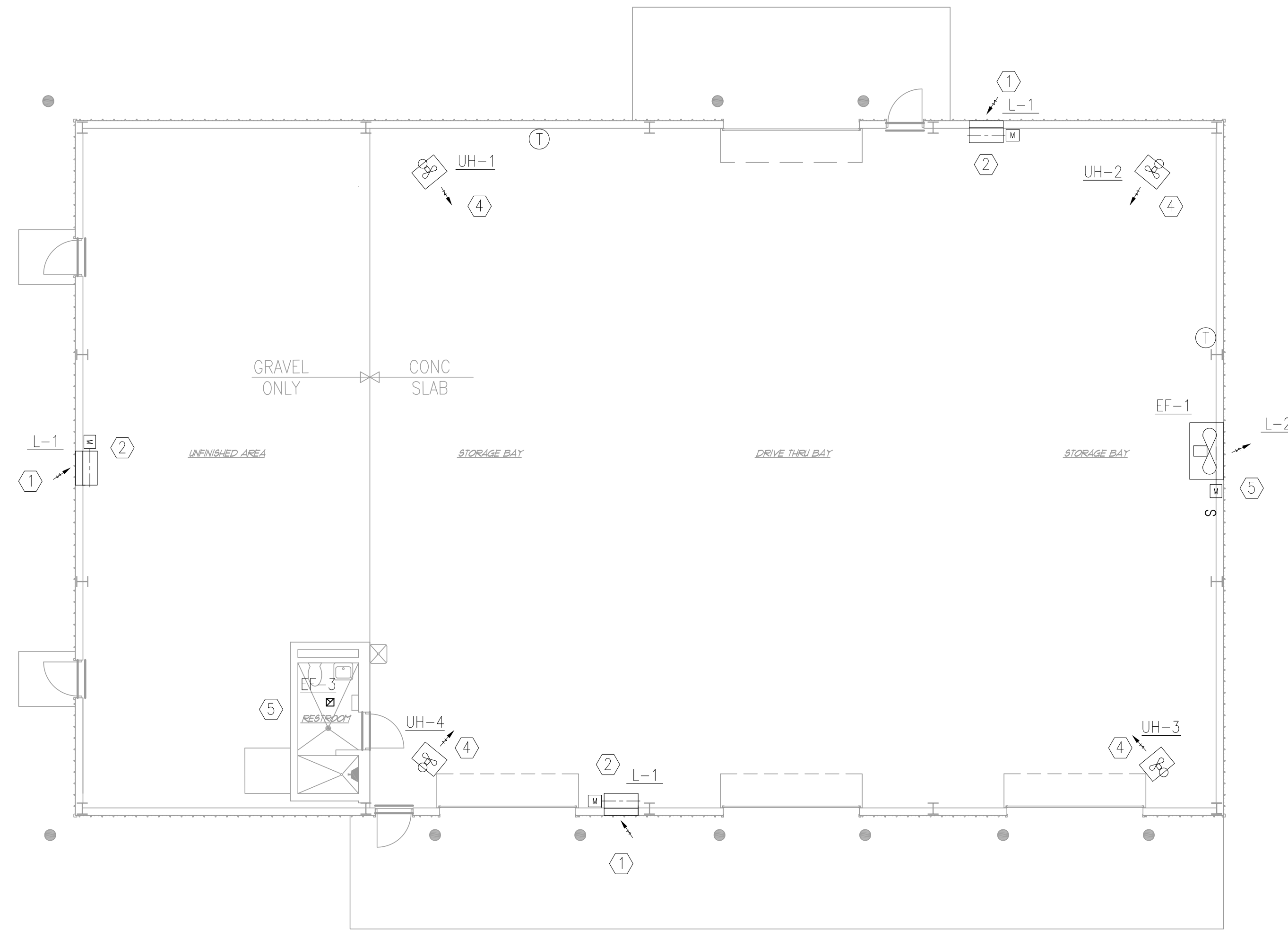
PLUMBING DETAILS
/SCHEDULES

Sheet reference number:
P-3

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

GENERAL NOTES:

1. VERIFY THE EXACT LOCATION OF T-STATS WITH OWNER BEFORE INSTALLATION.
2. COORDINATE ALL MECHANICAL WORK LOCATIONS WITH LIGHTING AND OTHER ELECTRICAL, PLUMBING AND ARCHITECTURAL COMPONENTS.
3. PROVIDE TRANSITIONS AT AIR DEVICES/RUNOUTS AS REQUIRED.
4. SEE M-2 FOR DETAILS.

CODED NOTES:

- ① MOUNT BOTTOM OF LOUVER AT +/- 13'-0" AFF. COORDINATE LOCATION WITH BUILDING STRUCTURE ELEMENTS. FINISH OPENING PER METAL BUILDING MANUFACTURERS RECOMMENDATIONS.
- ② NORMALLY CLOSED MOD WILL OPEN WHEN EF-1 IS ENERGIZED.
- ③ MOUNT EXHAUST FAN BOTTOM AT +/- 15'-0" COORDINATE EXACT LOCATION WITH BUILDING STRUCTURE. FINISH OPENING PER METAL BUILDING MANUFACTURERS RECOMMENDATIONS.
- ④ PROVIDE 4" FLUE UP THRU ROOF. TERMINATE ABOVE ROOF WITH VENT CAP AND FLASH PER MANUFACTURERS RECOMMENDATIONS.
- ⑤ PROVIDE HEAT/LIGHT/FAN, RUN 3" EXHAUST PIPE OUT BUILDING SIDE WALL. TERMINATE WITH VENT CAP.

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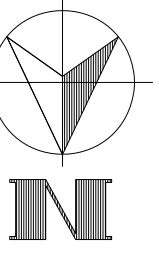
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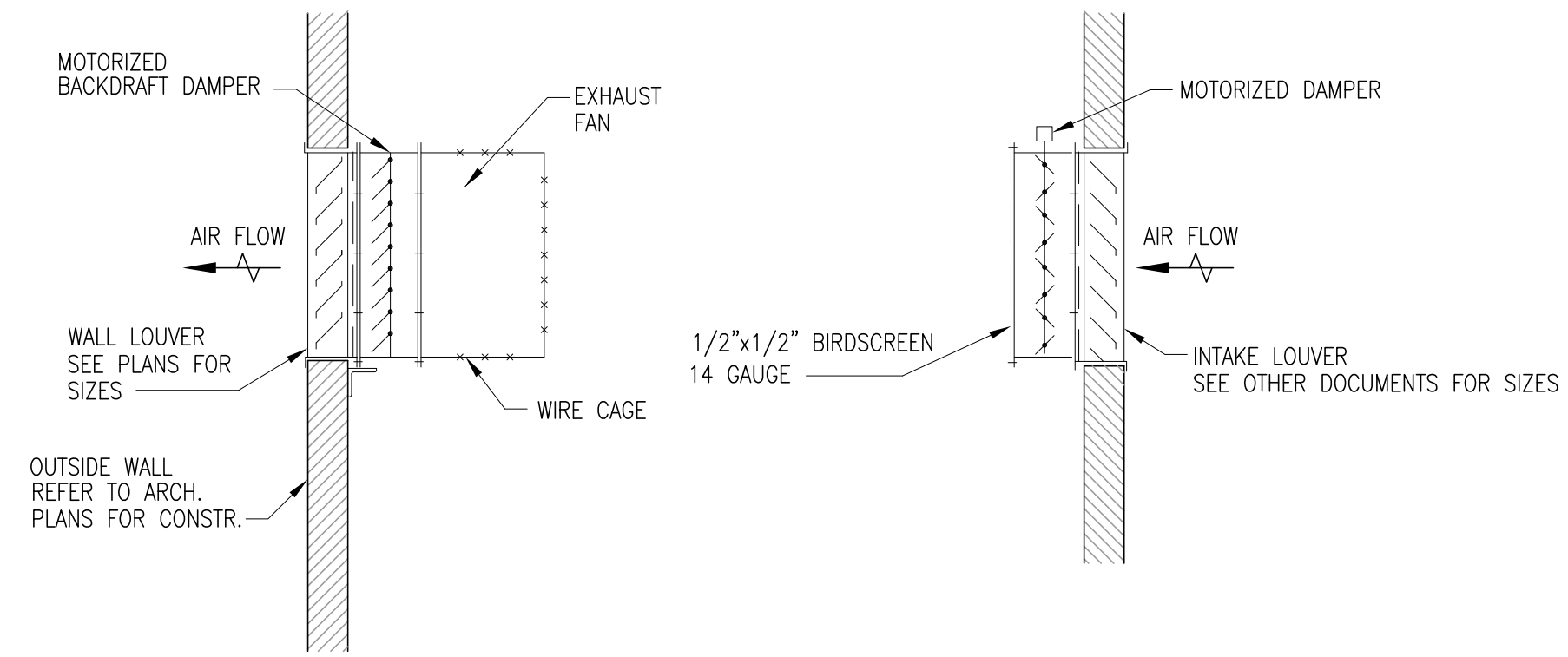
Designed by:	Date:	Rev.:	
Drawn by: MPJ	12/10/13	1	
Reviewed by: -	Project No.:	135625	
Submitted by: RLB	Drawing code:	-	
	File name:	12/10/13	
	Plot date:	12/10/13	
	Plot scale:		

**COONSKIN PARK
MAINTENANCE FACILITY**

MECHANICAL PLAN HVAC

Sheet reference number:
M-1





ROOM VENTILATION DETAIL
SCALE: NONE

UNIT HEATER SCHEDULE (GAS)

TAG	SERVES	TYPE	MANUFACTURER	MODEL	INPUT (MBH)	OUTPUT (MBH)	% EFF	AIR TEMP RISE °F	FAN CFM	MOTOR	VOLTS/PHASE/HERTZ	FLA	REMARKS
UH-1	WAREHOUSE	HIGH EFFICIENCY	STERLING	QVF	100	80	80	50	1480	1/30	120/1/60	2.6	(1)
UH-2	WAREHOUSE	HIGH EFFICIENCY	STERLING	QVF	100	80	80	50	1480	1/30	120/1/60	2.6	(1)
UH-3	WAREHOUSE	HIGH EFFICIENCY	STERLING	QVF	100	80	80	50	1480	1/30	120/1/60	2.6	(1)
UH-4	WAREHOUSE	HIGH EFFICIENCY	STERLING	QVF	100	80	80	50	1480	1/30	120/1/60	2.6	(1)

NOTES:
(1) PROVIDE/INSTALL WITH VIBRATION ISOLATORS

LOUVER SCHEDULE

TAG	SERVES	MANUFACTURER	MODEL	SIZE	DEPTH	CFM	APPROXIMATE % FREE AREA (SF)	MAX PD (IN WG)	NOTES
L-1	WAREHOUSE	GREENHECK	ESD-403	36/24	4"	1200	2.78	0.03	(1) (2)
L-2	EF-1	GREENHECK	ESD-403	48/48	4"	3600	6.72	0.19	(1) (2)

NOTES:
(1) DRAINABLE BLADES
(2) COLOR BY ARCHITECT

FAN SCHEDULE

TAG	SERVES	TYPE	MANUFACTURER	MODEL	DRIVE TYPE	CFM MAX/MIN	S.P. IN W.G.	POWER	SONE	VOLTS/PHASE/HERTZ	FAN WT. (LBS.)	NOTES
EF-1	WAREHOUSE GENERAL EXHAUST	WALL FAN	COOK	24XMW	BELT	3600/1800	0.25	1/2 HP	25	208/1/60	100	(1) (2) (3) (4)
EF-2	REST ROOM	CABINET/HEAT/LIGHT/FAN	BROAN	100HFL	DIRECT	100/100	0.1	14 AMP	2.0	120/1/60	9	(3)

KEYNOTES:
(1) PROVIDED WITH FAN TWO SPEED MOTOR
(2) PROVIDE WIRE SAFETY CAGE
(3) ALL WIRING BY E.C.
(4) SPARK RESISTANT AIRWAY

GENERAL NOTES:
1. SOUND POWER LEVELS PRESENTED AT HIGH SPEED

REV	DESCRIPTION	DATE	BY

Designed by:	Checked by:	Date:	Rev.
Drawn by: MPJ		12/10/13	
Reviewed by:		Project No. 135625	
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		File name:	Plot date: 12/10/13
		Plot scale:	

COONSKIN PARK MAINTENANCE FACILITY

MECHANICAL DETAILS

Sheet reference number: M-2

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ELECTRICAL SYMBOLS

POWER SYMBOLS

	HOME RUN TO PANELBOARD LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS. CIRCUITS SHALL INCLUDE ALL CONDUCTORS (PHASE, NEUTRAL & GROUND).
	CONDUIT RUN EXPOSED.
	CONDUIT RUN CONCEALED IN OR UNDER FLOOR SLAB.
	CONDUIT RUN UNDERGROUND.
	E DENOTES ELECTRICAL.
	T DENOTES TELECOMMUNICATIONS.
	CONDUIT TURNED UP.
	CONDUIT TURNED DOWN.
	GROUND ROD.
	EXOTHERMIC WELD.
	BARE COPPER GROUNDING CONDUCTOR.
	LIGHTNING PROTECTION DOWN CONDUCTOR.
	GROUND ROD TRIAD. RODS SHALL BE SPACED A MINIMUM OF 10 FT. 0 IN. APART.
	SINGLE POLE TOGGLE SWITCH, 20 AMPERE, 120/277 VOLT. MOUNTED 44 IN. ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. "X" REPRESENTS SUBSCRIPT.
	3 DENOTES THREE WAY TOGGLE SWITCH.
	4 DENOTES FOUR WAY TOGGLE SWITCH.
	TS DENOTES TIME SWITCH.
	D DENOTES LOCAL WALL DIMMER. EXP.
	EXP DENOTES EXPLOSION PROOF.
	IG DENOTES ISOLATED GROUND.
	SP DENOTES SURGE SUPPRESSION.
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, MOUNTED 15 IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, MOUNTED 15 IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
	SINGLE RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT INSTALLER.
	IG DENOTES ISOLATED GROUND.
	SP DENOTES SURGE SUPPRESSION.
	EWC DENOTES ELECTRIC WATER COOLER.
	SPECIAL PURPOSE RECEPTACLE, SIZE AND TYPE AS SHOWN ON THE DRAWING, MOUNTED 15 IN. ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
	QUAD RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R. MOUNT 15 IN ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, MOUNTED FLUSH WITH CEILING.
	DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R. FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.
	QUAD RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R. FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.
	CORD REEL.
	JUNCTION BOX ABOVE CEILING, SIZE PER NEC UNLESS OTHERWISE NOTED.
	JUNCTION BOX, WALL MOUNTED.
	EQUIPMENT CONNECTION POINT.
	TRANSFORMER. PROVIDE FLOTRANSFORMER MOUNTED WITH 4" CONCRETE EQUIPMENT PADS AND 45 DEG CHAMFERED EDGES.
	PULLBOX SIZE PER NEC UNLESS OTHERWISE NOTED.
	MULTI-SERVICE FLOOR BOX (FIRST FLOOR) OR FIRE RATED POKE THROUGH (SECOND FLOOR).
	PANEL BOARD ON EMERGENCY SYSTEM, MOUNTED 78 IN. ABOVE FINISHED FLOOR TO TOP OF CABINET UNLESS OTHERWISE NOTED. SEE "PANELBOARD SCHEDULE" FOR NUMBER AND SIZE OF OVER CURRENT DEVICES.
	PANELBOARD, MOUNTED 78 IN. ABOVE FINISHED FLOOR TO TOP OF CABINET UNLESS OTHERWISE NOTED. SEE "PANELBOARD SCHEDULE" FOR NUMBER AND SIZE OF OVERCURRENT DEVICES.
	VARIABLE FREQUENCY DRIVE FOR MOTOR, MOUNTED 54 IN. ABOVE FINISHED FLOOR. (MC) INDICATES FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
	MOTOR, NUMBER INDICATES HP RATING.
	SINGLE POLE MANUAL MOTOR STARTER, WITH THERMAL OVERLOAD PROTECTION, CIRCUIT NUMBER AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. (MC) INDICATES FURNISHED BY MECH. CONTRACTOR & INSTALLED BY ELEC. CONTRACTOR. WHERE SHOWN WITHOUT (MC) INDICATES FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. (NOTATION TYPICAL).
	100/3 3R
	NON-FUSIBLE DISCONNECT SWITCH, SIZE AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. '100/3' DENOTES 100 AMPERE, 3 POLE. '3R' DENOTES NEMA 3R ENCLOSURE. (MC) INDICATES FURNISHED BY MECHANICAL CONTRACTOR & INSTALLED BY ELECTRICAL CONTRACTOR WHERE SHOWN WITHOUT (MC) INDICATES FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR (NOTATION TYPICAL).
	200/3/150
	FUSIBLE DISCONNECT SWITCH, SIZE AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. '200/3/150' DENOTES 200 AMPERE, 3 POLE. WITH 150 AMPERE FUSES.'3R' DENOTES NEMA 3R ENCLOSURE. (NOTATION TYPICAL).
	100/3
	THERMAL MAGNETIC CIRCUIT BREAKER, SIZE AND NUMBER AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. '100/3' DENOTES 100 AMPERE, 3 POLE.(NOTATION TYPICAL).
	MAGNETIC MOTOR STARTER, CIRCUIT NUMBER AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. FURNISHED BY OTHERS AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
	FUSIBLE DISCONNECT SWITCH TYPE COMBINATION MAGNETIC MOTOR STARTER, CIRCUIT NUMBER AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. FURNISHED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR.

	MOTOR CIRCUIT PROTECTOR TYPE COMBINATION MAGNETIC MOTOR STARTER, CIRCUIT NUMBERS AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. FURNISHED BY OTHERS AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
	LIGHTING CONTACTOR, MOUNTED 78 IN. ABOVE FINISHED FLOOR TO TOP, UNLESS OTHERWISE NOTED.
	TELE-POWER POLE, DUPLEX RECEPTACLES.
	SURFACE METAL RACEWAY, (SMR)COORDINATE SIZE WITH SPECIFICATION, MOUNTED ABOVE COUNTER TOP, UNLESS OTHERWISE NOTED.
	EQUIPMENT NUMBER 1 - SEE EQUIPMENT SCHEDULE IN DIVISION 11 OF SPECIFICATION FOR ELECTRICAL CHARACTERISTICS.
	KEYNOTE NUMBER REFERENCE, DENOTES "SEE NOTE 2 THIS DRAWING".
	SYMBOL INDICATES WIRE AND CONDUIT AS PER STANDARD WIRING SCHEDULE.

TELECOMMUNICATIONS SYMBOLS

	TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, VOICE. (W) INDICATES WALL MOUNTED.
	DUPLEX TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, ONE (1) VOICE AND ONE (1) DATA.
	TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, ONE (1) VOICE AND TWO (2) DATA [ONE (1) USARC AND ONE (1) CAPOC]. + INDICATES AFF HEIGHT.
	TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, DATA.
	WEATHERPROOF TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, VOICE. WALL MOUNTED 54" AFF.
	CABLE TRAY.
	DUPLEX TELECOMMUNICATIONS OUTLET, 8 PIN RJ45, ONE (1) VOICE, ONE (1) DATA, MOUNTED IN CEILING.
	TELECOMMUNICATIONS OUTLET, 8 PIN RJ45, ONE (1) DATA, FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED. 4 INDICATES QUAD OUTLET.
	DUPLEX TELECOMMUNICATIONS OUTLET, 8 PIN RJ45, ONE (1) VOICE, ONE (1) DATA, FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.

LIGHTING SYMBOLS

	STRIP LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	LIGHTING FIXTURE, TYPE LETTER AND CIRCUIT NUMBER SHOWN. 'LP1' DENOTES PANELBOARD, '2' DENOTES CIRCUIT NUMBER, 'b' DENOTES SWITCH LETTER, 'A' DENOTES FIXTURE TYPE LETTER (NOTATIONS TYPICAL). SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	LIGHTING FIXTURE, TYPE LETTER AND CIRCUIT NUMBER SHOWN. 'LP1' DENOTES PANELBOARD, '2' DENOTES CIRCUIT NUMBER, 'b' DENOTES SWITCH LETTER, 'A' DENOTES FIXTURE TYPE LETTER (NOTATIONS TYPICAL). SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. SHADING DENOTES FIXTURE IS CONNECTED TO EMERGENCY BATTERY BALLAST.
	LIGHTING FIXTURE, TYPE LETTER, PANELBOARD, AND CIRCUIT NUMBER SHOWN. 'LP1' DENOTES PANELBOARD, '4' DENOTES CIRCUIT NUMBER, AND 'A' DENOTES FIXTURE TYPE LETTER FROM LIGHT FIXTURE SCHEDULE (NOTATIONS TYPICAL). SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. FULL SHADING DENOTES FIXTURE IS UNSWITCHED AND PROVIDED WITH EMERGENCY BALLAST.
	WEATHER PROOF ENCLOSURE.
	PHOTOCELL.
	EXIT SIGN, WITH DIRECTIONAL ARROWS AS SHOWN ON THE DRAWINGS. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	EMERGENCY LIGHTING MASTER UNIT, BATTERY POWERED. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	LP1 DENOTES PANELBOARD. 12 DENOTES CIRCUIT NUMBER. ED DENOTES FIXTURE TYPE LETTER.
	CEILING MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	CEILING MOUNTED LIGHTING FIXTURE ON EMERGENCY SYSTEM. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	ER DENOTES EMERGENCY REMOTE HEAD.
	b DENOTES CONTROLLING MASTER UNIT.
	WALL MOUNTED LIGHTING FIXTURE ON EMERGENCY SYSTEM. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	ER DENOTES EMERGENCY REMOTE HEAD.
	b DENOTES CONTROLLING MASTER UNIT.

SITE LIGHTING SYMBOLS

	LIGHTING CONTROL PANEL.
	SITE LIGHTING ASSEMBLY WITH I.E.S TYPE IV, 400 WATT METAL HALIDE CUTOFF LUMINAIRE AT 30'-0" MOUNTING HEIGHT (POLE MOUNTED).
	SITE LIGHTING ASSEMBLY WITH I.E.S TYPE II, 100 WATT METAL HALIDE CUTOFF LUMINAIRE AT 15'-0" MOUNTING HEIGHT (POLE MOUNTED).
	SITE LIGHTING ASSEMBLY WITH I.E.S TYPE IV, 400 WATT METAL HALIDE CUTOFF LUMINAIRE AT 25'-0" MOUNTING HEIGHT (WALL MOUNTED).
	EXTRUDED ALUMINUM ARCHITECTURAL FLOODLIGHT WITH 100 WATT CERAMIC METAL HALIDE LUMINAIRE, WIDE FLOOD PATTERN (GROUND MOUNTED).

LIGHTING CONTROL DEVICES (WATTSTOPPER BASIS OF DESIGN)

	DIGITAL TIME SWITCH; 120/277V, 0-1200W WATTSTOPPER TS-400.
	PIR WALL SWITCH SENSOR; 120/277V, 0-1200W WATTSTOPPER PW-100.
	PIR BI-LEVEL WALL SWITCH SENSOR; 120/277V, 0-1200W WATTSTOPPER PW-200.
	ULTRASONIC CEILING SENSOR; 24VDC, 360 DEGREES TWO-SIDED, 1100 FT COVERAGE WATTSTOPPER WT-1105.
	ULTRASONIC CEILING SENSOR; 24VDC, 360 DEGREES TWO-SIDED, 1100 FT COVERAGE, ISOLATED RELAY FOR HVAC. WATTSTOPPER WT-1100.
	ULTRASONIC CEILING SENSOR; 24VDC, 360 DEGREES TWO-SIDED, 2200 FT COVERAGE WATTSTOPPER WT-2205.
	ULTRASONIC CEILING SENSOR; 24VDC, 360 DEGREES TWO-SIDED, 2200 FT COVERAGE, ISOLATED RELAY FOR HVAC. WATTSTOPPER WT-2200.
	ULTRASONIC CEILING SENSOR; 24VDC, TWO-SIDED, 90 LINEAR FT COVERAGE WATTSTOPPER WT-2255.
	POWER PACK; 120/277V, 20A BALLAST LOAD, 24VDC, 150MA OUTPUT WATTSTOPPER BZ-100.
	POWER SUPPLY; 277V, 800MA OF 24VDC. WATTSTOPPER AT-277.

SINGLE-LINE SYMBOLS

	20A	SINGLE LINE DIAGRAM THERMAL-MAGNETIC CIRCUIT BREAKER.
	3P	
	7A MCP	SINGLE LINE DIAGRAM COMBINATION MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR (MCP), CONTACTOR (NEMA SIZE) AND THERMAL OVERLOAD (OL).
	NEMA 1	
	OL	
	30A	SINGLE LINE DIAGRAM NON-FUSED DISCONNECT SWITCH.
	30A	SINGLE LINE DIAGRAM FUSED DISCONNECT SWITCH.
	20A	

GENERAL WIRING NOTES:

- REFER TO DIVISIONS 26, 27, 28 AND 33 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL ITEMS.
- MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, ARE TO CENTER LINE OF EQUIPMENT, EXCEPT MOUNTING HEIGHTS OF LIGHTING WHICH IS TO BOTTOM OF FIXTURE.
- PROVIDE GROUND CONDUCTOR FOR ALL BRANCH, FEEDER AND EQUIPMENT CIRCUITS SIZED PER NEC UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL DETERMINE THE EXACT NUMBER OF CONDUCTORS AS WELL AS THE ROUTING AND SIZE OF THE RACEWAY, WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACEWAY EXCEEDS 4, THE WIRE AMPACITIES SHALL BE DERATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- CONTRACTOR TO COORDINATE ALL CONDUIT PENETRATIONS, AND PROVIDE CONDUIT SEALS IN HAZARDOUS LOCATIONS IF APPLICABLE.
- ALL NEUTRAL WIRES SHALL BE FULL SIZE.
- ALL WIRING SHALL BE 98% COPPER IN MATERIAL.
- ALL WIRING FOR LIGHTING AND POWER CIRCUITS SHALL BE NO. 12 AWG MINIMUM.
- ALL WIRING FOR CONTROL SHALL BE NO. 14 AWG MINIMUM.
- ALL CONDUIT SHALL BE 1/2"-IN MINIMUM FOR POWER, 1" MIN. FOR DATA/COMM.
- THE WIRE SIZE FROM A 20 AMPERE, SINGLE POLE, 277 VOLT CIRCUIT BREAKER MOUNTED IN A LIGHTING PANELBOARD TO THE LOAD SHALL BE AS FOLLOWS:
NO. 12 AWG. WIRE UP TO 100 FEET RUN.
NO. 10 AWG. WIRE UP TO 101 FEET RUN - 200 FEET RUN.
NO. 8 AWG. WIRE UP TO 201 FEET RUN - 300 FEET RUN.

	54 IN. AFF (TYP.)		15 IN. AFF (TYP.)
	15 IN. AFF (TYP.)		15 IN. AFF (TYP.)

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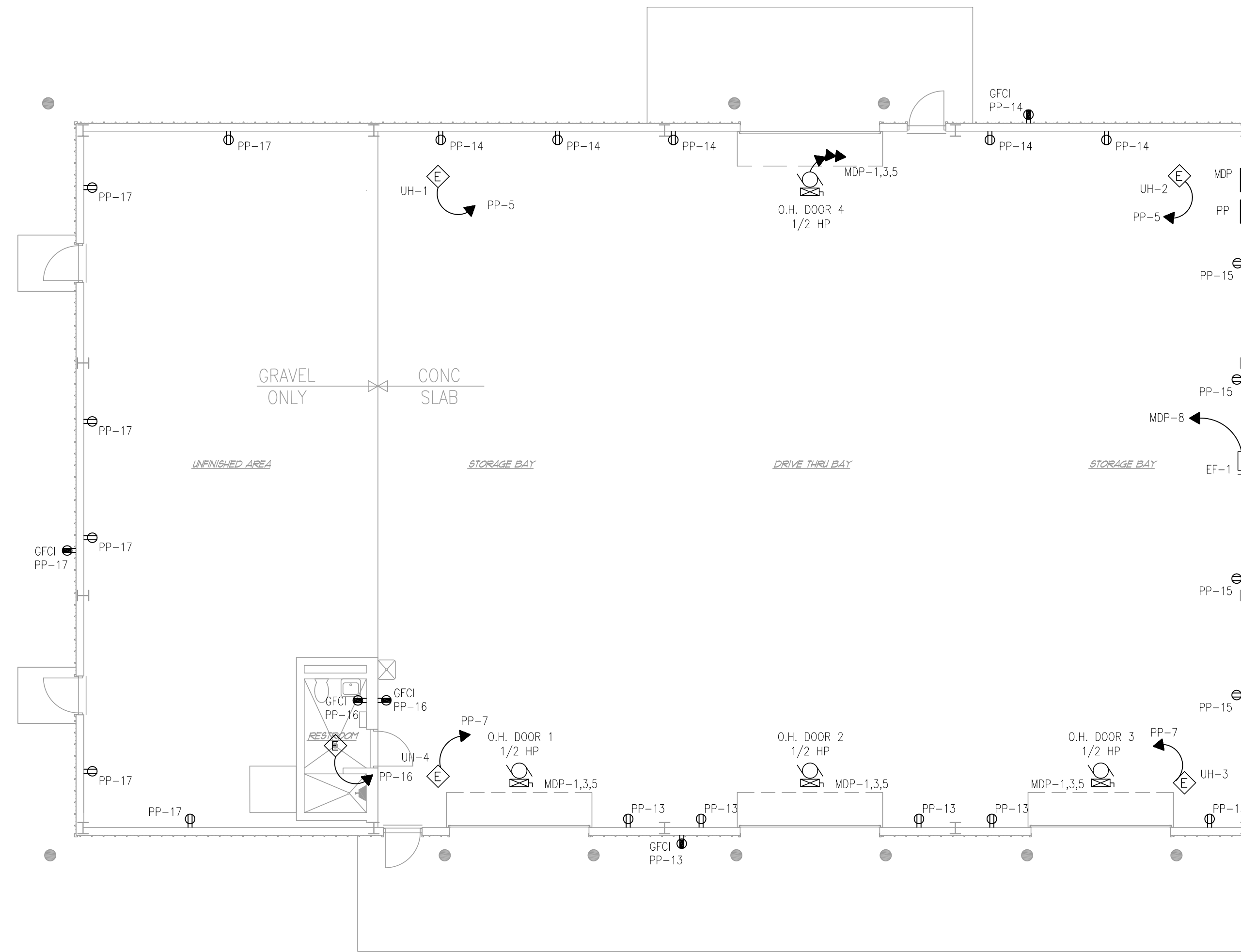
REV	DESCRIPTION	DATE	BY

Designed by:		Date:	12/10/13	Rev.	
Drawn by:	MPJ	Project No.:	135625		
Reviewed by:		Drawing code:			
Submitted by:	RLB	File name:	12/10/13		
		Plot date:	12/10/13		
		Plot scale:			

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ABBREVIATIONS, SYMBOLS, LEGEND, AND GENERAL NOTES

Sheet reference number:
E-0



2 POWER PLAN
E-2 SCALE : 1/8" = 1'-0"

GENERAL NOTES:

1. FIXTURES WITH SHADING SHALL BE PROVIDED WITH EMERGENCY BATTERY PACKS AND CONTAIN A BODINE EMERGENCY BATTERY PACK.
2. CONNECT EMERGENCY BATTERY PACK FIXTURES TO "ALWAYS HOT" LINE SIDE OF SWITCHING DEVICE.
3. COORDINATE ALL FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT.
4. FOR PANEL SCHEDULE and SINGLE LINE DIAGRAM SEE SHEET E-4.
5. INSTALL ALL RECEPTACLES IN GARAGE AREA AT 48" A.F.F., UNLESS NOTED OTHERWISE.
6. COORDINATE LOCATION OF RECEPTACLES WITH EQUIPMENT BY OWNER.
7. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL EQUIPMENT SCHEDULES PRIOR TO INSTALLATION OF ELECTRICAL COMPONENTS.
8. CIRCUITS IDENTIFIED AS "MDP" REFER TO MAIN DISTRIBUTION PANEL. SEE SINGLE LINE DIAGRAM FOR WIRE AND CONDUIT SIZE.
9. MOUNT AND WIRE ALL OVERHEAD DOOR CONTROL DEVICES IN ACCORDANCE WITH OVERHEAD DOOR MANUFACTURER'S INSTRUCTIONS.

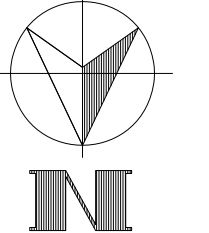
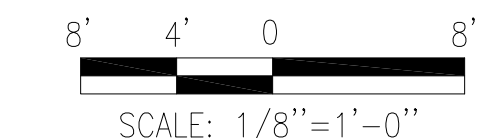
REV. NO.	DESCRIPTION	DATE

Designed by:	Date:	Rev.
Drawn by: MPJ	12/10/13	1
Reviewed by:	Project No.:	135625
Submitted by: RLB	Drawing code:	-
	File name:	12/10/13
	Plot date:	12/10/13
	Plot scale:	1/8" = 1'-0"

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POWER PLAN

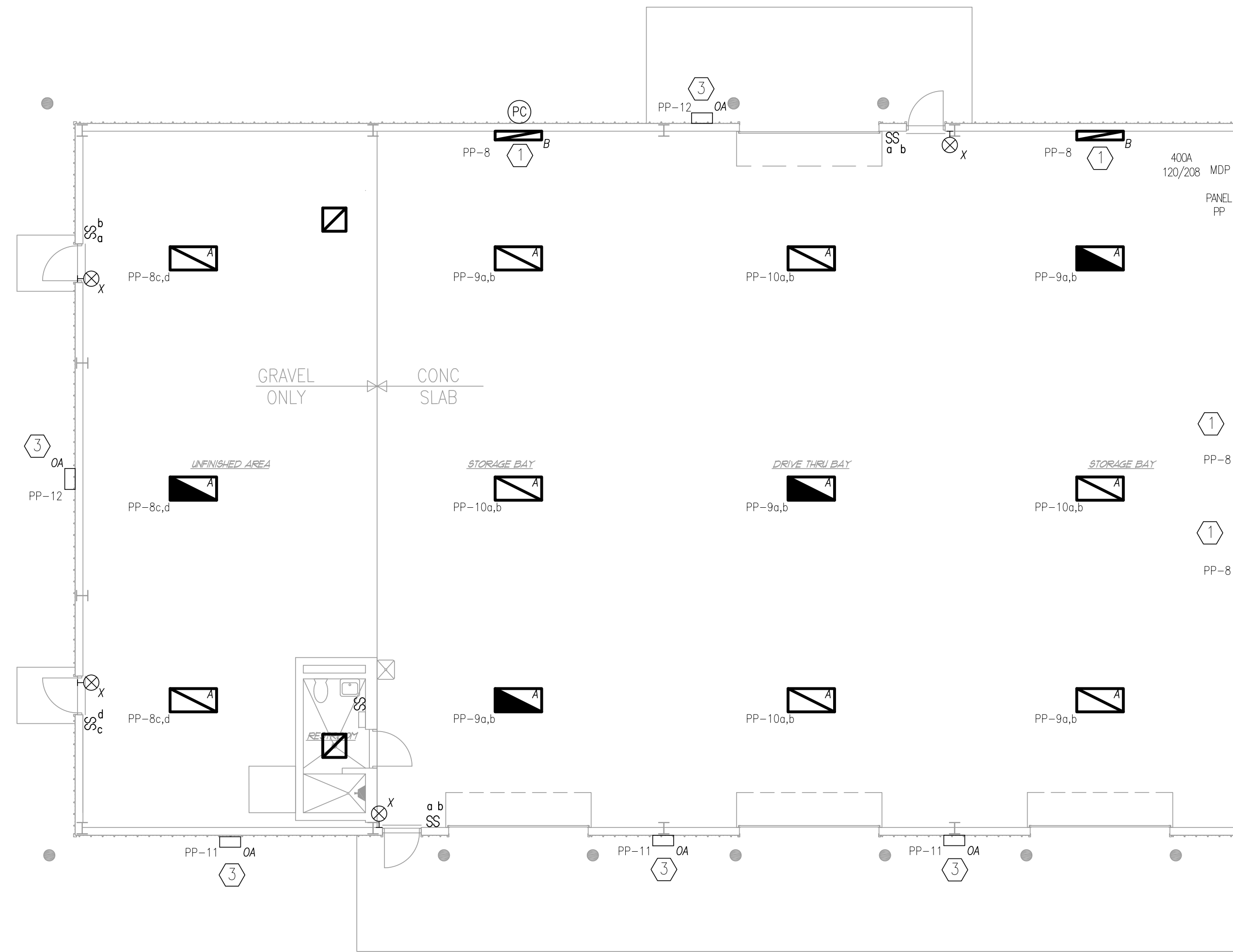
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2 LIGHTING PLAN
E-1 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. FIXTURES WITH SHADING SHALL BE PROVIDED WITH EMERGENCY BATTERY PACKS AND CONTAIN A BODINE EMERGENCY BATTERY PACK.
2. CONNECT EMERGENCY BATTERY PACK FIXTURES TO "ALWAYS HOT" LINE SIDE OF SWITCHING DEVICE.
3. COORDINATE ALL FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT.

KEYNOTES:

- ① VERIFY EXACT LOCATION WITH OWNER (PULL CHAIN SWITCH REQUIRED).
- ② CEILING MOUNTED HEAT/LIGHT/FAN (SEE M-2 FOR DETAILS).
- ③ OUTDOOR LIGHTS ON PHOTOCELL, PROVIDE CONNECTION TO TWO CIRCUITS.

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REV	DESCRIPTION	DATE	BY

Designed by:	Rev:
Drawn by: MPJ	Date: 12/10/13
Reviewed by: RLB	Project No: 135625
Submitted by: RLB	Drawing code: -
	File name: 12/10/13
	Plot date: 12/10/13
	Plot scale: -

**COONSKIN PARK
MAINTENANCE FACILITY**

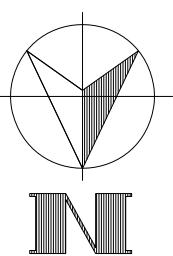
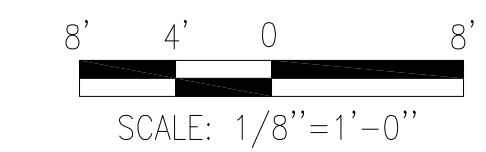
LIGHTING PLAN

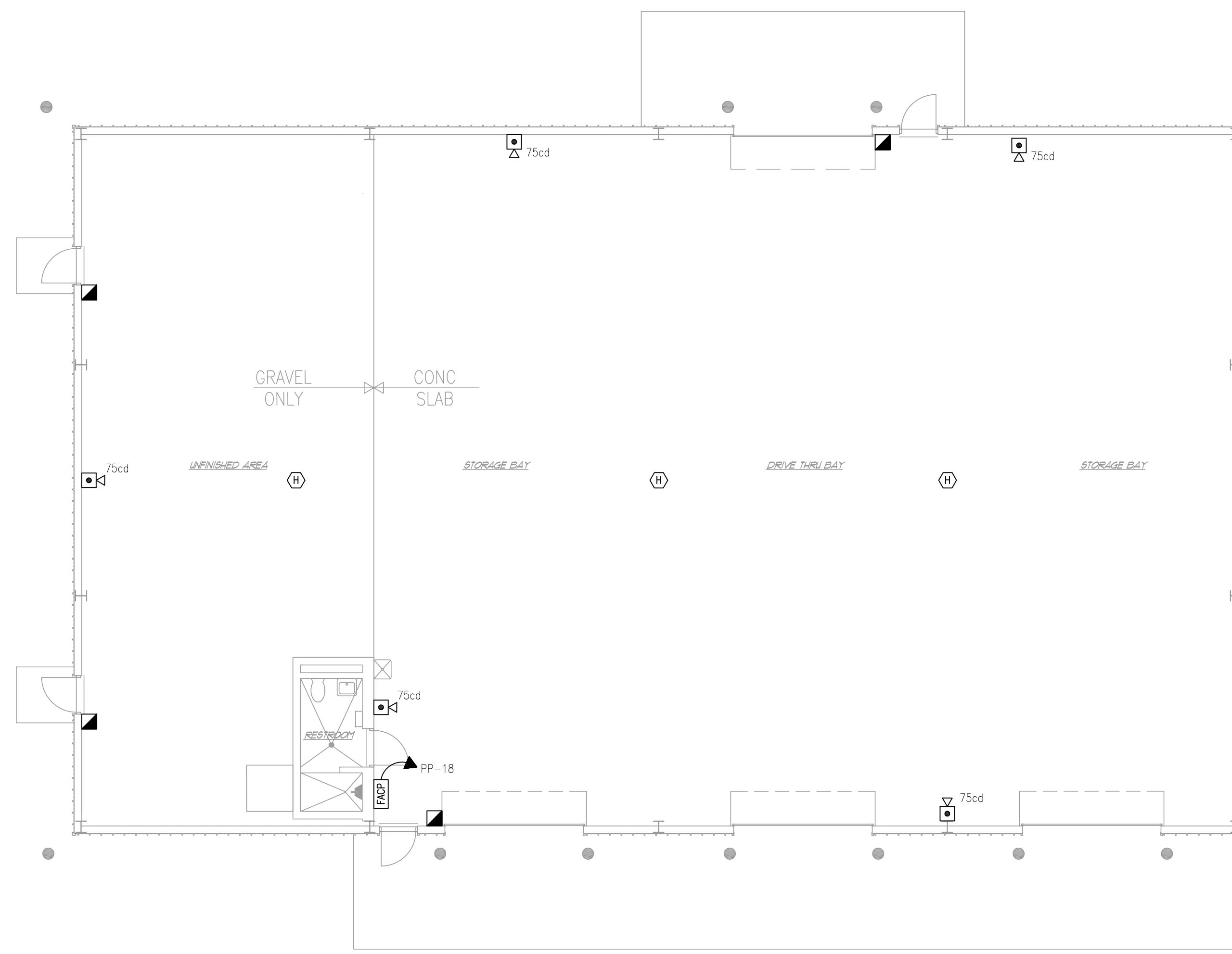
Sheet reference number:
E-2

LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER	CATALOG No.	LAMP	MTG. HT	LUMENS	INPUT WATTS	VOLTS	REMARKS	
A	2'X4' HI-BAY LUMINAIRE, WHITE PAINTED REFLECTOR, W/ UPLIGHT SLOTS CHANNEL	LITHONIA	FGB 654T5HO NIX20U NLWG MVOLT 2/3 ACRB LP835	6-54T5HO	16'-0"	4400	364	120	(2) 3 LAMP BALLASTS	
B	SURFACE MOUNT LOW PROFILE WRAPAROUND T8, 10'X4', 2-LAMP FIXTURE	LITHONIA	LB 2 28T5 MVOLT GEB10PS	2-32WT848	8'-0"	-	64	120	ELECTRONIC BALLAST	
X	LED EXIT SIGN, RED LED WITH NICKEL - CADMIUM BATTERY	LITHONIA	LHQM S W R HORO	LED	ABOVE DOOR	---	0.6	120	NO HEADS	
OA	OUTDOOR AREA / WALL MOUNTED LIGHT, DARK BRONZE	LITHONIA	WFL3 400M RM 120 SCWA	1-400 MH	14'-0"		465	120	1 NIGHTTIME FRIENDLY	

SCHEDULE NOTES:

1. FOR AREAS WITH LOW CEILINGS THE TYPE - "1" DESIGNATION IS FOR SURFACE MOUNT FIXTURES, OTHERS WITHIN THE GRID CEILING ARE LAY IN.





1 FIRE ALARM PLAN
E-3 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

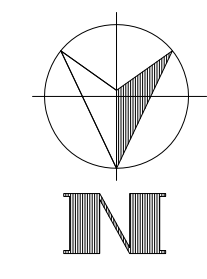
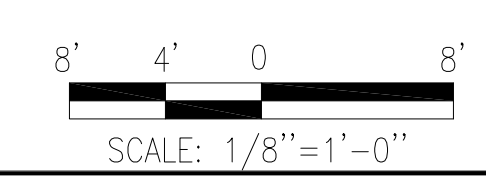
1. INSTALL FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 101.

FIRE ALARM SYMBOLS:

- ⊙ SMOKE DETECTOR
- ⊕ HEAT DETECTOR
- ▣ PULL STATION
- ⊞ MONITOR MODULE
- ⊞ CARBON MONOXIDE DETECTOR
- ⊞ DUCT SMOKE DETECTOR
- ◻ 15cd HORN / STROBE COMBINATION DEVICE
cd - INDICATES CANDELA RATING
- ◻ 15cd STROBE
cd - INDICATES CANDELA RATING
- FACP FIRE ALARM CONTROL PANEL
- WP INDICATES WEATHERPROOF

REV	DESCRIPTION	DATE	APP

Designed by:	Rev.:
Drawn by: MPJ	Date: 12/10/13
Reviewed by:	Project No. 135625
Submitted by: RLB	Drawing code: -
	File name:
	Plot date: 12/10/13
	Plot scale:



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FIRE ALARM PLAN

Sheet reference number:
E-3

COONSKIN PARK MAINTENANCE FACILITY

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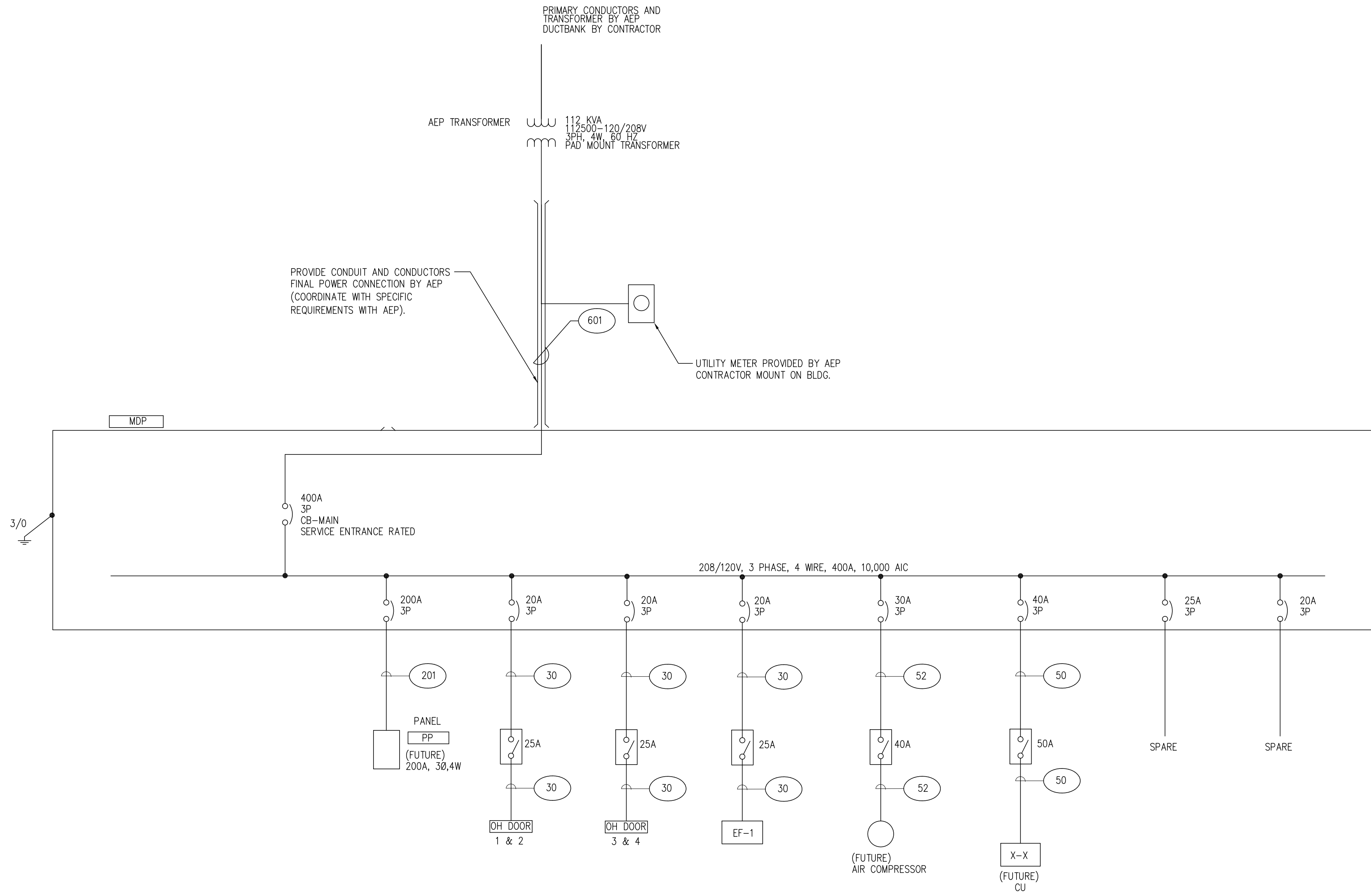
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MDP											400A MAIN CIRCUIT BREAKER		
FED FROM: MDP											3PH 4WIRE 208/120V		
LOCATION: WEST WALL											10,000 AIC		
SURFACE MOUNT											GROUND BAR		
CKT	LOAD SERVED	WIRE	BRKR	PL	PHASE A	PHASE B	PHASE C	PL	BRKR	WIRE	LOAD SERVED	CKT	
1	OH DOORS 1 & 2	10	20	3	1.20	11.20			3	200	3/0	PP	2
3		10				1.20	11.20			3/0		4	
5		10					1.20	11.20				6	
7	AHU/ CU (FUTURE)	40	3	0.00	0.30				3	40	10	EF-1	8
9					0.00	0.30					10		10
11						0.00	0.30				10		12
13	Air Compressor (FUTURE)	30	3	0.00	0.00				3	20		SPARE	14
15					0.00	0.00							16
17						0.00	0.00						18
19	SPARE	25	3	0.00	0.00				1	20		SPARE	20
21					0.00	0.00							22
23						0.00	0.00		1	20		SPARE	24
25	SPARE	20	1	0.00	0.00								26
27					0.00	0.00						PROVISIONED SPACE	28
29	PROVISIONED SPACE					0.00	0.00					PROVISIONED SPACE	30
31	PROVISIONED SPACE				0.00	0.00						PROVISIONED SPACE	32
33	PROVISIONED SPACE					0.00	0.00					PROVISIONED SPACE	34
35	PROVISIONED SPACE						0.00	0.00				PROVISIONED SPACE	36
37	PROVISIONED SPACE				0.00	0.00						PROVISIONED SPACE	38
39	PROVISIONED SPACE					0.00	0.00					PROVISIONED SPACE	40
41	PROVISIONED SPACE						0.00	0.00				PROVISIONED SPACE	42
CONNECTED		12.70			12.70						12.70	KVA	
CONNECTED		105.63			105.63						105.63	AMPS	
TOTAL CONNECTED LOAD		38.10			KVA						105.68	AMPS	
TOTAL DEMAND LOAD		30.48			KVA						84.70	AMPS	

NEC ARTICLE 220

PP											200A MAIN CIRCUIT BREAKER		
FED FROM: MDP											3PH 4WIRE 208/120V		
LOCATION: WEST WALL											10,000 AIC		
SURFACE MOUNT											GROUND BAR		
CKT	LOAD SERVED	WIRE	BRKR	PL	PHASE A	PHASE B	PHASE C	PL	BRKR	WIRE	LOAD SERVED	CKT	
1	SPARE				0.00	0.00			1	20		SPARE	2
3						0.00	0.00						4
5	UH-1 & 2	10	20	1			0.33	0.00	1	20		SPARE	6
7	UH-3 & 4	10	20	1	0.33	1.20			1	20	12	Wall Lights & East Lights	8
9	Lights 1	12	20	1		1.82	1.46		1	20	12	Lights 2	10
11	Outdoor Lights 1	10	20	1			1.39	0.93	1	20	12	Outdoor Lights 2	12
13	Receps 1	12	20	1	1.20	1.08			1	20	12	Receps 2	14
15	Receps 3	12	20	1		0.72	1.68		1	20	10	EF-2 & Restroom	16
17	Outdoor Circuit	10	20	1			0.00	0.20	1	20	12	Fire Alarm Panel	18
19	SPARE				0.00	0.00			1	20		SPARE	20
21	SPARE				0.00	0.00			1	20		SPARE	22
23	SPARE					0.00	0.00		1	20		SPARE	24
25	SPARE				0.00	0.00			1	20		SPARE	26
27	PROVISIONED SPACE					0.00	0.00					PROVISIONED SPACE	28
29	PROVISIONED SPACE						0.00	0.00				PROVISIONED SPACE	30
31	PROVISIONED SPACE				0.00	0.00						PROVISIONED SPACE	32
33	PROVISIONED SPACE					0.00	0.00					PROVISIONED SPACE	34
35	PROVISIONED SPACE						0.00					PROVISIONED SPACE	36
37	PROVISIONED SPACE				0.00							PROVISIONED SPACE	38
39	PROVISIONED SPACE											PROVISIONED SPACE	40
41	PROVISIONED SPACE											PROVISIONED SPACE	42
CONNECTED		3.81			5.68						2.85	KVA	
CONNECTED		31.75			47.33						23.75	AMPS	
TOTAL CONNECTED LOAD		12.34			KVA						34.29	AMPS	
TOTAL DEMAND LOAD		9.61			KVA						26.71	AMPS	

NEC ARTICLE 220



WIRE SCHEDULE:

- 20 3-12 AWG, 12 AWG GND. IN 3/4" C
- 22 2-12 AWG, 12 AWG GND. IN 3/4" C
- 30 3-10 AWG, 10 AWG GND. IN 3/4" C
- 32 2-10 AWG, 10 AWG GND. IN 3/4" C
- 50 3-8 AWG, 10 AWG GND. IN 3/4" C
- 52 2-8 AWG, 10 AWG GND. IN 3/4" C
- 60 3-6 AWG, 10 AWG GND. IN 1" C
- 80 3-4 AWG, 8 AWG GND. IN 1" C
- 201 4-1/0 AWG, 8 AWG GND. IN 1 1/2" C
- 601 2 SETS 4-350 KCMIL AWG, 1 AWG GND.

ELECTRICAL SINGLE LINE DIAGRAM

1
E-4 SCALE: NONE

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REV	DESCRIPTION	DATE	BY

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Reviewed by:	Project No: 135625
Submitted by: RLB	Drawing code: -
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	Plot scale: -

COONSKIN PARK MAINTENANCE FACILITY

ELECTRICAL DETAILS / SCHEDULES

Sheet reference number: E-4