

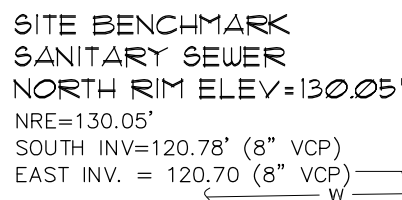
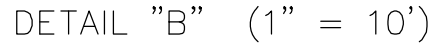
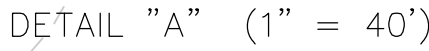
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Gainesville, Florida 32601
352 / 372-0400
FAX 352 / 372-0404

City of Gainesville
CONE PARK - 2011 IMPROVEMENTS
Gainesville, FL

SET No.
Bid Documents

CONE PARK

S.R. 26 (EAST UNIVERSITY AVENUE)



SANITARY SEWER
MANHOLE
NRE=128.40'
NORTH INV. = 122.14' (8" DIA)
WEST INV. = 122.10' (8" VCP)

SANITARY SEWER
MANHOLE
NRE=128.78'
BOTTOM EL. = 122.48'
(PIPES RECESSED WITH BELL
AT BOTTOM - SEE DETAIL)

DETAIL - N.T.S.

UNABLE TO OBTAIN INVERT

BELL

BOTTOM OF

S.R. 26 (EAST

SANITARY SEWER
MANHOLE
NRE=130.98'
NORTH INV=120.36' (8" VCP)
N.E. INV=121.13' (6" PVC) —
SOUTH INV=120.33' (8" VCP)

8" PVC WATER MAIN (PER CHW-EN PLANS 99-440)
6" WATERLINE (PER CHW-EN PLANS 99-440)

Diagram illustrating the components of a fire hydrant system:

- NRE=129.09' (FULL OF WATER)
- 6' CHAIN LINK FENCE
- 6" HEADER CURB
- FIRE INDICATOR POST
- 6' METAL FENCE

SEE DETAIL "A" FOR
SPOT ELEVATIONS

4" CLEANOUT
TOP EL.=127.85'
BUTT=124.76'

125.51'

STORM DROP INLET/
NRE=125.38'
SOUTH INV=122.03' (18" CML)

STORM DROP INLET
NRE=125.35'
NORTH INV=120.96' (18"
WEST INV=121.99' (18" C

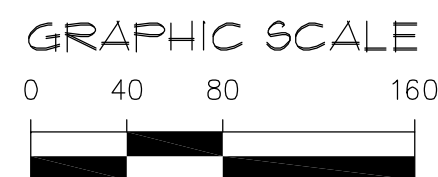
5.9 NORTH INV=120.55' (24" R)

SANITARY SEWER
MANHOLE
NRE=129.40'
NORTH INV=118.94' (8" VCP)
SOUTH INV=118.91' (8" VCP)

TAX PARCEL NO.
10888-000-000

SANITARY SEWER
MANHOLE
NRE=125.98'
NORTH INV=117.77' (8" VCP)
WEST INV=117.69' (8" VCP)

SITE BENCHMARK ———
SANITARY SEWER
NORTH RIM ELEV=125.98'



NOTE: ALL DATA SHOWN IN GREY SCALE HEREON IS PER PREVIOUS SURVEY AS FURNISHED TO THIS SURVEYOR.

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SCALE:
1" = 80'

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SCALES ACCORDINGLY.

Brame Architects

CERTIFIED TO:

TECHNICIAN:	KTM	SURVEY DATE:	8-12-2010
CREW CHIEF:	RM	REVISION DATE:	1-20-2011
CHECKED BY:	SAH	PROJECT NUMBER:	10-0245
FIELD BOOK & PAGE:		381A/50-55	

STACY A. HALL

Professional Surveyor & Mapper Fla. License No. 3784

This map prepared by:

SHEET NO.:
1 OF 1

Tech: caronh Plot Date: Feb 08, 2011 8:21am Filename: H:\2010\10-0245\10-0245 Revise datum.dwg

REVISION: 01-20-2011, ADDED TELEPHONE LINE FROM MANHOLE
REVISION: 01-19-2011, ADDED GAS LINE & BELL SOUTH LINE
REVISION: 12-15-2010, ADDED VERTICAL INFORMATION TO CLEANOUTS
REVISION: 12-09-2010 ADDED SANITARY SEWER DATA
REVISION: 10-15-2010 RAISED DATUM BY +1.24 FEET TO MATCH PROPOSED
TOPOGRAPHIC SURVEY FURNISHED TO THIS SURVEYOR BY THE CITY OF

MOT NOTES FOR DRIVEWAY CONNECTION

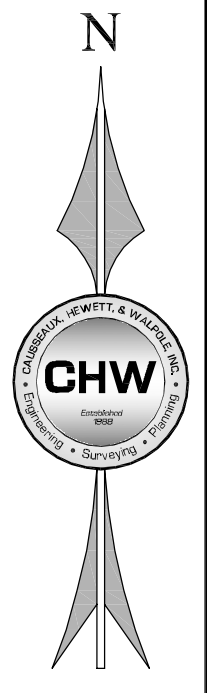
1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, DATED JANUARY, 2010, INDEX 600 SERIES.
2. CONSTRUCTION SIGNING FOR THE TRAFFIC CONTROL PLANS SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. THE CONTRACTOR MUST IDENTIFY A WORK SITE TRAFFIC SUPERVISOR THAT IS AVAILABLE ON A 24 HOUR PER DAY BASIS, IN ACCORDANCE WITH SECTIONS 102 AND 105 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2010. THE CONTRACTOR MUST ALSO IDENTIFY AN EMERGENCY CONSTRUCTION CONTACT, ALSO AVAILABLE ON A 24 HOUR PER DAY BASIS.
4. LONGITUDINAL DIMENSIONS ARE TO BE ADJUSTED TO FIT FIELD CONDITIONS, SEE INDEX NO. 600.
5. THE REGULATORY SPEED THROUGH THE WORK ZONE AREA SHALL REMAIN AT THE EXISTING POSTED SPEED.
6. TRAFFIC CONTROL SIGNS THAT ARE NOT IN USE MUST BE COVERED (WITH OPAQUE MATERIAL) OR REMOVED.

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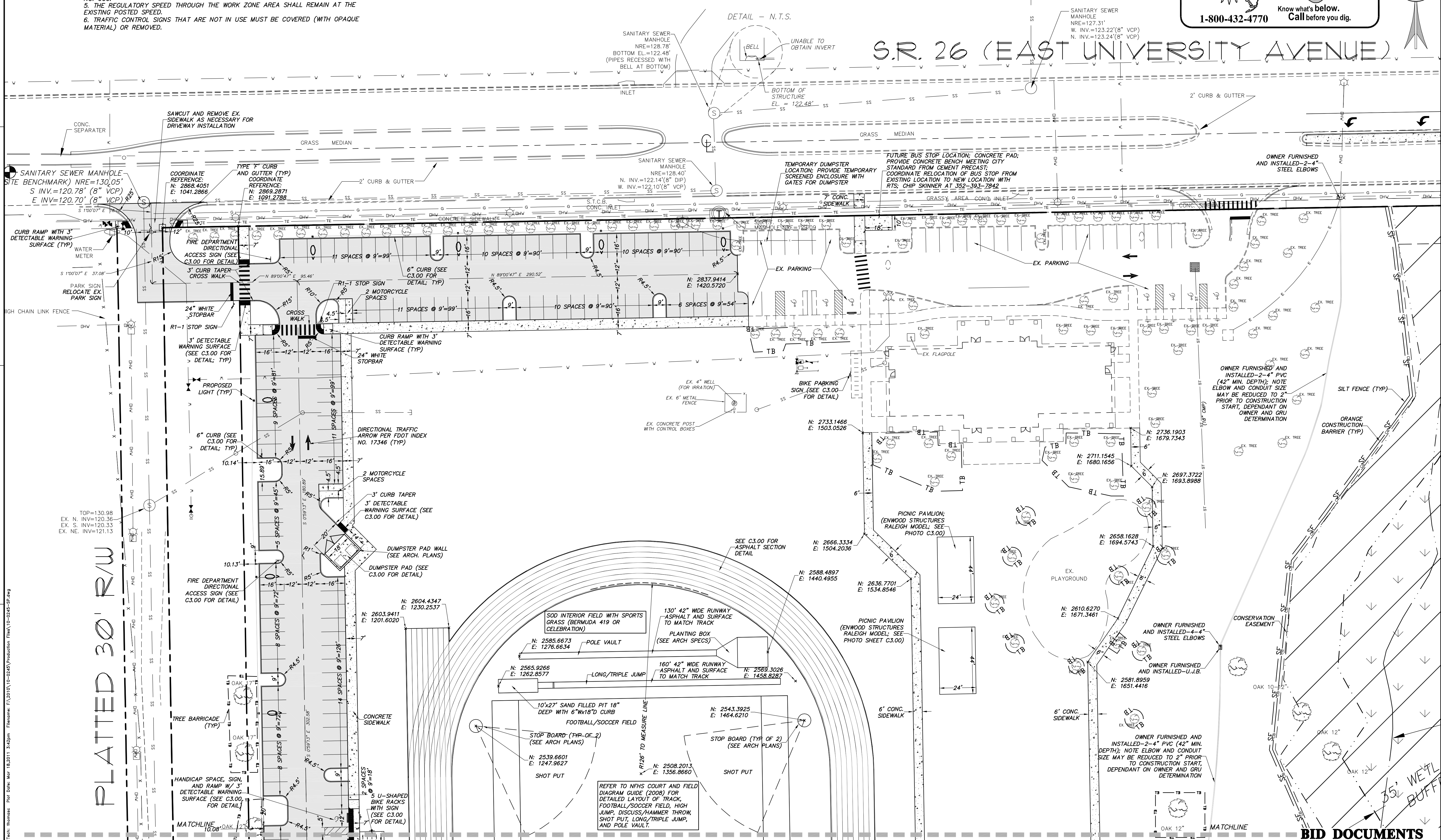
REVISIONS
03/17/11 - BID DOCUMENTS

CLIENT: BRAME ARCHITECTS
PROJECT: CONE PARK
2011 IMPROVEMENTS

DESIGNER: M. HEATHCOCK, P.E.
QUALITY CONTROL: A.S. ROBERTS, P.E.
PROJECT NUMBER: 10-0245

TECHNICAL: T.F. COWART
SHEET NO.: C1.10
FL. PE. No. 54352

BID DOCUMENTS



REVIEW TYPE	DATE	INITIALS	DATE	INITIALS
DESIGNER				
QUALITY CONTROL				
CLIENT				
TECHNICAL				
PROJECT MANAGER				
APPROVED FOR CONSTRUCTION				

File Name: P:\2010\10-0245\Production\Plan\10-0245-SP.dwg
Title: 10-0245-SP.dwg
Date: 10/18/2011 14:42pm
User: Thomas

E: $1'' = 10'$ HORIZ.
 $1'' = 2.5'$ VERT.

E: $1'' = 10'$ HORIZ.
 $1'' = 2.5'$ VERT.



SCALE: 1" = 10' HORIZ.
1" = 2.5' VERT.

SCALE: 1" = 10' HORIZ.
1" = 2.5' VERT.



1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, DATED JANUARY, 2010, INDEX 600 SERIES.
2. CONSTRUCTION PLANS FOR THE TRAFFIC CONTROL PLANS SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. THE CONTRACTOR MUST IDENTIFY A WORK SITE TRAFFIC SUPERVISOR THAT IS AVAILABLE ON A 24 HOUR PER DAY BASIS, IN ACCORDANCE WITH SECTIONS 102 AND 105 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2010. THE CONTRACTOR MUST ALSO IDENTIFY AN EMERGENCY CONSTRUCTION CONTRACT, ALSO AVAILABLE ON A 24 HOUR PER DAY BASIS.
4. ALL DIMENSIONAL DIMENSIONS ARE TO BE ADJUSTED TO FIT FIELD CONDITIONS, SEE INDEX NO. 600.
5. THE REGULATORY SPEED THROUGH THE WORK ZONE AREA SHALL REMAIN AT THE EXISTING POSTED SPEED.
6. TRAFFIC CONTROL SIGNS THAT ARE NOT IN USE MUST BE COVERED (WITH OPAQUE MATERIAL) OR REMOVED.

1. MINIMUM DEPTH OF INSTALLATION IS 36" TO TOP OF PIPE FOR THE FIRE HYDRANT CONNECTION.
2. DEPTH OF INSTALLATION FOR THE SANITARY SEWER LINE IS PER THE INVERTS SHOWN; SEE PLAN VIEW AND SECTION A-A.
3. LENGTH OF PROJECT IN FDOT R/W = 290 LF
4. EXISTING PAVEMENT IS NOT IMPACT BY CONSTRUCTION OR RELATED ACTIVITIES.
5. ALL CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL BE PER FDOT INDEX NUMBER 600 SERIES AND ALL OTHER APPLICABLE INDEXES AND SHALL CONFORM TO THE SPECIFICATIONS OF THE FDOT.
6. ALL DISTURBED AREAS IN THE FDOT RIGHT-OF-WAY SHALL BE SODDED WITH COMMERCIAL BERMUDA GRASS (NO SOUTH FLORIDA SOG ALLOWED).
7. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL LOCATION AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO COMMENCING WORK.
8. THE CONTRACTOR SHALL CALL ALL UTILITIES COMPANIES TO HAVE THE LOCATION OF ALL UTILITIES FIELD MARKED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE GRU
INSPECTOR AND ENGINEER PRIOR TO CONTINUING CONSTRUCTION.

SANITARY SEWER
MANHOLE
NRE=127.31'
NRE=123.22'(8" VCP)

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830

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DOCUMENTS

MITTALS;
4/17/11 - BID DOC

PROJECTS	SUB 03
MARK /EMENTS	
MANAGE, AND PLAN	

BRAME ARCHITECTS
CONE POINT
2011 IMPROVEMENTS
GRADING, DRAINAGE
UTILITY PROJECT

CLIENT:	WART
PROJECT:	THCOCK, P.E.
SHEET:	CONTROL: BERTS, P.E.
	NUMBER: -0245

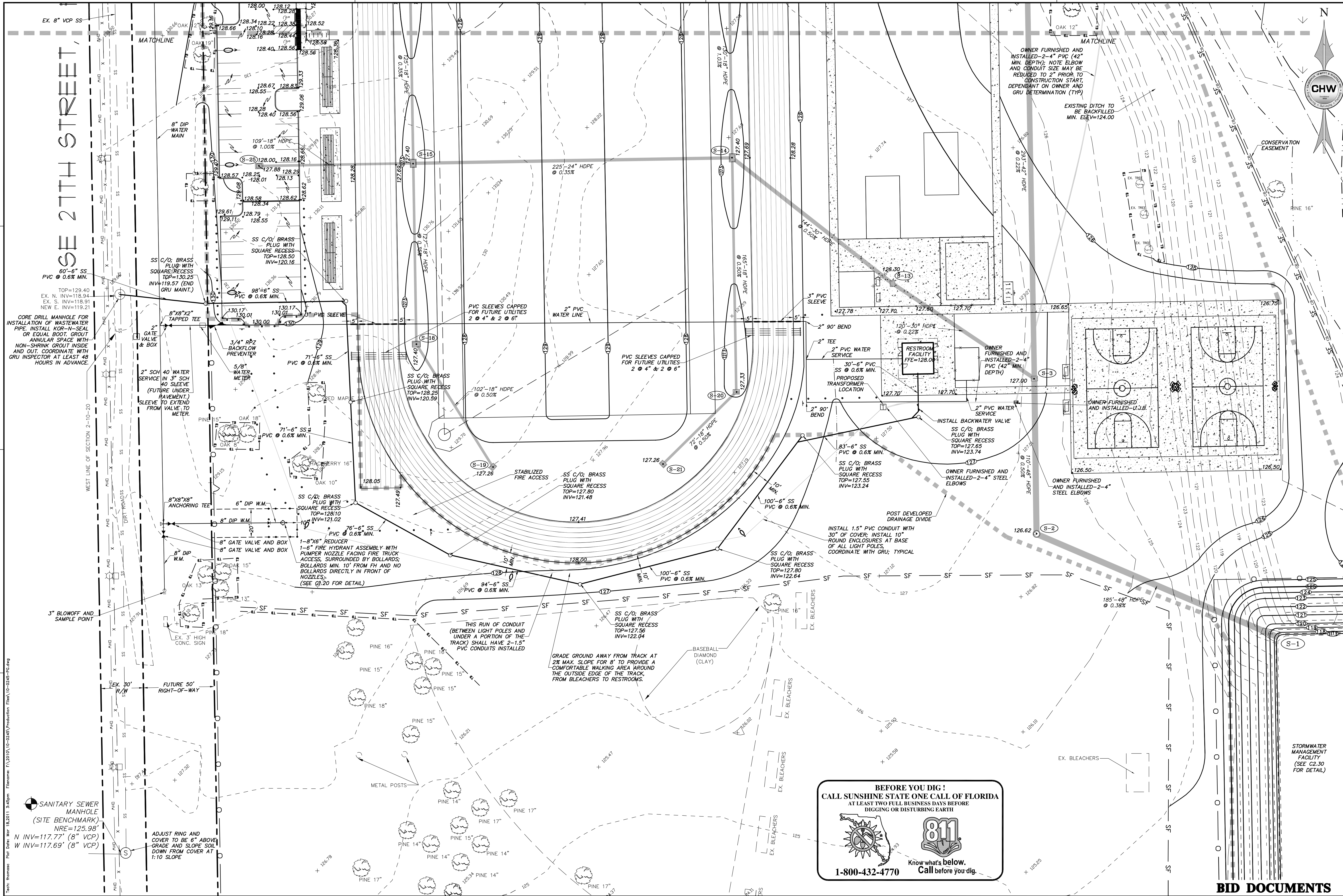
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FL PE No. 54352

SHEET NO.: C2.10

BID DOCUMENTS

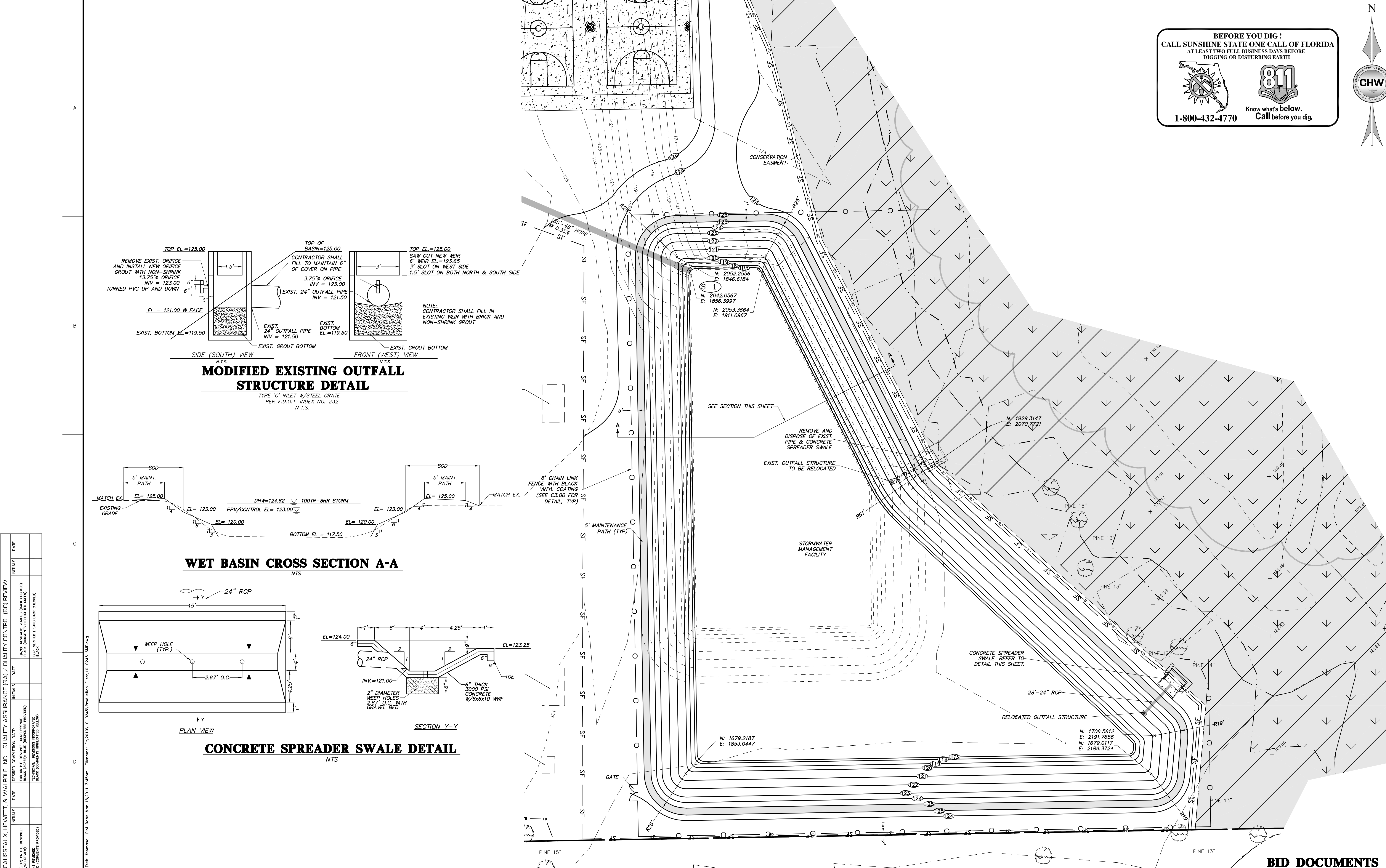
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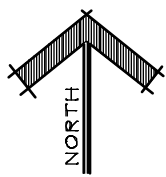
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REVIEW TYPE	DATE	INITIALS	DATE	INITIALS	DATE	INITIALS
DESIGNER						
CHECKER						
IN CHARGE						
QUALITY CONTROL						
CONSTRUCTION						
AS BUILT						
FINAL						

CAUSSEAU, HEWETT, & WALPOLE, INC. - QUALITY ASSURANCE (QA) / QUALITY CONTROL (QC) REVIEW

Sheet: 10-0245
Plot Date: Mar 18, 2011 3:45pm
Filename: I:\2010\10-0245\Production Files\10-0245-SM.dwg





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Gainesville, Florida 32606
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352.373.6407 fax

CONE PARK
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GAINESVILLE, FLORIDA

PROJECT TITLE & LOCATION:

SHEET TITLE:

SEAL:

DRAWN BY: DRO

CHECKED BY: EJ83

DATE: 10-12-10

REVISIONS: 10-26-10

11-08-10

12-14-10

01-24-11

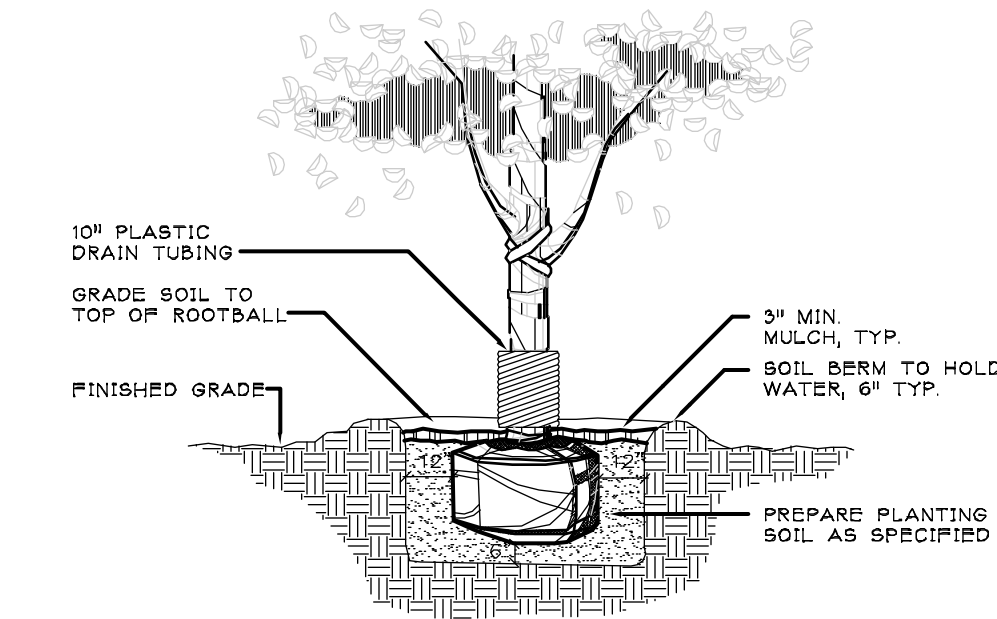
02-02-11

03-03-11

DRAWING SCALE: N.T.S.

PROJECT NUMBER: 10-029

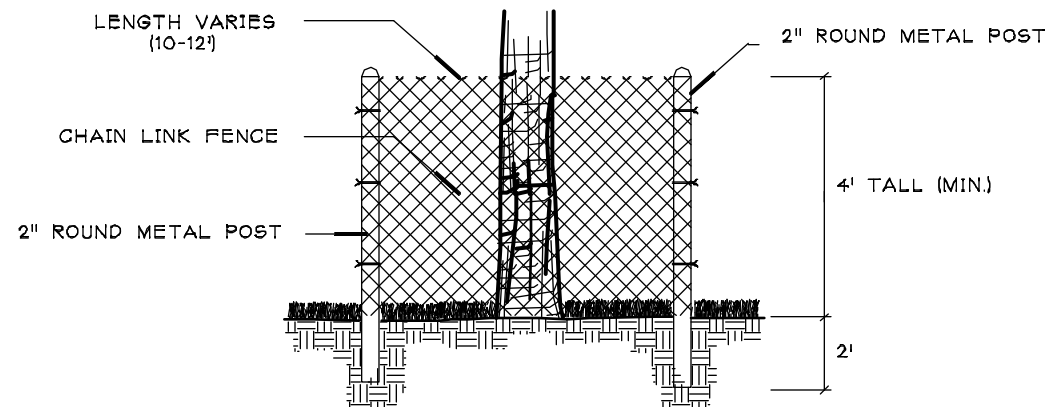
SHEET: LS-1



1 TREE PLANTING DETAIL

N.T.S.

DISTANCE VARIES. POSTS TO BE
LOCATED AT DROPLINE OF TREE
UNLESS OTHERWISE APPROVED BY
LANDSCAPE ARCHITECT



2 TREE PROTECTION DETAIL

N.T.S.

GENERAL NOTES

ALL ASPHALT, LIMESTONE, AND CONSTRUCTION DEBRIS TO BE REMOVED FROM PLANTING BEDS AND AREAS TO BE SODDED PRIOR TO LANDSCAPE INSTALLATION. PLANTING DEPTH OF SOIL IN SUCH AREAS SHOULD BE AT LEAST 3' IF FILL MUST BE ADDED, IT MUST BE FLORIDA CLEAN DEEP FILL (FREE OF WEED SEEDS) WITH PH 5.5-6.5.

ALL TREES TO BE A MINIMUM EIGHT (8) FEET IN HEIGHT AND ONE AND A HALF (1.5) INCH CALIPER, OR LARGER, UNLESS OTHERWISE SPECIFIED BY THE LANDSCAPE ARCHITECT.

ALL TREES TO BE PLANTED 7'-2" ABOVE FINISHED GRADE.

ALL LANDSCAPE AREAS SHALL BE MULCHED WITH 3" THICKNESS OF MULCH. PINE BARK MULCH SHALL BE USED IN ALL AREAS, EXCEPT RETENTION AREAS. PINE STRAW MULCH SHALL BE USED IN RETENTION AREAS.

TREES OUTSIDE OF MULCHED LANDSCAPED BEDS TO BE PROTECTED FROM MOWER AND STRING TRIMMER DAMAGE WITH 10' OF PLASTIC DRAIN TUBE.

LEADER SHOOTS AND MAIN STRUCTURAL LIMBS OF TREES WILL NOT BE TOPPED OR PRUNED. TREES TO BE STAKED AS NEEDED, GUYLINES TO BE NON-SYNTHETIC BIODEGRADABLE MATERIAL.

OWNER SHALL BE RESPONSIBLE FOR (1) THE SURVIVAL OF THE LANDSCAPING ELEMENTS FOR ONE YEAR, AND (2) REMOVAL OF ALL STAKING SYSTEMS WITHIN ONE YEAR. TREES WILL BE STAKED ONLY IF NECESSARY, AND IF STAKED, BIODEGRADABLE TWINE WILL BE USED.

ALL INVASIVE PLANT SPECIES TO BE REMOVED FROM SITE PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

CALL THE CITY NATURE OPERATIONS AT 352-393-8188 FOR INSPECTION ON SITE PRIOR TO PURCHASING ANY LANDSCAPE MATERIAL.

INVASIVE EXOTIC PLANT MATERIAL

ALL INVASIVE PLANT SPECIES TO BE REMOVED FROM SITE PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

GRASSING

ALL DISTURBED AND UNPAVED AREAS TO BE GRASSED WITH NOXIOUS WEED AND TROPICAL SODA APPLE FREE SOD OR SEEDS AND MULCHED. SEE CIVIL SITE PLANS FOR ADDITIONAL RELATED INFORMATION.

PLANT MATERIAL

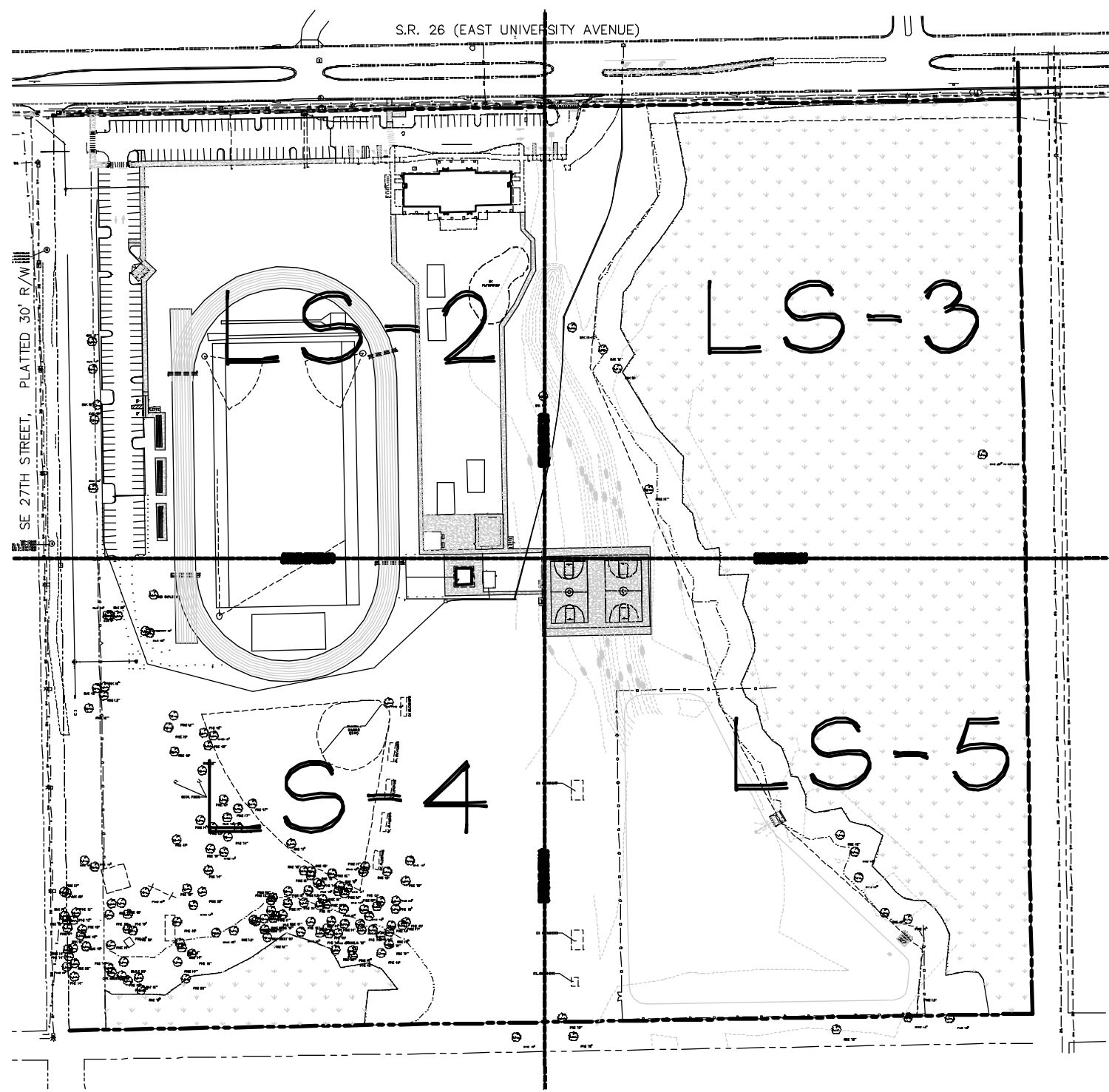
ALL PLANT MATERIAL TO BE FLORIDA NO.1 OR BETTER, GRADED IN ACCORDANCE WITH GRADING AND STANDARDS FOR NURSERY PLANTS PUBLISHED BY THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE. CALL THE CITY NATURE OPERATIONS AT 352-393-8188 AND LANDSCAPE ARCHITECT PRIOR TO PURCHASING ANY PLANT MATERIAL FOR AN ON SITE INSPECTION AND REVIEW OF LANDSCAPE PLAN.

IRRIGATION

LANDSCAPE IRRIGATION TO BE PROVIDED BY AUTOMATIC IRRIGATION SYSTEM. BUBBLERS WILL BE INSTALLED BY EACH TREE AS PART OF THE IRRIGATION SYSTEM.

T.C.E.A.

SITE IS LOCATED IN ZONE A OF THE TRANSPORTATION CONCURRENCY EXCEPTION AREA.

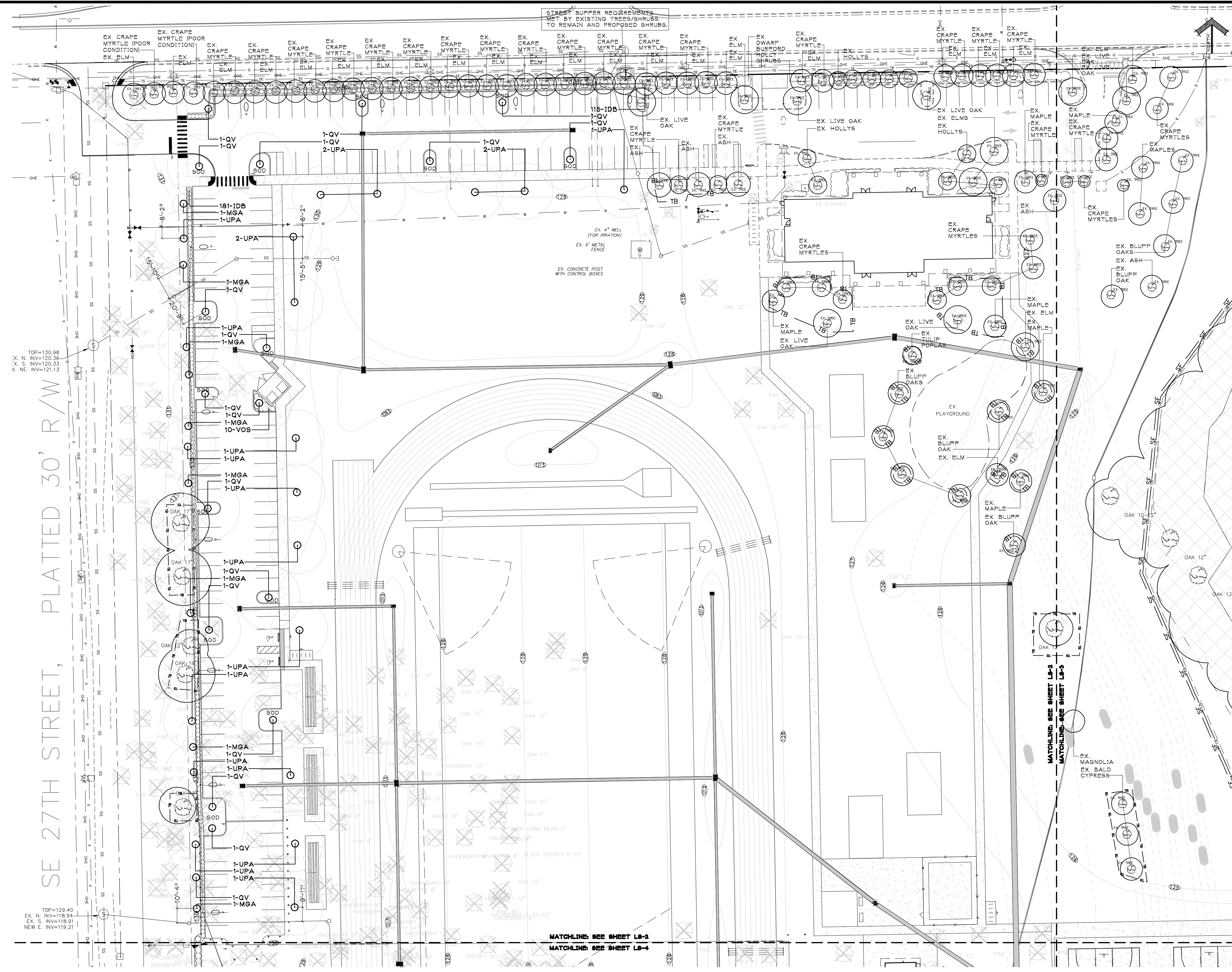


SHEET REFERENCE

N.T.S.

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AR	11	ACER RUBRUM	RED MAPLE	30 GAL, 8' HT, 3' SPR, 2" CAL
BN	6	BETULA NIGRA	RIVER BIRCH	30 GAL, 9' HT, 3.5' SPR, 2" CAL
FP	11	FRAXINUS PENNSYLVANICA	GREEN ASH	30 GAL, 8' HT, 3' SPR, 2" CAL
IAE	6	ILEX X ATTENUATA 'EAST PALATKA'	EAST PALATKA HOLLY	30 GAL, 8' HT, 3.5' SPR, 2.5" CAL
MGA	18	MAGNOLIA GRANDIFLORA 'ALTA'	ALTA MAGNOLIA	30 GAL, 8' HT, 3' SPR, 2" CAL
QV	21	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	30 GAL, 10' HT, 4.5' SPR, 2" CAL
TD	12	TAXODIUM DISTICHUM	BALD CYPRESS	30 GAL, 9' HT, 3.5' SPR, 2" CAL
UPA	20	ULMUS PARVIFOLIA 'ALLEE'	ALLEE ELM	30 GAL, 8' HT, 4' SPR, 2" CAL
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE
IDB	296	ILEX CORNUTA 'DWARF BURFORDI'	DWARF BURFORD HOLLY	3 GAL, 18" HT X 12" SPR
VOS	10	VIBURNUM OBOVATUM 'MRS. SHILLER'S DELIGHT'	MRS. SHILLERS DELIGHT VIBURNUM	3 GAL, 15" HT X 15" HT
VS	98	VIBURNUM SUSPENSUM	SANDANKWA VIBURNUM	3 GAL, 24" HT, X 12" SPR
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT
CY	132	CANNA FLACCIDA	YELLOW CANNA	4" POT@ 18" OC
IH	365	IRIS HEXAGONA	BLUE FLAG IRIS	4" POT@ 24" OC
SB	194	SPARTINA BAKERI	SAND CORD GRASS	4" POT@ 42" OC
SOD/SEED	QTY	BOTANICAL NAME	COMMON NAME	CONT
SOD		PASPALUM NOTATUM 'ARGENTINE'	BAHIA GRASS	WEED FREE AND SAND GROWN SOD



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GAINESVILLE, FLORIDA

LANDSCAPE PLAN

FOR SITE PLAN APPROVAL

PROJECT TITLE & LOCATION:

SHEET TITLE:

SEAL:

DRAWN BY: DRO

CHECKED BY: EJB3

DATE: 10-12-10

REVISIONS: 10-26-10
11-08-10

12-16-10

01-24-11

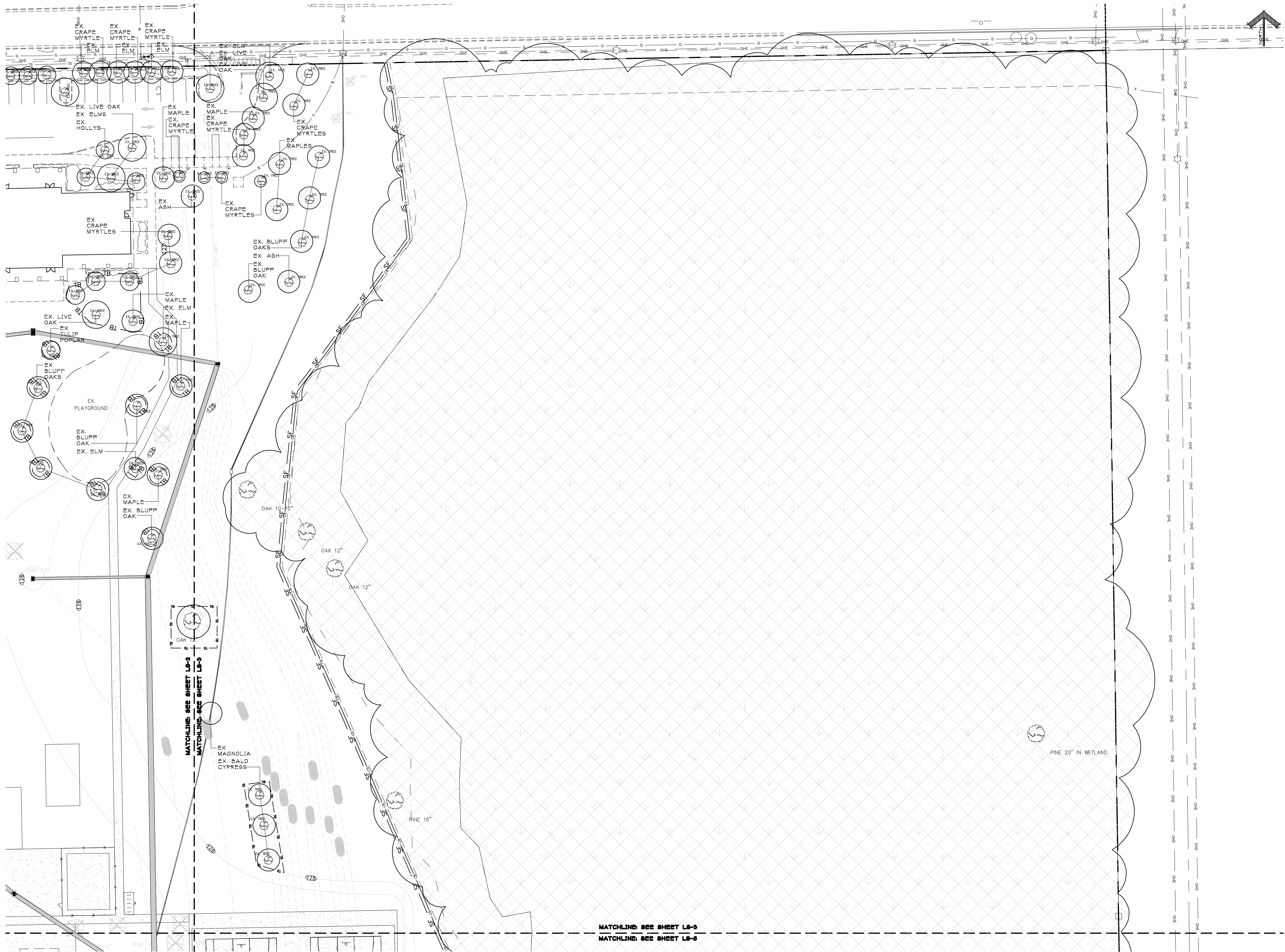
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DRAWING SCALE: 1"=30'

PROJECT NUMBER: 10-029

SHEET: LS-2



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352.373.6497 fax

PROJECT TITLE & LOCATION:
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GAINESVILLE, FLORIDA

SHEET TITLE:
LANDSCAPE PLAN
FOR SITE PLAN APPROVAL

SEAL:

DRAWN BY: DRO
CHECKED BY: EJB3
DATE: 10-12-10
REVISIONS: 10-26-10
11-08-10
12-14-10
01-24-11
02-02-11
03-03-11

DRAWING SCALE: 1"=30'

PROJECT NUMBER: 10-029

SHEET: LS-3



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GAINESVILLE, FLORIDA

LANDSCAPE PLAN
FOR SITE PLAN APPROVAL

PROJECT TITLE & LOCATION:

SHEET TITLE:

SEAL:

DRAWN BY: DRO

CHECKED BY: EJ83

DATE: 10-12-10

REVISIONS: 10-26-10

11-08-10

12-14-10

01-24-11

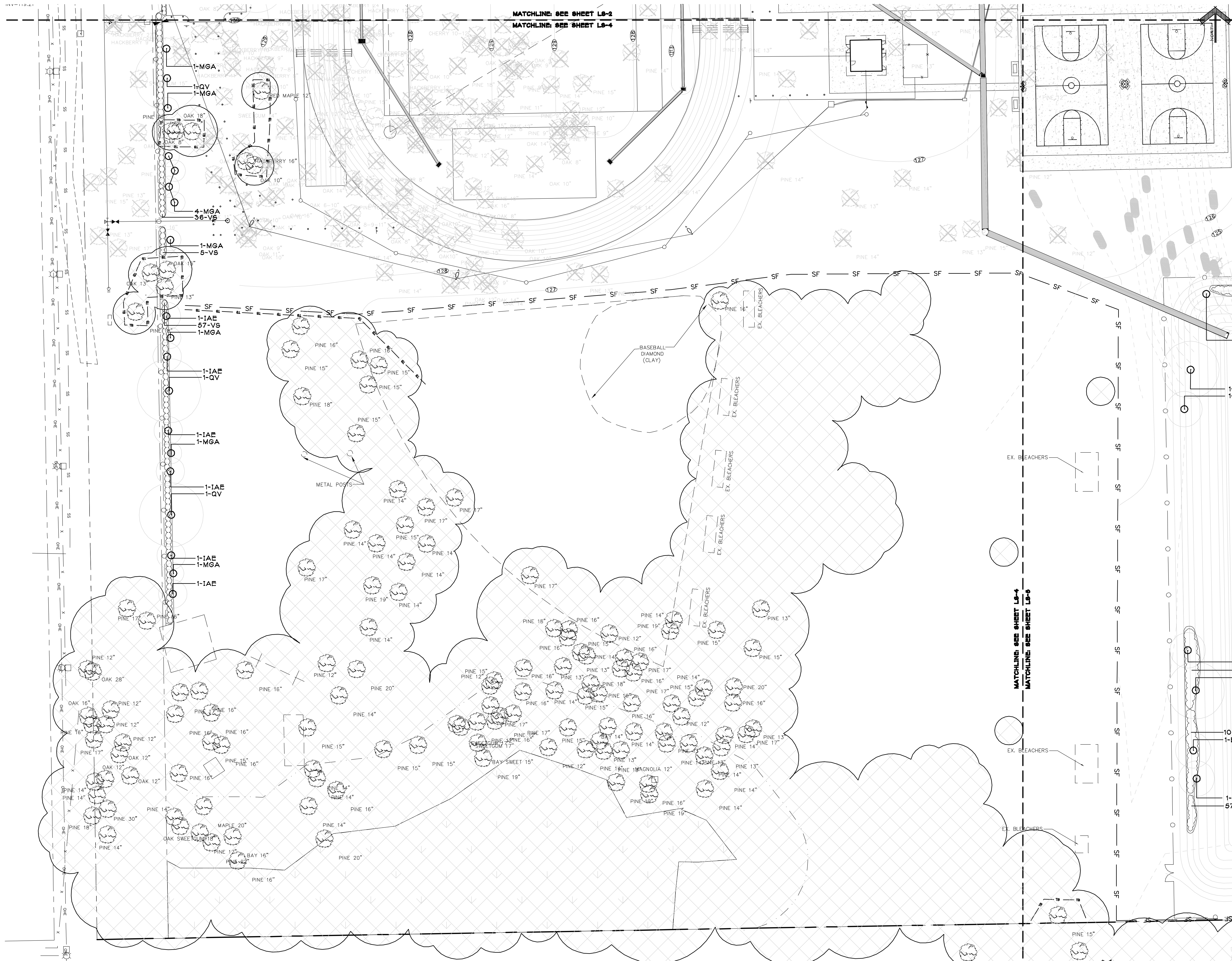
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03-03-11

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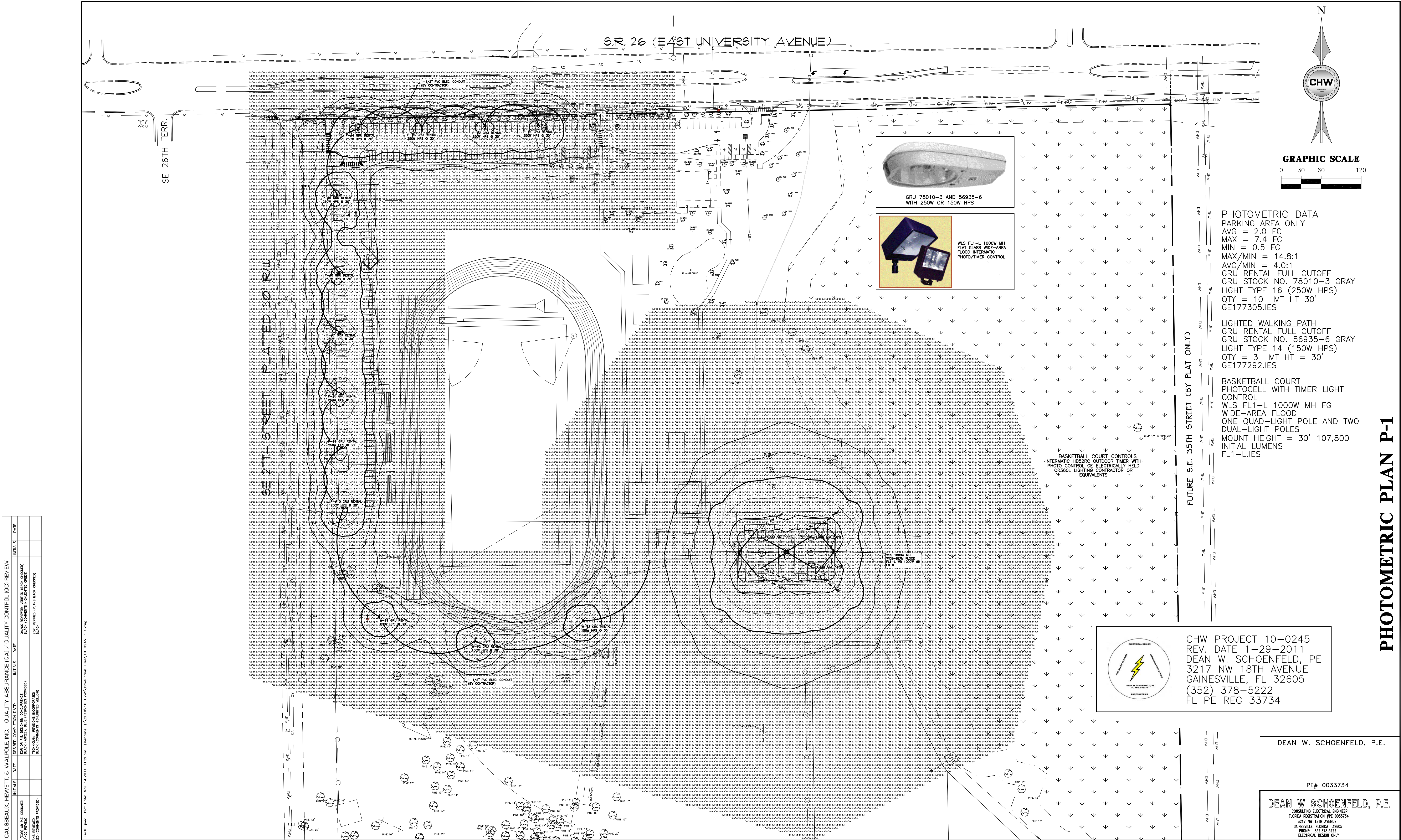
PROJECT NUMBER: 10-029

SHEET: LS-4



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CAUSALBEAUX HEWETT & WALPOLE INC.	QUALITY ASSURANCE (QA) / QUALITY CONTROL			
INITIALS	DATE	SIGNED COMPLETION DATE	INITIALS	DATE
DO OR P.E. RESPONSE BLACK (YES)	DO OR P.E. RESPONSE BLACK (YES)	DO OR P.E. RESPONSE BLACK (YES)	DO OR P.E. RESPONSE BLACK (YES)	DO OR P.E. RESPONSE BLACK (YES)
REMOVED (COMMENTS PROVIDED)	REMOVED (COMMENTS PROVIDED)	TECHNICAL REVIEWER INDETERMINED BLACK (COMMENTS INDICATED YELLOW)	TECHNICAL REVIEWER INDETERMINED BLACK (COMMENTS INDICATED YELLOW)	DO OR P.E. RESPONSE BLACK (YES)

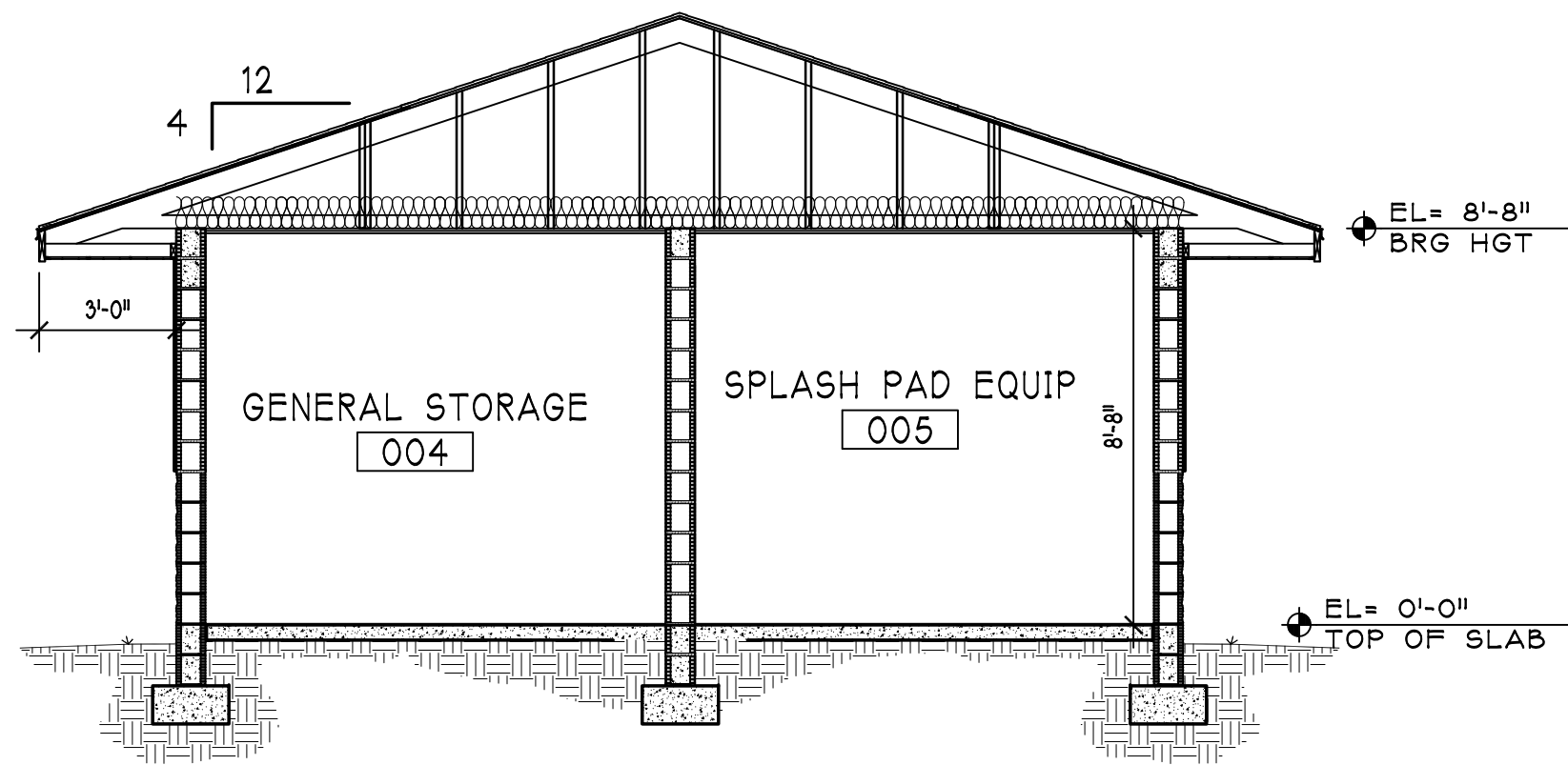


CHW PROJECT 10-0245
REV. DATE 1-29-2011
DEAN W. SCHOENFELD, PE
3217 NW 18TH AVENUE
GAINESVILLE, FL 32605
(352) 378-5222
FL PE REG 33734

DEAN W. SCHOENFELD, P.E.

PE# 0033734

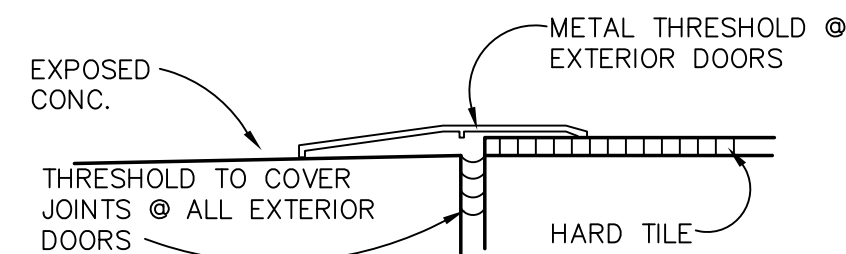
DEAN W SCHOENFELD, P.E.
CONSULTING ELECTRICAL ENGINEER
FLORIDA REGISTRATION #PE 0033734
3217 NW 18TH AVENUE
GAINESVILLE, FLORIDA 32605
PHONE: 352.378.5222
ELECTRICAL DESIGN ONLY



BUILDING SECTION

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

2A
A2.1



TYPICAL FLOORING TRANSITION DETAIL

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

3B
A2.1

DOOR SCHEDULE

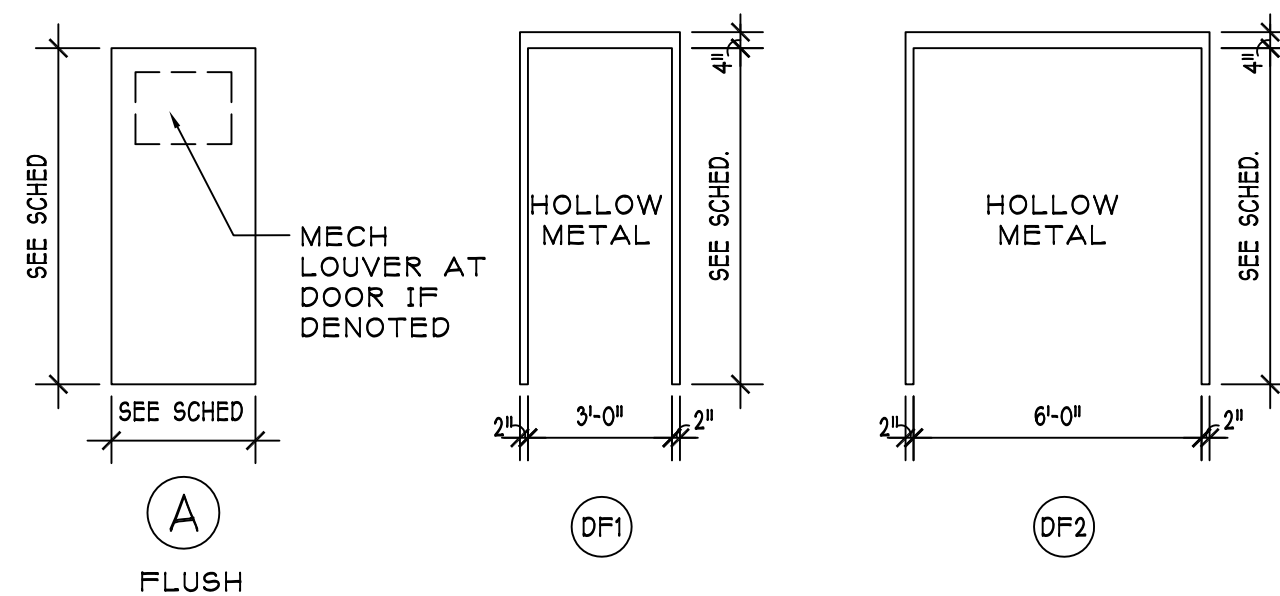
DOOR NO.	SIZE WDxHGTxTHK	DOOR		FRAME				FIRE RATING DOOR/FRAME	HDW SET	REMARKS	DOOR NO.
		MAT'L	TYPE	DETAIL							
				MAT'L	TYPE	JAMB	HEAD				
001	3'-0"x7'-0"x1 3/4"	HM	A	HM	DF1	2G/A2.1	4G/A2.1		1		001
002	3'-0"x7'-0"x1 3/4"	HM	A	HM	DF1	2G/A2.1	4G/A2.1		2		002
003	3'-0"x7'-0"x1 3/4"	HM	A	HM	DF1	2G/A2.1	4G/A2.1		1	1	003
004	PR 3'-0"x7'-0"x1 3/4"	HM	A	HM	DF2	2G/A2.1	4G/A2.1		3		004
005	3'-0"x7'-0"x1 3/4"	HM	A	HM	DF1	2G/A2.1	4G/A2.1		2	1	005

ABBREVIATIONS:

WD - WOOD
HM - HOLLOW MTL
ALUM - ALUMINUM
AL/GL - ALUMINUM & GLASS
STL - STEEL

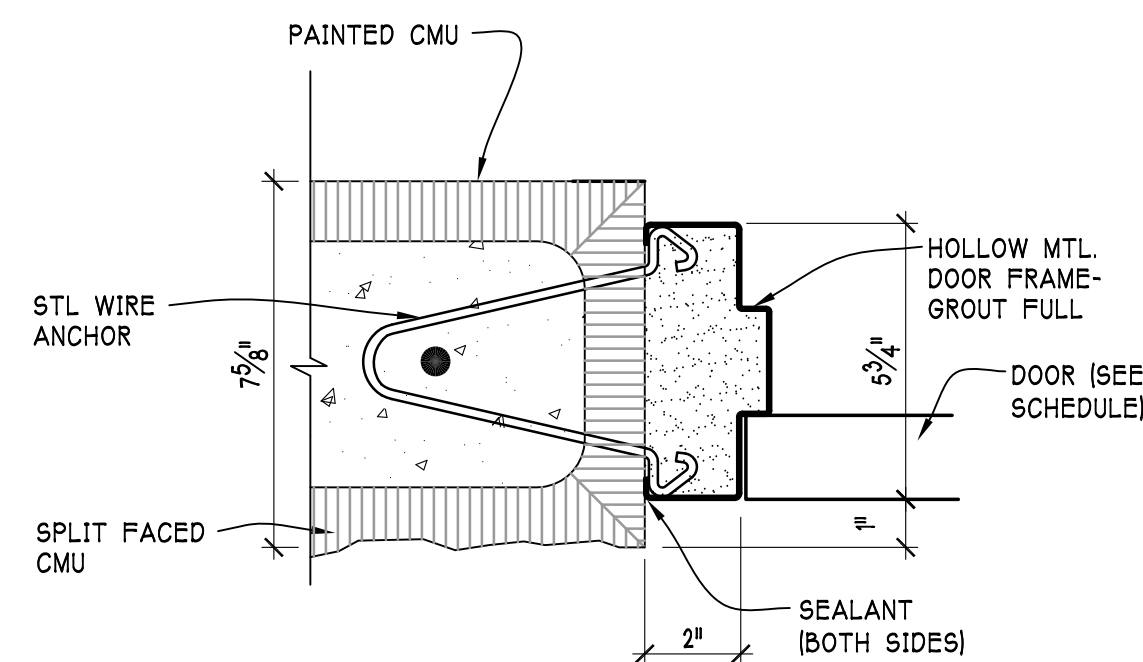
REMARKS:

1. PROVIDE DOOR GRILLE AS PER MECHANICAL DRAWINGS.



DOOR AND FRAME TYPES

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

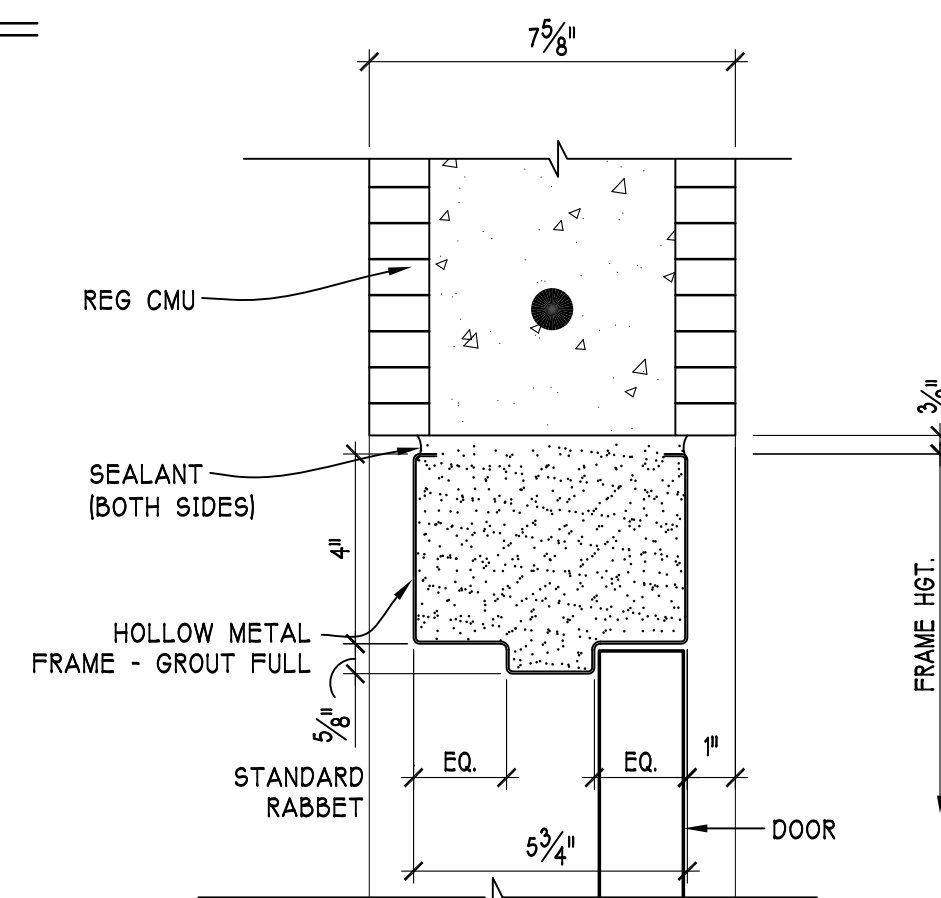


DOOR JAMB HOLLOW MTL. FRAME

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

2G
A2.1

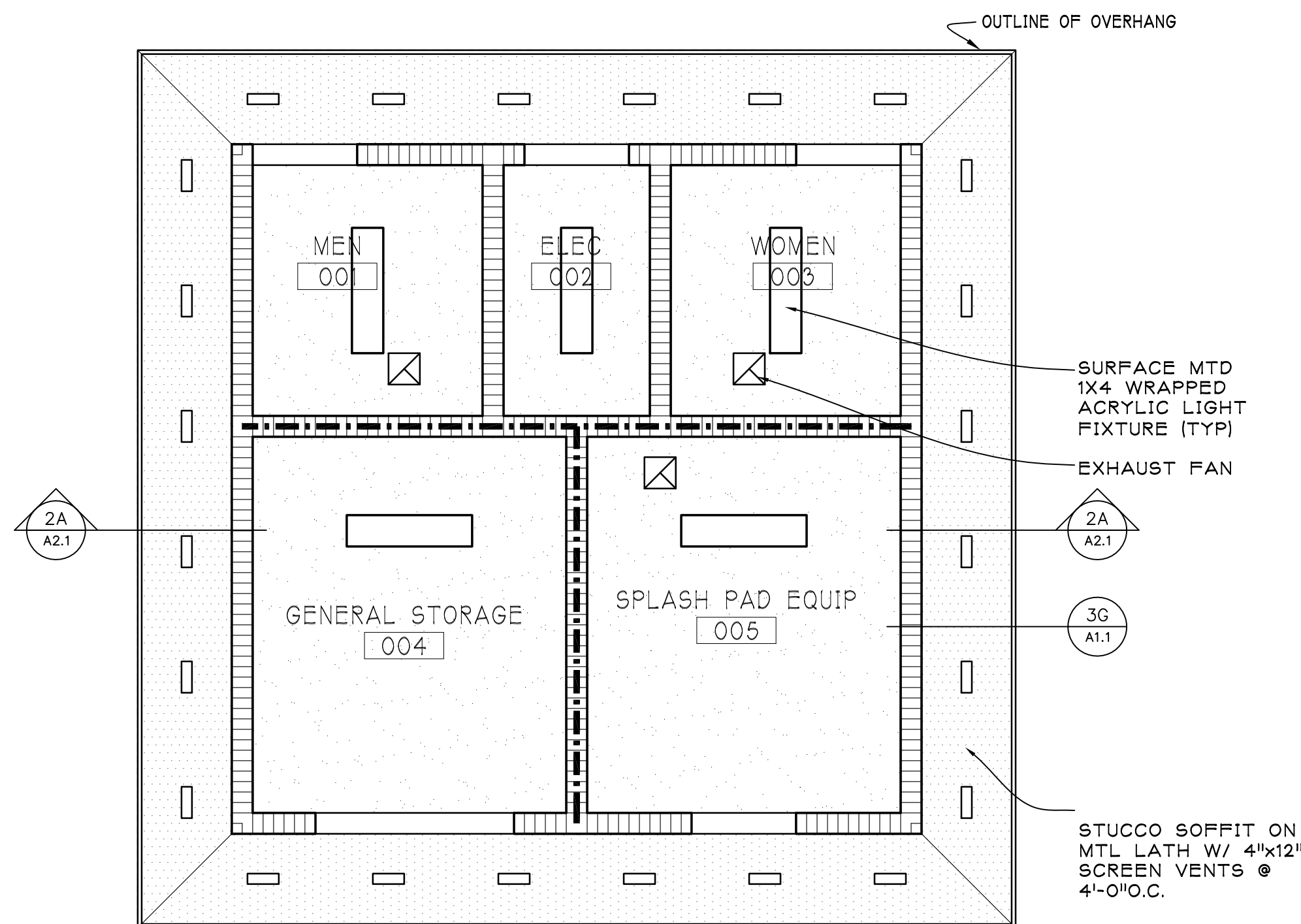
VERIFY W/ PLAN FOR PROPER DOOR HANDING SOME DETAILS MAY BE MIRROR IMAGED FOR SOME DOORS



DOOR HEAD HOLLOW MTL. FRAME

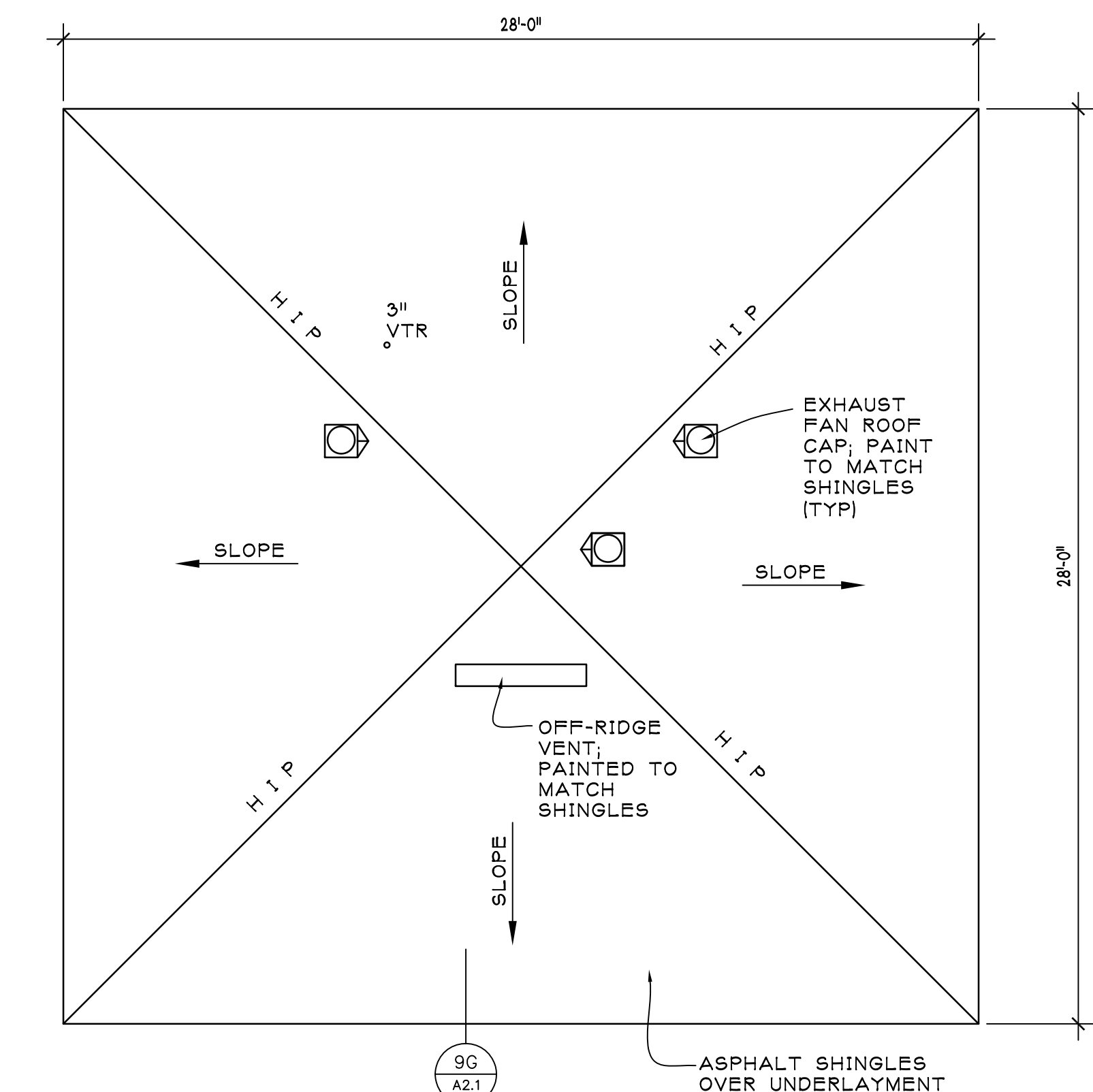
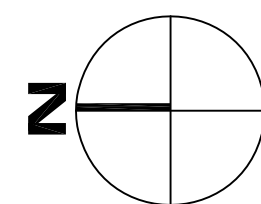
SCALE: 3/4"=1'-0"

4G
A2.1



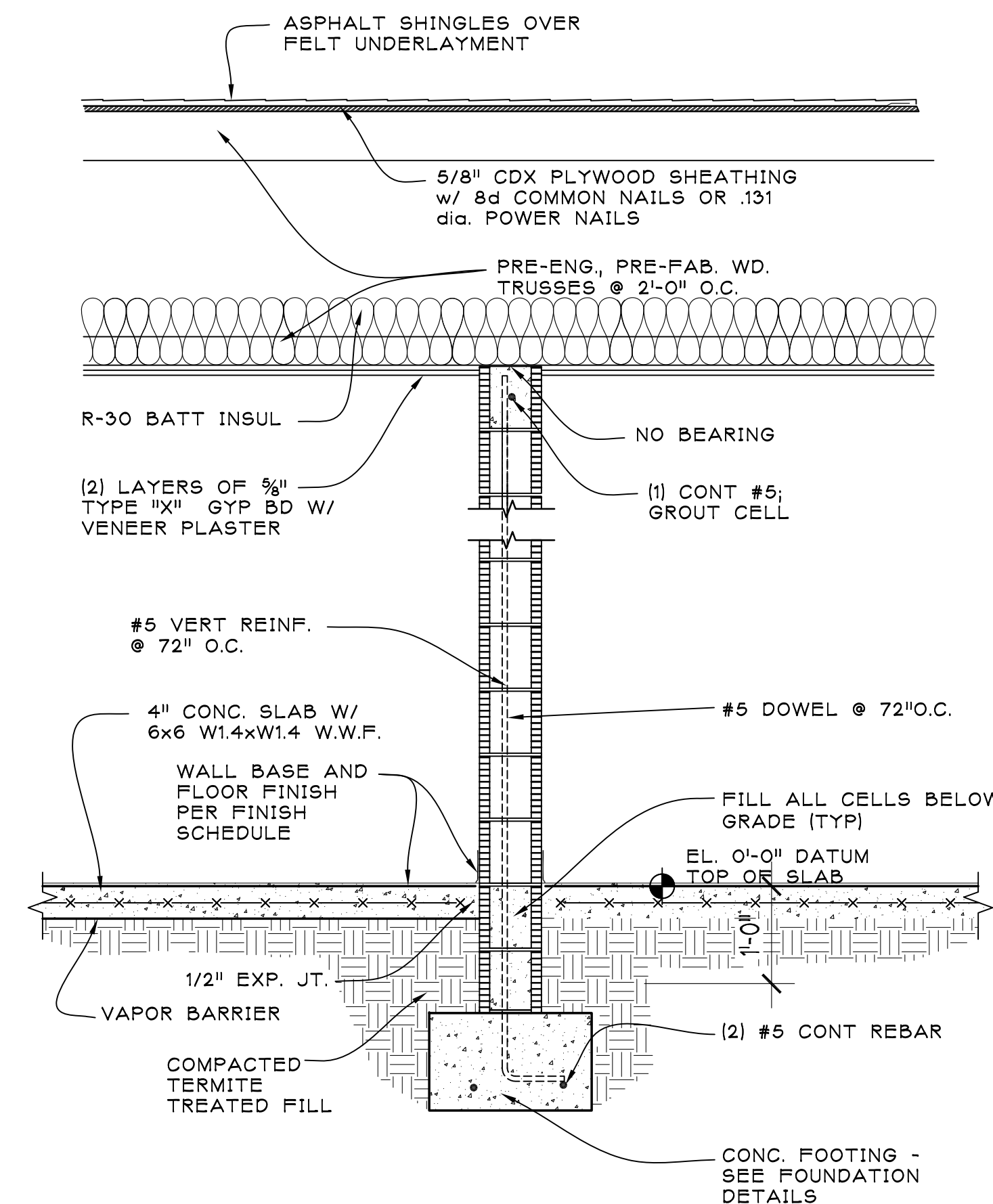
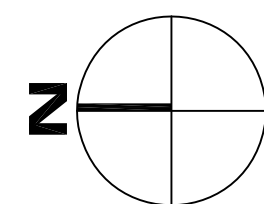
REFLECTED CEILING PLAN OF REST ROOM BUILDING

SCALE 1/4" = 1'-0"



ROOF PLAN OF REST ROOM BUILDING

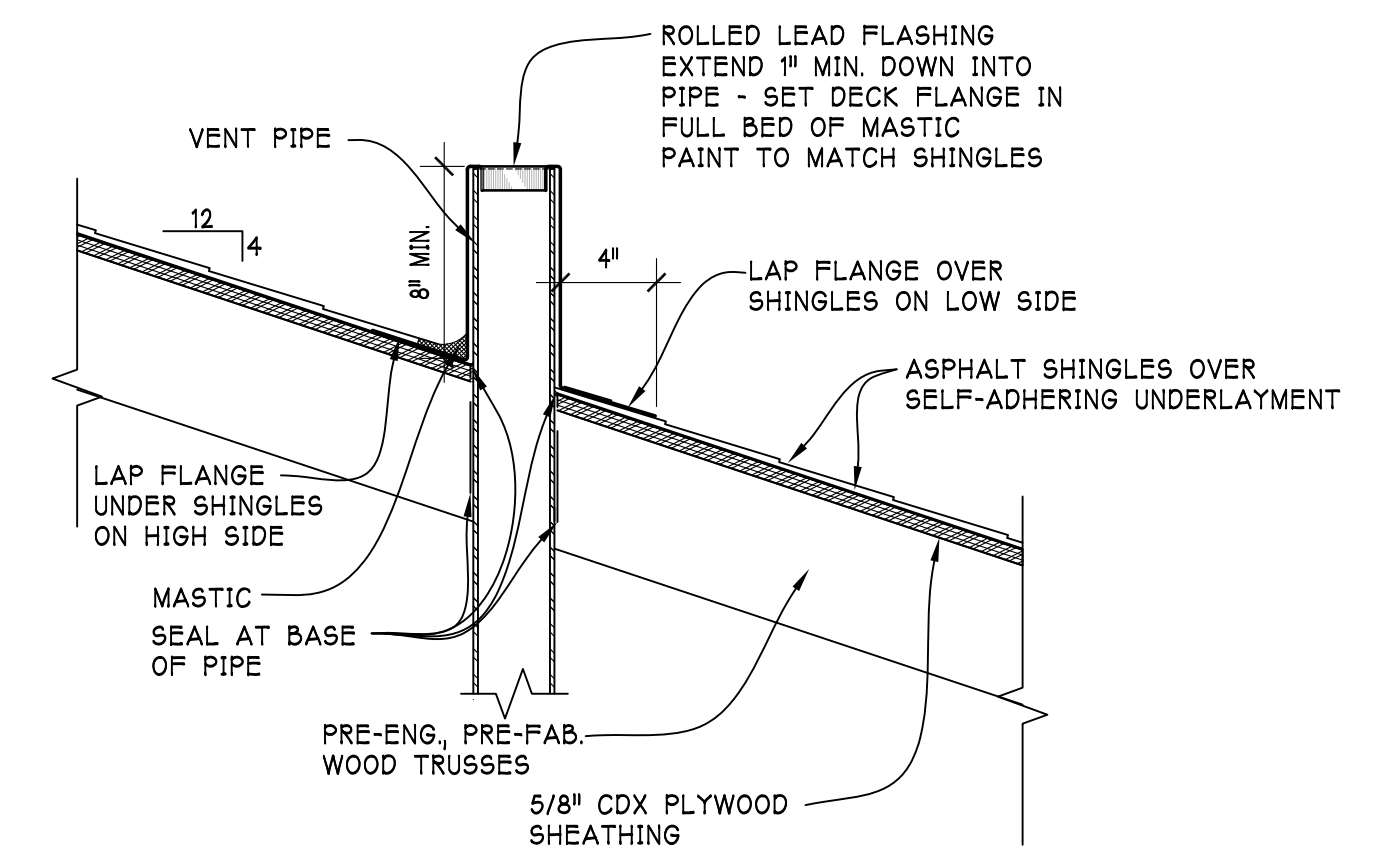
SCALE 1/4" = 1'-0"



TYPICAL INTERIOR WALL SECTION

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

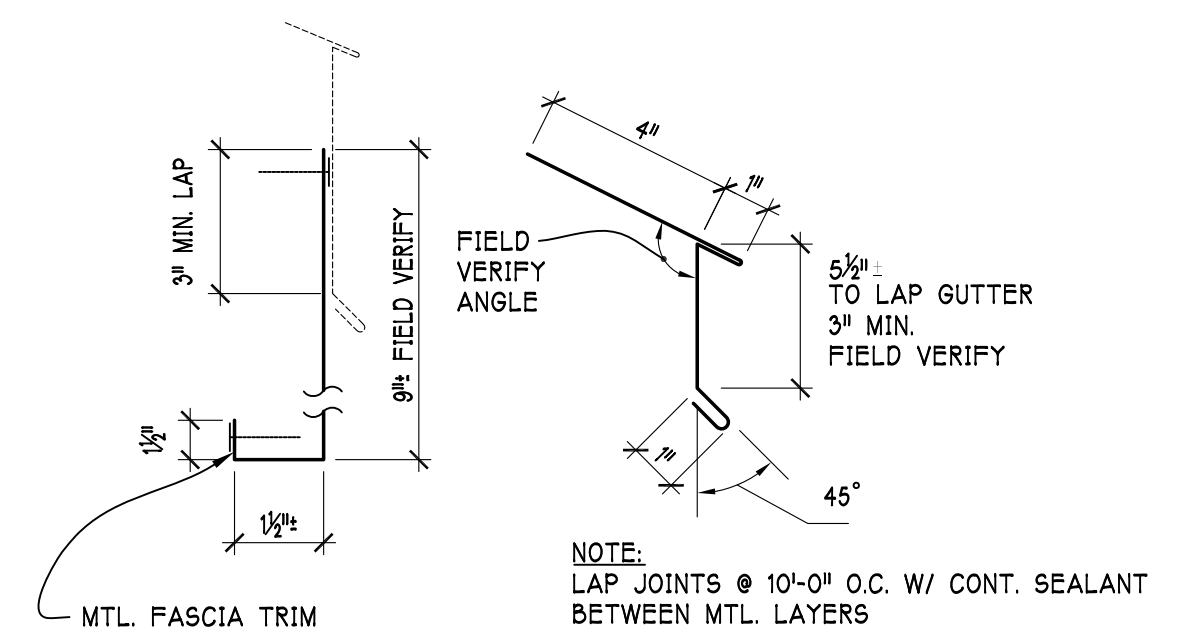
7G
A2.1



VENT STACK DETAIL

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

9E
A2.1

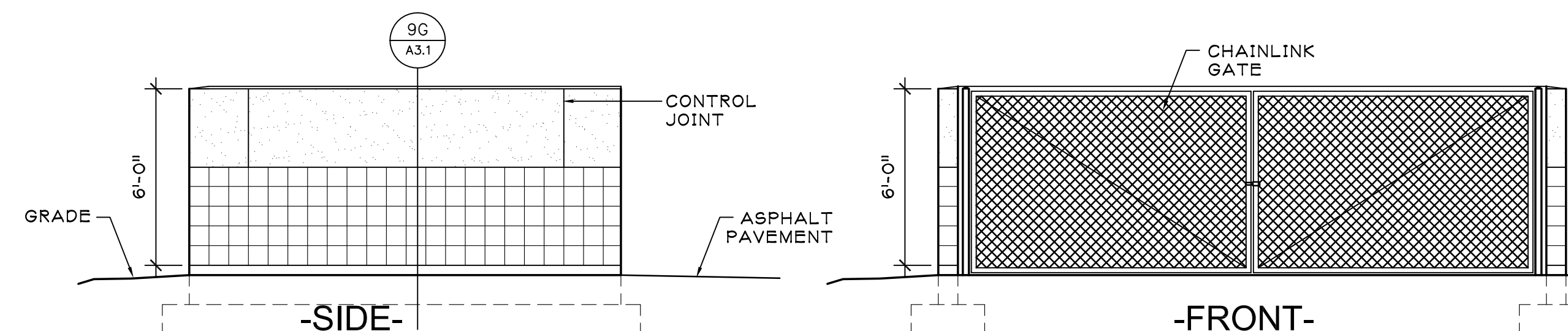


MTL. EAVE DRIP & TRIM

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

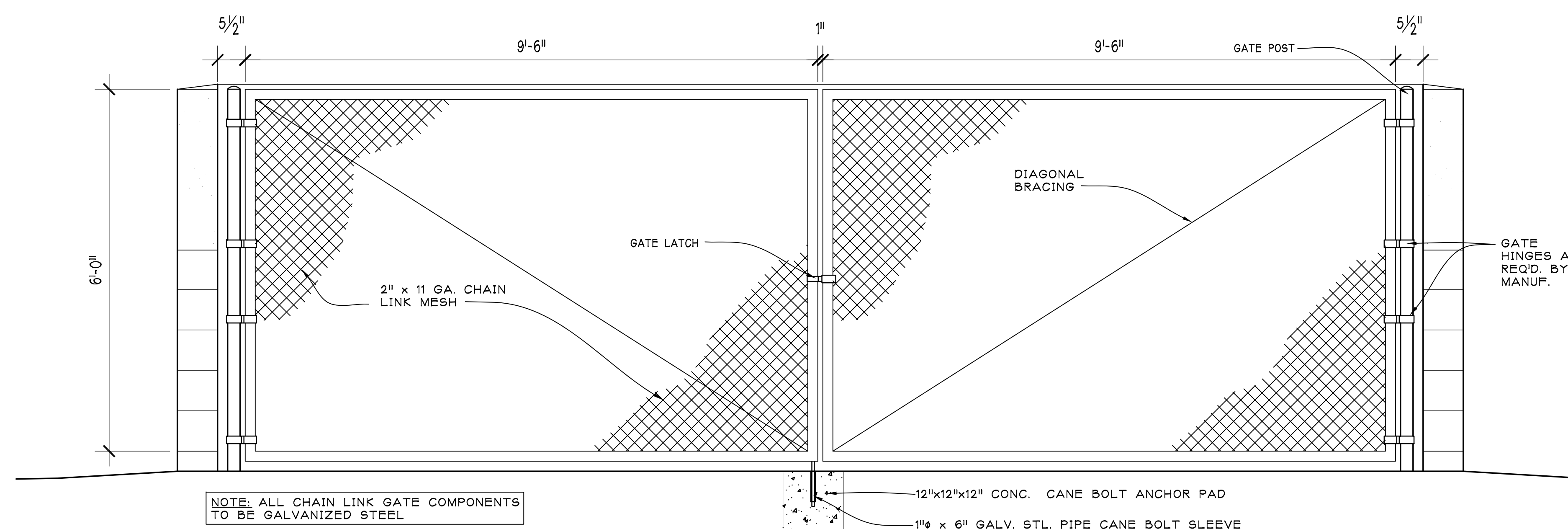
9G
A2.1

ALTERNATE No 1 - REST ROOM BLDG
Bid Documents



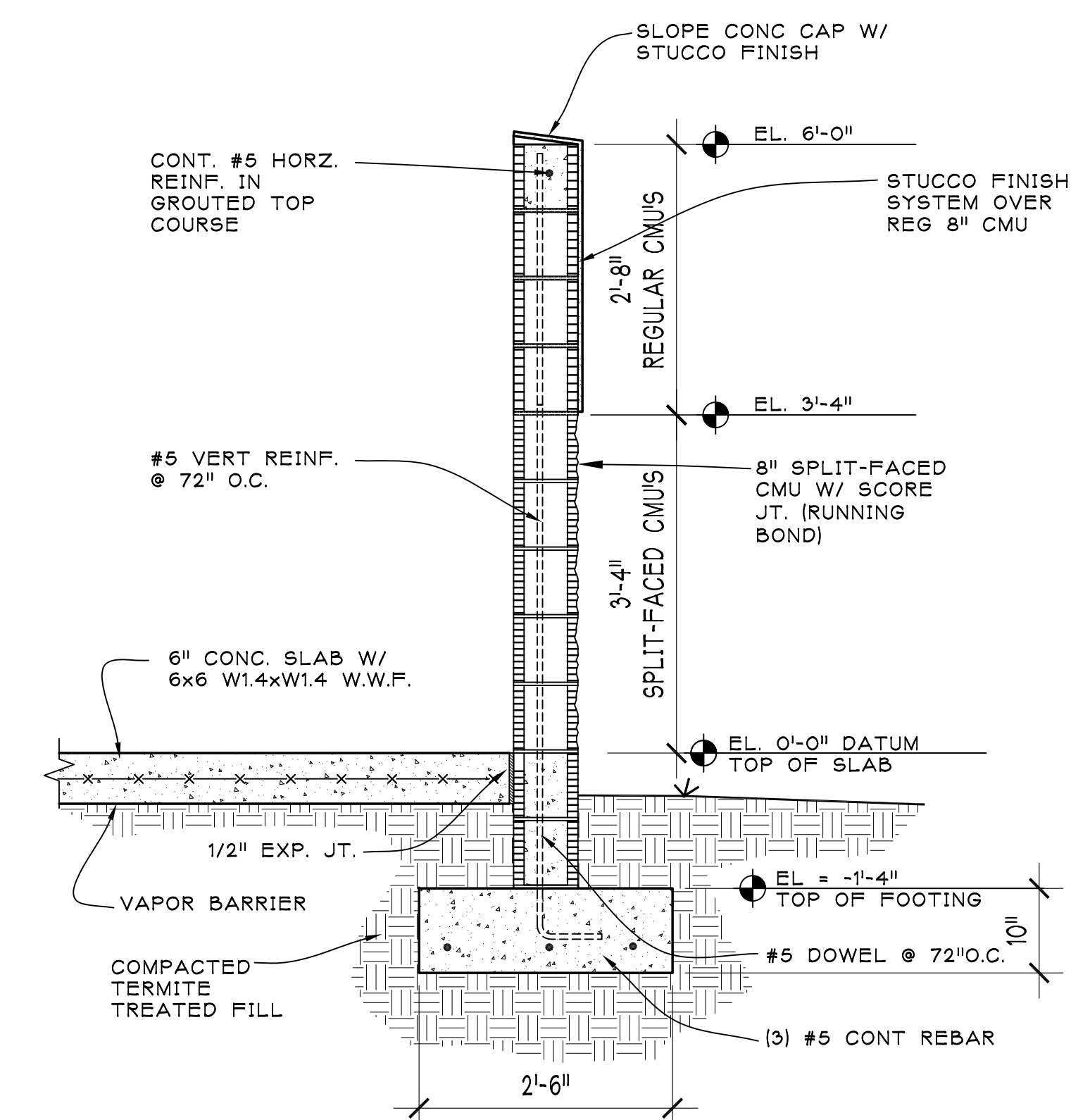
DUMPSTER ENCLOSURE DETAILS

SCALE 1/4" = 1'-0"



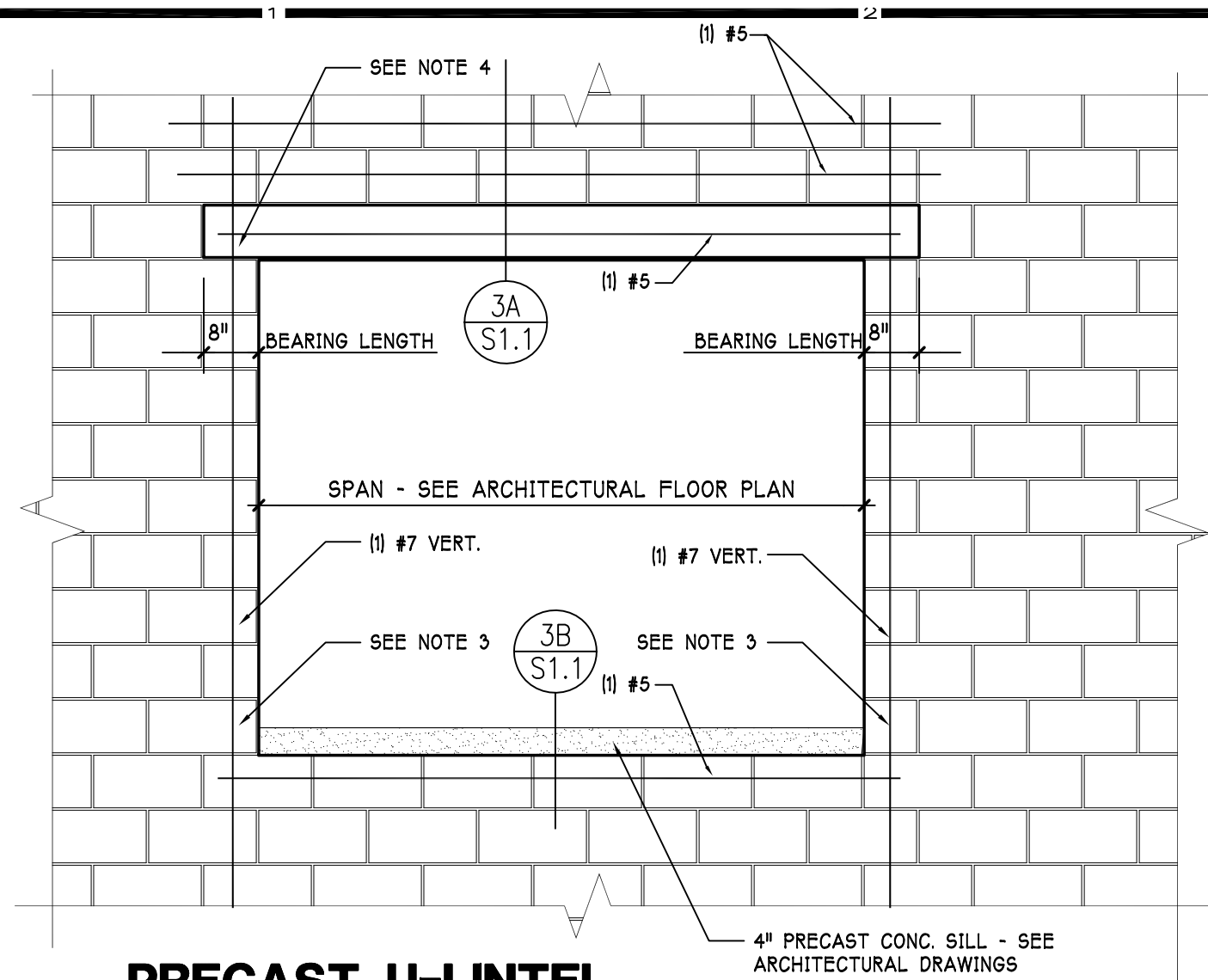
CHAINLINK GATE DETAIL

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



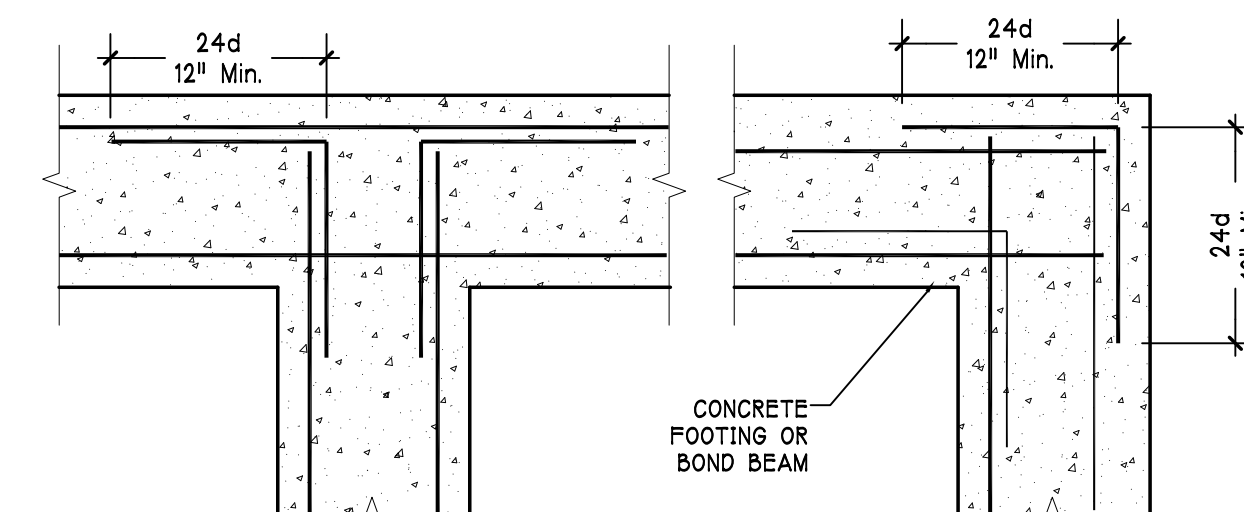
TYPICAL DUMPSTER WALL SECTION

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



PRECAST U-LINTEL REINFORCEMENT AT OPENINGS

- NOTES:**
1. ALL MASONRY CELLS INDICATED TO HAVE REINFORCING SHALL BE FILLED SOLID WITH MASONRY GROUT IN ACCORDANCE WITH THE SPECIFICATIONS.
 2. PROVIDE REINFORCING AT THE JAMBS EQUIVALENT TO THE REINFORCING INTERRUPTED BY THE MASONRY OPENING. FILLED CELLS REQUIRED FOR THE SUPPORT OF THE LINTEL MAY BE COUNTED AS PART OF THIS REINFORCING.
 3. PROVIDE GROUT FILLED CELLS WITH REINFORCING AT EACH JAMB. NUMBER OF CELLS TO FILL AT EACH JAMB SHALL BE INDICATED ON THE FOUNDATION PLANS.
 4. PRECAST LINTELS SHALL HAVE OPENINGS FORMED AT EACH BEARING TO MATCH THE MASONRY CELL OPENING BELOW. REINFORCING AND MASONRY GROUT SHALL BE PLACED CONTINUOUSLY THROUGH THE OPENING.
 5. COORDINATE WITH HVAC SHEETS FOR LOCATIONS OF REINFORCED HEADERS AT DUCT PENETRATIONS THROUGH CMU WALLS.

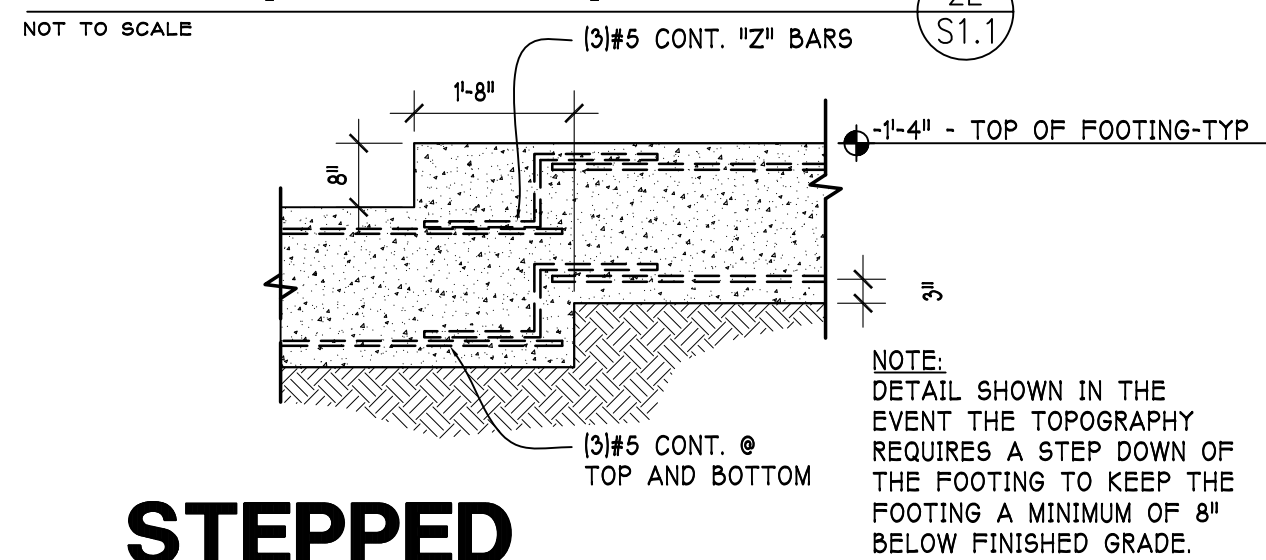


TEE CONDITION PLAN

1. d = NOMINAL BAR DIAMETER
2. PLACE ALL BENDS HORIZONTALLY

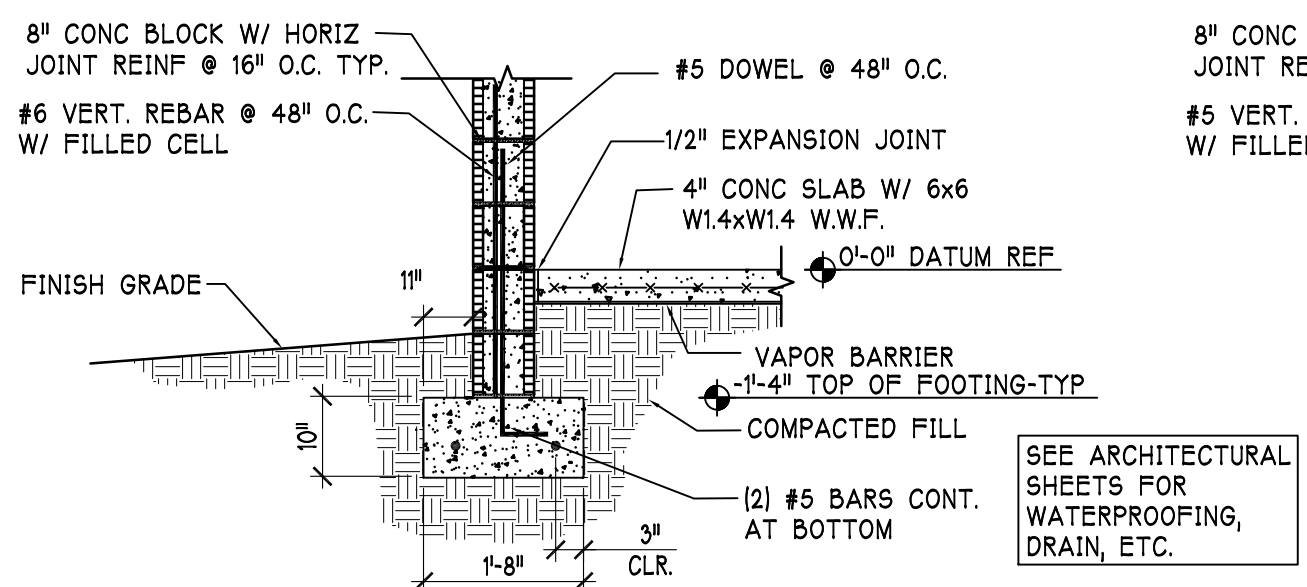
CORNER CONDITION PLAN

BAR LAP DETAIL (CONCRETE)



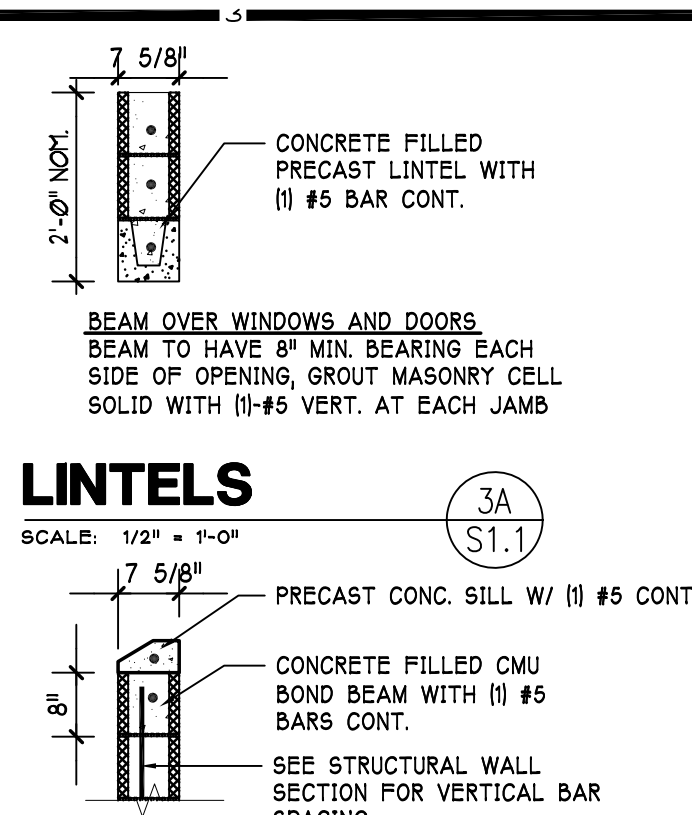
STEPPED FOOTING DETAIL

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



EXTERIOR CMU WALL FOOTING DETAIL

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



LINTELS

- SCALE: 1/2" = 1'-0"
1. PRECAST CONC. SILL W/ (1) #5 CONT.
 2. CONCRETE FILLED CMU BOND BEAM WITH (1) #5 BARS CONT.
 3. SEE STRUCTURAL WALL SECTION FOR VERTICAL BAR SPACING

CMU SILL

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

ACI STANDARD HOOK FOR DOWELS AND TENSION BARS

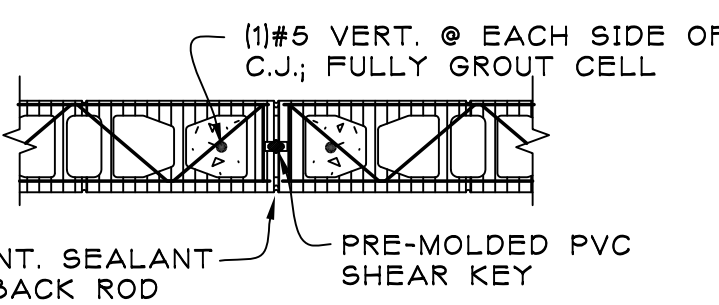
BAR	L	48db
#3	6"	18"
#4	8"	24"
#5	10"	30"
#6	12"	36"
#7	14"	42"
#8	16"	48"

#3 THROUGH #8 BARS ONLY

STANDARD HOOK & MASONRY LAP

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

- NOTES:**
1. BREAK HORIZONTAL JOINT REINFORCEMENT AT ALL CONTROL JOINTS.
 2. DO NOT BREAK BOND BEAM OR FOUNDATION REINFORCEMENT AT CONTROL JOINTS.
 3. SEE FOUNDATION PLAN FOR LOCATION OF JOINTS.



CMU CONTROL JOINT

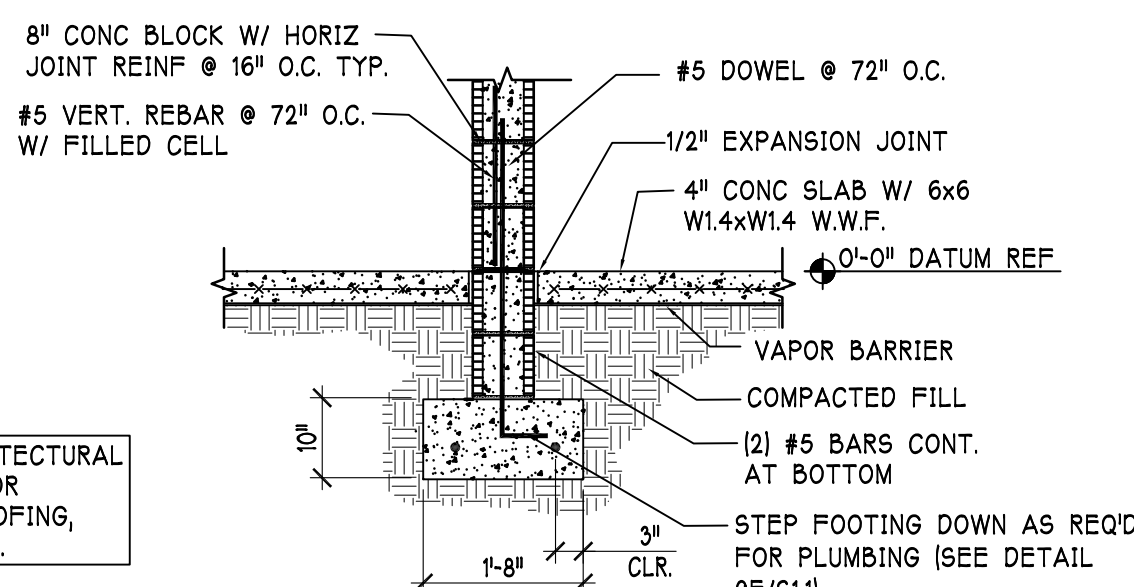
SCALE: 3/4"=1'-0"

FLORIDA BUILDING CODE 2007 SECTION 1603.1.4 INFORMATION

- 1) BASIC WIND SPEED = 100 MPH
- 2) I = 1.00
- 3) BUILDING CATEGORY II
- 4) EXPOSURE = B
- 5) INTERNAL PRESSURE COEFFICIENT = +/-0.18 (ENCLOSED)
- 6) COMPONENT AND CLADDING PRESSURE
ZONE 4= 18.7 PSF
ZONE 5= 22.5 PSF

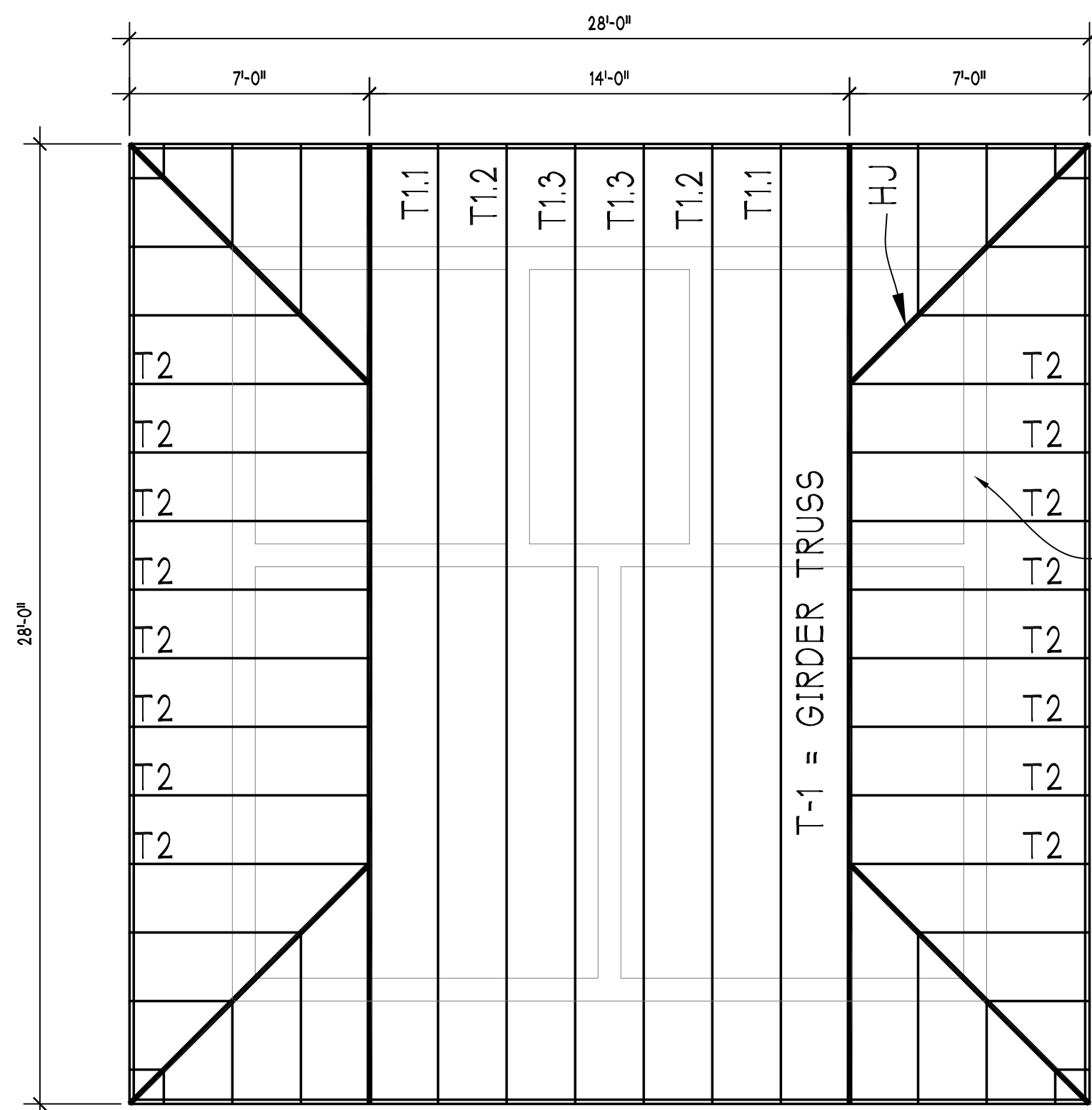
NOTE:

1. WALL CENTERED ON FOOTING UNLESS NOTED OTHERWISE ON PLAN OR IN DETAILS.
2. FILLED CELL DOWELS SHALL BE TIED IN PROPER LOCATION PRIOR TO PLACEMENT OF FOOTING CONCRETE.



FOOTING DETAIL

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



ROOF FRAMING PLAN OF REST ROOM BUILDING

SCALE 1/4" = 1'-0"

STRUCTURAL NOTES:

Wind resistance of the referenced building has been designed using a wind speed of 100 mph as required by Section 1609, 2007 Florida Building Code.

ROOF SHEATHING: 5/8" Plywood installed without blocking. Use 8d common or 10-1/4 gage x 21" minimum length power nails at 6" o.c. at sheet edges and 6" o.c. in the sheet field. The roof acts as a structural diaphragm.

HURRICANE CLIPS: Subject to revision by the engineer after review of engineering from truss manufacturer. All connectors by Simpson & sized as follows:

- Truss w/uplift up to 11810#:
- HETA20 with (9) 10d x 1-1/2" nails (One ply) or (8) 16d common nails (2 or 3 ply).
- (2035#):
- (1 ply truss) (2) HETA16 with (10) 10d x 1-1/2" nails each.
- (2500#):
- (2 or 3 ply truss) (2) HETA16 with (12) 16d common nails each.
- (3965#):
- MGT with (22) 10d common nails to girder & 5/8" all thread rod set 12" into CMU w/epoxy.
- (10,500#):
- (2 or 3 ply girder) HGT2 or HGT3 with (16) 10d common nails & (2) 3/4" all thread rods set 12" into CMU w/ epoxy.

CONCRETE: All concrete and masonry wall grout shall have a 28 day compressive strenght of 3000 psi. Grout shall have a slump of 8" to 11"

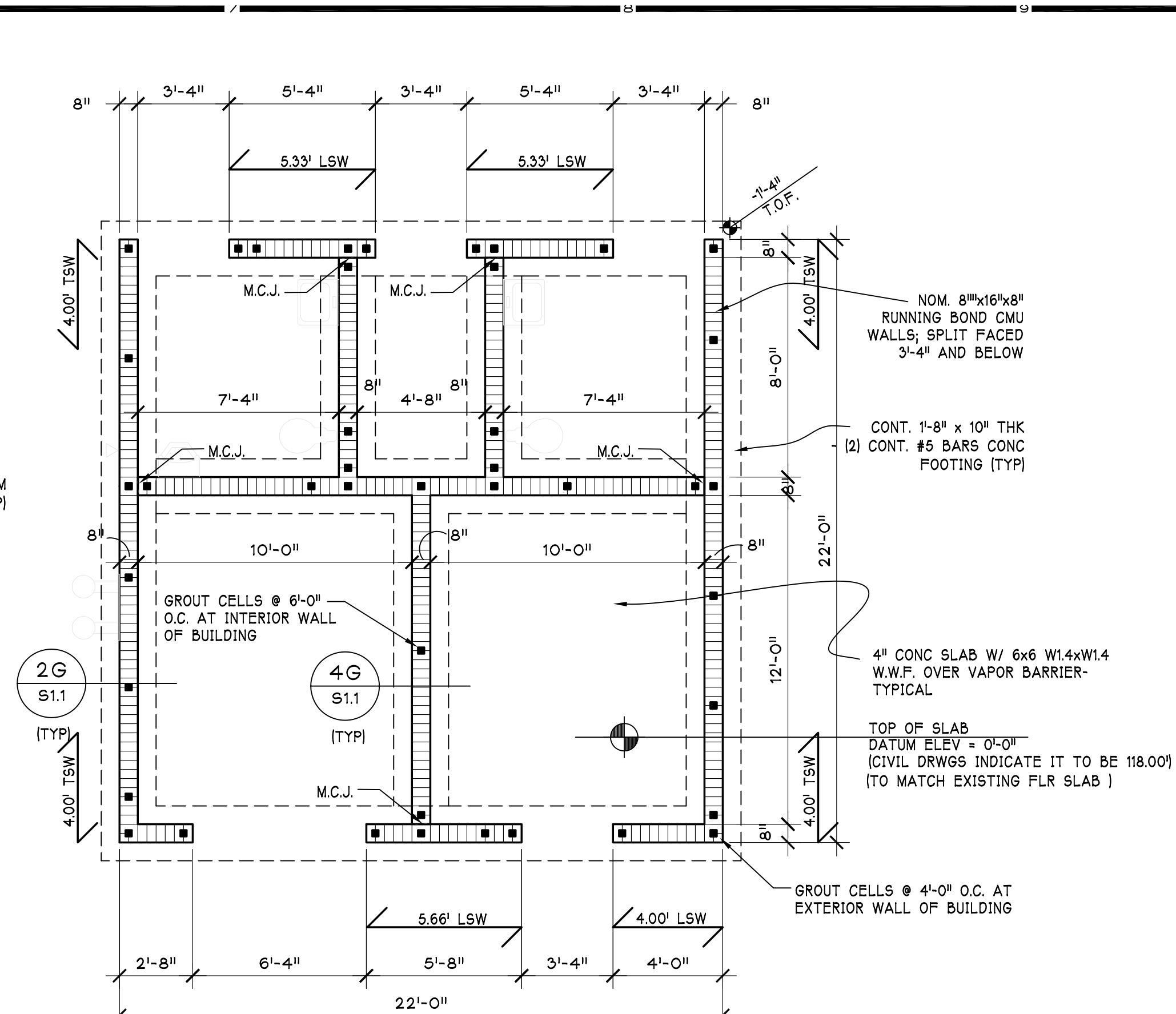
REINFORCING STEEL: Grade 60 bars. All lap aplices to be a minimum of 48 bar diameters. Unless otherwise noted, vertical reinforcing in walls is #5 bars in 8" CMU at 4'-0" o.c. maximum spacing. Place bar adjacent to all door and window jambs, and all corners and ends of walls. Locate masonry bond beams as shown on the drawings. All hooks, aplices, and bends to be in accordance with ACI 318 minimum criteria.

JOINT REINFORCING: See Specifications.

Note: 10-1/4 GAGE POWER NAILS HAVE A DIAMETER OF 0.131".

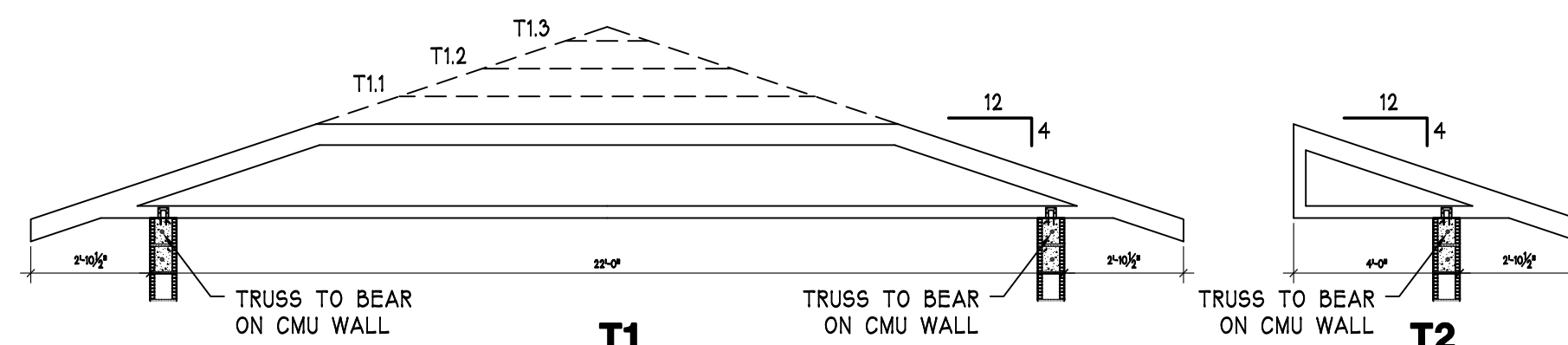
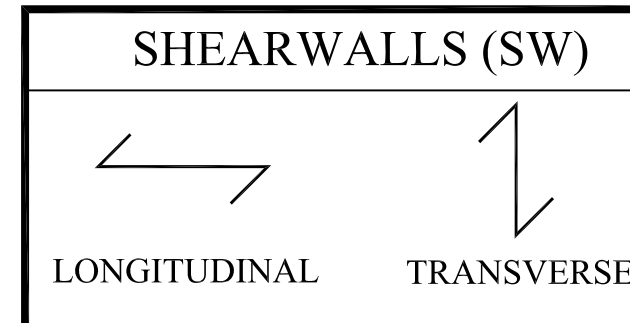
REINFORCEMENT NOTES:

1. Reinforcement steel shall be Grade 60 for #3 and larger in accordance with ASTM A-615, current edition.
2. Reinforcement steel shall be bent, lapped and spliced in accordance with ACI standard details and specifications.
3. Where reinforced concrete beams, tie beams, continuous footings or thickened slab edges intersect, provide corner bars to lap outside steel 30 bar diameters.
4. Slabs shall be reinforced with 6"x6" W1.4xW1.4 W.W.F.
5. For reinforced concrete masonry, splice horizontal and vertical reinforcement with 48 bar diameter lap.



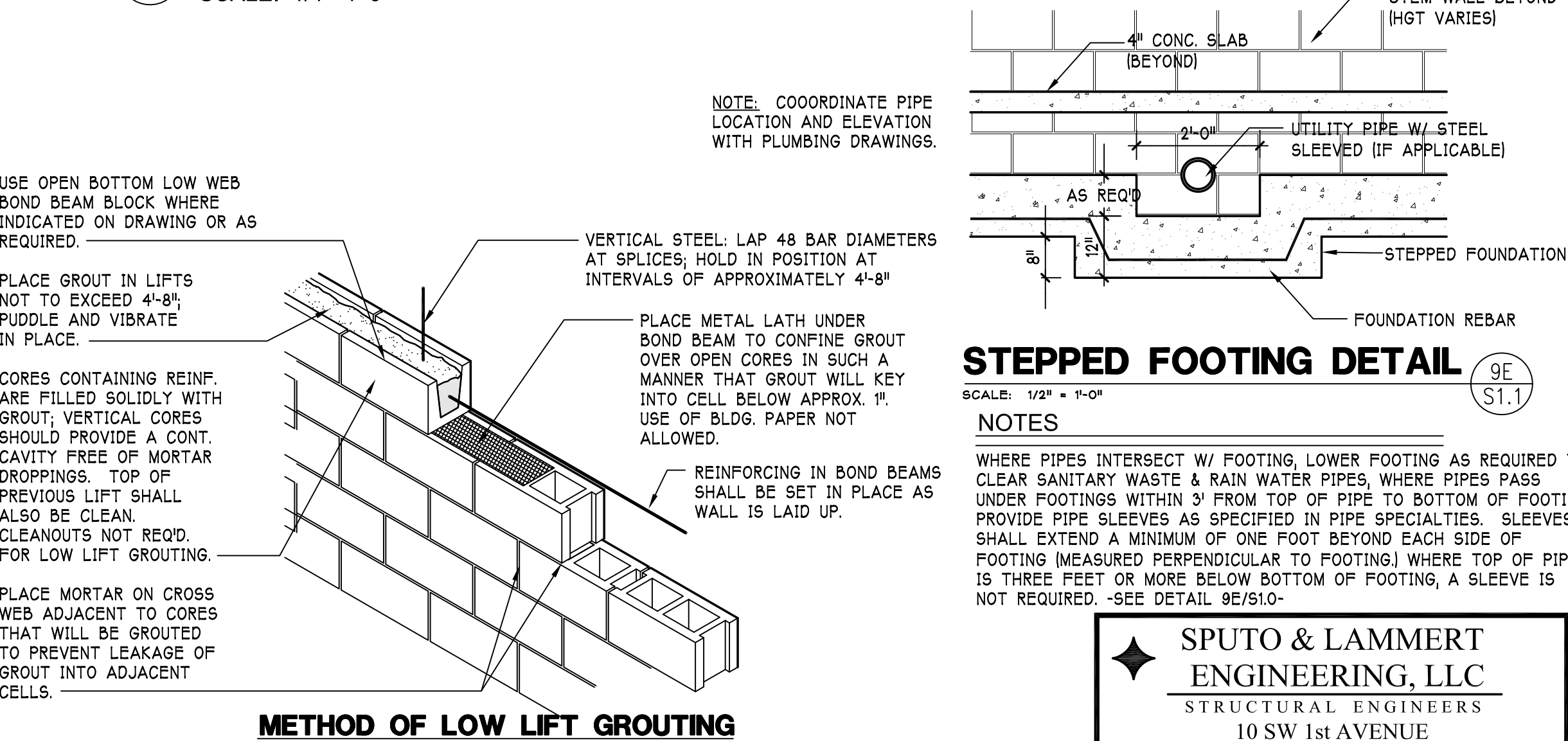
FOUNDATION PLAN OF REST ROOM BUILDING

SCALE 1/4" = 1'-0"



ROOF TRUSS PROFILES

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



METHOD OF LOW LIFT GROUTING 4'-8" MAXIMUM LIFT

WALL PARTITION

SCALE: N.T.S.

NOTE: CONSTRUCT WALL IN LIFTS, GROUTING CELLS AND HORIZONTAL BOND BEAM IN EACH LIFT PRIOR TO LAYING BLOCK ABOVE.

Filename: N:\1012\Cone Park Improvements\Constructa\Mech\1012.MECH - Plot Date: 18 March 2011 - Plotted By: Josh Tice

ABBREVIATIONS

ABV	CLG	AMPS; AREA
AFF		ABOVE FINISHED CEILING
AL		ALUMINUM
AP		ACCESS PANEL
BD		BALANCING DAMPER
BFF		BELOW FINISHED FLOOR
BTU		BRITISH THERMAL UNITS
BTUH		BTU PER HOUR
C		CONDENSATE
CF		CUBIC FEET
CFH		CUBIC FEET PER HOUR
CFM		CUBIC FEET PER MINUTE
CO		CLEANOUT
CR		CONDENSATE RETURN (STEAM)
CT		COOLING TOWER
CU		CONDENSING UNIT; COPPER
CV		COEFFICIENT OF VALVE
DB		DRY BULB
DC		DUST COLLECTOR
DDC		DIRECT DIGITAL CONTROLS
DEFL		DEFLECTION
DG		DOOR GRILLE
DIA		DIAMETER
DS		DUCT SILENCER
DC		DUST COLLECTOR
EA		EACH
EAT		ENTERING AIR TEMPERATURE
EDH		ELECTRIC DUCT HEATER
EF		EXHAUST FAN
EG		EXHAUST GRILLE
EH		EXHAUST HOOD
ENT		ENTERING
ER		EXHAUST REGISTER
ESP		EXTERNAL STATIC PRESSURE
EWT		ENTERING WATER TEMPERATURE
EX		EXISTING
EXH		EXHAUST
°F		DEGREES FAHRENHEIT
FCU		FAN COIL UNIT
FD		FIRE DAMPER, FLOOR DRAIN
FEV		FUME EXHAUST VALVE
FG		FILTER GRILLE
FH		FUME HOOD
FMS		FLOW MEASURING STATION
FO		FLAT OVAL
FPM		FEET PER MINUTE
FRP		FIBERGLASS REINFORCED PLASTIC
FT		FEET
FT WG		FEET OF WATER, GAUGE
FTU		FAN TERMINAL UNIT
GA		GAUGE
GAL		GALLONS
GALV		GALVANIZED
GEV		GENERAL EXHAUST VALVE
GPH		GALLONS PER HOUR
GPM		GALLONS PER MINUTE
HG		HOT GAS
HP		HEAT PUMP; HORSEPOWER
HPS		HEAT PRESSURE SYSTEM
HR		HOUR
HX		HEAT EXCHANGER
ID		INSIDE DIAMETER
IN.		INCHES
IN. WG		INCHES OF WATER, GAUGE
KW		KILOWATTS
KWH		KILOWATT HOUR
LAT		LEAVING AIR TEMPERATURE
LB		POUND
LD		LINEAR DIFFUSER
LPS		LOW PRESSURE STEAM
LVT		LEAVING WATER TEMPERATURE
LWT		LEAVING WATER TEMPERATURE
MAX		MAXIMUM
MBH		THOUSANDS OF BTU'S
MCF		THOUSANDS OF CUBIC FEET
MD		MOTORIZED DAMPER
MIN		MINUTE; MINIMUM
NC		NORMALLY CLOSED
NIC		NOT IN CONTRACT
NO		NORMALLY OPEN, NUMBER
NTS		NOT TO SCALE
OA		OUTDOOR AIR
OAL		OUTDOOR AIR LOUVER
OC		ON CENTER
OD		OUTSIDE DIAMETER
P		PUMP
OLING		OLING WATER SUPPLY
PH		PHASE
PRESS		PRESSURE
PRV		PRESSURE REDUCING VALVE
PSI		POUNDS PER SQUARE INCH
PVC		PVC PIPE
R		RADIUS
RA		RETURN AIR
RD		ROUND DIFFUSER
RG		RETURN AIR GRILLE
RH		RELATIVE HUMIDITY
RHC		REHEAT COIL
RL		REFRIGERANT LIQUID
RP		REDUCED PRESSURE
RPM		REVOLUTIONS PER MINUTE
RR		RETURN AIR REGISTER
RS		REFRIGERANT SUCTION
RV		ROOF VENT
SA		SUPPLY AIR
SAR, SR		SUPPLY AIR REGISTER
SD		SMOKE DAMPER
SF		SQUARE FEET, SUPPLY FAN
SG		SOFFIT GRILLE
SIM		SIMILAR
SP		STATIC PRESSURE
SPEC		SPECIFICATION
SR		SIDEWALL REGISTER
SS		STAINLESS STEEL
STD		STANDARD
STL		STEEL
STM		STEAM
SV		SUPPLY VALVE
TEMP		TEMPERATURE
TG		TRANSFER GRILLE
TSP		TOTAL STATIC PRESSURE
TYP		TYPICAL
UC		UNDERCUT DOOR - 3/4"
UG		UNDERGROUND
UH		UNIT HEATER
V		VOLTS
VAV		VARIABLE AIR VOLUME
VFD		VARIABLE FREQUENCY DRIVE
VFM		VENTURI FLOW METER
VLV		VALVE
VVU		VARIABLE VOLUME UNIT
WB		WET BULB
WPD		WATER PRESSURE DROP

GENERAL LEGEND

	CEILING DIFFUSER: "X" = TYPE AS NOTED IN SPECS "24" = FACE SIZE, "08" = NECK DIAMETER 4-WAY THROW OR AS SHOWN ON PLANS		AIRTROL FITTING
	DUCTWORK WITH INSULATION		AUTOMATIC AIR VENT
	DUCTWORK W/ NO INSULATION		AUTOMATIC BALANCING VALVE
	DUCT ELBOW W/ TURNING VANES		BACKFLOW PREVENTER
	FLEXIBLE DUCT CONNECTION		BALL VALVE
	RADIUSED DUCT ELBOW (RADIUS = 1.5 X WIDTH)		BUTTERFLY VALVE
	RECTANGULAR DUCT TAKEOFF (SEE DETAILS)		CALIBRATED BALANCING VALVE
	RUNOUT TO CD/RAG (SEE DETAILS)		CHECK VALVE
	SUCTION DIFFUSER		CONCENTRIC REDUCER
	UNIT SYMBOL W/ UNIT NUMBER		CONNECT TO EXISTING
	THERMOSTAT/TEMPERATURE SENSOR		ECCENTRIC REDUCER
	HUMIDISTAT/HUMIDITY SENSOR		FILL VALVE
	SMOKE DETECTOR		FLEXIBLE PIPE CONNECTION
	FIRESTAT		FLOW SWITCH
	SPEED CONTROL SWITCH		GATE VALVE
	BALANCING DAMPER		GAUGE AND COCK
	MOTORIZED DAMPER		GAUGE CONNECTOR PLUG
	GRAVITY DAMPER		GLOBE VALVE
	FIRE DAMPER		IN-LINE STRAINER
	FIRE & SMOKE DAMPER		LAB MINIMUM AIR BALANCE OFFSET (CFM)
	SMOKE DAMPER		PLUG VALVE
	PIPE DOWN		PRESSURE REDUCER VALVE
	PIPE UP		RELIEF VALVE
	STEAM PIPING		TWO-WAY CONTROL VALVE
	DOOR GRILLE		THREE-WAY CONTROL VALVE
			THERMOMETER
			THERMOMETER WELL
			UNION
			VENTURI FLOW METER
			WATER METER
			CONDENSATE DRAIN PIPING
			CONDENSATE RETURN PIPING
			DIELECTRIC WATERWAY
			PIPE ANCHOR

MECHANICAL NOTES

A. AIR DISTRIBUTION

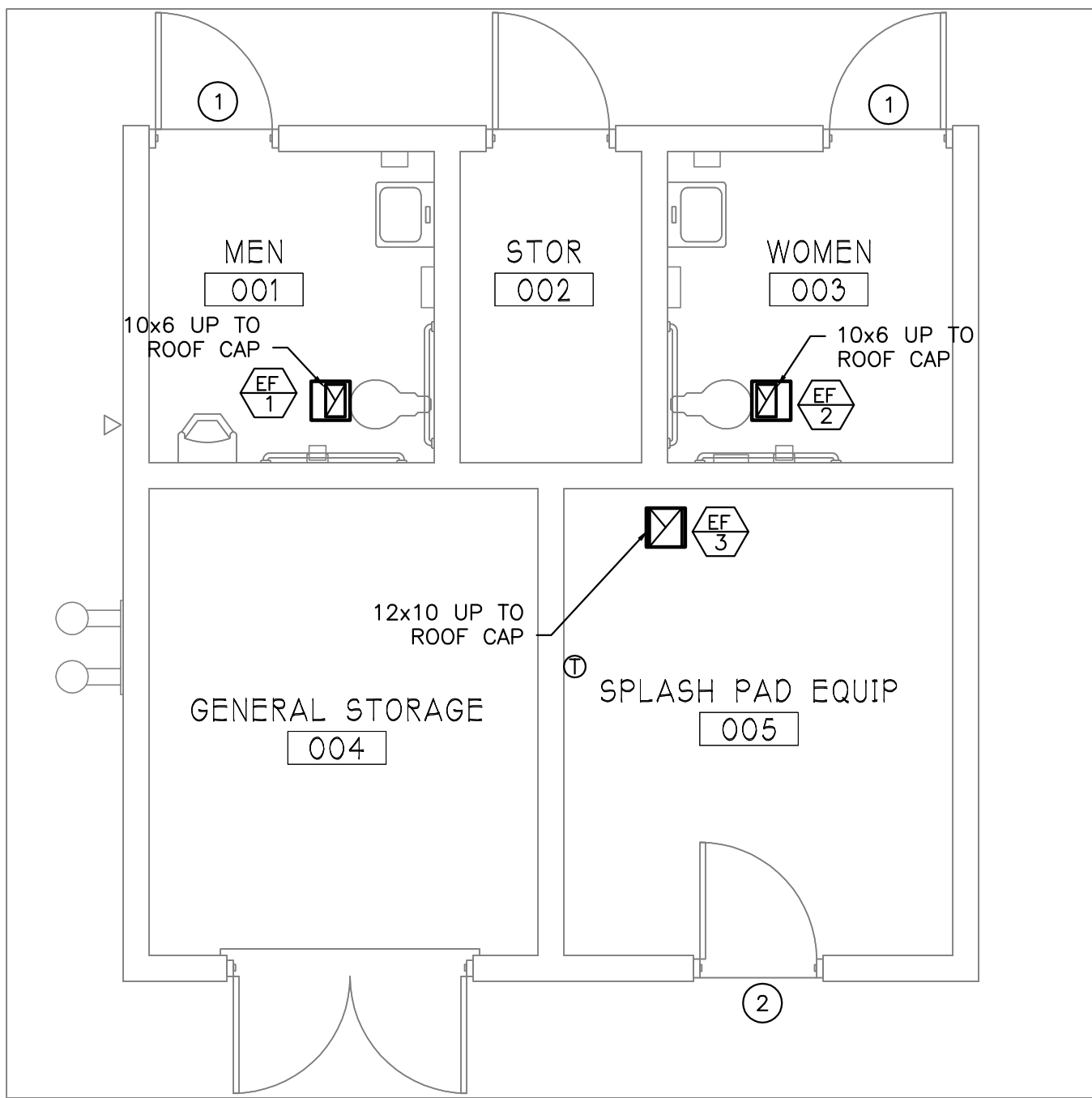
- DUCT SIZES ARE SHEET METAL SIZES. NO DUCTWORK SHALL RUN PARALLEL WITH AND OVER WALLS.
- VERIFY COLLAR SIZES ON ALL AIR TERMINALS AND EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
- SEE REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING OUTLETS AND INLETS.
- CONTRACTOR SHALL VERIFY CLEARANCE SPACE AVAILABLE, OFFSETS REQUIRED, STRUCTURAL OPENINGS, AND WORK BY OTHER TRADES PRIOR TO FABRICATION OF DUCTWORK. PRESSURE TEST ALL DUCTWORK FOR LEAKS. SEE SPECIFICATIONS. RETURN AND EXHAUST DUCT SHALL BE TESTED UNDER NEGATIVE PRESSURE.
- PROVIDE FLEXIBLE DUCT CONNECTIONS FOR ALL UNITS. EXTERNALLY INSULATE FLEXIBLE CONNECTIONS.
- SUPPLY DUCT BETWEEN AHU DISCHARGE AND TERMINAL UNITS SHALL BE MINIMUM 4" PRESSURE CLASS. DUCT DOWNSTREAM OF TERMINAL UNITS, SUPPLY DUCT FROM AIR CONDITIONING UNITS AND ALL RETURN AND EXHAUST DUCT SHALL BE MINIMUM 2" PRESSURE CLASS UNLESS OTHERWISE NOTED.

B. EQUIPMENT

- CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING AND DUCTWORK SUCH THAT MANUFACTURER'S RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES.
- PROVIDE VIBRATION ISOLATORS FOR ALL UNITS. SEE SPECIFICATIONS.
- PROVIDE ACCESS PANELS IN ALL NON-ACCESSIBLE CONSTRUCTIONS (INCLUDING CEILING, WALLS, ETC) SIZED AND LOCATED AS REQUIRED TO PROVIDE PROPER SERVICE ACCESS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION FOR ALL HVAC EQUIPMENT INCLUDING DAMPERS AND VALVES.

SHEET NOTES

- PROVIDE 16x16 DOOR GRILLE. INSTALL HIGH IN DOOR. SEE ARCHITECTURAL.
- PROVIDE 20x20 DOOR GRILLE. INSTALL HIGH IN DOOR. SEE ARCHITECTURAL.



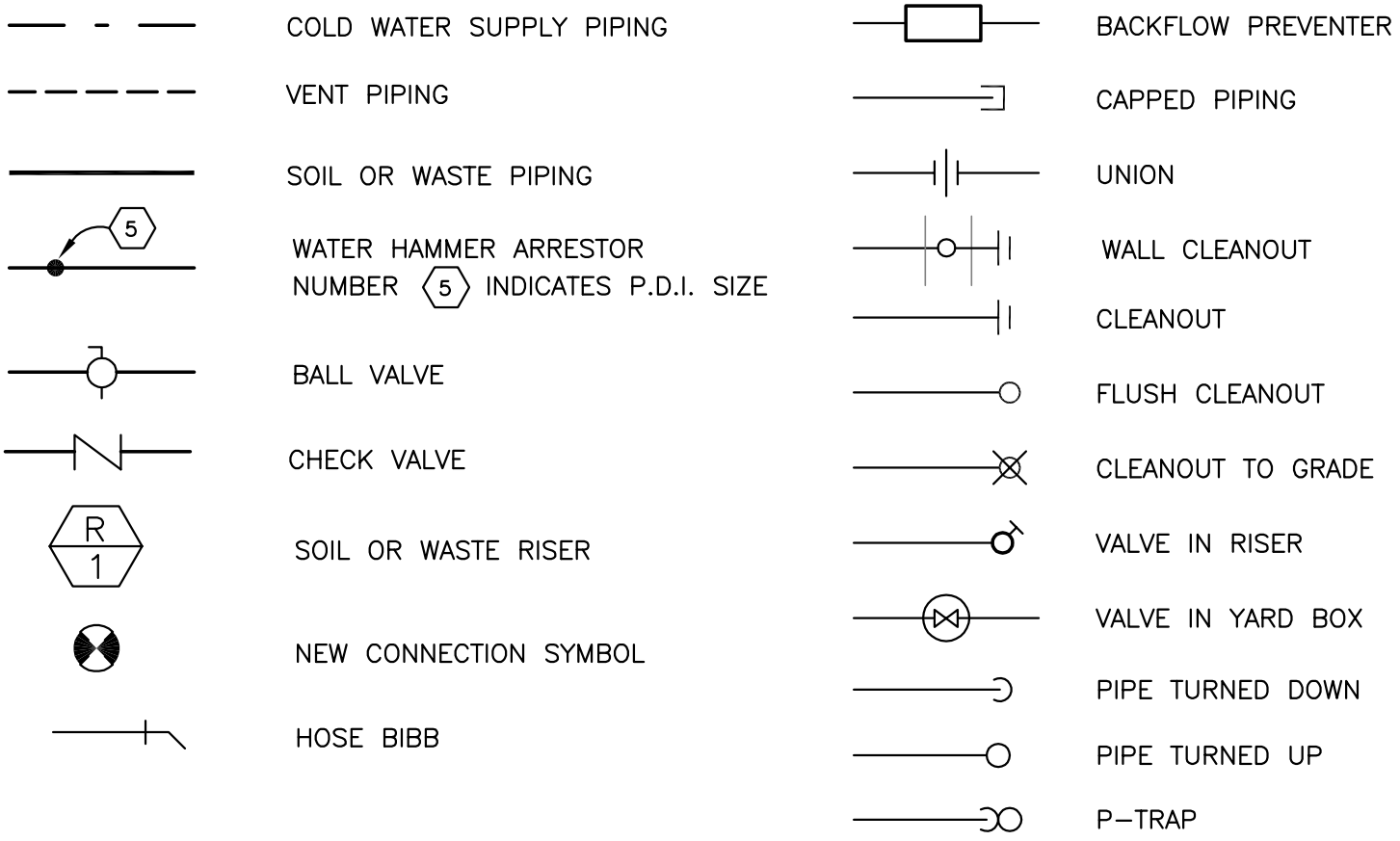
FIRST FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"

EXHAUST FAN SCHEDULE								
FAN	MANUF	MODEL	TYPE	AIR QUANTITY (CFM)	STATIC PRESSURE IN. H2O	MOTOR (HP)	ELEC CHAR (V-ø)	REMARKS
EF-1	COOK	GC-420	CEILING	200	0.25	126W	120-1	(1) (4) (5) (6) (8) (9)
EF-2	COOK	GC-420	CEILING	200	0.25	126W	120-1	(1) (4) (5) (6) (8) (9)
EF-3	COOK	GC-720	CEILING	600	0.25	300	120-1	(1) (4) (5) (6) (7) (8) (9)

- | | | |
|------------------------|-------------------------------|------------------------------|
| (1) PROVIDE DISCONNECT | (4) PROVIDE BACKDRAFT DAMPER | (7) PROVIDE THERMOSTAT |
| (2) PROVIDE THERMOSTAT | (5) PROVIDE ROOF CURB AND CAP | (8) DIRECT DRIVE |
| (3) BIRDSCREEN | (6) THERMAL OVERLOAD | (9) PROVIDE SPEED CONTROLLER |

Filename: N:\1012\Cone Park Improvements\Constructs\PLMB11012-PLUMBING - Plot Date: 19 March 2011 - Plotted By: Josh Tjoe

PLUMBING LEGEND

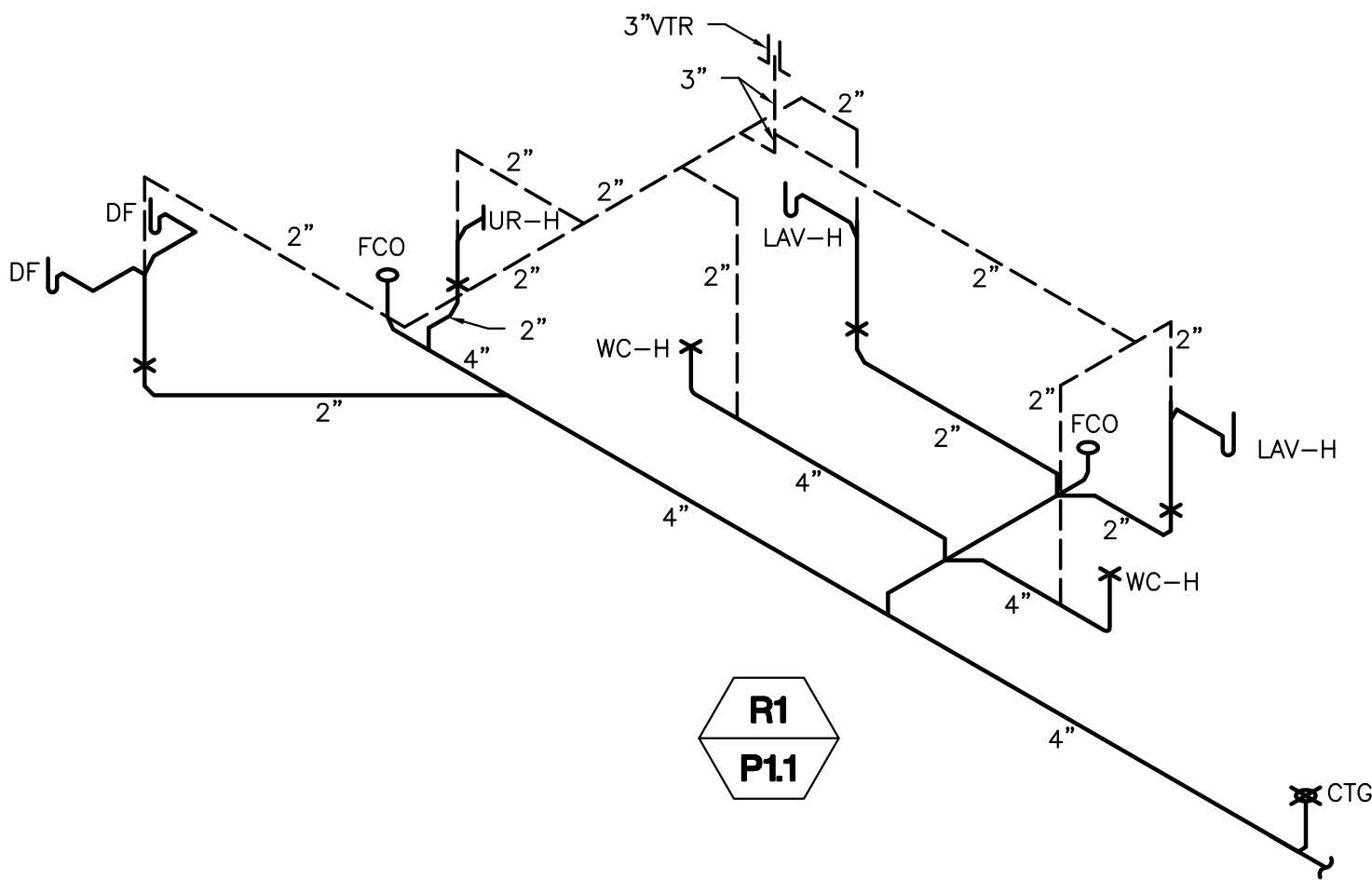


PLUMBING ABBREVIATIONS

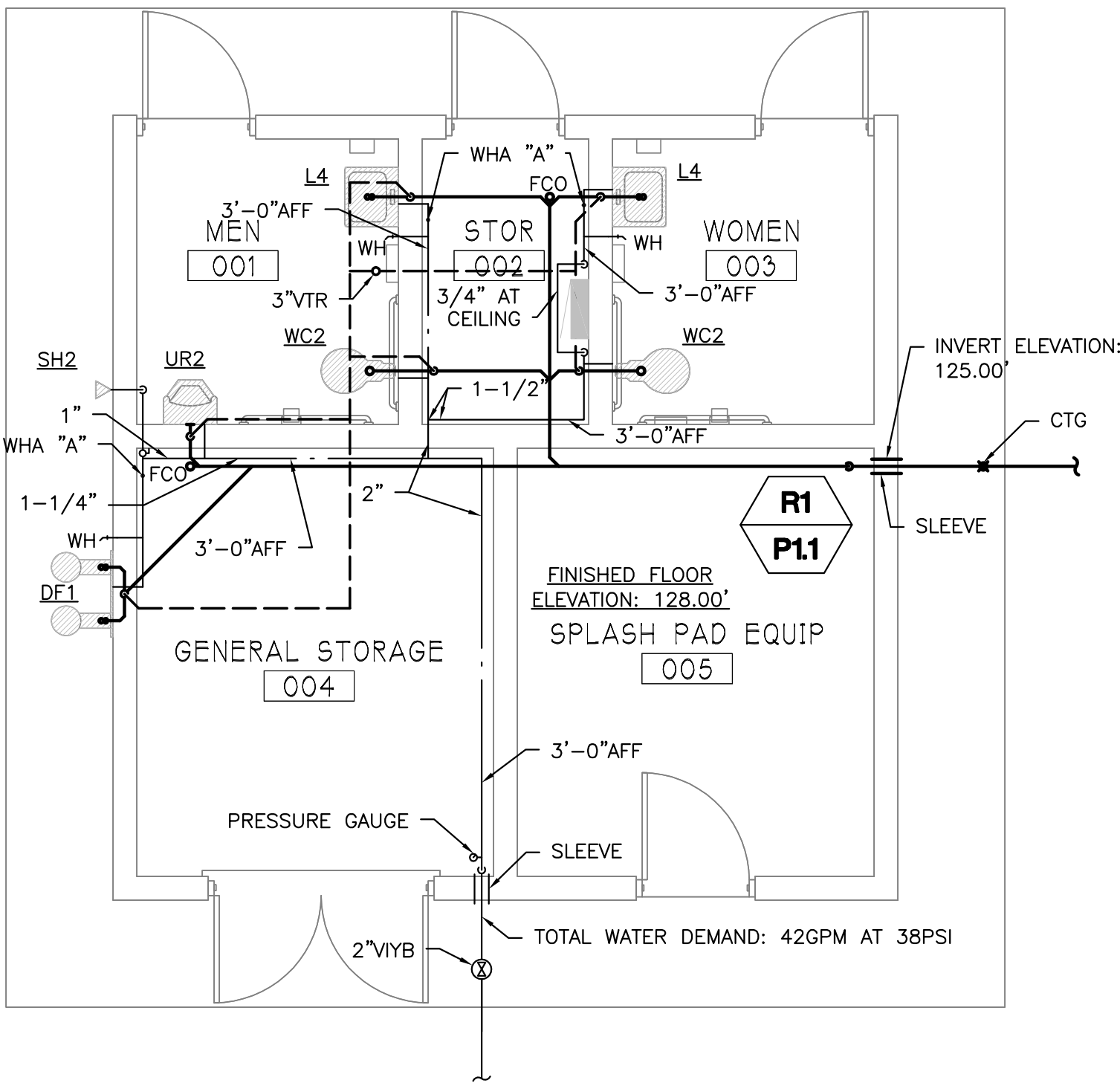
CW	COLD WATER SUPPLY PIPING	WHA 'A'	WATER HAMMER ARRESTOR LETTER INDICATES P.D.I. SIZE
V	VENT PIPING	GV	GATE VALVE
S or W	SOIL OR WASTE PIPING	CV	CHECK VALVE
CI	CAST IRON	BFP	BACKFLOW PREVENTER
AP	ACCESS PANEL	CO	CLEANOUT
HB	HOSE BIBB	FCO	FLUSH CLEANOUT
TP	TRAP PRIMER	CTG	CLEANOUT TO GRADE
VTR	VENT THRU ROOF	VIYB	VALVE IN YARD BOX
FD	FLOOR DRAIN	WH	WALL HYDRANT

PLUMBING FIXTURE SCHEDULE

SYMBOL AND ABBREVIATION	FIXTURE	PIPE SIZES-INCHES			REMARKS
		CW	HW	W	
WC2	WC-H	1-1/4			FLOOR MOUNTED, AUTOMATIC FLUSH VALVE
UR2	UR-H	1	-	2	-
L4	LAV-H	1/2	-	1-1/4	WALL HUNG, AUTOMATIC FAUCET
DF1	DF	1/2	-	1-1/4	WALL HUNG
SH2	SH-H	3/4	-	-	-



SANITARY WASTE AND VENT RISER DIAGRAM



FIRST FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES

- COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS. ROUTE PIPING AS REQUIRED TO MISS DUCTS.
- COORDINATE ALL BUILDING PLUMBING PIPING WITH SITE PIPING SYSTEMS PRIOR TO START OF ANY WORK.
- FIELD VERIFY INVERTS PRIOR TO LAYING OUT SANITARY PIPING.
- ALL PIPING PASSING THROUGH MASONRY WALLS SHALL HAVE A SLEEVE - (SEE SPECIFICATIONS).
- ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE - (SEE SPECIFICATIONS).
- ALL PIPING INDICATED ON THE PLUMBING DRAWINGS IS ABOVE THE CEILING EXCEPT THE OBVIOUS SOIL AND WASTE PIPING BELOW THE FLOOR.
- SANITARY, WASTE AND VENT PIPING RISERS ON THIS SHEET.
- INSULATE ALL EXPOSED COLD WATER PIPING WITH 1-1/2" THICK INSULATION.

ELECTRICAL LEGEND

GENERAL ELECTRICAL DEVICES:

- ① DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:
- G - GROUND FAULT CIRCUIT INTERRUPTER TYPE.
WP - GFI DEVICE WITH DIECAST WEATHERPROOF BACKBOX & CLEAR WEATHERPROOF (IN-USE) COVERPLATE. IN EXTERIOR LOCATIONS MOUNT 30" AFG.
EWC - GFI, CONCEAL RECEPTACLE BEHIND EWC (COORDINATE WITH DIVISION 15).

- ① DUPLEX RECEPTACLE MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN.

LIGHTING CONTROL EQUIPMENT:

- ① PHOTOELECTRIC CELL. SEE LIGHTING CONTROL DIAGRAM AND CONNECT AS REQUIRED.

OCCUPANCY SENSORS:

- ① WALL MOUNTED LINE VOLTAGE DUAL TECHNOLOGY SWITCH WITH SINGLE RELAY. MOUNT 48" AFF UNLESS NOTED OTHERWISE.

DISTRIBUTION & POWER EQUIPMENT:

- ① PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.

MISCELLANEOUS EQUIPMENT:

- ① JUNCTION BOX.
- ① ELECTRICAL CONNECTION TO EQUIPMENT. VERIFY LOCATION WITH EQUIPMENT PROVIDER.
- ① THERMOSTAT FURNISHED BY DIV 15 INSTALLED AND WIRED BY DIV 16.

OTHER:

- ① CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
- ① CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND. HOMERUN TO PANELBOARD. ANY CIRCUIT WITHOUT FURTHER DESIGNATION SHALL BE 2#12, #12G, 1/2" C. TICK MARKS INDICATE # OF CONDUCTORS (EGC NOT INCLUDED). MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 50 FEET SHALL BE #10 AWG. MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 100 FEET SHALL BE #8 AWG. INCREASE CONDUIT SIZE AS REQUIRED PER NEC. UNDERLINED TEXT INDICATES CIRCUIT DESIGNATION.

- ① MECHANICAL EQUIPMENT IDENTIFICATION TAG. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.

- ① LIGHT FIXTURE IDENTIFICATION TAG. SEE LIGHT FIXTURE SCHEDULE FOR SYMBOLS & DETAILS.

- ① SHEET NOTE TAG.

- ① PANELBOARD, SWITCHBOARD, TRANSFORMER & ELECTRICAL EQUIPMENT IDENTIFICATION TAG.

- ① LEADERS.

LIGHTING FIXTURES:

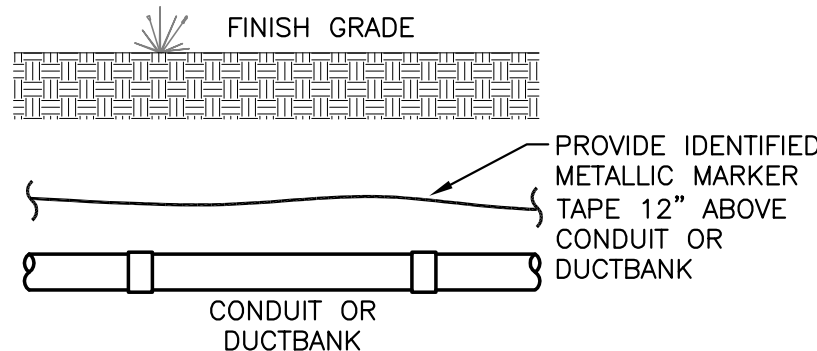
- ① CEILING MOUNTED FLUORESCENT LIGHTING FIXTURE.

- ① WALL MOUNTED FLUORESCENT LIGHTING FIXTURE.

- ① FLOURESCENT FIXTURE WITH EMERGENCY BATTERY INVERTER UNIT IN BALLAST COMPARTMENT.

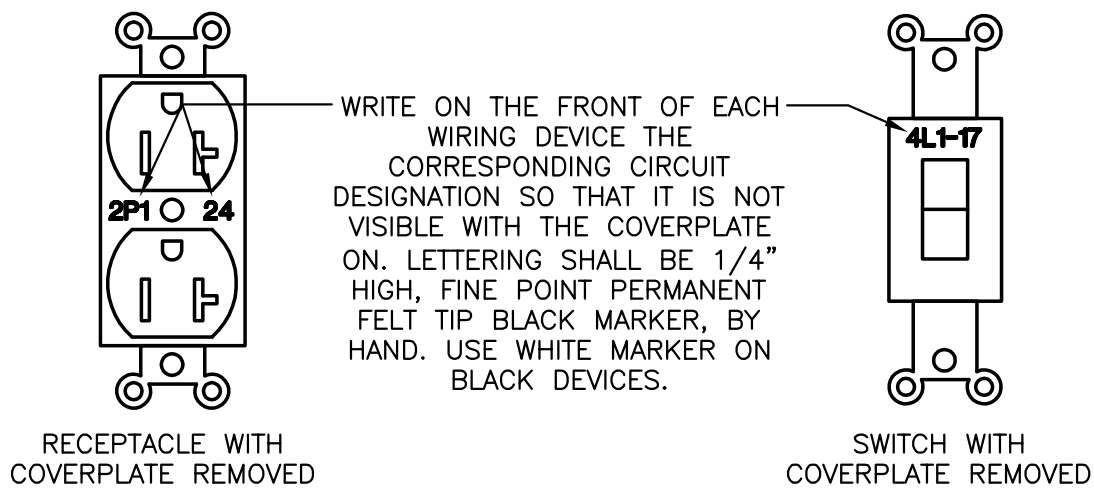
ABBREVIATIONS

A	AMPS	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MNT	MOUNTING HEIGHT
AFG	ABOVE FINISHED GRADE	MTG	MOUNTING
ARCH	ARCHITECT OR ARCHITECTURAL	N1	NEMA 1
AWG	AMERICAN WIRE GAUGE	N3R	NEMA 3R
BKR	CIRCUIT BREAKER	N/A	NOT APPLICABLE
BLDG	BUILDING	NEC	NATIONAL ELECTRICAL CODE
BOD	BASIS OF DESIGN	NESC	NATIONAL ELECTRICAL SAFETY CODE
C	CONDUIT	NEU	NEUTRAL
C/B	CIRCUIT BREAKER	PBD	PANELBOARD
CL	CURRENT LIMITING	PWR	POWER
C/L	CENTERLINE	RCPT	RECEPTACLE
CLG	CEILING	REQD	REQUIRED
CKT	CIRCUIT	RM	ROOM
CU	COPPER	RGS	RIGID GALVANIZED STEEL CONDUIT
EC	ELECTRICAL CONTRACTOR	RNC	RIGID NON-METALLIC CONDUIT
EGC	EQUIPMENT GROUNDING CONDUCTOR	RVSS	REDUCED VOLTAGE SOLID STATE
ELEC	ELECTRICAL	SPEC	SPECIFICATION
BUSBAR		TYP	TYPICAL
EF	EXHAUST FAN	UG	UNDERGROUND
EWC	ELECTRIC WATER COOLER	UL	UNDERWRITERS' LABORATORIES
EMT	ELECTRICAL METALLIC TUBING	V	VOLT
EQUIP	EQUIPMENT	VA	VOLT-AMPERES
FMC	FLEXIBLE METAL CONDUIT	VAV	VARIABLE AIR VOLUME UNIT
PANEL		W	WATTS
FU	FUSE	WP	WEATHERPROOF
FLA	FULL LOAD AMPS	XFMR	TRANSFORMER
FLR	FLOOR	Ø	PHASE
GFI	GROUND FAULT INTERRUPTER	Δ	DELTA
G	GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT)		
GC	GENERAL CONTRACTOR		
GND	GROUND		
GEC	GROUNDING ELECTRODE CONDUCTOR		
GRU	GAINESVILLE REGIONAL UTILITIES		
JB	JUNCTION BOX		
KAIC	KILO-AMPERE INTERRUPTING CAPABILITY		
KCMIL	THOUSAND CIRCULAR MILS		
LTG	LIGHTING		
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT		
LV	LOW VOLTAGE		
MAX	MAXIMUM		
MCA	MINIMUM CIRCUIT AMPACITY		
MCM	THOUSAND CIRCULAR MILS		
MIN	MINIMUM		
MISC	MISCELLANEOUS		



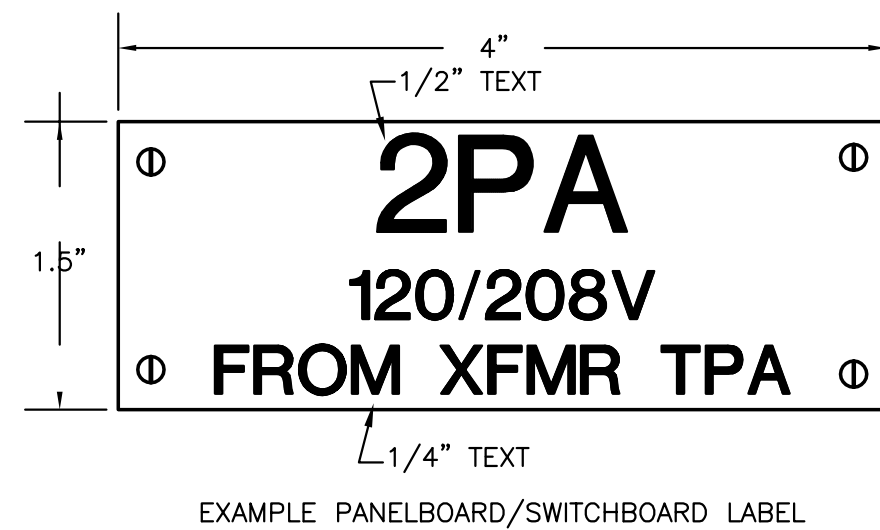
BURIED CONDUIT MARKER DETAIL

NOT TO SCALE



WIRING DEVICE LABEL DETAIL

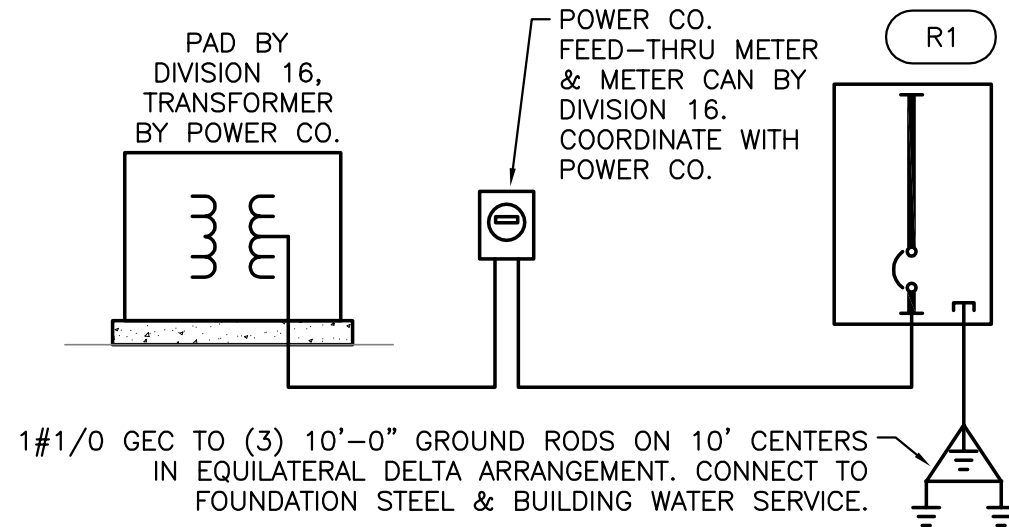
NOT TO SCALE



ENGRAVED PLASTIC TAG WITH BLACK LETTERS ON WHITE BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 4 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS) SCREWS. ADHESIVE BACKING, TAPE, ETC IS NOT ALLOWED. DIMENSIONS ARE MINIMUM, TAG SHALL BE LARGER AS REQUIRED TO FIT APPROPRIATE TEXT.

TYPICAL EQUIPMENT LABELING DETAIL

NOT TO SCALE



SINGLE LINE DIAGRAM

SCALE: NONE

PANELBOARD INFORMATION SCHEDULE

TAG	ENCLOSURE TYPE	MOUNTING STYLE	VOLTAGE	Ø	WIRE	MAIN BKR	IF MLO, SERVING BKR	SERVICE RATED	KAIC RATING	Ø BUS RATING (A)	N BUS RATING	FEEDER		
R1	NEMA 1	SURFACE	208Y120	3	4	400	-	YES	22	400	100%	2 RUNS 4#250	NONE	3°C EA

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

MARK	EQUIPMENT DESCRIPTION	VOLTAGE/Ø	MCA	LOAD	MEANS OF DISCONNECT*	C/B TRIP (AMPS)	Ø	CIRCUIT GROUND	CONDUIT	SERVING PANEL	NOTES
EF-1	EXHAUST FAN #1	120/1	1.3	126V	NOTE 1	20	2#12	#12	1/2" C	R1	1
EF-2	EXHAUST FAN #2	120/1	1.3	126V	NOTE 1	20	2#12	#12	1/2" C	R1	1
EF-3	EXHAUST FAN #3	120/1	3.2	300V	NOTE 1	20	2#12	#12	1/2" C	R1	1
NOTES	*N1=NEMA 1, N3R=NEMA 3R, SS=SAFETY SWITCH, FSS=FUSED SAFETY SWITCH, C/B=SERVING C/B, TS=MANUAL TOGGLE SWITCH, TSM=MOTOR RATED TS FOR FUSED SAFETY SWITCHES THE 1ST # IS FUSE SIZE, THE 2ND # IS FRAME SIZE (FOR EXAMPLE: 90/100/3 N1,FSS INDICATES A 3 POLE 100A FUSED SAFETY SWITCH WITH 90A FUSES) 1. DISCONNECT INTEGRAL TO EQUIPMENT BY DIVISION 15.										

PANELBOARD SCHEDULE

MARK: R1													
CKT #	LOAD DESCRIPTION	BREAKER P	TRIP	PHASE (kVA)			PHASE (kVA)			BREAKER P	TRIP	LOAD DESCRIPTION	CKT #
1	LIGHTS & EF-1 & EF-2	1	20	0.6			1.3			20	2	BASKETBALL COURT LIGHTS	2
3	RECEPTACLES	1	20		0.5			1.3					4
5	RECEPTACLES	1	20			0.7			1.3	20	2	BASKETBALL COURT LIGHTS	6
7	ELECTRIC HAND DRYER	1	20	-			1.3						8
9	ELECTRIC HAND DRYER	1	20	-				1.3		20	2	BASKETBALL COURT LIGHTS	10
11	AUTOMATIC DOOR CONTROLLER	1	20	-					1.3				12
13	EXTERIOR LIGHTS	1	20	-			1.3			20	2	BASKETBALL COURT LIGHTS	14
15	AUTOMATIC SINK & TOILET CONTROLLER	1	20	-				1.3					16
17	EF-3	1	20	-					7.6			FUTURE FOUNTAIN & EQUIPMENT	18
19	SPARE	1	20	-			7.6			100	3		20
21	SPARE	1	20	-				7.6					22
23	SPARE	1	20	-					16.0			FUTURE FIELD LIGHTS	24
25	SPARE	1	20	-			16.0			200	3		26
27	SPARE	1	20	-				16.0					28
29	SPARE	1	20	-					-	-	1	SPACE ONLY	30
31	SPARE	1	20	-					-	-	1	SPACE ONLY	32
33	SPARE	1	20	-					-	-	1	SPACE ONLY	34
35	SPARE	1	20	-					-	-	1	SPACE ONLY	36
37	SPACE ONLY	1	-	-					-	-	1	SPACE ONLY	38
39	SPACE ONLY	1	-	-					-	-	1	SPACE ONLY	40
41	SPACE ONLY	1	-	-					-	-	1	SPACE ONLY	42

TOTAL (kVA) ØA 28.1 ØB 28.0 ØC 26.9

TOTAL CONNECTED LOAD (kVA) 83.0

HIGH PHASE (AMPS) 234.2

TOTAL LOAD (AMPS) 230.4

CREATE A DIRECTORY TO INDICATE INSTALLED CIRCUIT LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC.) AND ROOM NUMBERS SERVED FOR EVERY BRANCH CIRCUIT.

ELECTRICAL LOAD CALCULATIONS

LIGHTING	=	488 VA
RECEPTACLES 3 @ 180VA EACH	=	540 VA
EQUIPMENT	=	4,100 VA
BASKETBALL COURT LIGHTING	=	10,400 VA
FUTURE FIELD LIGHTING	=	52,500 VA
FUTURE EQUIPMENT (FOUNTAIN PUMPS)	=	22,800 VA
IRRIGATION PUMP	=	9,103 VA
TOTAL LOAD ADDED	=	99,931 VA

99,931 VA = 278 A

208 x 1.73

x 1.25

348 A

A 400A 208Y120V 3Ø SERVICE WILL BE PROVIDED

LIGHTING FIXTURE SCHEDULE

TAG	MANUFACTURER AND CATALOG NUMBER	LAMPS			TOTAL WATTS	VOLTAGE	MOUNTING	NOTES
FV	DAY-BRITE DWAE-22B-UNV COLUMBIA, WILLIAMS METALUX	28wT5	2-LAMP	28W	60W	120	SURFACE	PROVIDE RAPID START ELECTRONIC BALLAST NON-CORROSIVE FRP HOUSING, WET LOCATION.
F2W	DAY-BRITE CAN22B-UNV COLUMBIA, WILLIAMS METALUX	28wT5 41K	2-LAMP	28W	60W	120	SURFACE	PROVIDE RAPID START ELECTRONIC BALLAST
WF	NITE BRITES # CSH-42C-C-DT	CFM42W G24q141K	1-LAMP	42W	42W	120	WALL AS HIGH AS POSSIBLE	UL LISTED FOR WET LOCATION INJECTION MOLDED POLYCARBONATE LENS
NOTES	SEE SPECIFICATIONS FOR APPROVED BALLAST MANUFACTURERS. FIXTURES WITH HALF FILLED CENTERS SHALL BE PROVIDED WITH A BATTERY PACK. SEE PLANS FOR QUANTITY. APPROVAL SUBMITTALS FOR MANUFACTURERS NOT LISTED MUST BE SUBMITTED TO THE ENGINEER 14 DAYS PRIOR TO BID DATE FOR REVIEW. MANUFACTURERS NOT LISTED WILL NOT BE ACCEPTED UNLESS APPROVED BY ADDENDUM.							

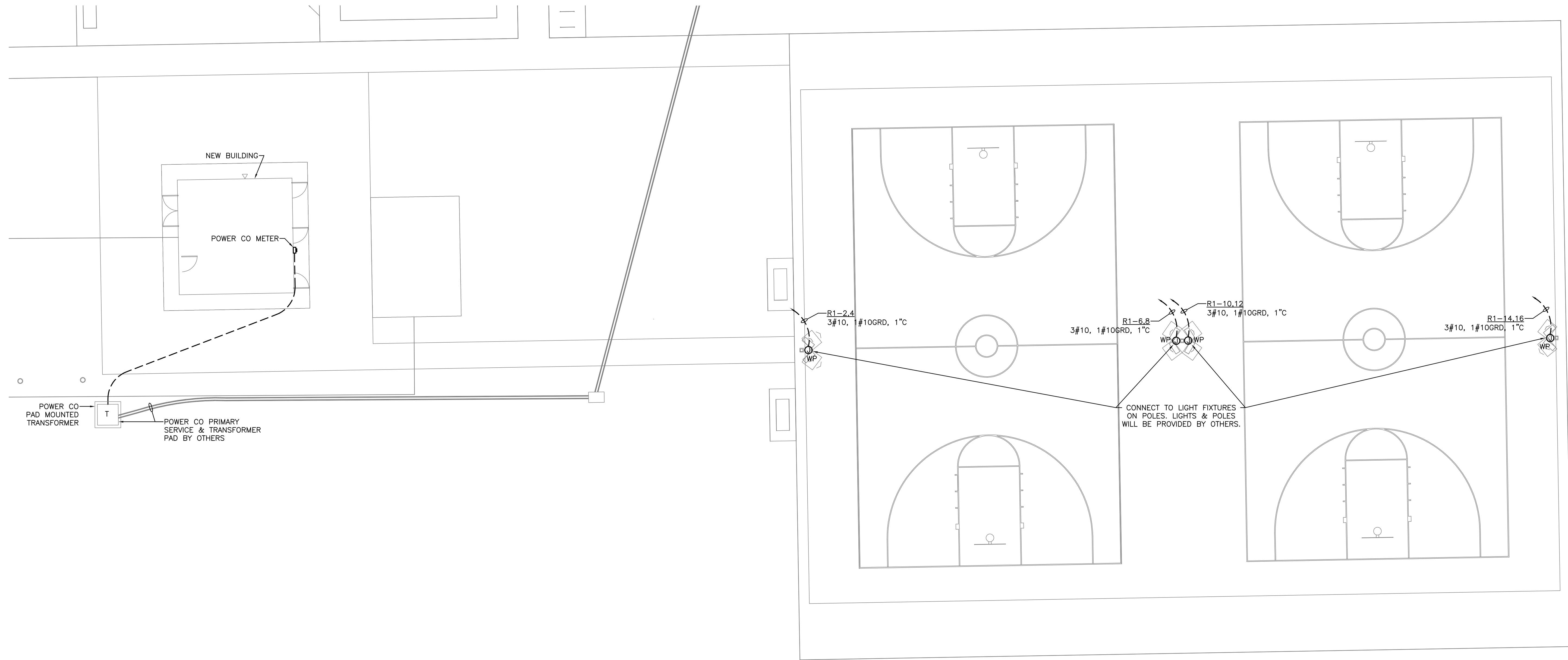
BID DOCUMENTS

MOSES & ASSOCIATES
MOSES ■ LEBO ■ AKIN ■ BROOKS ■ FRASIER

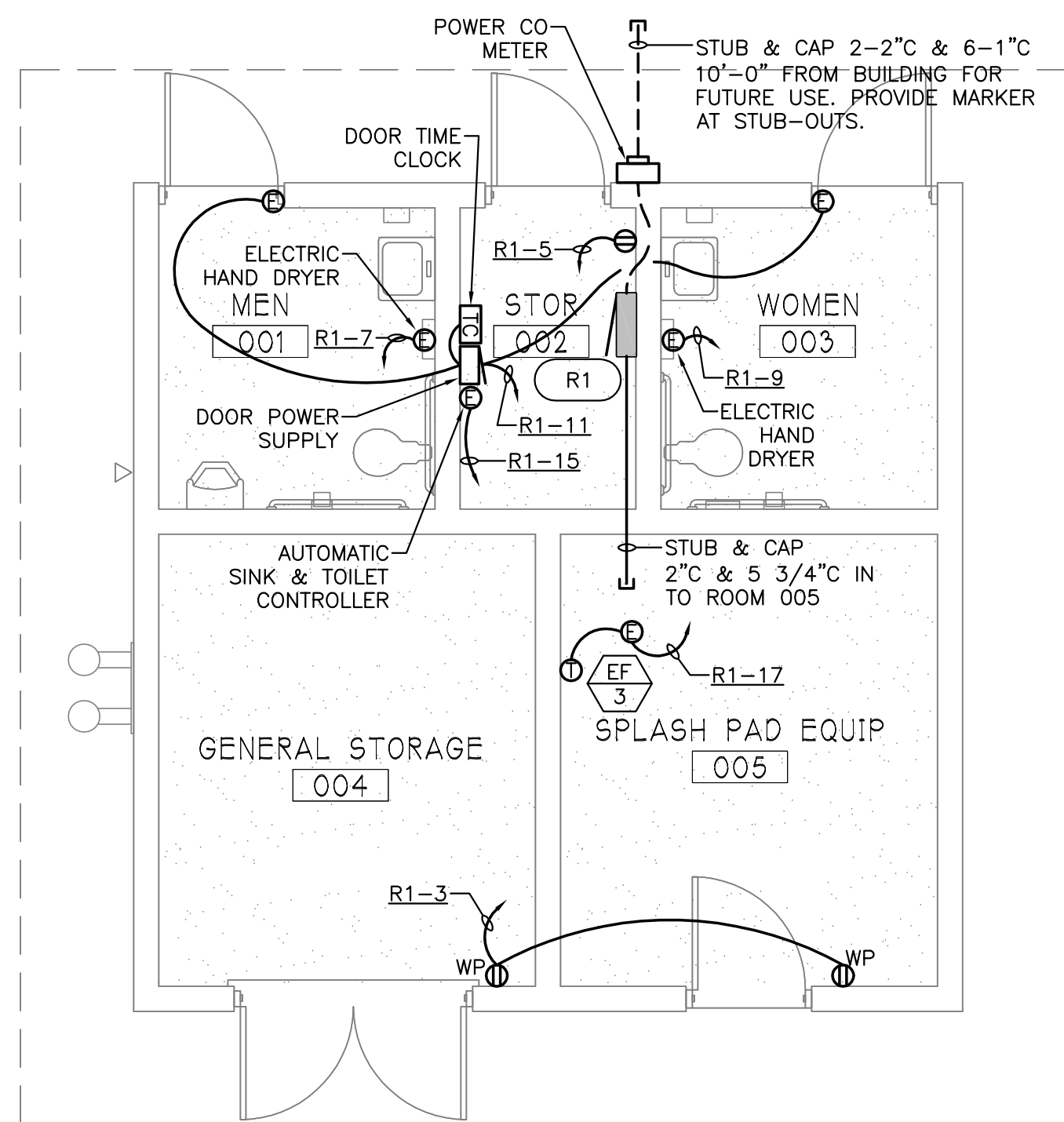
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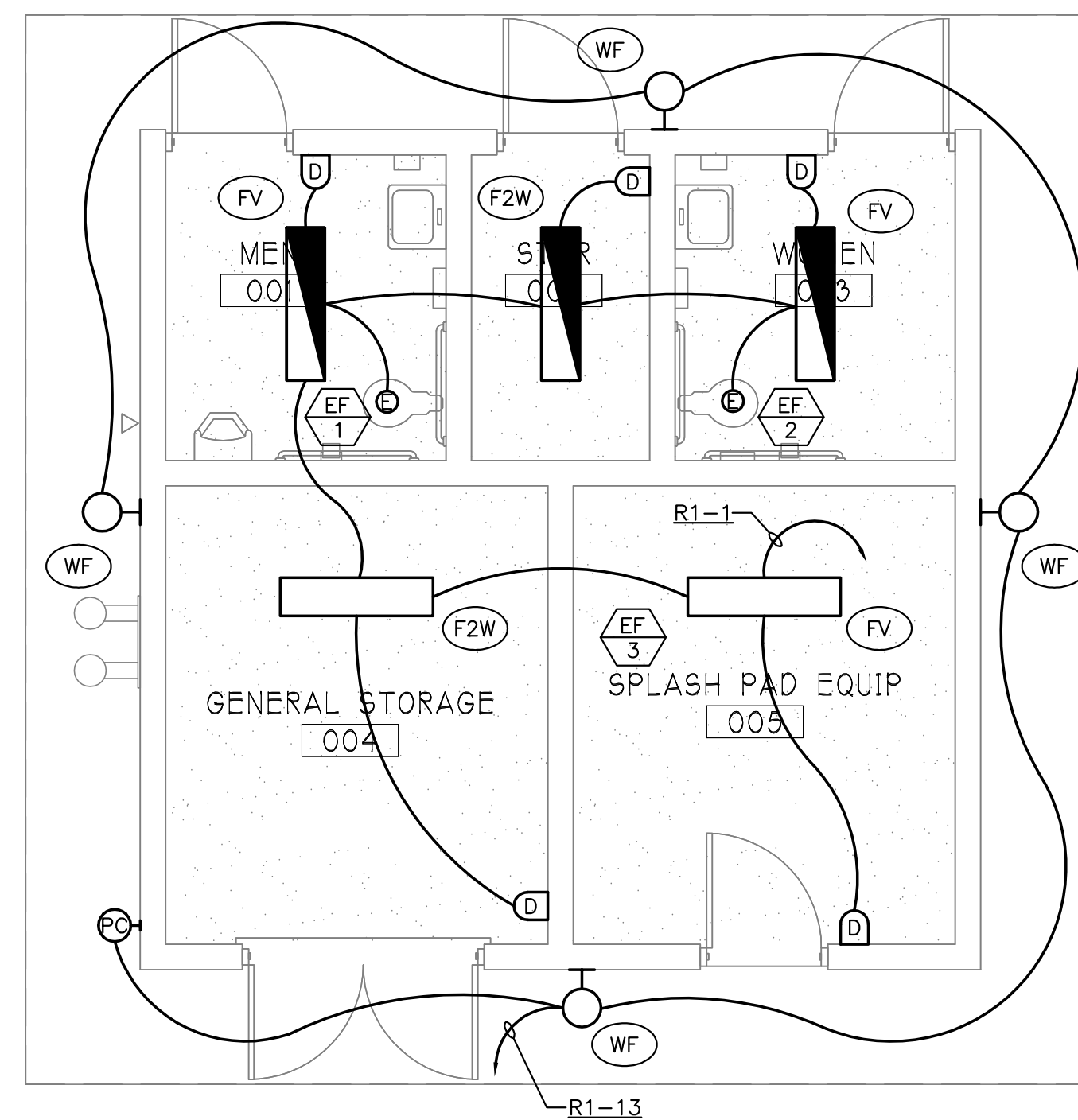
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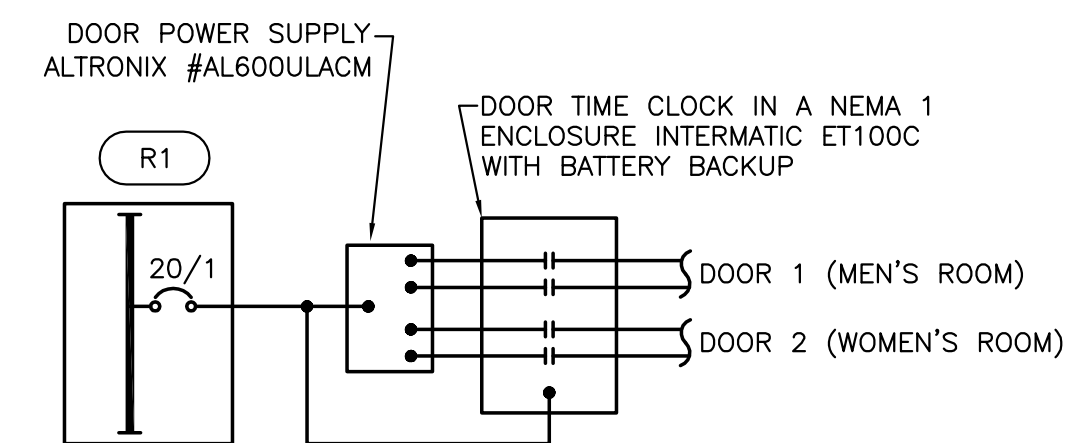
SITE PLAN - ELECTRICAL
SCALE: 1" = 10'-0"



FIRST FLOOR PLAN - POWER
SCALE: 1/4" = 1'-0"



FIRST FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"



ELECTRIC DOOR LOCK WIRING DIAGRAM
SCALE: NONE