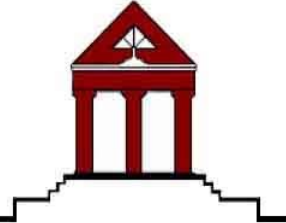
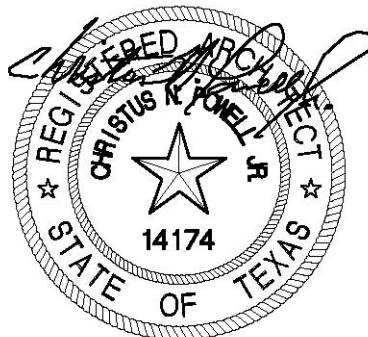


ARCHI*TECHNICS/3, INC.



5555 West Loop South, Ste. 400 * Bellaire, Texas 77401 *Phone 713-868-0088 *Fax 713-468-2613
Architecture * Urban Design * Interiors * Construction Management * Program Management



Date: 05/28/2013

ADDENDUM No. 3

For

HCC South Campus Recreational Complex

HOUSTON COMMUNITY COLLEGE

May 28, 2013

The following items modify the plans and specifications and shall become a part of the contract documents.

GENERAL DATA

- A. Refer to the attached PPG Manufacture's Data Sheet confirming the scheduled Insulating Glass Units with Laminated Outdoor Glass availability to meet the required (SHGC) performance Solar Values.

ITEM NO.1

A. Add the following Revised Drawings to Contract Documents:

a. Architecture: G-0.1- Code Analysis and Overall Life Safety Plan

- A-1.0 – Overall Floor Plan
- A-1.1 – Overall Clerestory Plan
- A-1.2 – Overall Detail Map Floor Plan
- A-3.0 - Roof Plan
- A-3.1 – Roof Details
- A-4.0 – Exterior Elevations
- A-4.1 – Exterior Elevations
- A-4.2 - Exterior Elevations
- A-5.0 - Building Sections
- A-5.1 - Building Sections
- A-6.0 - Wall Sections
- A-6.1 - Wall Sections
- A-6.3 - Wall Sections
- A-8.0 - Interior Elevations

- b. Civil: C-4.01 – Utility Layout
C-6.00 - Grading Plan
C-7.00 - Grading Plan
C-10.00 – Storm Sewer Layout

- c. Landscape: L2.02- Plaza Enlarged Layout Plan
L3.03- Backstop & Dugout Details I
L3.06- Backstop & Dugout Details II
L5.01- Irrigation Mainline Diagram
L5.02- Irrigation Plan 1 of 3
L5.03- Irrigation Plan 2 of 3
L5.04- Irrigation Plan 3 of 3
L8.01- Planting Plan 1 of 2
L8.02- Planting Plan 2 of 2
- ESP1.0- Overall Electrical Site Plan
E2.0- Specifications /Riser
E3.0- One Line Diagram/ Schedules
E4.0- Electrical details
E5.0- Electrical Schedules
E6.0- Electrical Notes
E7.0-Light Poles and Lighting Notes
E8.0-Controller Specifications and Loads

d. Structural: S1.10- Foundation Plan

ITEM NO.2

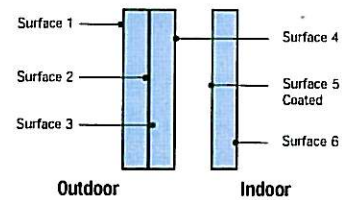
A. Add the following Specification Section to Contract Documents:

a. Architecture: Specification Section- 10 11 40 – Slotted Panel System

End of Addendum #3

1 5/16" Insulating Glass Units with Laminated Outdoor Glass and Solarban® 60 Coated Glass Indoor Lite Laminated Glass Performance

Outdoor Glass	SOLARBAN® 60 – thicknesses as shown below											
	Transmittance			Reflectance		U-Value (Imperial)		K-Value (Metric)		Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time	Winter Night-time	Summer Day-time			
1/4" Glass as Specified Below + 0.060" Clear PVB + 1/4" Clear Glass + 1/2" Airspace + 1/4" Solarban 60 (6) Clear Glass (Except Starphire - all Lites, Starphire glass)												
PPG Clear	0	68	30	12	18	0.28	0.27	1.59	1.53	0.48	0.41	1.65
STARPHIRE®	0	74	36	12	36	0.28	0.27	1.59	1.53	0.53	0.46	1.62
ATLANTICA™	0	51	19	9	6	0.29	0.27	1.65	1.53	0.35	0.30	1.70
AZURIA™	0	52	19	9	6	0.29	0.27	1.65	1.53	0.35	0.30	1.73
CARIBIA®	0	51	19	9	6	0.29	0.27	1.65	1.53	0.34	0.29	1.76
GRAYLITE®	0	10	7	5	7	0.29	0.27	1.65	1.53	0.20	0.17	0.59
OPTIGRAY®	0	18	8	5	5	0.29	0.27	1.65	1.53	0.21	0.18	1.00
SOLARBRONZE®	0	40	18	7	10	0.29	0.27	1.65	1.53	0.35	0.30	1.33
SOLARGRAY®	0	34	16	7	8	0.29	0.27	1.65	1.53	0.31	0.27	1.26
SOLEXIA™	0	58	23	11	8	0.29	0.27	1.65	1.53	0.41	0.35	1.66
SOLARCOOL® AZURIA™ (2)	0	24	8	16	9	0.29	0.27	1.65	1.53	0.21	0.18	1.33
SOLARCOOL® CARIBIA™ (2)	0	24	8	16	8	0.29	0.27	1.65	1.53	0.21	0.18	1.33
SOLARCOOL® SOLARBRONZE® (2)	0	19	9	12	12	0.29	0.27	1.65	1.53	0.23	0.19	0.98
SOLARCOOL® SOLARGRAY® (2)	0	16	8	10	10	0.29	0.27	1.65	1.53	0.21	0.18	0.89
SOLARCOOL® GRAYLITE® (2)	0	5	4	5	7	0.29	0.27	1.65	1.53	0.16	0.14	0.36

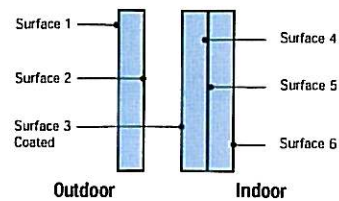


1 5/16" Insulating Glass Units with Monolithic Outdoor Glass and Laminated Solarban® 60 Coated Glass Indoor Lite

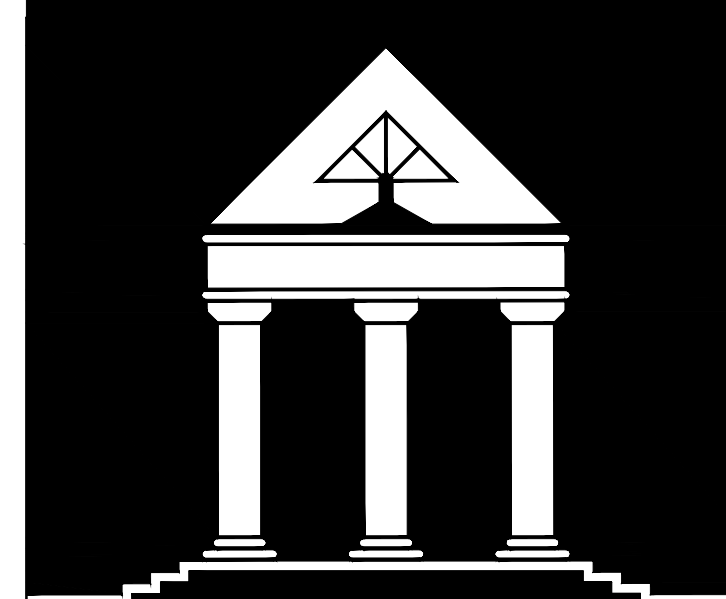
Outdoor Glass	SOLARBAN® 60 – thicknesses as shown below											
	Transmittance			Reflectance		U-Value (Imperial)		K-Value (Metric)		Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time	Winter Night-time	Summer Day-time			
1/4" Glass as Specified Below + 1/2" Airspace + 1/4" Solarban 60 (6) Clear Glass + 0.060" Clear PVB + 1/4" Clear Glass (Except Starphire - all Lites, Starphire glass)												
PPG Clear	0	68	30	12	31	0.28	0.27	1.59	1.53	0.51	0.44	1.55
STARPHIRE®	0	72	34	12	45	0.28	0.27	1.59	1.53	0.54	0.46	1.55
ATLANTICA™	0	51	19	10	8	0.29	0.27	1.65	1.53	0.35	0.30	1.70
AZURIA™	0	52	19	9	7	0.29	0.27	1.65	1.53	0.35	0.31	1.70
CARIBIA®	0	51	19	9	7	0.29	0.27	1.65	1.53	0.35	0.30	1.68
GRAYLITE®	0	10	7	5	10	0.29	0.27	1.65	1.53	0.20	0.17	0.57
OPTIGRAY®	0	18	8	5	6	0.29	0.27	1.65	1.53	0.21	0.18	1.00
SOLARBRONZE®	0	40	18	8	16	0.29	0.27	1.65	1.53	0.36	0.32	1.27
SOLARGRAY®	0	34	16	7	13	0.29	0.27	1.65	1.53	0.33	0.28	1.21
SOLEXIA™	0	58	23	11	11	0.29	0.27	1.65	1.53	0.42	0.36	1.61
SOLARCOOL® AZURIA™ (2)	0	20	7	19	10	0.29	0.27	1.65	1.53	0.19	0.16	1.25
SOLARCOOL® CARIBIA™ (2)	0	20	7	19	10	0.29	0.27	1.65	1.53	0.19	0.16	1.25
SOLARCOOL® SOLARBRONZE® (2)	0	16	8	14	18	0.29	0.27	1.65	1.53	0.21	0.18	0.89
SOLARCOOL® SOLARGRAY® (2)	0	13	7	11	14	0.29	0.27	1.65	1.53	0.19	0.17	0.78
SOLARCOOL® GRAYLITE® (2)	0	4	3	5	10	0.29	0.27	1.65	1.53	0.15	0.13	0.31

Performance data simulated using LBL Optics 5 and Window 5.2. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit www.ppgglazing.com or request our Architectural Glass Catalog.

For more data on laminated Solarban 60 glass, visit www.ppgglazing.com or call 1-888-PPG-IDEA.



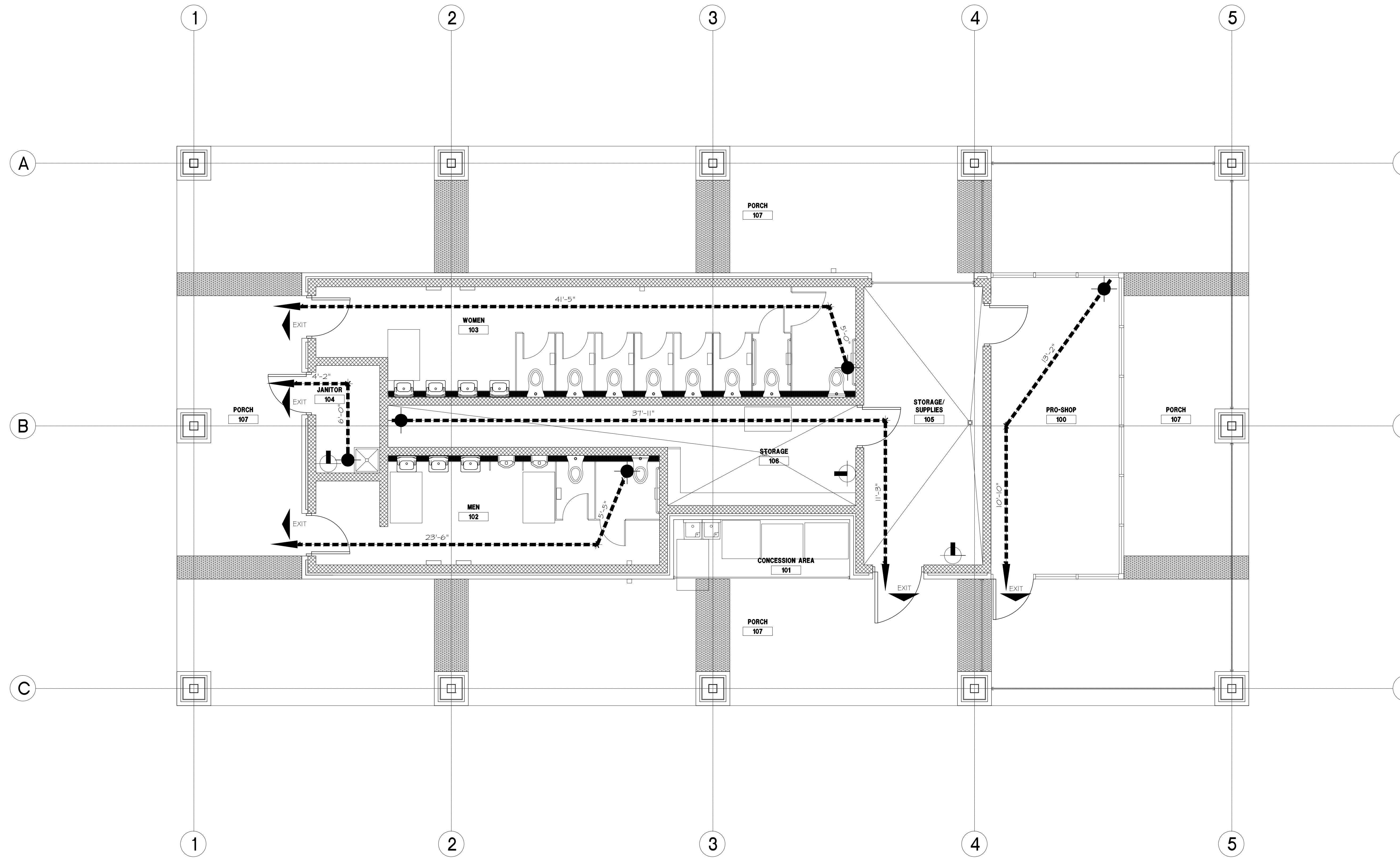
- I. Applicable
 - 2006 International Bldg Code
 - 2006 International Fire Code
 - Texas Accessibility Standards (TAS)
 - II. Occupancy Classifications Section 508.3.1 Accessory Occupancies
 - a. Incidental used area to A-5 (viewing outdoor activities)
 - III. Type of Construction
 - Type 11-B
- Minimum required plumbing fixtures:
 Per section 1004.7 fixed seating/bleachers
 Fixed seating with no arms = 18" of seating length per occupant
 3 occupants per building
 Business area 233 sq. /ft. /100 gross=2.33
 Storage= 242/300 gross=1
- 363 occupants per bleachers/fixed seating
 Total 368 occupants
 Group A-5 (OUTDOOR ACTIVITIES):
 Female occupants 183
 Water closets - 1 per 40 for the first 1500= 5 required, 8 provided
 Lavatories - 1 per 150= 2 required, 4 provided
 Drinking fountain = 1 required, 2 provided
 Group a-5 (outdoor activities):
 Male occupants 183
 Water closets - 1 per 75 for the first 1500= 183/75= 3 required, 4 provided
 Lavatories - 1 per 200= 1 required, 3 provided
 Drinking fountain = 1 required
 1 service sink



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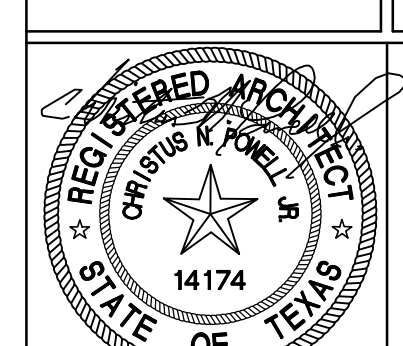


CODE ANALYSIS

- TWO HOUR (2) RATED WALL CONSTRUCTION
- ONE HOUR (1) RATED WALL CONSTRUCTION
- > INDICATES EMERGENCY EXIT ROUTE
- INDICATES POINT OF LOCATION
- ▲ INDICATES DIRECTION OF EXIT TRAVEL
- ⊕ (FE-K) WALL MOUNTED FIRE EXTINGUISHER TYPE K (FE-K) OR UNITS TO MEET CURRENT ANSI/UL STANDARDS III REQUIREMENTS
- ⊕ (FE) WALL MOUNTED FIRE EXTINGUISHER (FE) TYPE ABC, 1QB UNITS TO MEET CURRENT ANSI/UL STANDARDS III REQUIREMENTS, REFERENCE SPECIFICATIONS FOR MANUFACTURE
- DIST TRAVEL DISTANCE TO AN EXIT NOT TO EXCEED 150 FEET
- (SRFEC) SEMI - RECESSED FIRE EXTINGUISHER CABINET (SRFEC) WITH CODE COMPLIANT FIRE EXTINGUISHER, REFERENCE SPECIFICATIONS FOR MANUFACTURER
- (KEY BX) SEMI - RECESSED KEY BOX FIRE DEPARTMENT

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HOUSTON, TEXAS 77051



Date: 4/8/2013

NEW CONSTRUCTION	
100% DESIGN DEVELOPMENT	7/ 27 / 2012
90% CD	3/ 13 / 2013
ISSUED FOR PERMIT AND BID	4/ 8 / 2013
ADDENDUM #3	5 / 28 /2013
ISSUE FOR PERMIT REVISIONS	5 / 28 /2013

SHEET CONTENTS
CODE ANALYSIS AND
OVERALL LIFE SAFETY PLAN

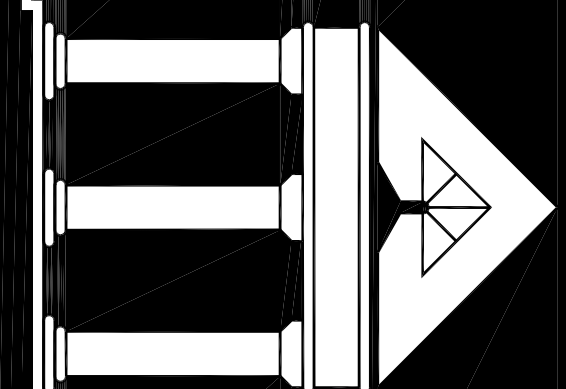
OVERALL LIFE SAFETY PLAN

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

LEGEND

G-0.1	DATE:	
	DRAWN BY:	
	CHECKED BY:	
	FILE No.	10500

① TRUNCATED DOWNER PAVERS, SEE LANDSCAPE
 ② MOSE BRIM, SEE MEP

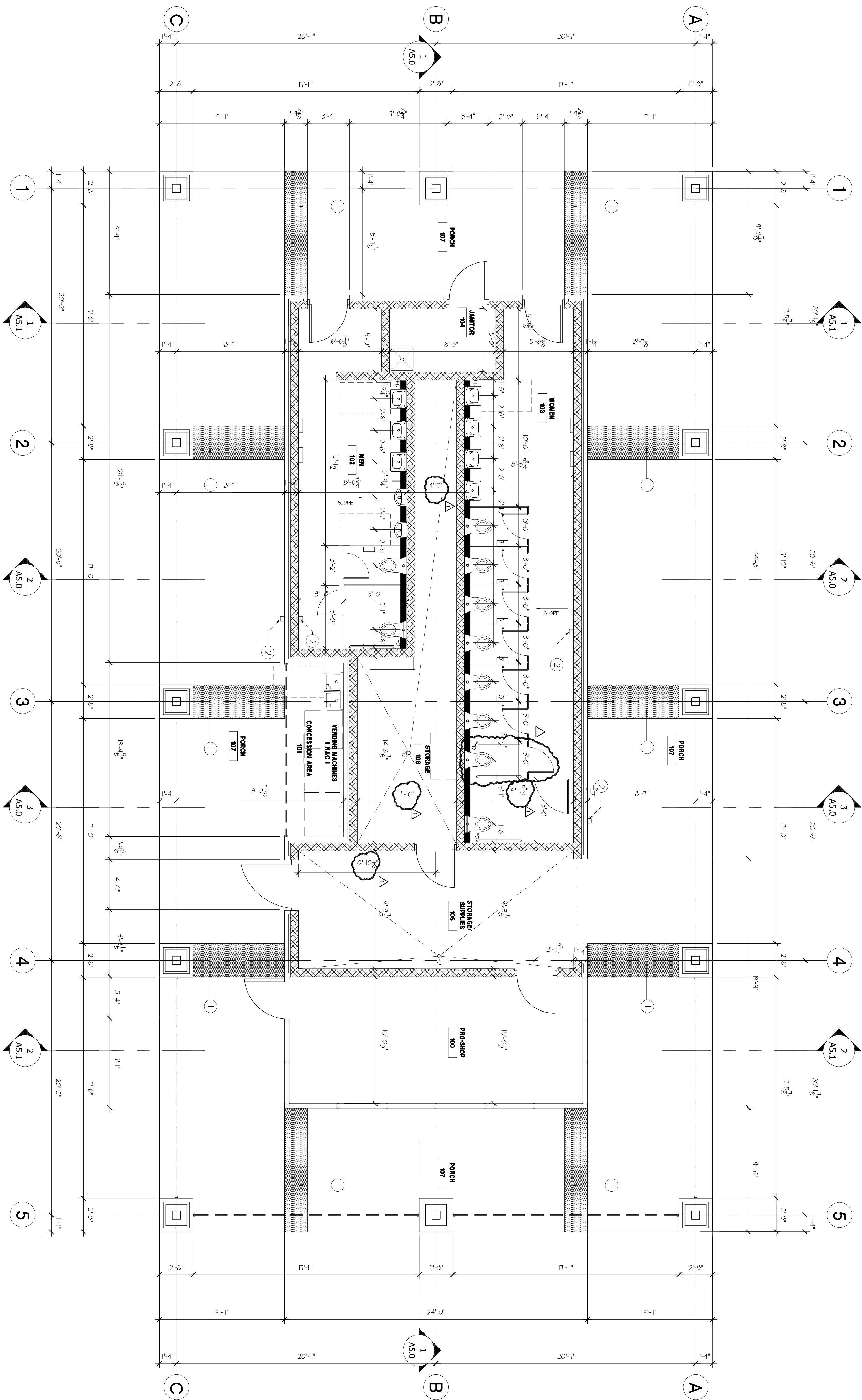


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NOTES TO DRAWING

1. DO NOT SCALE DRAWINGS. CONTRACTOR TO REPORT ANY DISCREPANCIES OR OMISSIONS PRIOR TO START WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING CONSTRUCTION.
2. GRID LINES ARE TO CENTERLINE OF STRUCTURAL COLUMN UNLESS NOTED OTHERWISE.
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5. ALL EXTERIOR DIMENSIONS ARE TO FACE OF MASONRY UNLESS NOTED OTHERWISE.
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11. REFER TO SHEET A-90 FOR PARTITION TYPES
12. REFER TO SHEET A-100 FOR FINISH SCHEDULE AND PLANS FOR ALL FINISHES UNLESS OTHERWISE NOTICED.
13. REFER TO 6-0.3 FOR ACCESSIBLE MOUNTING HEIGHTS FOR PLUMBING FIXTURES AND TOILET ACCESSORIES.
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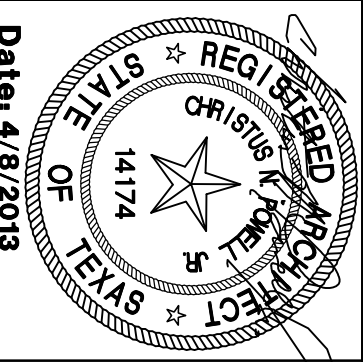
FLOOR PLAN

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

1

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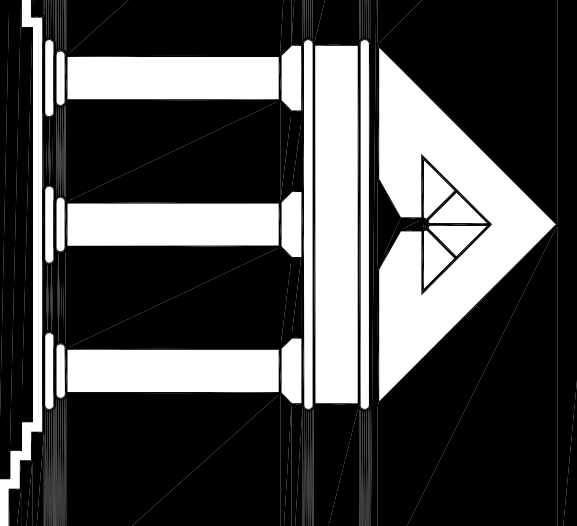
Date: 4/8/2013

NEW CONSTRUCTION	Date:
100% DESIGN DEVELOPMENT	7/27/2012
REV. CD	3/13/2013
ISSUED FOR PERMIT AND BD	4/8/2013
ADDENDUM #3	5/28/2013
ISSUE FOR PERMIT REVISIONS	5/28/2013

OVERALL FLOOR PLAN

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 BHT. OF FILE NO. 10500

① TRUNCATED DOWNS PAVERS, SEE LANDSCAPE
 ② HOSE BIBB, SEE MEP

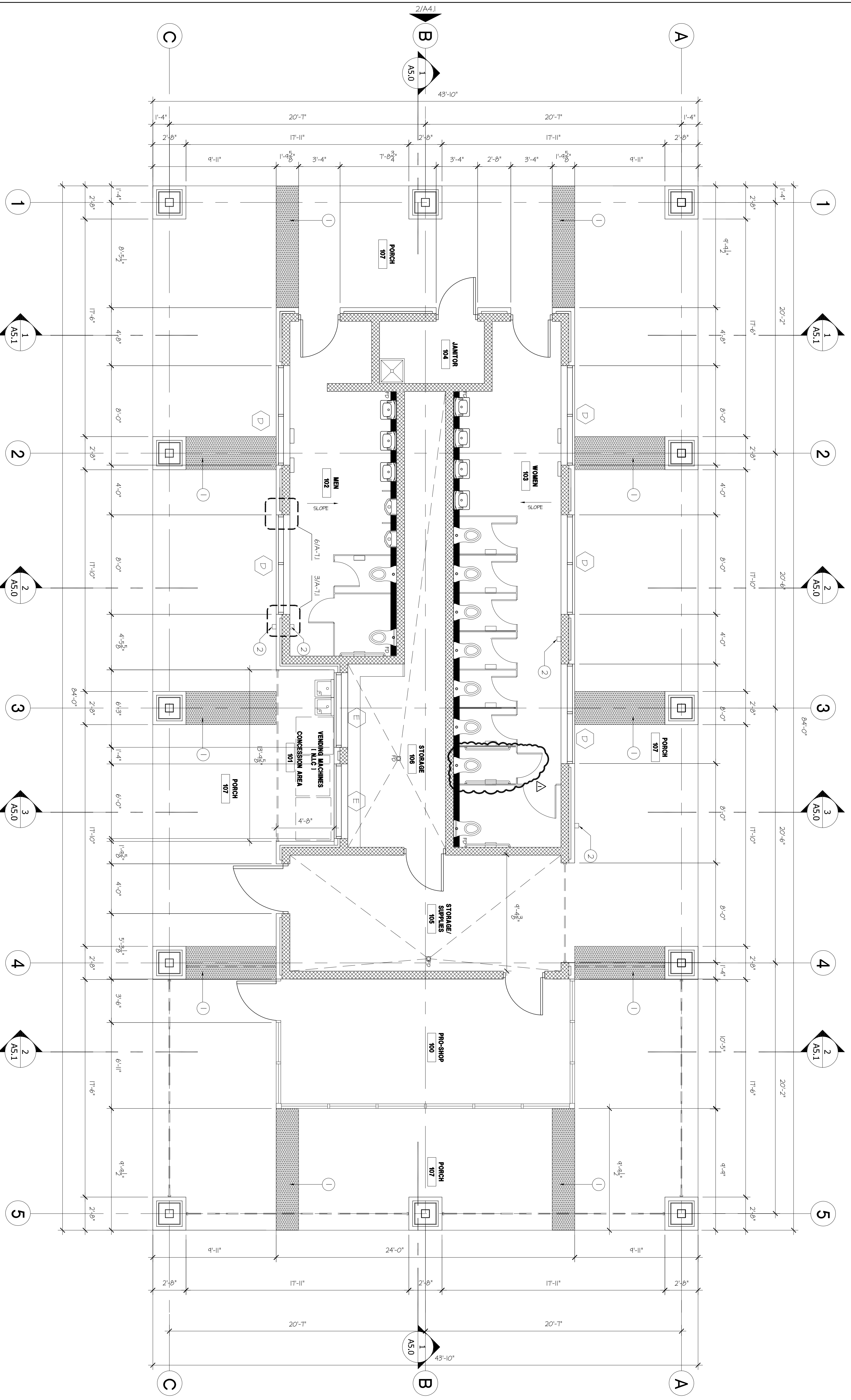


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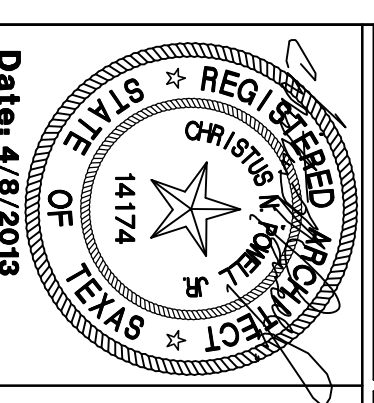
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Date: 4/8/2013

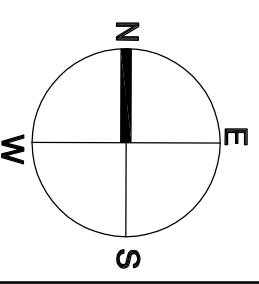
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	7/27/2012	3/13/2013	4/8/2013	5/28/2013
			5/28/2013	5/28/2013

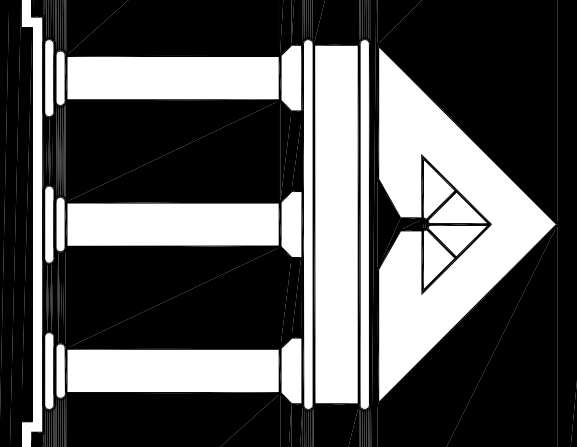
OVERALL CLERESTORY FLOOR PLAN

A-1.1 DRAWN BY:
 CHECKED BY:
 DATE:
 FILE NO. 10500

CLERESTORY PLAN

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



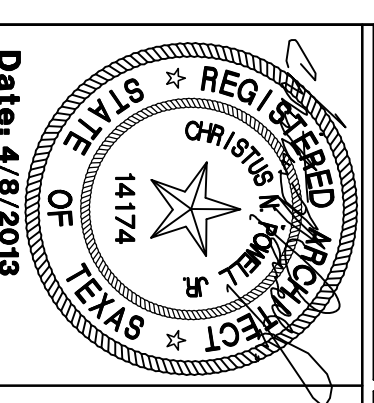


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Date: 4/8/2013

NEW CONSTRUCTION

100% DESIGN DEVELOPMENT 7/27/2012

ISSUED FOR PERMIT AND BID 3/13/2013

ADDITION #3 5/28/2013

ISSUE FOR PERMIT REVISIONS 5/28/2013

OVERALL DETAIL MAP
 FLOOR PLAN

DATE: A-1.2
 DRAWN BY:
 CHECKED BY:
 FILE NO. 10500

- ① TRUNCATED POWER PANS, SEE LANDSCAPE
- ② HOSE BIBB, SEE MEP

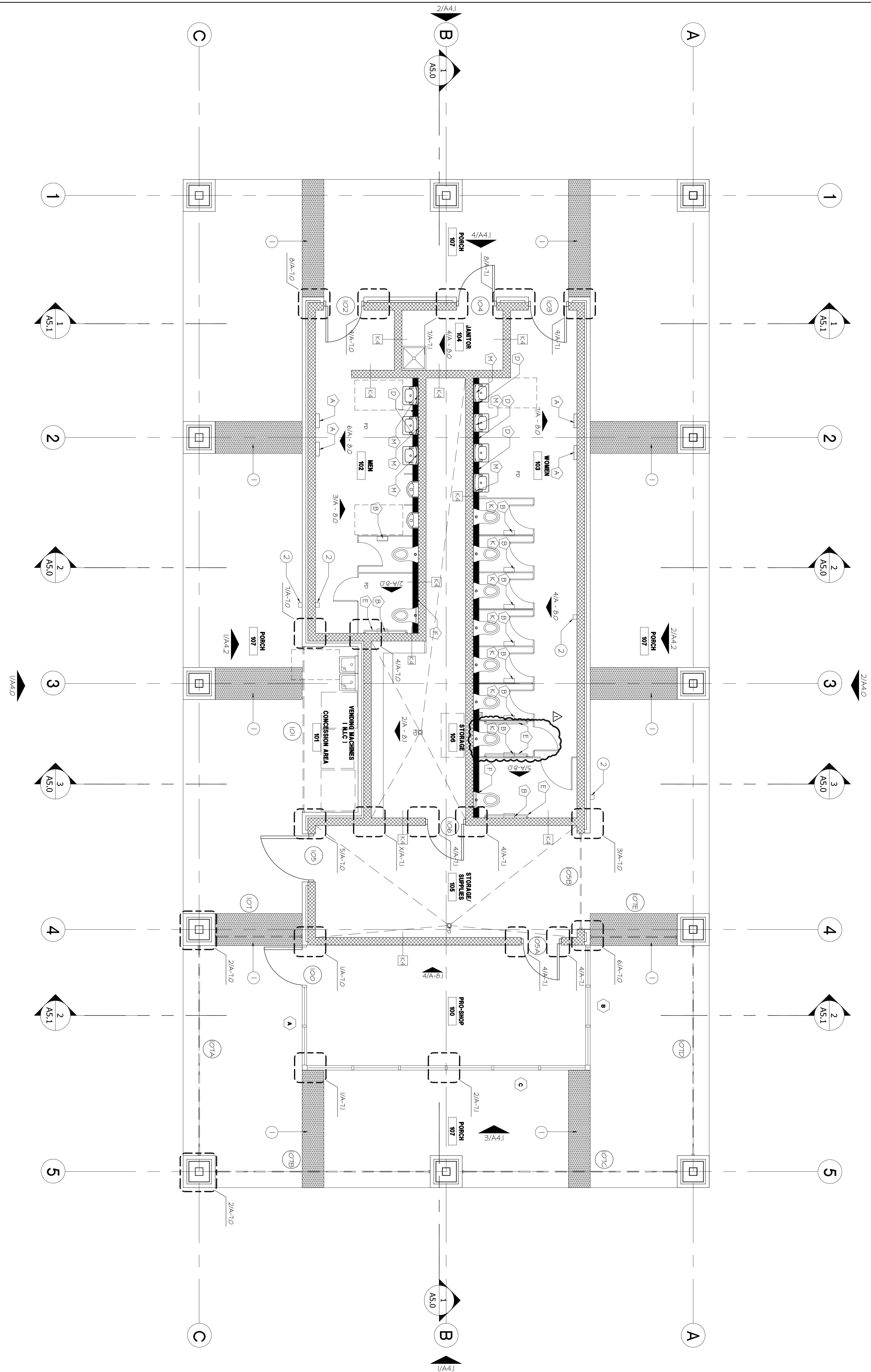
NOTES TO DRAWING

MARK DESCRIPTION	MFR./MODEL #	REMARKS
(A) SURFACE MOUNTED AUTOMATIC HAND DRYER 48" A.T.F.	BOBERICK B-7128 115v	SURFACE-MOUNTED
(B) TOILET PAPER DISPENSER	KIMBERLY-CLARK-99601	SURFACE-MOUNTED
(C) HORIZONTAL BABY CHANGING STATION	KOALA CARE-K8200-00	SURFACE-MOUNTED
(D) WALL-MOUNTED SOAP DISPENSER	BOBERICK B-2111	SURFACE-MOUNTED
(E) 42" GRAB BAR W/ SATIN FINISH	BOBERICK B-6866	INSTALL TO SUPPORT CONCEALED MOUNTING
(F) 36" GRAB BAR W/ SATIN FINISH	BOBERICK B-6866	INSTALL TO SUPPORT CONCEALED MOUNTING
(G) COAT HOOK	BOBERICK B-223 X 36	INSTALL 2 IN. AWAY FROM TOP OF SLAB
(H) FRAMED MIRROR 24"W X 36"H	BOBERICK B-2290 24x6	SURFACE-MOUNTED
(I) SURFACE-MOUNTED SANITARY WASHBIN DISPENSER	BOBERICK B-270	INSTALL AT EACH WOMEN TOILET
(J) HOSPICO NAPRIN/TAMPON DISPENSER	HOS 1-25	WOMEN'S ONLY
(K) FRAMED MIRROR 18"W X 30"H	BOBERICK B-2290 18x30	SURFACE-MOUNTED

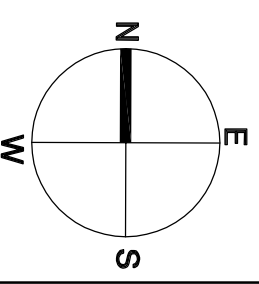
TOILET ACCESSORY SCHEDULE

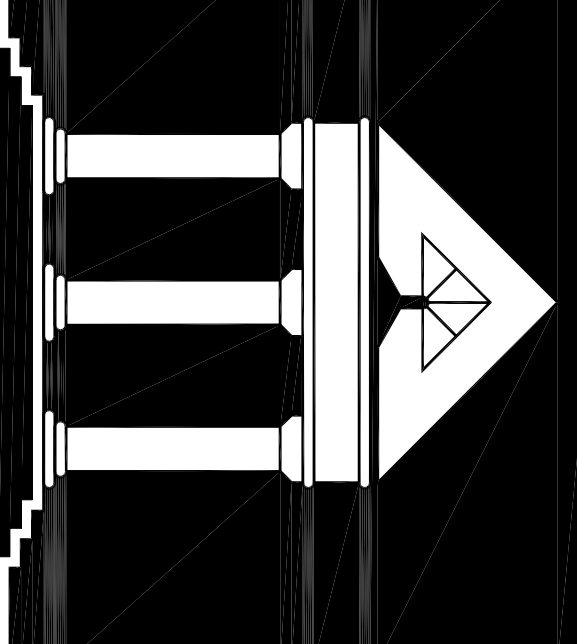
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FLOOR PLAN



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



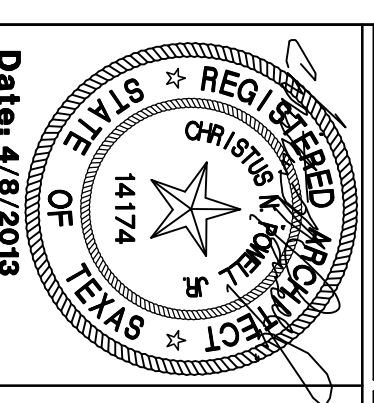


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Date: 4/8/2013

NEW CONSTRUCTION	
100% DESIGN DEVELOPMENT	7/27/2012
REV. CD	3/13/2013
ISSUED FOR PERMIT AND BD	4/8/2013
ADDENDUM #3	5/28/2013
ISSUE FOR PERMIT REVISIONS	6/28/2013

DATE	DRAWN BY
A-3.0	
CHECKED BY	
SHT. OF	FILE NO. 10500

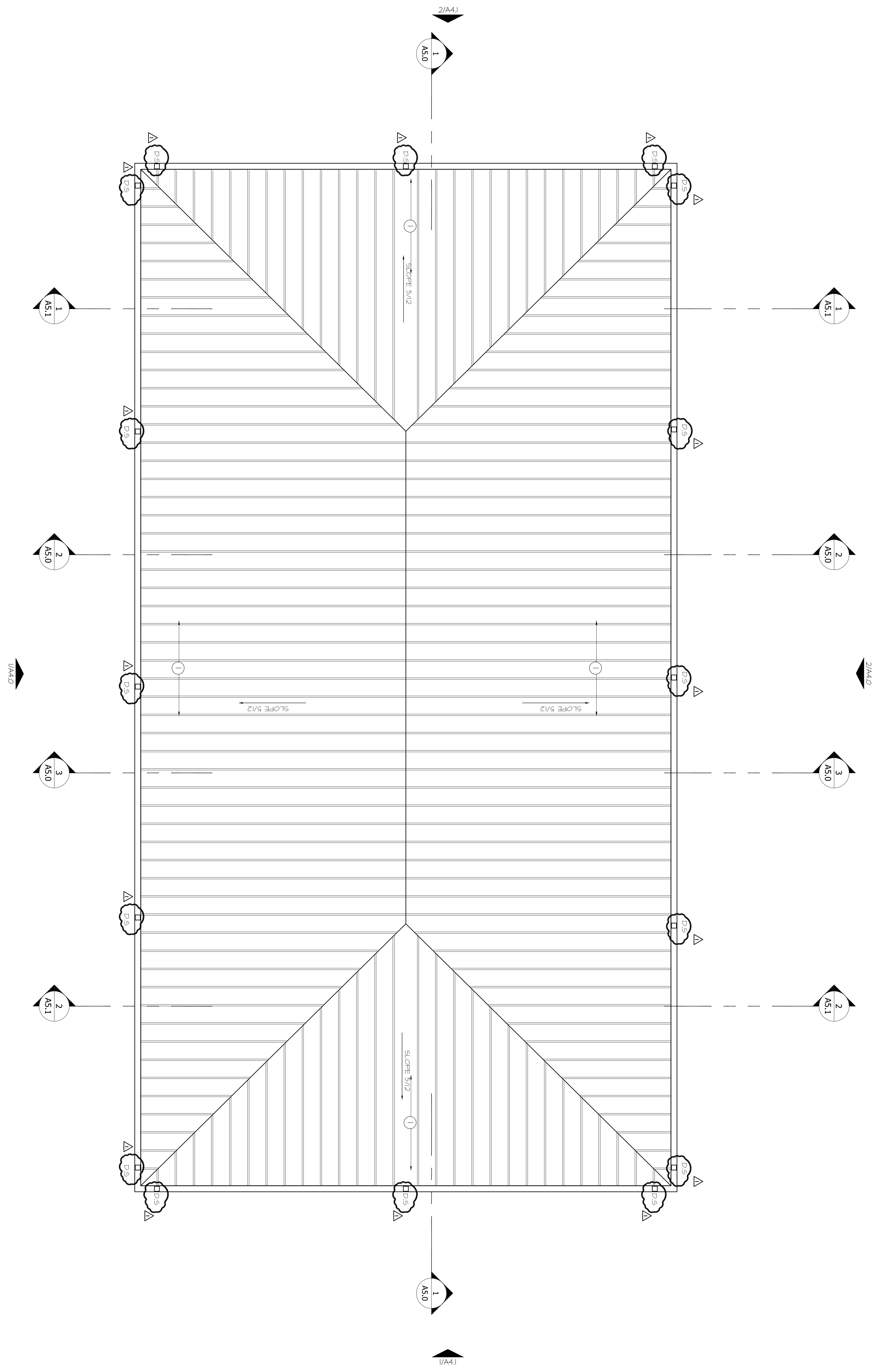
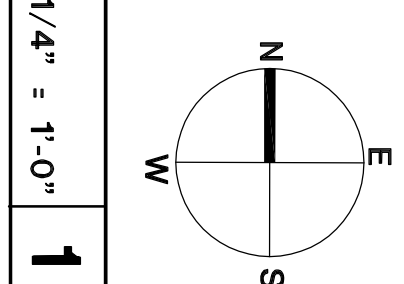
- ① STANDING SEAM METAL ROOF
 MERO ULTRA-DEK OR EQUAL
- ② 5 1/2" x 5 1/2" ROY ROOF GUTTER
 WITH DOWNSPOUT (KNAB 800 FINISH)

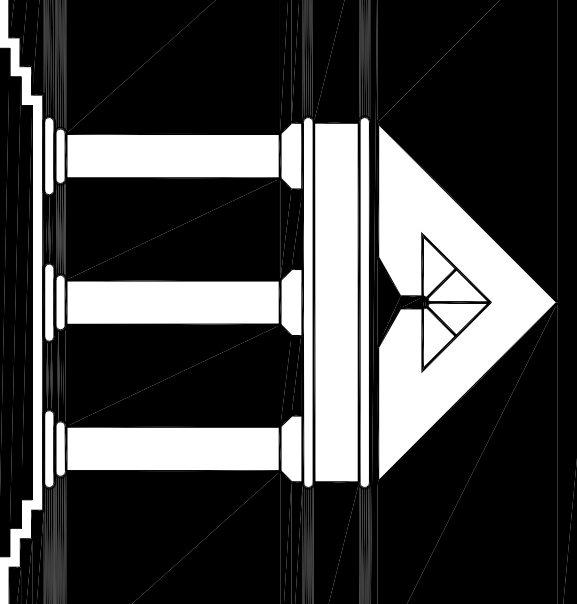
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13. REFER TO G-0.3 FOR ACCESSIBLE MOUNTING HEIGHTS FOR PLUMBING FIXTURES AND TOILET ACCESSORIES.
14. CONTRACTOR TO REFER TO STRUCTURAL DRAWINGS FOR DETAILS RELATED TO THE FOUNDATION AND STRUCTURAL SUPPORT OF WORK.

ROOF PLAN

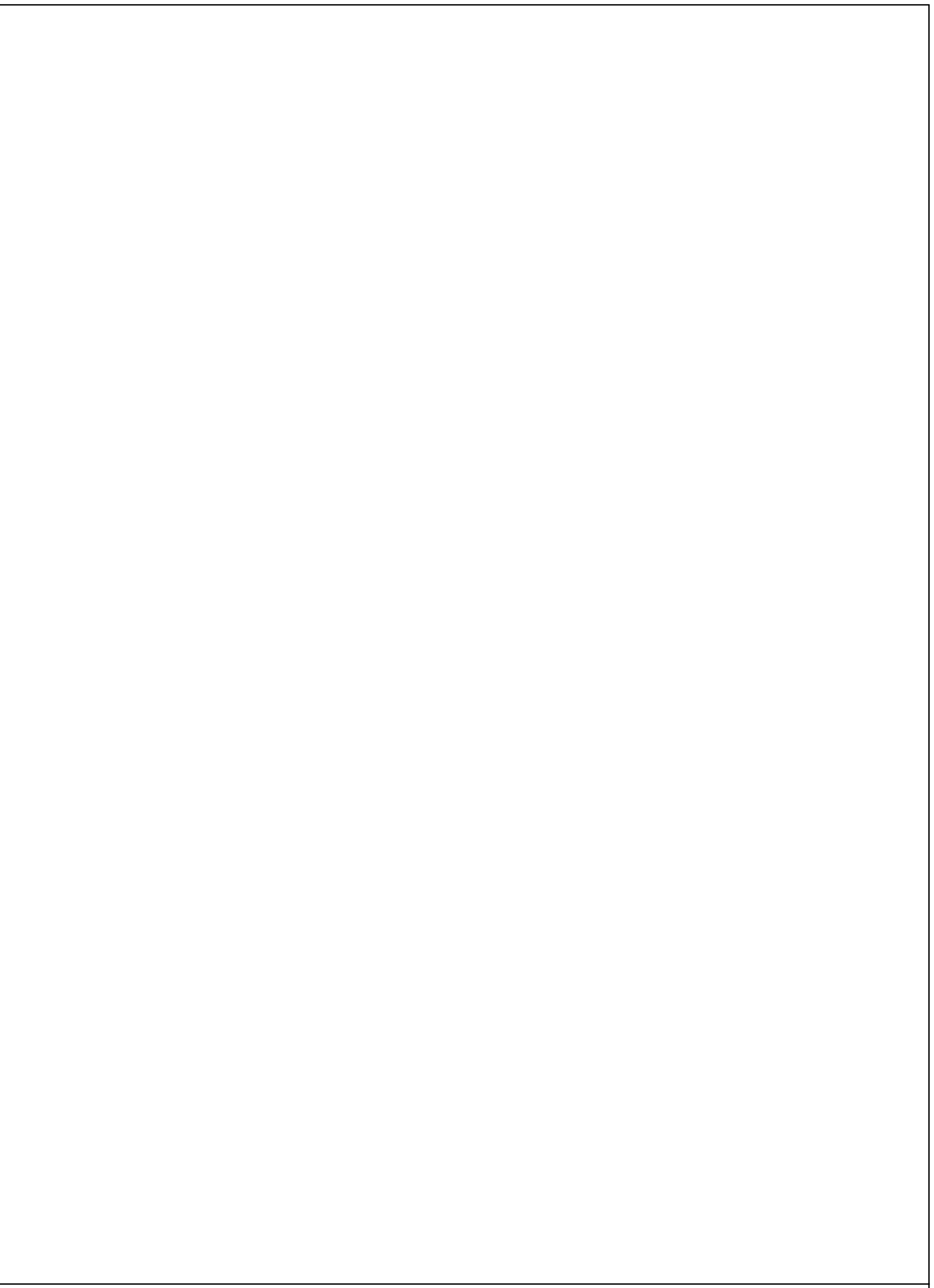
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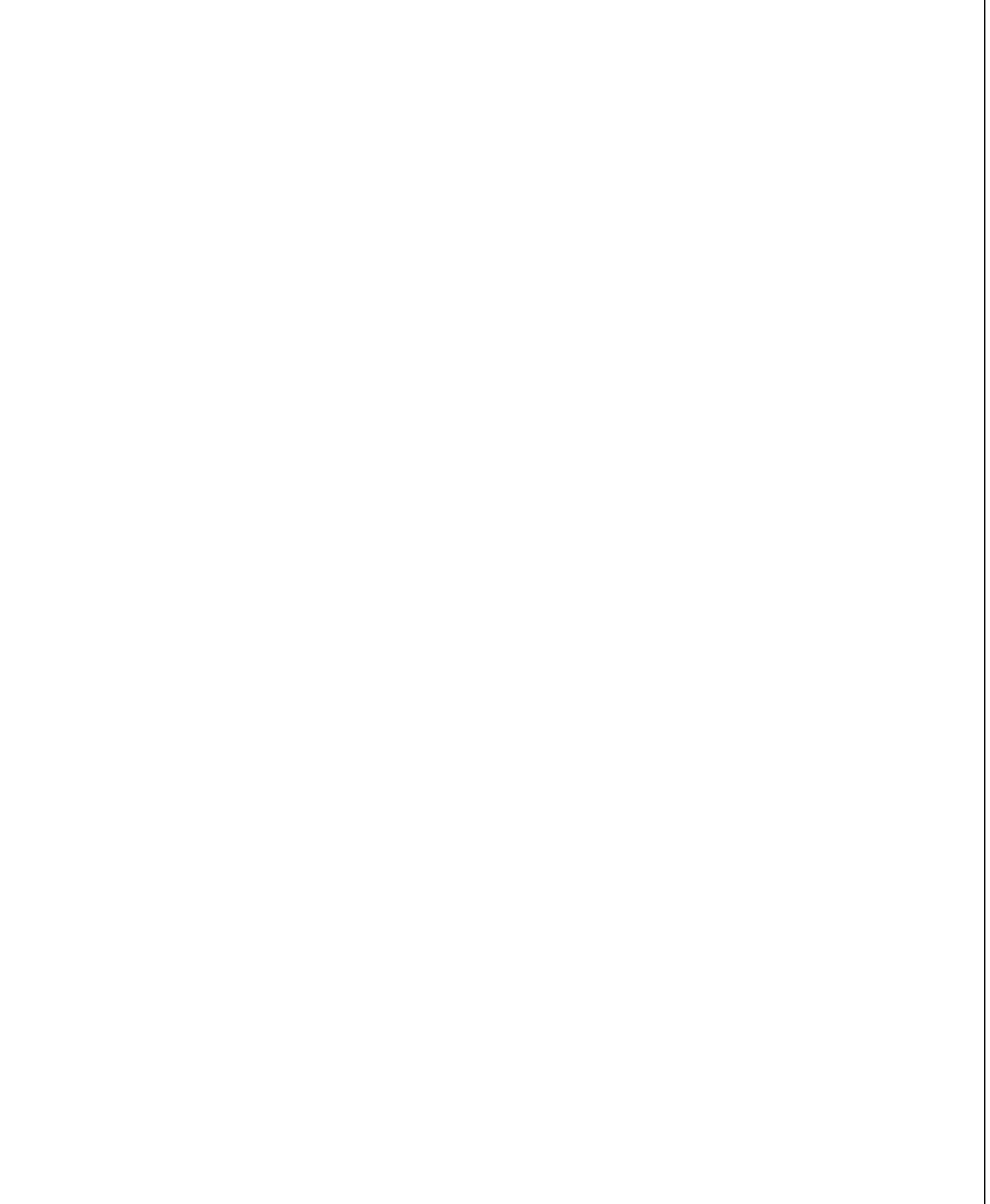


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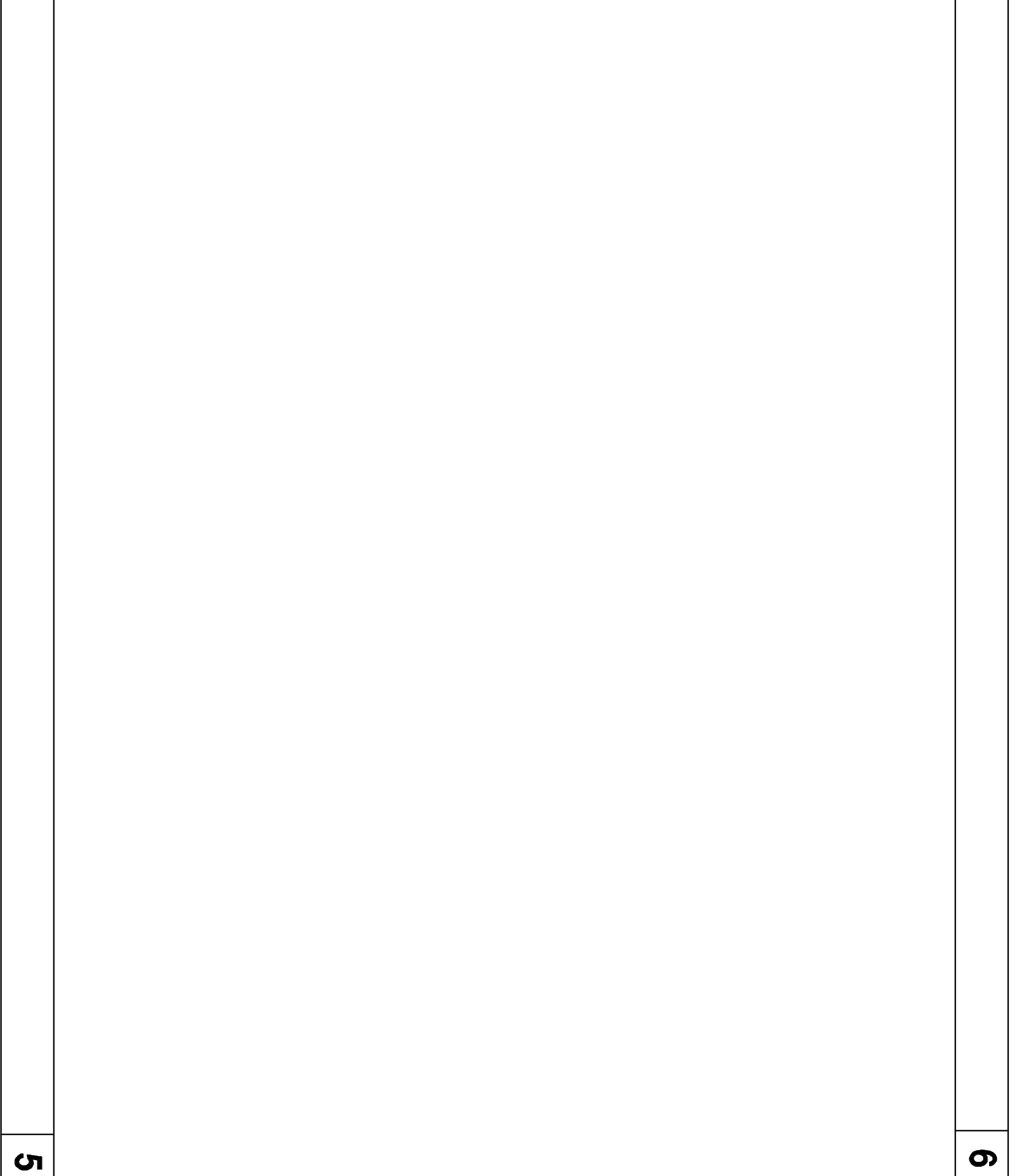
5555 West Loop South Suite #400
 Bellaire, Texas 77401
 TEL 713/888-0088 FAX 713/488-2613



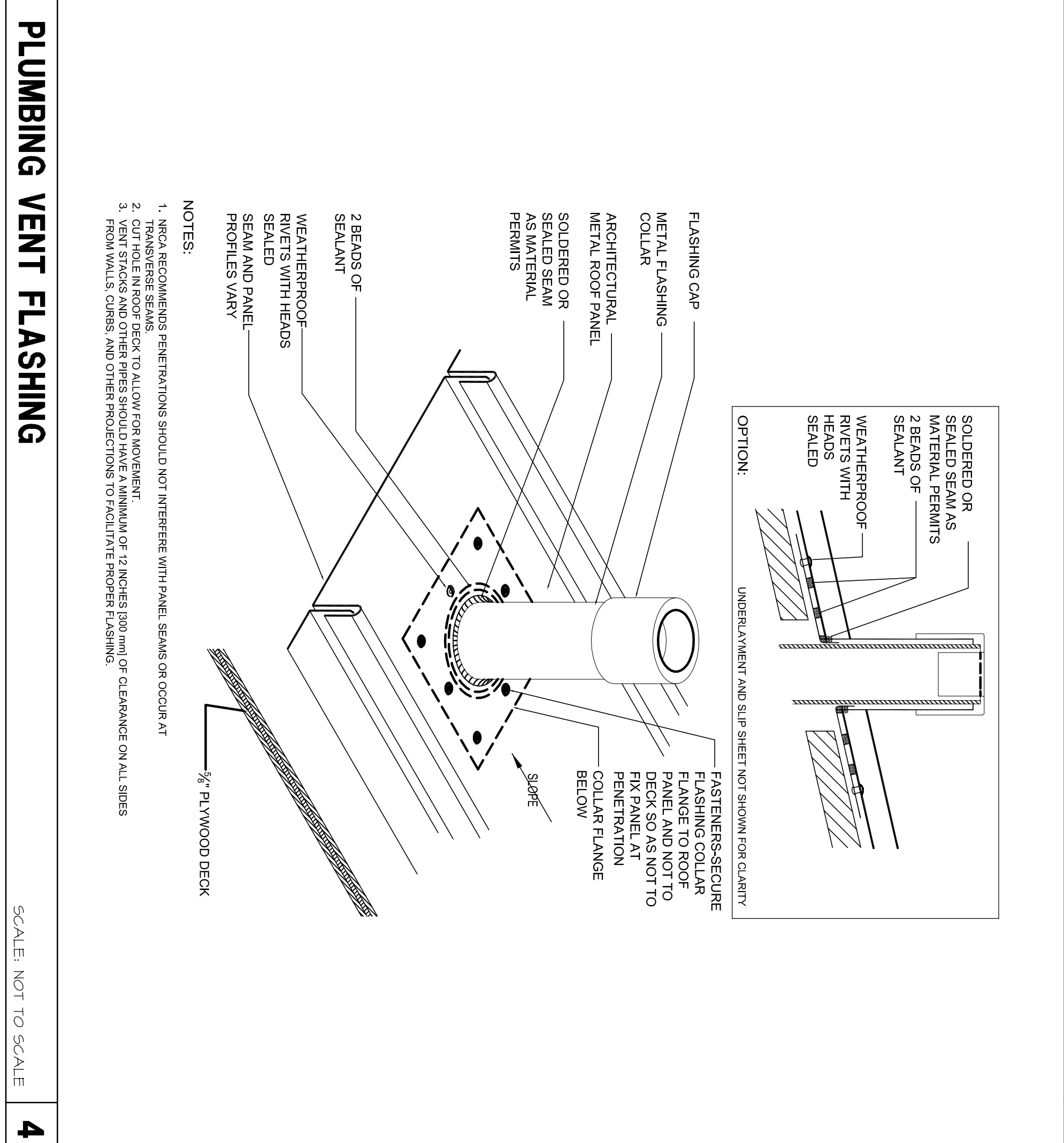
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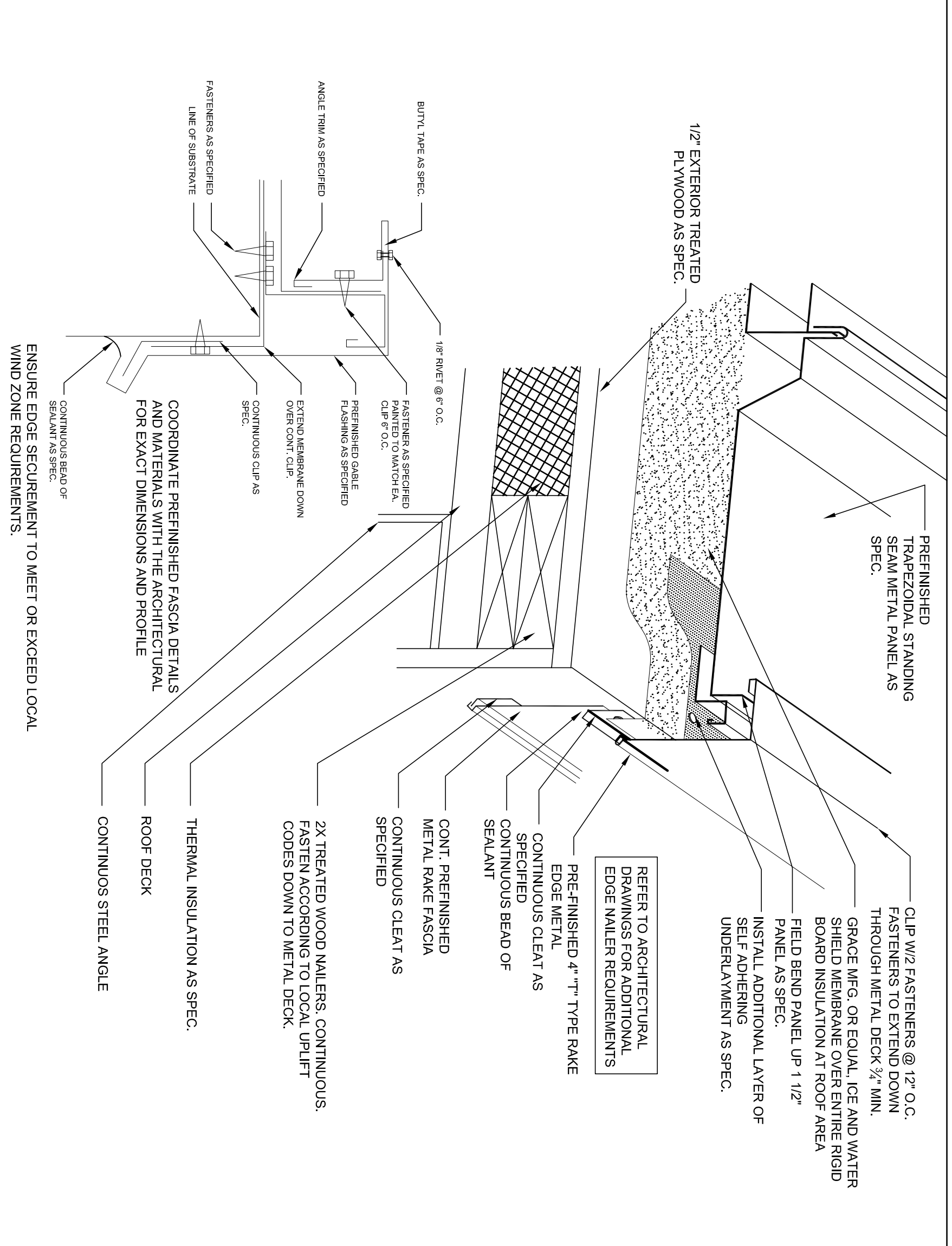
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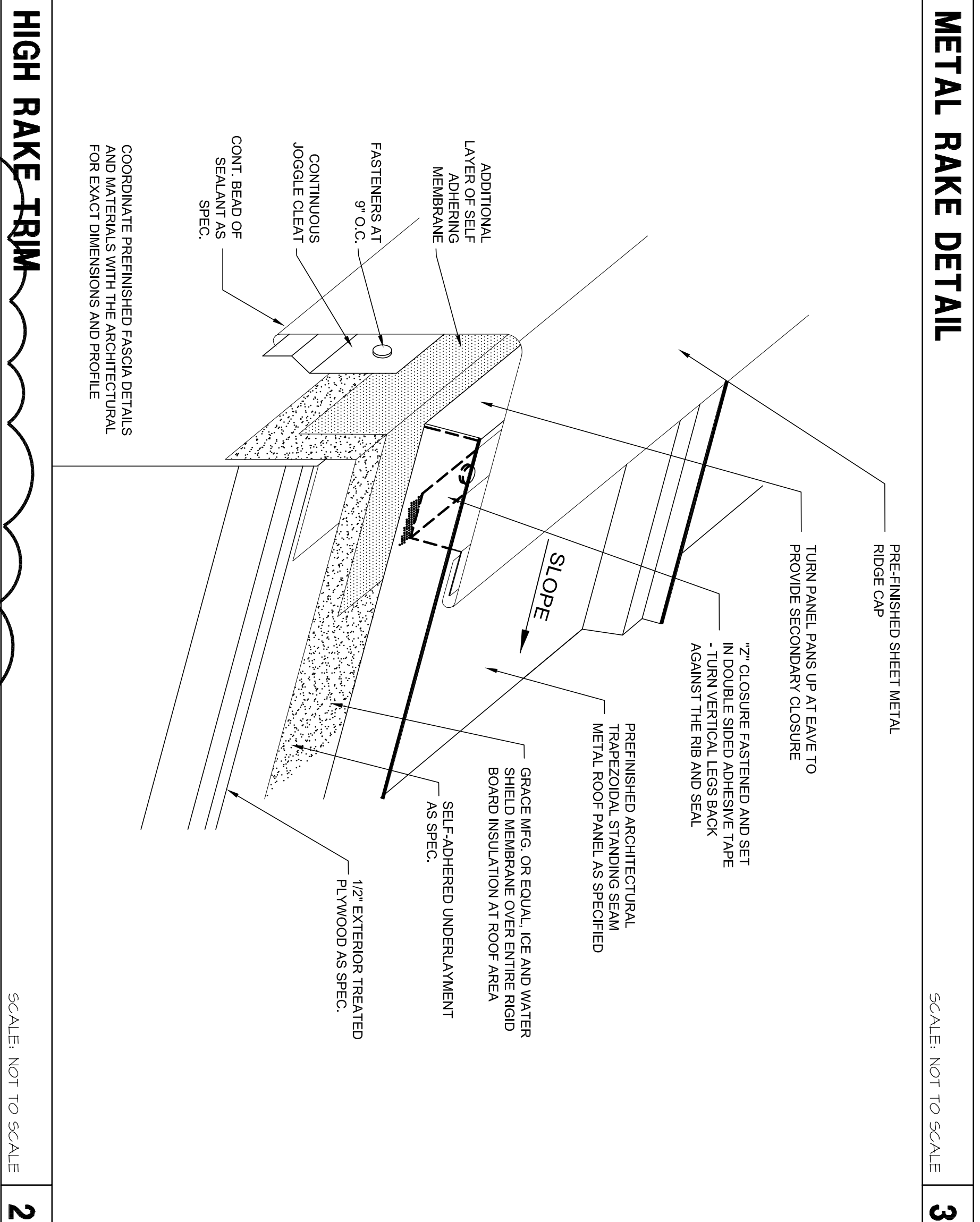
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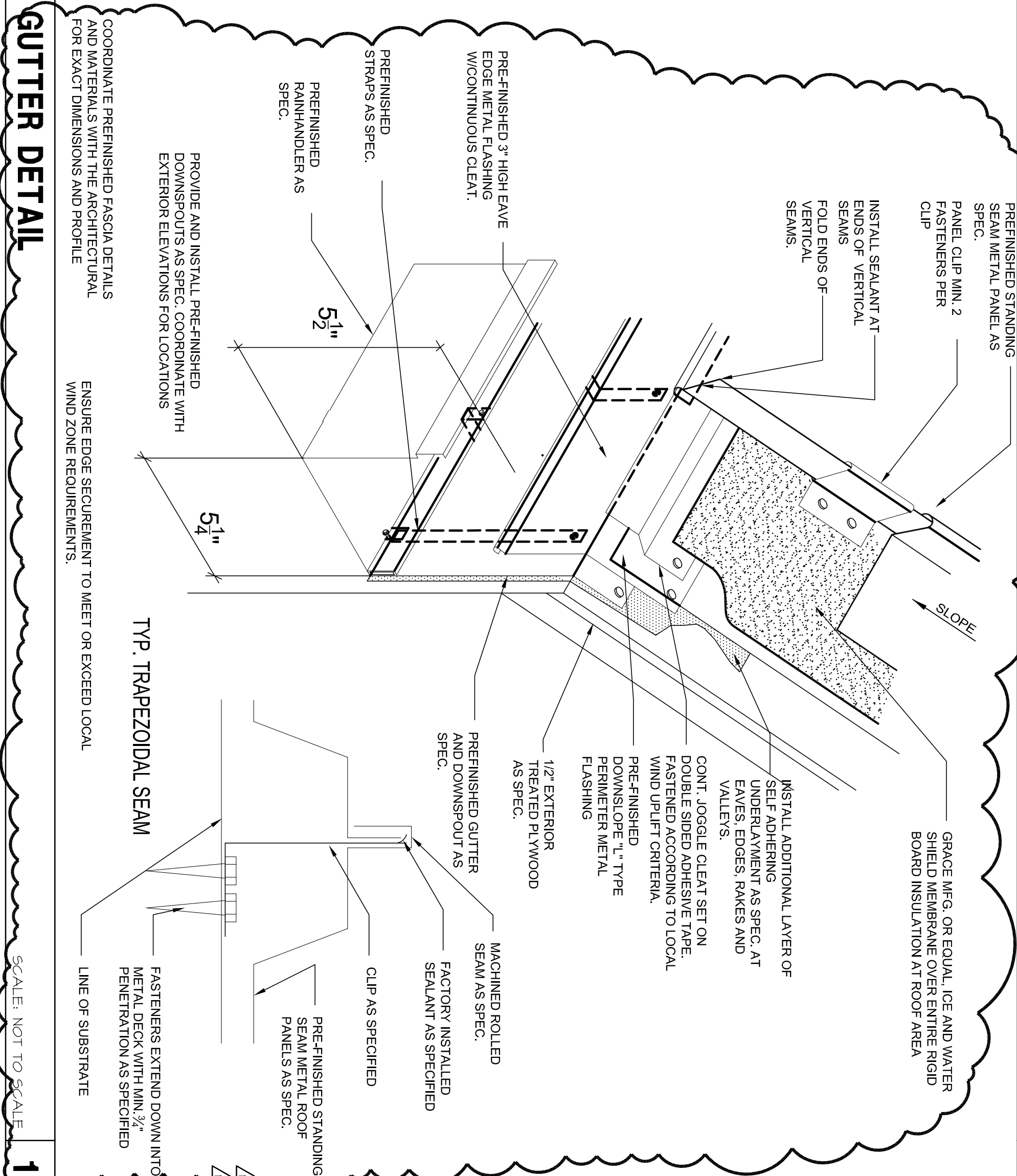
6



3



2



1

RECEIVED
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 14174
 STATE OF TEXAS
 6/28/2013

HCC SOUTH CAMPUS RECREATIONAL COMPLEX

1990 AIRPORT BLVD.
 HOUSTON, TEXAS 77051

Date: 6/28/2013

NEW CONSTRUCTION	7/27/2012
100% DESIGN DEVELOPMENT	9/13/2012
ISSUED FOR PERMIT AND BD	4/8/2013
ISSUE FOR PERMIT REVISIONS	6/28/2013

DATE: 6/28/2013
 DRAWN BY: A-3.1
 CHECKED BY: 08290

4

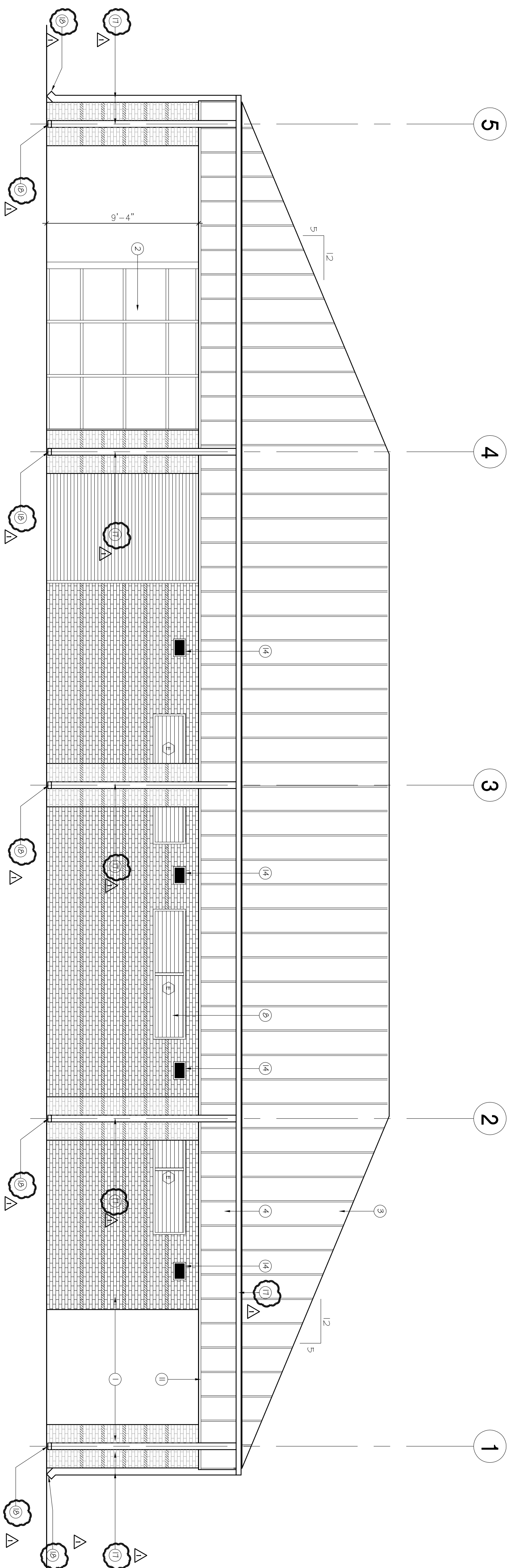
PLUMBING VENT FLASHING

SCALE: NOT TO SCALE

5

SCALE: NOT TO SCALE

SCALE: NOT TO SCALE



EAST ELEVATION

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

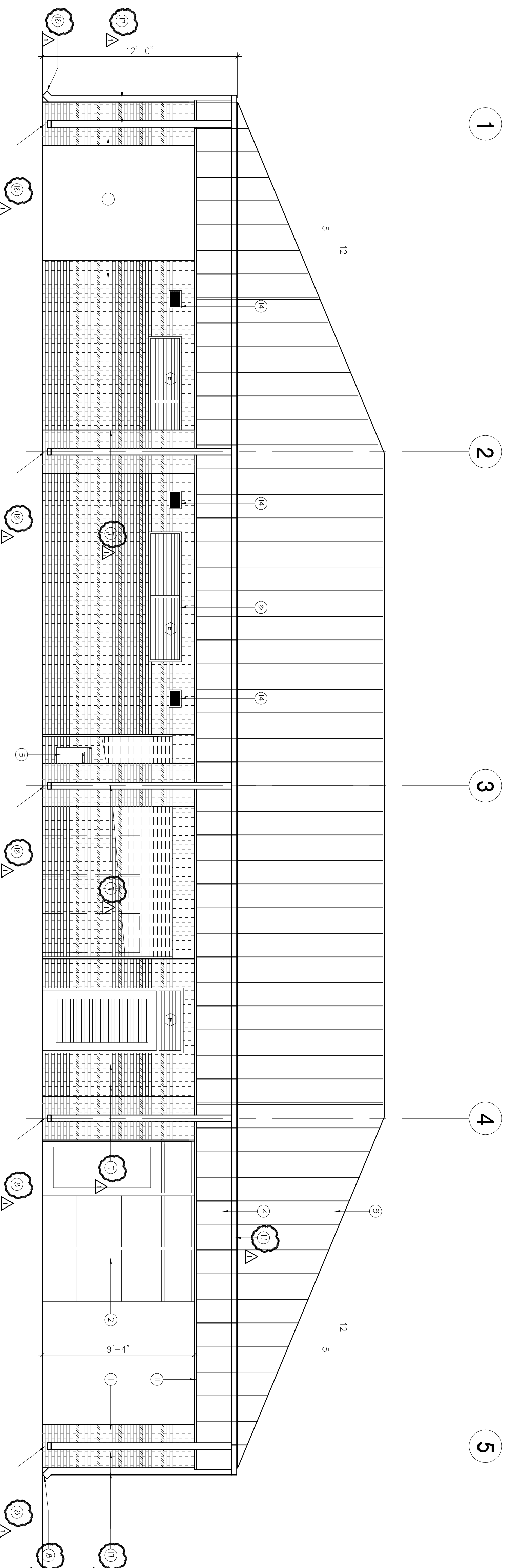
2

- 1 BRICK VENEER
- 2 SCHEDULED STOREFRONT SYSTEM
- 3 BATTEN SEAM METAL ROOF
- 4 BATTEN SEAM FASCOA
- 5 PREFINISHED METAL GUTTER
- 6 PREFINISHED METAL DOWNSPOUT
- 7 ROOF RIDGE VENT
- 8 SCHEDULED LOUVER VENT
- 9 SCHEDULED SECURITY ROLL DOWN SHUTTER
- 10 FASCOA BATTEN TRIM
- 11 PERFORATED FLAT METAL PANEL SOFFIT
- 12 8" CMU WALL
- 13 BRICK ACCENT BAND - TO MATCH OTHER EXISTING BUILDINGS
- 14 SCHEDULED LIGHT FIXTURE (WALL PACK)
- 15 DRINKING FOUNTAIN
- 16 SCHEDULED DOOR
- 17 CONTIGUOUS METAL GUTTER WITH DOWNSPOUTS
- 18 18"x24"x4" SPLASH BLOCK BY MASON CONCRETE PRODUCTS OR SIMILAR AT EACH DOWNSPOUT

NOTES TO DRAWINGS

- BATTEN SEAM ROOF SYSTEM
PRODUCT: SILOUX CITY BRICK
COLOR: CLASSIC GREEN
- BRICK VENEER
PRODUCT: SILOUX CITY BRICK
COLOR: RED YELLOW
- BRICK VENEER ACCENT
PRODUCT: SILOUX CITY BRICK
COLOR: EBONITE YELLOW

LEGEND



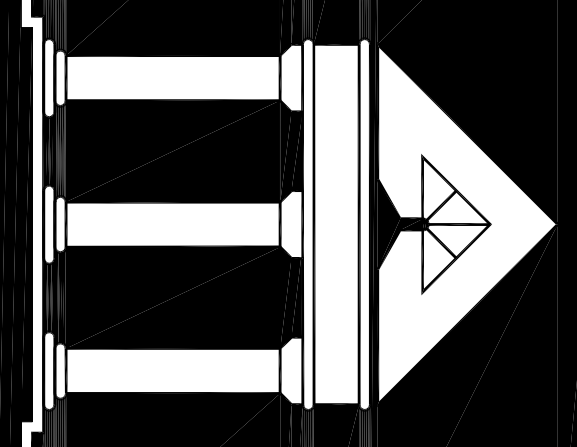
WEST ELEVATION

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

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GENERAL NOTES

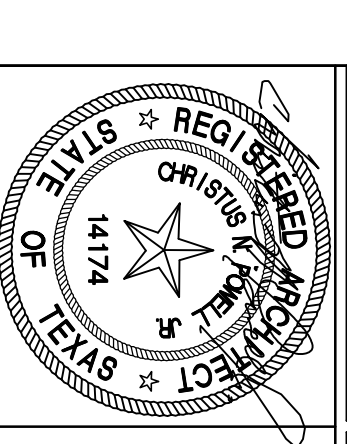


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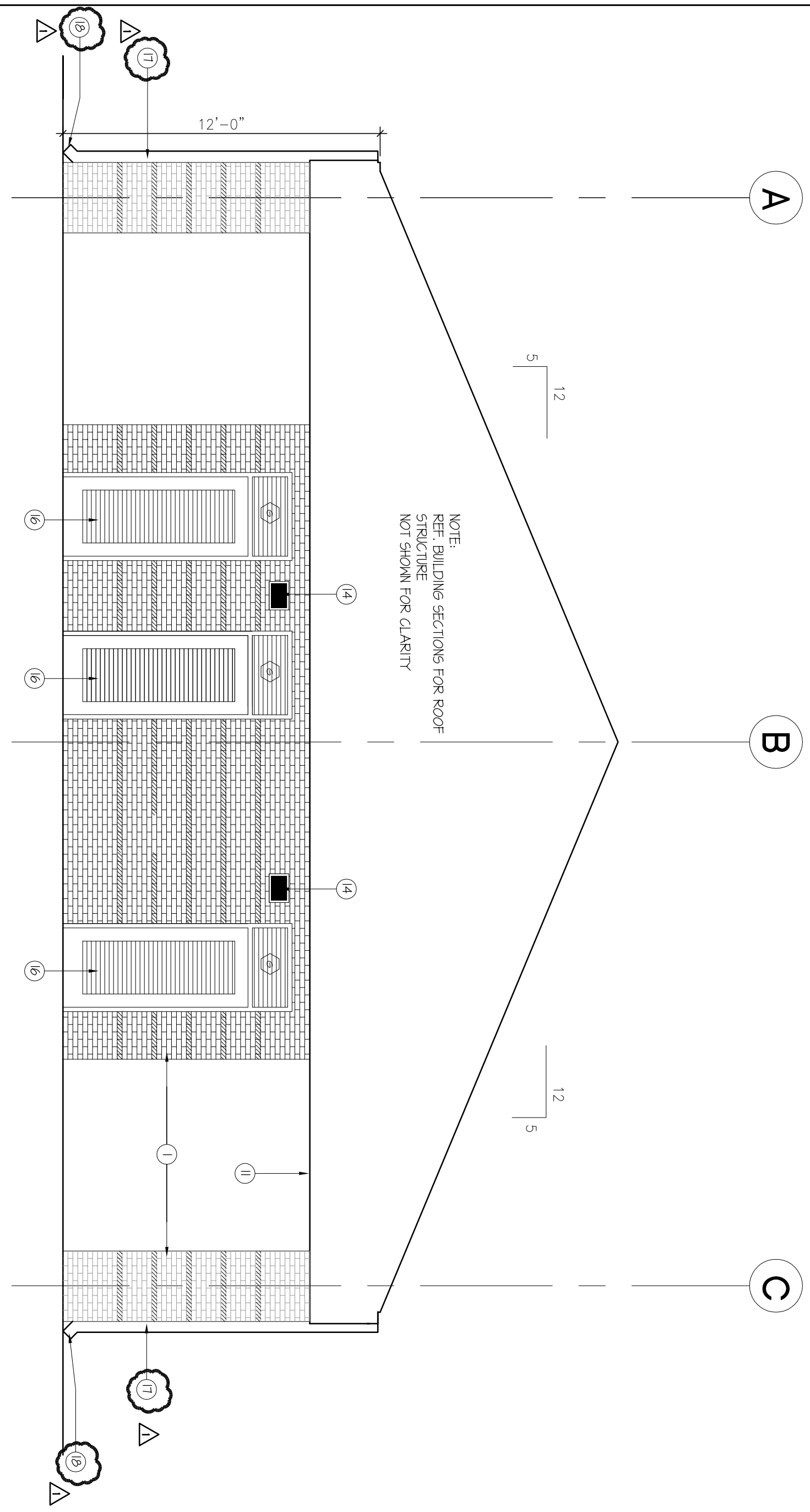
1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051



Date:	4/8/2013
NEW CONSTRUCTION	
100% DESIGN DEVELOPMENT	7/27/2012
90% CD	3/13/2013
ISSUED FOR PERMIT AND BD	4/8/2013
ADDITIONAL #3	5/28/2013
ISSUE FOR PERMIT REVISIONS	5/28/2013

EXTERIOR ELEVATIONS

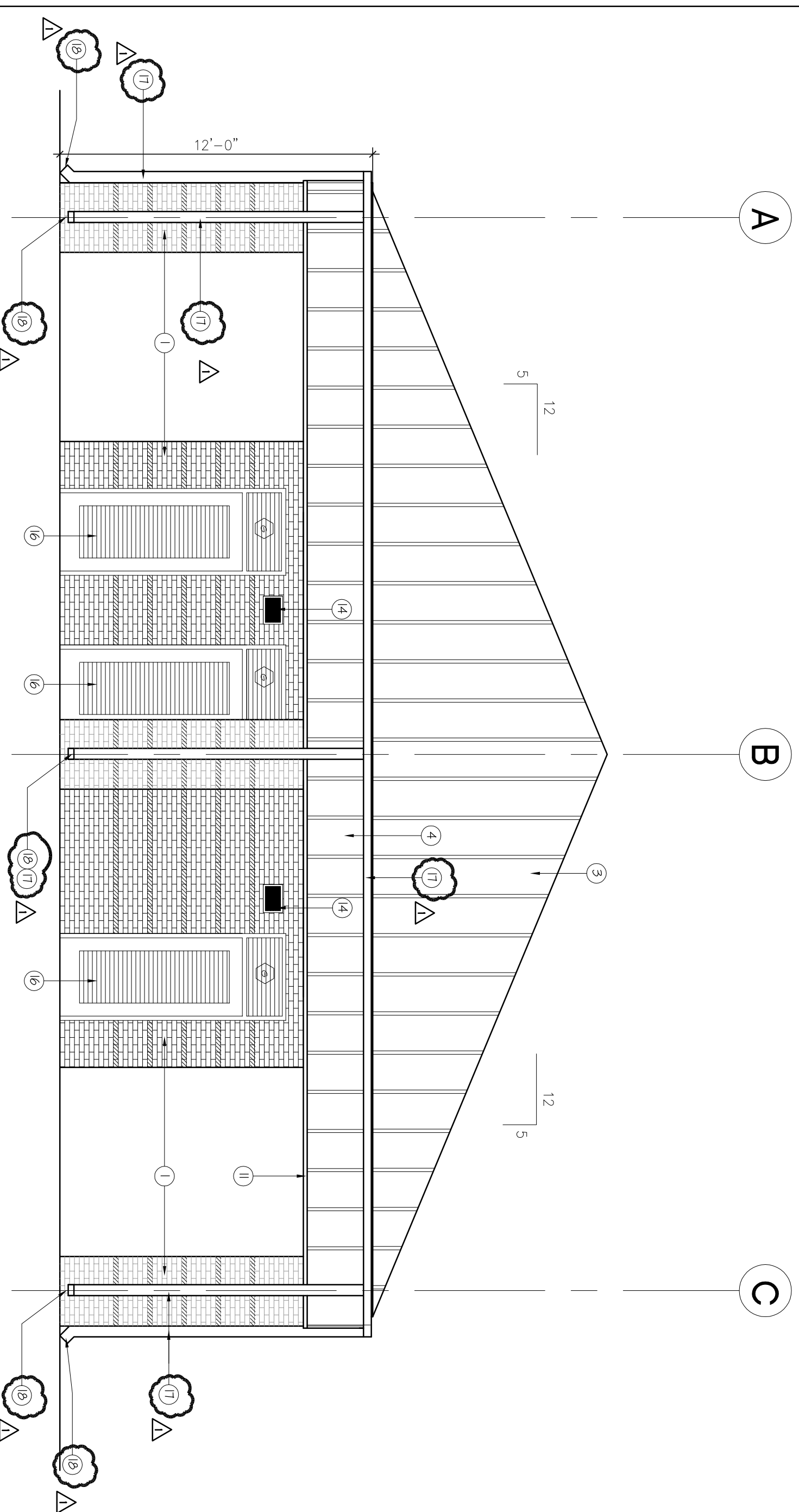
DATE:	
DRAWN BY:	A-4.0
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FILE NO.:	10500
SHT. OF:	1



BUILDING PORCH - NORTH ELEVATION

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

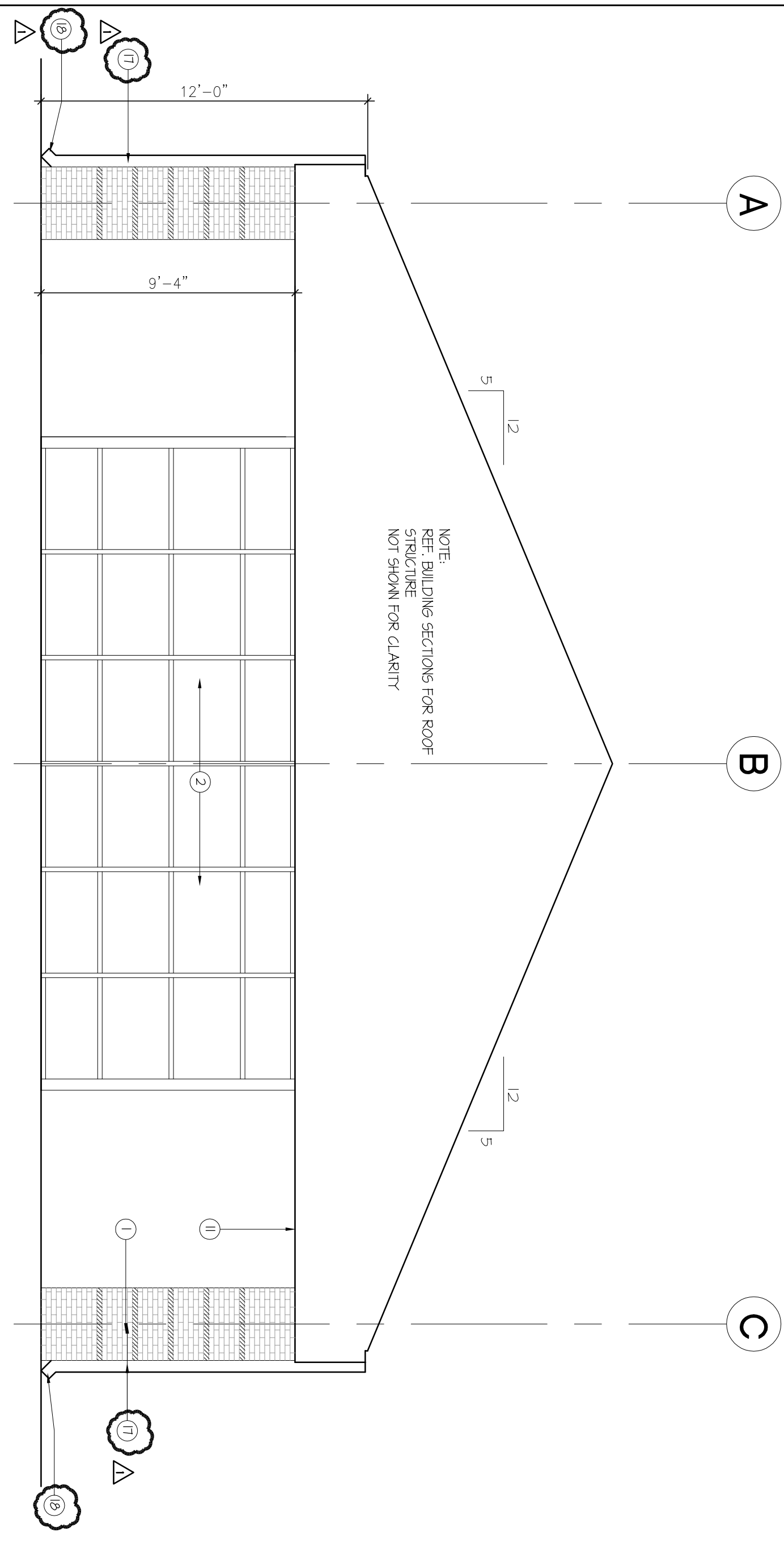
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BUILDING NORTH ELEVATION

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

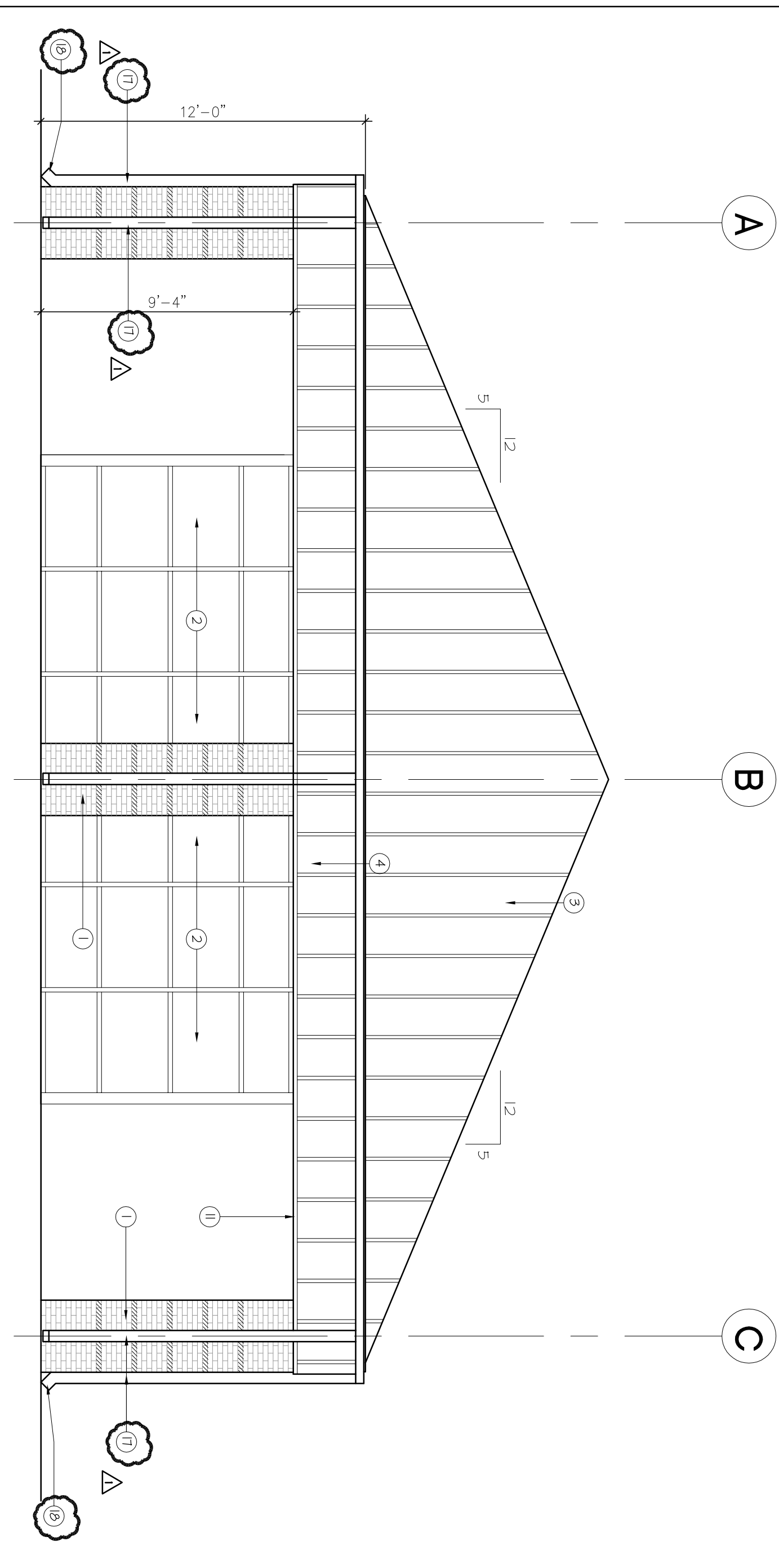
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BUILDING PORCH - SOUTH ELEVATION

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

3



BUILDING SOUTH ELEVATION

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

1

- 1 BRICK VENEER
- 2 SCHEDULED STORERFRONT SYSTEM
- 3 BATTEN SEAM METAL ROOF
- 4 BATTEN SEAM FASCGA
- 5 PREFINISHED METAL GUTTER
- 6 PREFINISHED METAL DOWNSPOUT
- 7 ROOF RIDGE VENT
- 8 SCHEDULED LOUVER VENT
- 9 SCHEDULED SECURITY ROLL DOWN SHUTTER
- 10 FASCGA BATTEN TRIM
- 11 PERFORATED FLAT METAL PANEL SOFFIT
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- 14 SCHEDULED LIGHT FIXTURE (WALL PACK)
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- 16 SCHEDULED DOOR
- 17 CONTINGUS METAL GUTTER WITH DOWNSPOUTS
- 18 18"x24" SLAB EDGE BLOCK SYSTEM CONCRETE PRODUCTS OR SIMILAR AT EACH DOWNSPOUT

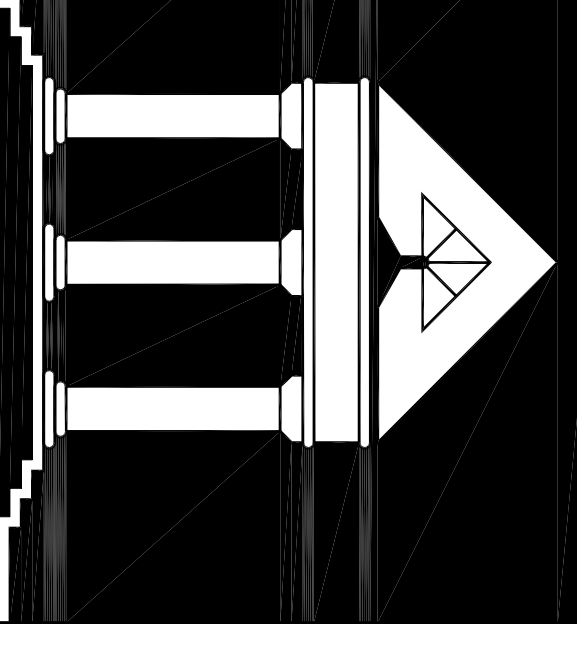
NOTES TO DRAWINGS

- BATTEN SEAM ROOF SYSTEM
PRODUCT: SIOUX CITY BRICK
COLOR: CLASSIC GREEN
- BRICK VENEER
PRODUCT: SIOUX CITY BRICK
COLOR: RED YELLOW
- BRICK VENEER ACCENT
PRODUCT: SIOUX CITY BRICK
COLOR: EBONITE YELLOW

LEGEND

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GENERAL NOTES

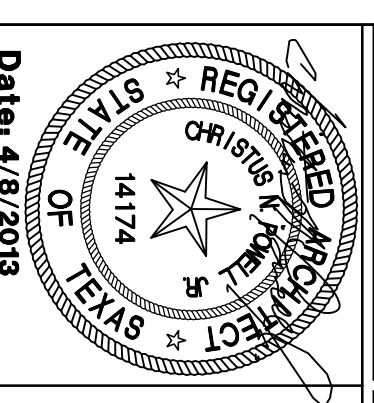


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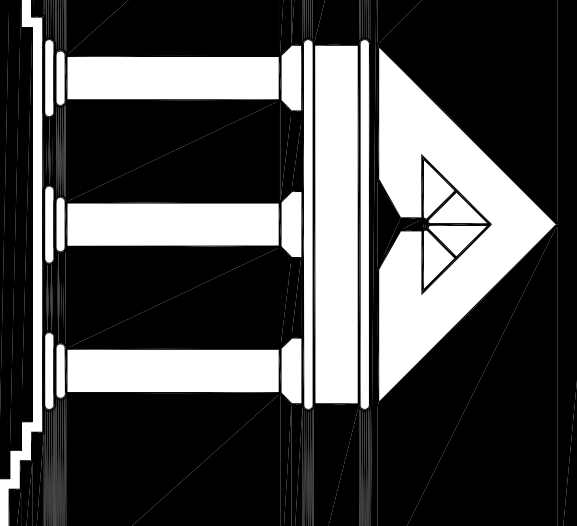
1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051



Date: 4/8/2013

NEW CONSTRUCTION	7/27/2012
100% DESIGN DEVELOPMENT	3/13/2013
ISSUED FOR PERMIT AND BID	4/18/2013
ADDITIONAL #3	5/28/2013
ISSUE FOR PERMIT REVISIONS	5/28/2013

DATE:	
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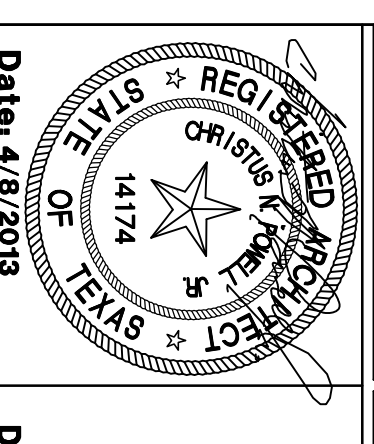
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EXTERIOR ELEVATIONS

DATE	BY
A-4.2	DRAWN BY
	CHECKED BY
	FILE NO.
	10500

- 1 BRICK VENEER
- 2 SCHEDULED STOREROOM SYSTEM
- 3 BATTEN SEAM METAL ROOF
- 4 BATTEN SEAM FASCIA
- 5 PREFINISHED METAL GUTTER
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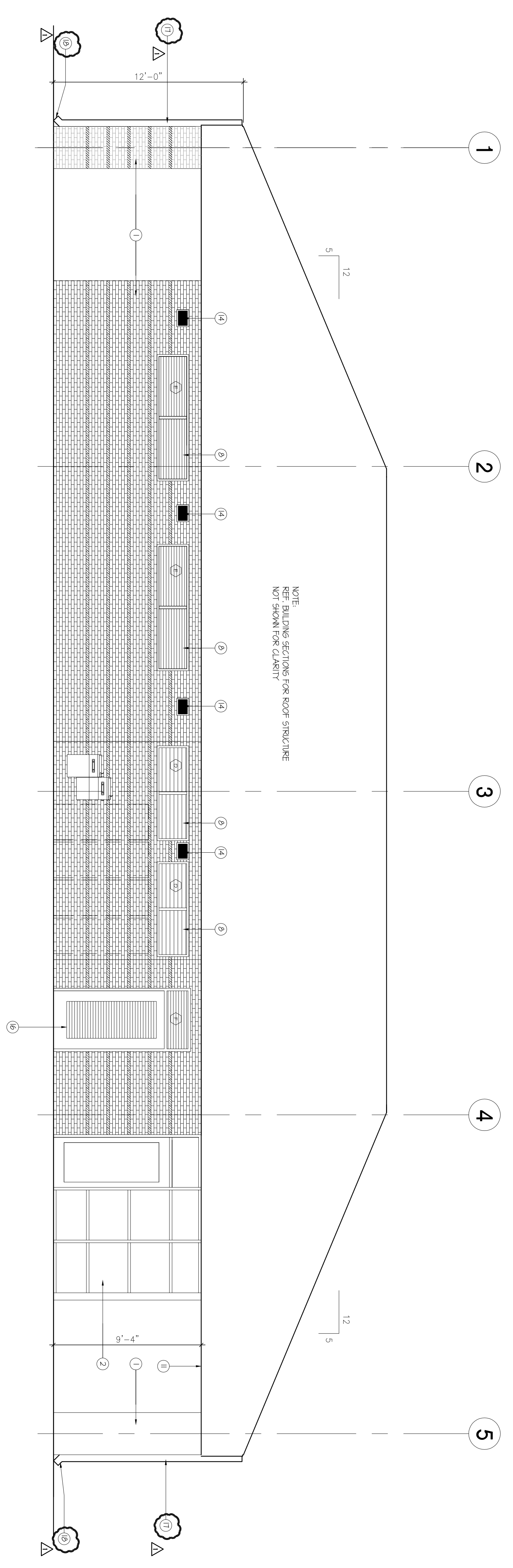
NOTES TO DRAWINGS

- BATTEN SEAM ROOF SYSTEM,
COLOR: CLASSIC GREEN
- BRICK VENEER
PRODUCT: SINUX CITY BRICK
COLOR: RED YELLOW
- BRICK VENEER ACCENT
PRODUCT: SINUX CITY BRICK
COLOR: EBONITE YELLOW

LEGEND

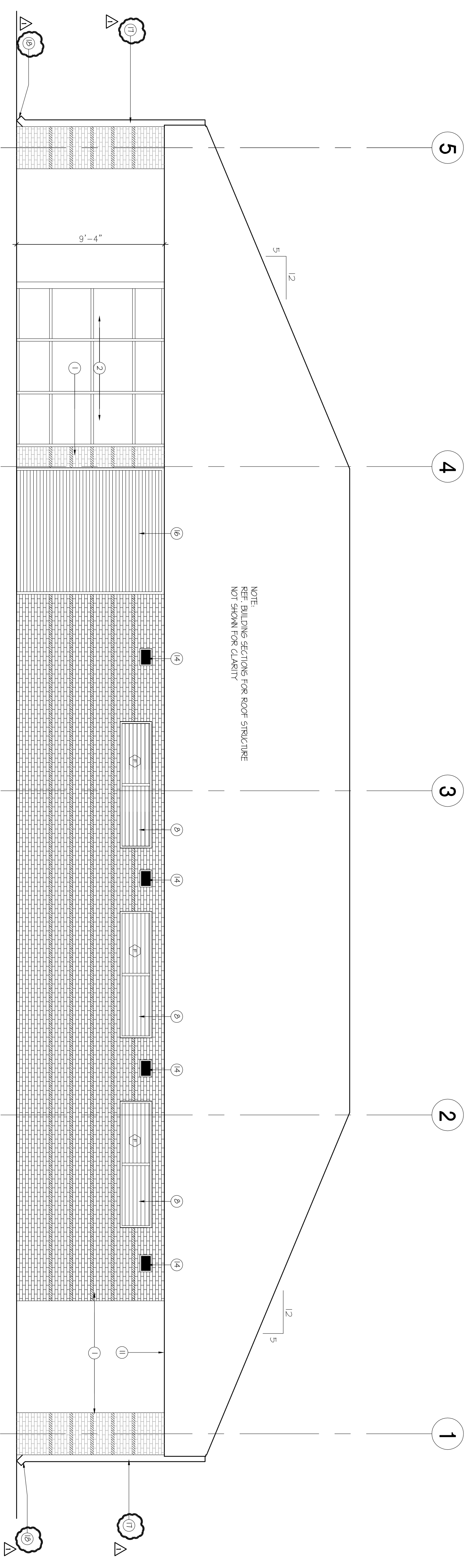
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GENERAL NOTES



BUILDING PORCH - WEST ELEVATION

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

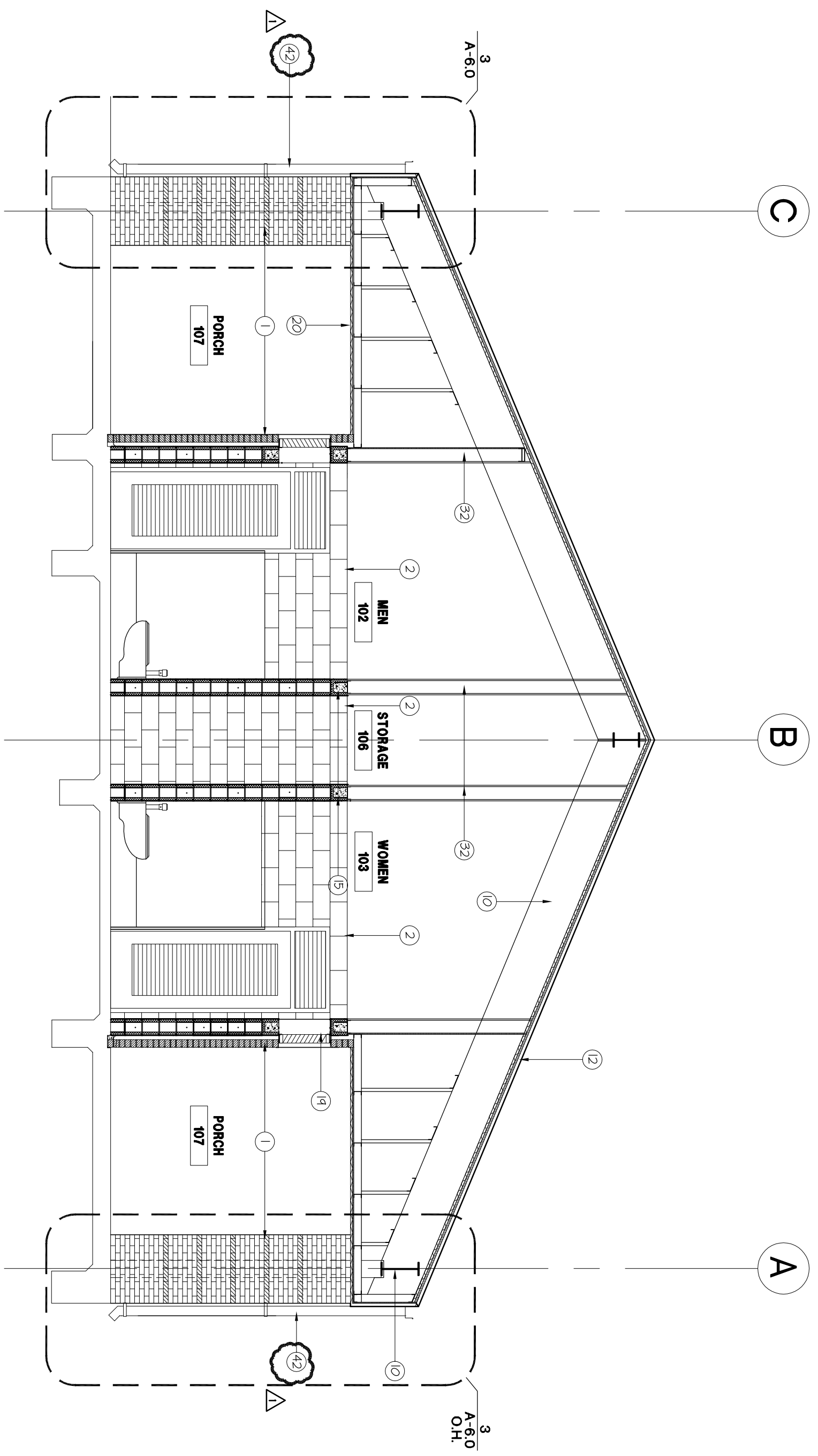


BUILDING PORCH - EAST ELEVATION

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

1

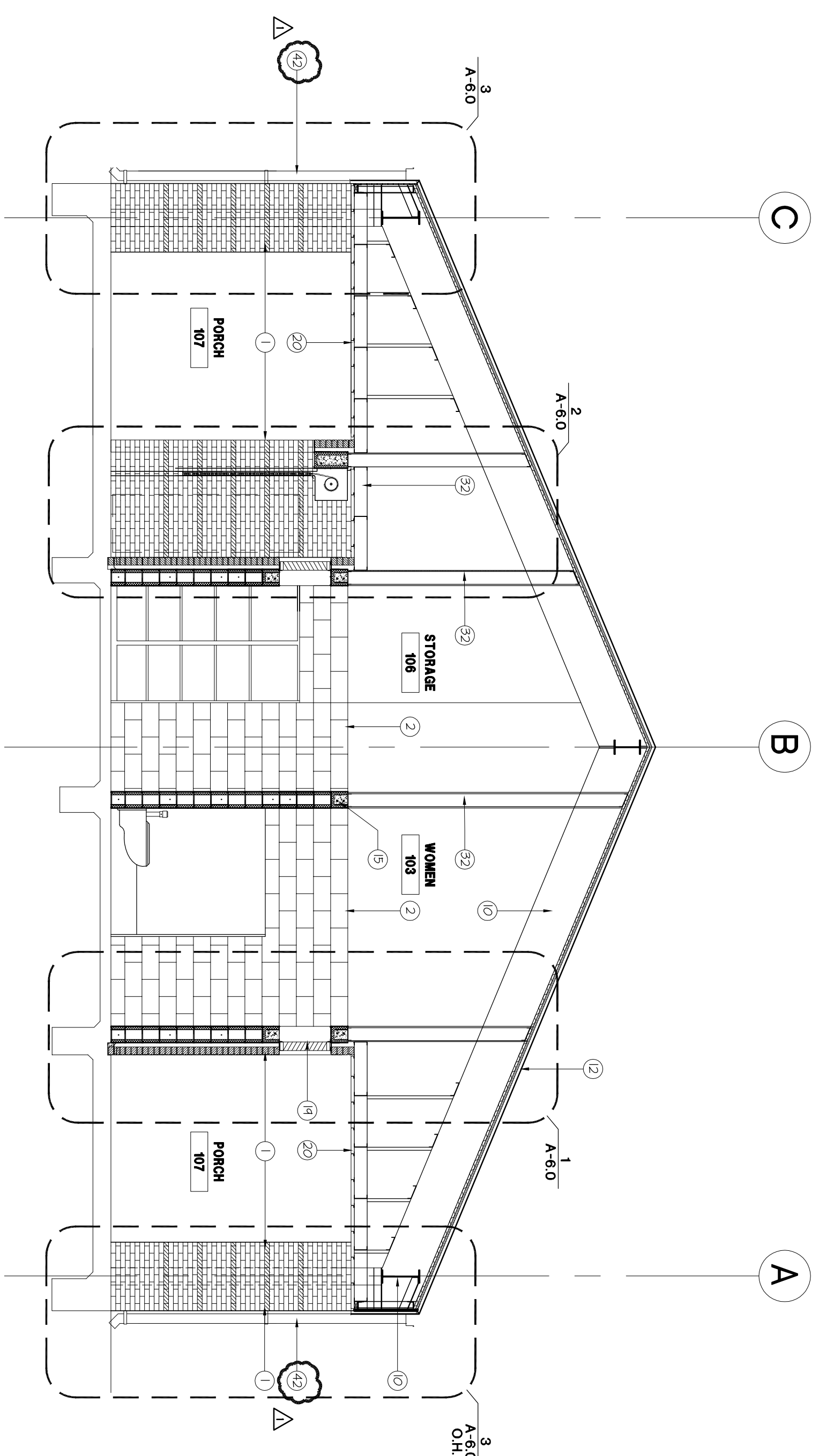
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BUILDING SECTION

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

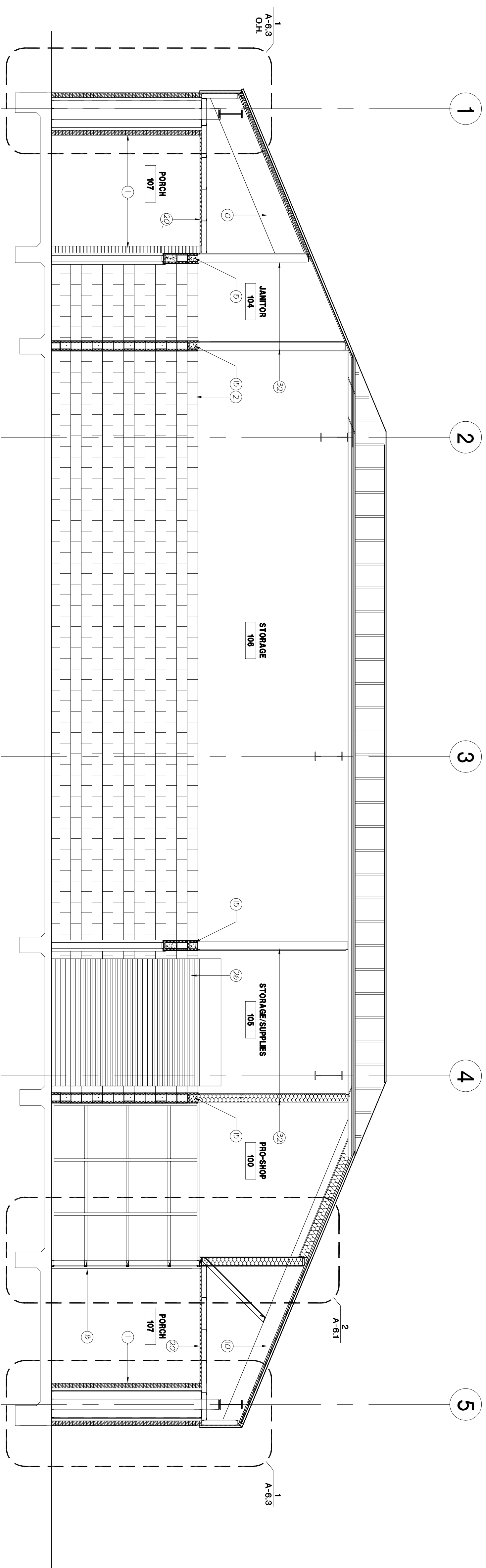
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BUILDING SECTION

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

2



BUILDING SECTION

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

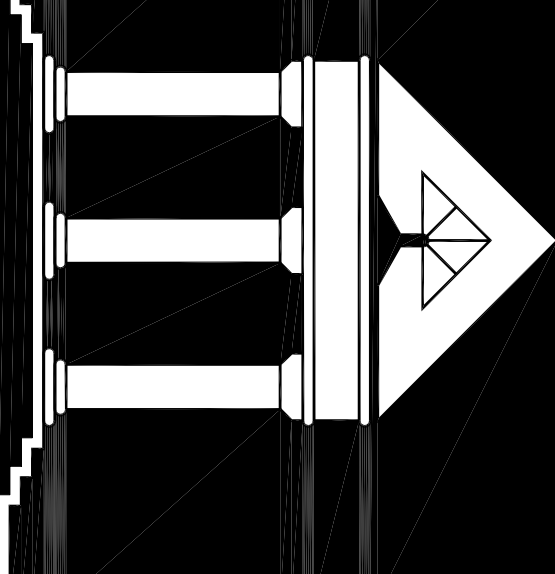
1

- 1 MODULAR BRICK
- 2 8" X 8" X 8" CONCRETE MASONRY UNITS
- 3 SOLID GROUT FILLED
- 4 HORIZONTAL STEEL REBAR REINFORCEMENT
- 5 VERTICAL STEEL REBAR REINFORCEMENT
- 6 SCHEDULED DOOR FRAME
- 7 SCHEDULED DOOR
- 8 SCHEDULED STOREFRONT SYSTEM
- 9 STEEL COLUMN REFER TO STRUCTURAL DRAWINGS
- 10 STEEL BEAM REFER TO STRUCTURAL DRAWINGS (PAINT)
- 11 METAL DECKING (PAINT)
- 12 BATTEN SEAM METAL ROOF, KYVAR 500 FINISH
- 13 ROOF VENT, KYVAR 500 FINISH
- 14 2" RIGID INSULATION
- 15 8"x 8" 4" CMU SOLID BEAM
- 16 HORIZONTAL MASONRY REINFORCEMENT WITH ADJUSTABLE BRICK TIES
- 17 CONTINUOUS BACKER ROD AND SEALANT, SHIM AS NECESSARY
- 18 SCHEDULED METAL THRESHOLD SET SOLID IN
- 19 SCHEDULED LOUVER VENT
- 20 PERFORATED FLAT METAL PANEL, SOFFIT SECURED TO METAL STUD FRAMING BACK UP
- 21 ALUMINUM SUB SILL
- 22 1/2" THICK EXTERIOR GRADE PLYWOOD
- 23 CONTINUE METAL TRIM
- 24 OVERHEAD ROLLING DOOR
- 25 GRADE MFG. OR EQUAL ICE AND WATER SHIELD MEMBRANE AREA STRIKE BOUND INSULATION AT ROOF AND ROOF FLASHING
- 26 STEEL ANGLE REFER TO STRUCTURAL DRAWINGS
- 27 3/8" METAL STUDS
- 28 1/2" THICK SHEATHING
- 29 VAPOR BARRIER BUTTING TYPED MFG OR EQUAL, COMMERCIAL BUILDING WRAP
- 30 METAL STUDS HEAVY GAUGE
- 31 OVERHEAD ROLLING GRILLE
- 32 CONTINUOUS BITUMINOUS DAMPROOFING APPLIED TO EXTERIOR FACE OF CMU
- 33 VAPOR BARRIER APPLIED TO ROOF DECK AS SPECIFIED
- 34 SCHEDULED LIGHT FIXTURE
- 35 SCHEDULED TOILET FIXTURE
- 36 R-19 BATT - INSULATION INSTALLED PER SPEC.
- 37 SCHEDULED TOILET ACCESSORY
- 38 1 1/2" X 4" X 3/8" STEEL ANGLE CONTINUOUS ATTACHED TO LOWER VIEW AND CMU WALL
- 39 CONTINUOUS METAL GUTTER WITH DOWNSPOUT

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14. CONTRACTOR TO REFER TO STRUCTURAL DRAWINGS FOR DETAILS RELATED TO THE FOUNDATION AND STRUCTURAL SUPPORT OF WORK.

GENERAL NOTES



ARCHITECTURE

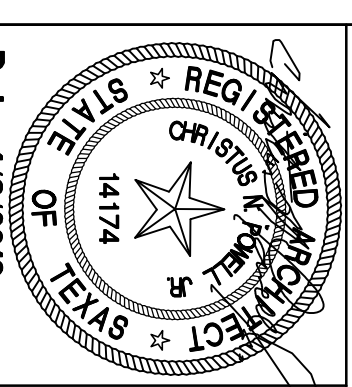
INTERIORS

CONSTRUCTION MANAGEMENT

5555 West Loop South Suite #400
Bellaire, Texas 77401
TEL 713/888-0088 FAX 713/488-2613

**HCC SOUTH CAMPUS
RECREATIONAL COMPLEX**

**1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051**

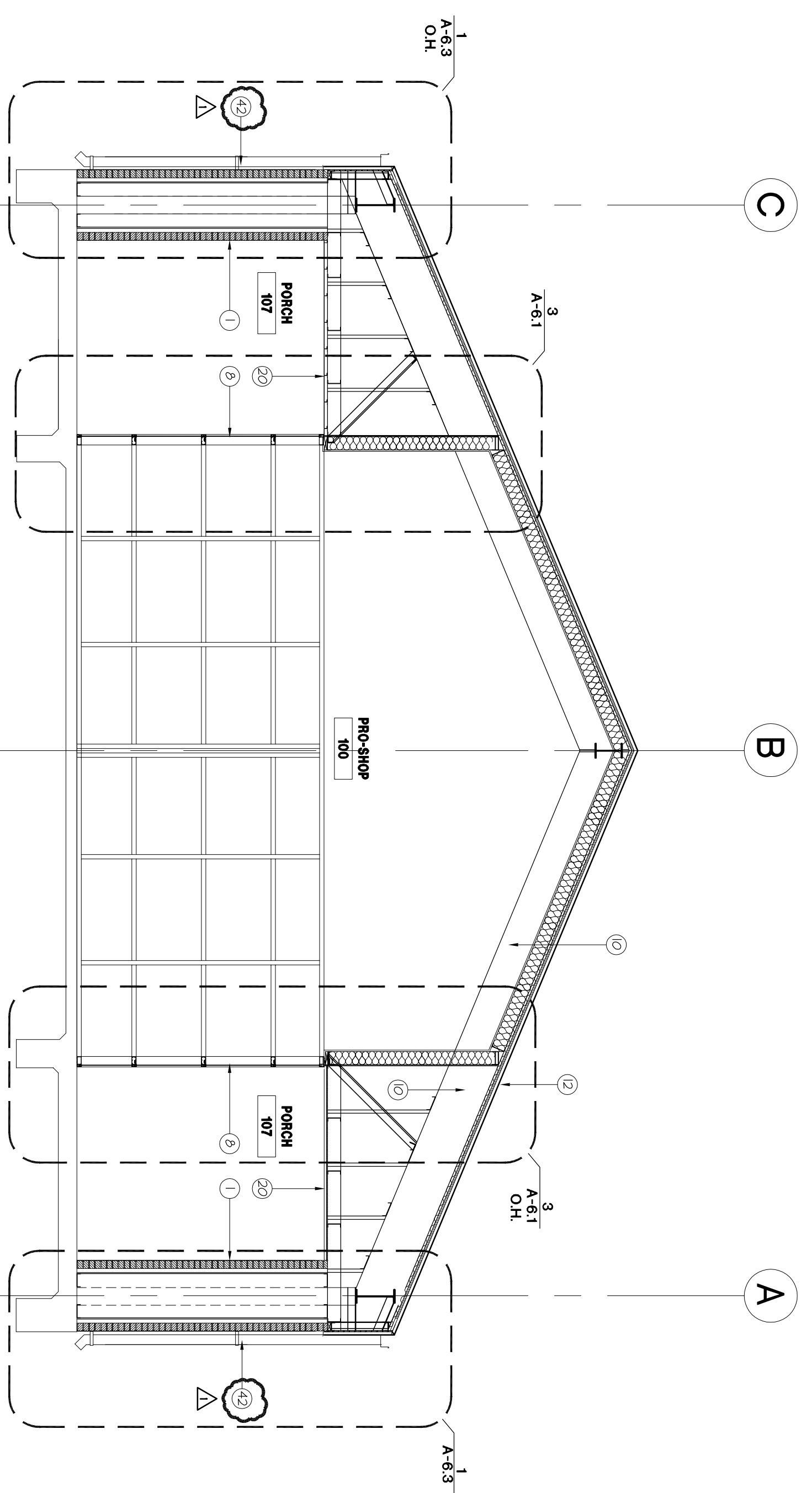


Date: 4/8/2013

NEW CONSTRUCTION	Date:
100% DESIGN DEVELOPMENT	7/27/2012
ISSUED FOR PERMIT AND BID	3/13/2013
ADDITION #3	4/8/2013
ISSUE FOR PERMIT REVISIONS	5/28/2013

BUILDING SECTIONS

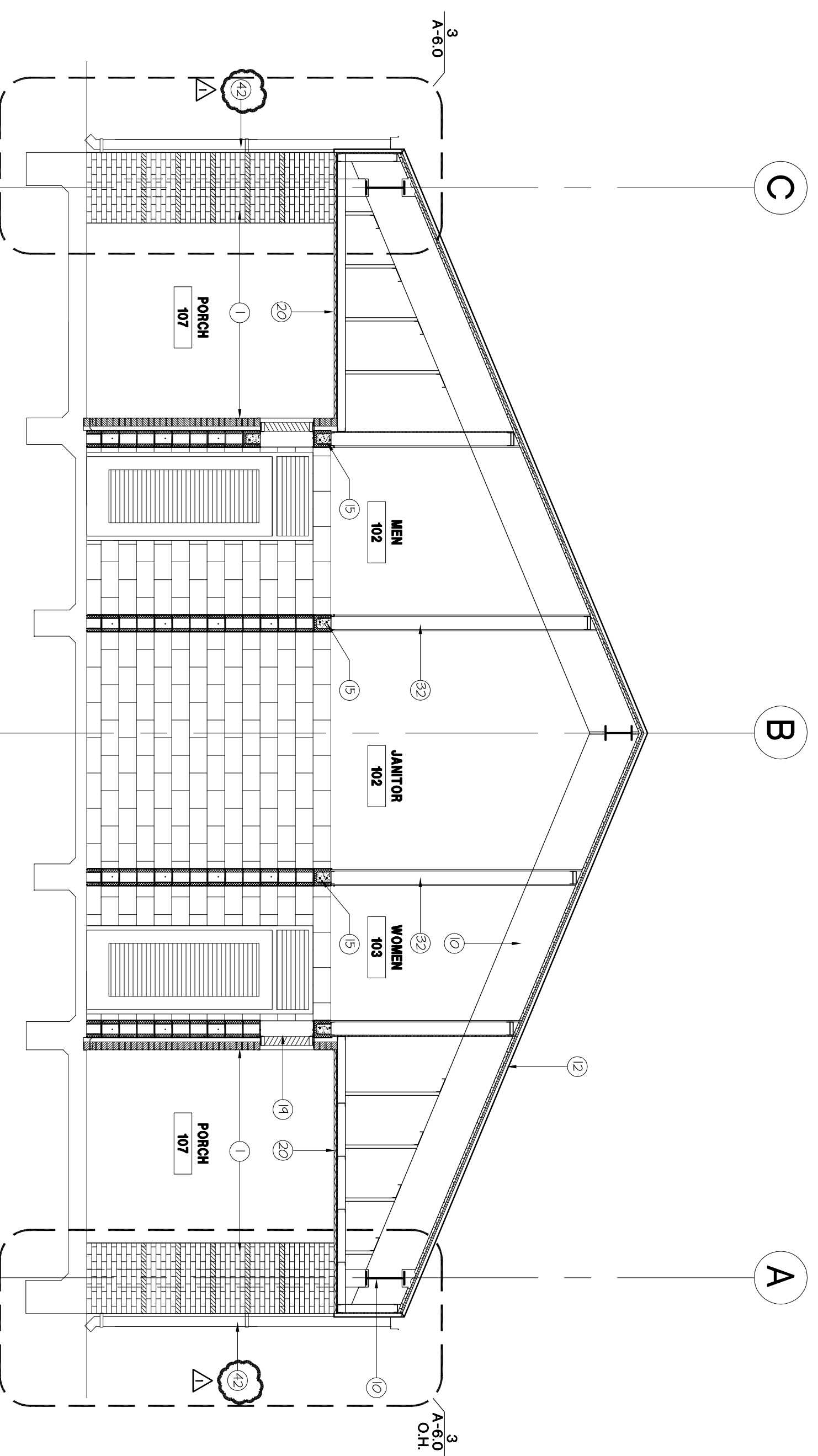
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CHECKED BY:
SHT. OF FILE NO. 10500



BUILDING SECTION

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

2



BUILDING SECTION

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

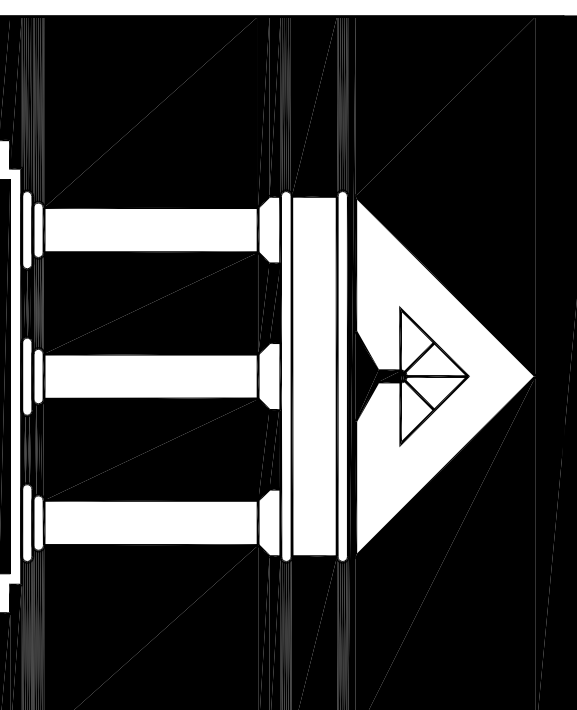
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- 1 MODULAR BRICK
- 2 8" X 8" X 8" CONCRETE MASONRY UNITS
- 3 SOLID GROUT FILLED
- 4 HORIZONTAL STEEL REBAR REINFORCEMENT
- 5 VERTICAL STEEL REBAR REINFORCEMENT
- 6 SCHEDULED DOOR FRAME
- 7 SCHEDULED DOOR
- 8 SCHEDULED STOREROOM SYSTEM
- 9 STEEL COLUMN, REFER TO STRUCTURAL DRAWINGS
- 10 STEEL BEAM, REFER TO STRUCTURAL DRAWINGS (PAINT)
- 11 METAL DECKING (PAINT)
- 12 BATTEN SEAM METAL ROOF, KYMAR 500 FINISH
- 13 RIGID INSULATION
- 14 2" RIGID INSULATION
- 15 8" X 8" IP C/MI BOND BEAM
- 16 HORIZONTAL MASONRY REINFORCEMENT
- 17 CONTINUOUS BACKER ROD AND SEALANT, SIMIL AS NECESSARY
- 18 SCHEDULED METAL THRESHOLD SET SOLID IN
- 19 SCHEDULED LOUVER VENT
- 20 PERFORATED FLAT METAL PANEL, SOFFIT SECURED TO METAL STUD FRAMING BACK UP
- 21 CONTROL JOINT
- 22 ALUMINUM SUB SILL
- 23 1/2" THICK EXTERIOR GRADE PLYWOOD
- 24 CONTINUE METAL TRIM
- 25 OVERHEAD ROLLING DOOR
- 26 GARAGE WFG OR EQUAL, ICE AND WATER SHIELD MEMBRANE AREA
- 27 CONTINUOUS BATT INSULATION AT ROOF AND ROOF FLASH AREA
- 28 STEEL ANGLE REFER TO STRUCTURAL DRAWINGS
- 29 3/8" METAL STUDS
- 30 1/2" THICK SHEATHING
- 31 VAPOR BARRIER BILMING WRAP, TYVEK WFG OR EQUAL, COMMERCIAL BUILDING WRAP
- 32 6" METAL STUDS (HEAVY GAUGE)
- 33 OVERHEAD ROLLING GRILLE
- 34 CONTINUOUS BITUMINOUS DAMPROOFING APPLIED TO EXTERIOR FACE OF CMU
- 35 VAPOR BARRIER APPLIED TO ROOF DECK AS SPECIFIED
- 36 SCHEDULED LIGHT FIXTURE
- 37 SPECIFIED TOILET FIXTURE
- 38 R-9 BATT - INSULATION INSTALLED PER SPEC.
- 39 SPECIFIED TOILET ACCESSORY
- 40 MOISTURE AND IMPACT RESISTANT 5/8" GYPSUM BOARD (PAINT).
- 41 1 1/2" X 1/2" X 3/8" STEEL ANGLE CONTINUOUS ATTACHED TO LOWER WALL AND CMU WALL
- 42 CONTINUOUS METAL GUTTER WITH DOWNSPOUT

NOTES TO DRAWINGS

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10. REFER TO SHEET A-120 FOR WINDOW SCHEDULE INFORMATION
11. REFER TO SHEET A-300 FOR PARTITION TYPES
12. REFER TO SHEET A-100 FINISH SCHEDULE AND PLANS FOR ALL FINISHES UNLESS OTHERWISE NOTICED.
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GENERAL NOTES



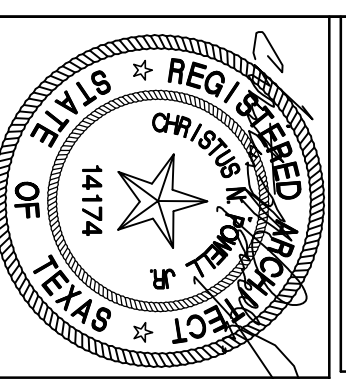
ARCHITECTURE

URBAN DESIGN
INTERIORS
CONSTRUCTION MANAGEMENT

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Bellaire, Texas 77401
TEL 713/888-0088 FAX 713/488-2613

**HCC SOUTH CAMPUS
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1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051

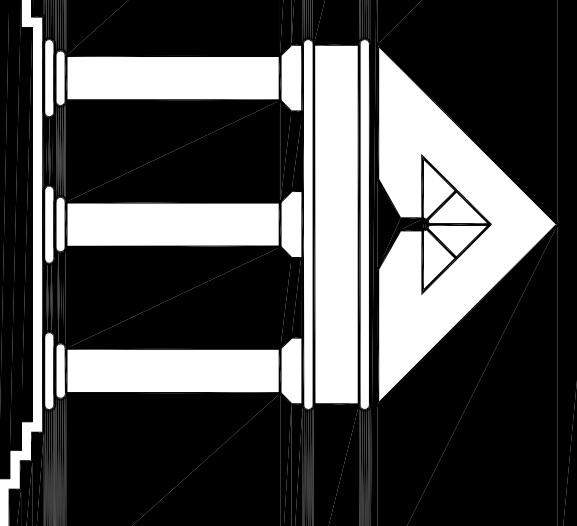


Date: 4/8/2013

NEW CONSTRUCTION	Date:
100% DESIGN DEVELOPMENT	7/27/2012
ISSUED FOR PERMIT AND BD	3/13/2013
ISSUED FOR PERMIT REVISIONS	4/8/2013
	5/28/2013
	5/28/2013

BUILDING SECTIONS

A-5.1 DATE: DRAWN BY:
CHECKED BY: FILE NO. 10500



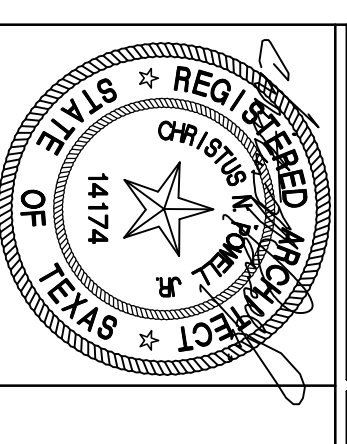
ARCHI•TECHNICS/3, INC.

ARCHITECTURE
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1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051



Date: 4/8/2013

NEW CONSTRUCTION
100% DESIGN DEVELOPMENT
7/27 / 2012

ISSUED FOR PERMIT AND BD
4/8 / 2013

ADDITIONAL IS
5/28 / 2013

ISSUE FOR PERMIT REVISIONS
SHEET CONTENTS
WALL SECTIONS
5/28 / 2013

A-6.0 DATE: DRAWN BY:
CHECKED BY: 082550
SHT. OF FILE NO.

- 1 MODULAR BRICK
- 2 8" X 8" X 8" CONCRETE MASONRY UNITS
- 3 SOLID GROUT FILL
- 4 HORIZONTAL STEEL REBAR REINFORCEMENT
- 5 VERTICAL STEEL REBAR REINFORCEMENT
- 6 SCHEDULED DOOR FRAME
- 7 SCHEDULED DOOR
- 8 SCHEDULED STOREROOM SYSTEM
- 9 STEEL COLUMN, REFER TO STRUCTURAL DRAWINGS
- 10 STEEL BEAM, REFER TO STRUCTURAL DRAWINGS (PANT)
- 11 METAL DECKING (PANT)
- 12 BATTEN SEAM METAL ROOF, KYMAR 500 FINISH
- 13 RIDGE VENT, KYMAR 500 FINISH
- 14 2" RIGID INSULATION
- 15 8" X 8" X 8" CMU BOND BEAM
- 16 HORIZONTAL MASONRY REINFORCEMENT WITH ADJUSTABLE BRICK TIES
- 17 CONTINUOUS BACKER ROD AND SEALANT, SHIM AS NECESSARY
- 18 SCHEDULED METAL THRESHOLD SET SOLID IN SCHEDULED LOWER VENT
- 19 PERFORATED FLAT METAL PANEL SECURED TO METAL STUD FRAMING BACK UP CONTROL JOINT
- 20 ALUMINUM SUB SILL
- 21 1/2" THICK EXTERIOR GRADE PLYWOOD CONTINUE METAL TRIM
- 22 OVERHEAD ROLLING DOOR
- 23 GRADE WFG OR EQUAL ICE AND WATER SHIELD MEMBRANE AREA WITH BOND INSULATION AT ROOF AND ROOF FLASH AREA
- 24 STEEL ANGLE REFER TO STRUCTURAL DRAWINGS
- 25 3/8" METAL STUDS
- 26 1/2" THICK SHEATHING
- 27 VAPOR BARRIER BUILDING WRAP, TYVEK WFG OR EQUAL, COMMERCIAL BUILDING WRAP
- 28 6" METAL STUDS HEAVY GAUGE
- 29 OVERHEAD ROLLING GRILLE
- 30 CONTINUOUS BITUMINOUS DAMPROOFING APPLIED TO EXTERIOR FACE OF CMU
- 31 VAPOR BARRIER APPLIED TO ROOF DECK AS SPECIFIED
- 32 SCHEDULED LIGHT FIXTURE
- 33 SPECIFIED TOILET FIXTURE
- 34 R-9 BATT - INSULATION INSTALLED PER SPEC
- 35 SPECIFIED TOILET ACCESSORY
- 36 MOISTURE AND IMPACT RESISTANT 5/8" GYPSUM BOARD (PANT)
- 37 1 1/2" X 4" X 3/8" STEEL ANGLE CONTINUOUS ATTACHED TO LOWER VENT AND MAIN WALL
- 38 CONTINUOUS METAL GUTTER WITH DOWNSPOUT
- 39 R-30 BATT - INSULATION INSTALLED PER SPEC

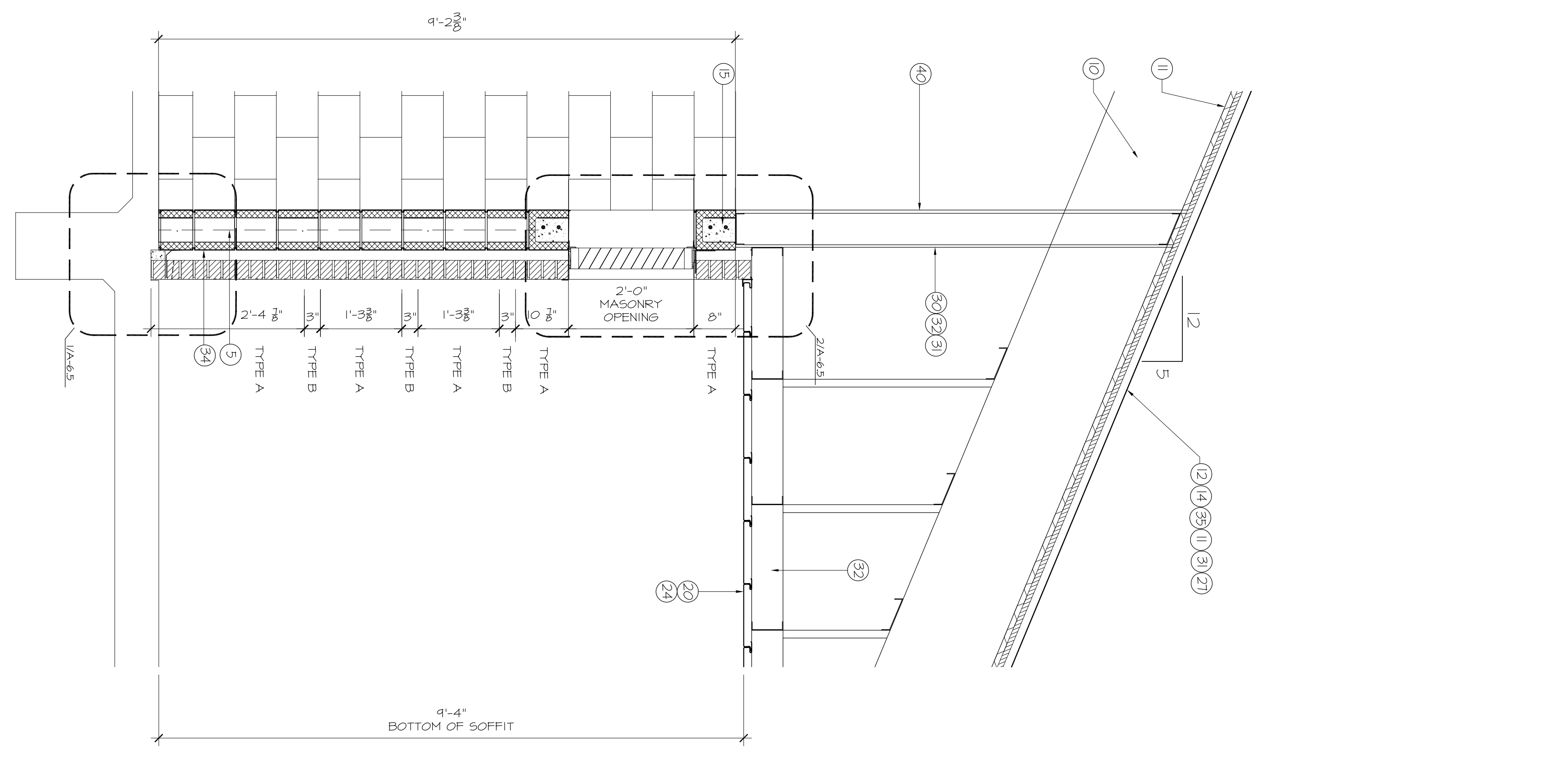
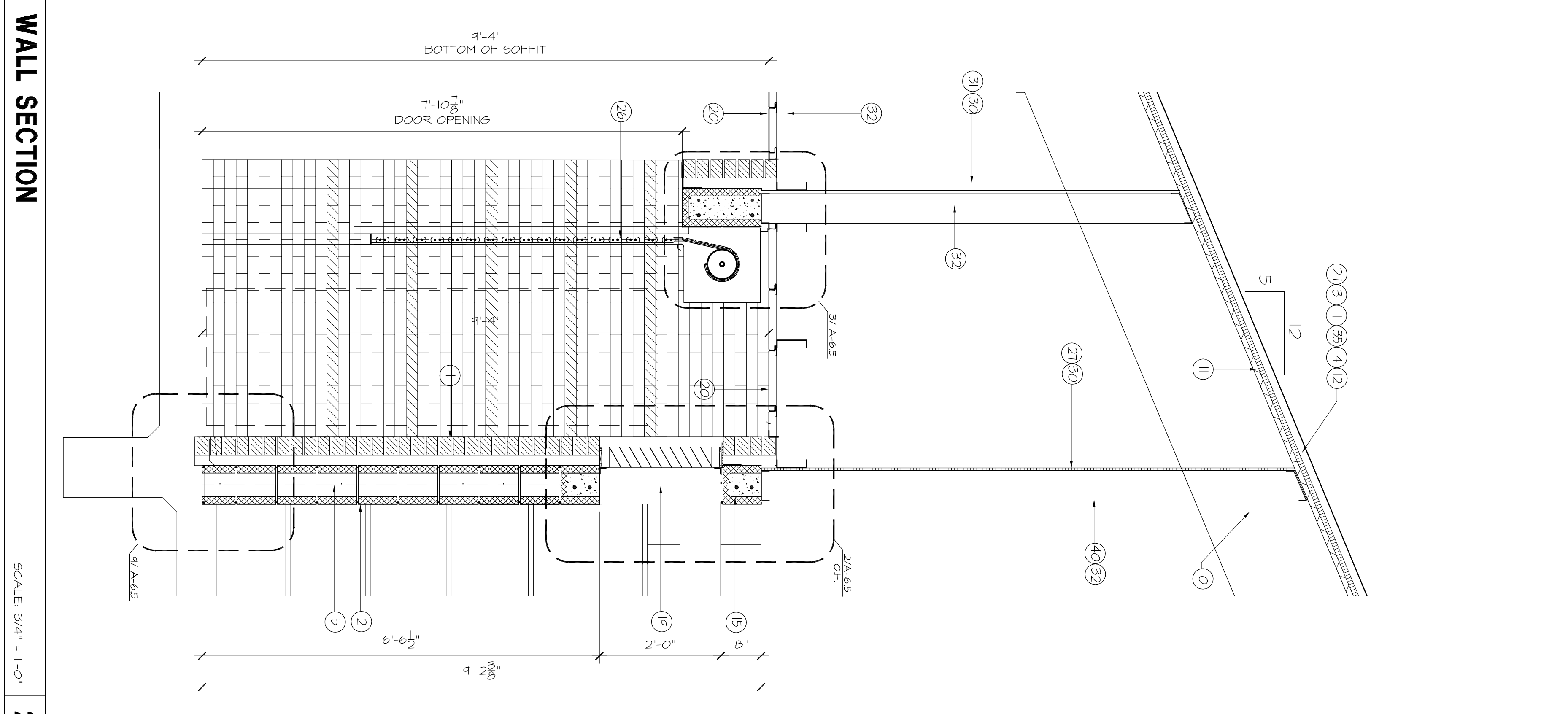
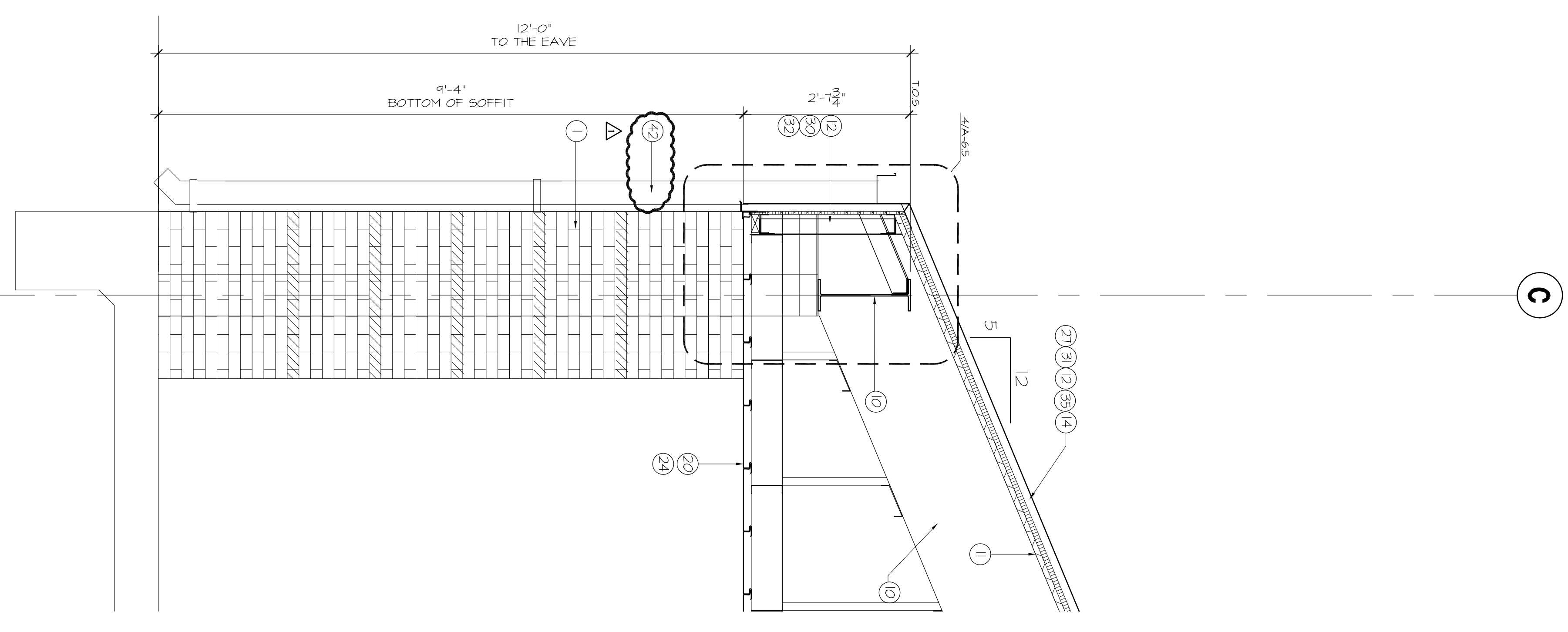
NOTES TO DRAWINGS

- TYPE A
BRICK VENEER
PRODUCT: SIOUX CITY BRICK
COLOR: RED YELLOW
- TYPE B
BRICK VENEER AGENT
PRODUCT: SIOUX CITY BRICK
COLOR: EBONITE YELLOW

LEGEND

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9. REFER TO SHEET A-11.0 FOR DOOR SCHEDULE INFORMATION.
10. REFER TO SHEET A-12.0 FOR WINDOW SCHEDULE INFORMATION.
11. REFER TO SHEET A-9.0 FOR PARTITION TYPES.
12. REFER TO SHEET A-10.0 FINISH SCHEDULE AND PLANS FOR ALL FINISHES UNLESS OTHERWISE NOTED.
13. REFER TO G-0.3 FOR ACCESSIBLE MOUNTING HEIGHTS FOR PLUMBING FIXTURES AND TOILET ACCESSORIES.
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GENERAL NOTES



WALL SECTION

3

WALL SECTION

2

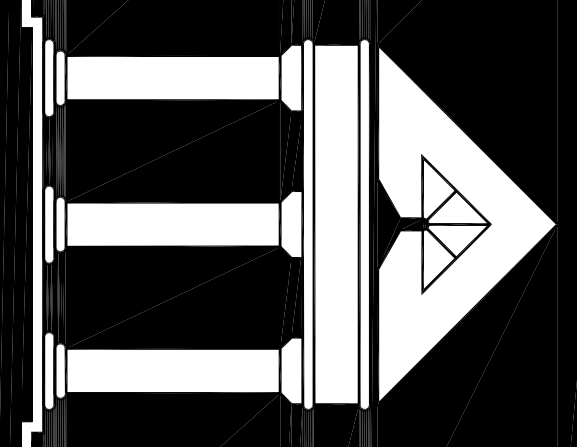
WALL SECTION

1

GENERAL NOTES

A-6.0 DATE: DRAWN BY:
CHECKED BY: 082550
SHT. OF FILE NO.

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



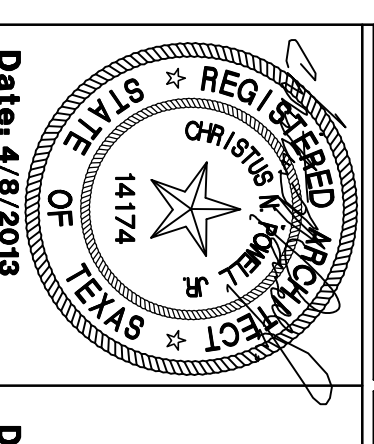
ARCHI•TECHNICS/3, INC.

ARCHITECTURE
URBAN DESIGN
INTERIORS
CONSTRUCTION MANAGEMENT

5555 West Loop South Suite #400
Bellaire, Texas 77401
TEL 713/888-0088 FAX 713/488-2613

HCC SOUTH CAMPUS RECREATIONAL COMPLEX

1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051



Date: 4/8/2013

NEW CONSTRUCTION 7/27/2012

100% DESIGN DEVELOPMENT 3/13/2013

ISSUED FOR PERMIT AND BID 4/8/2013

APPROVED FOR PERMIT 5/28/2013

ISSUE FOR PERMIT REVISIONS 5/28/2013

SHEET CONTENTS
WALL SECTIONS

DATE: 4/8/2013
DRAWN BY: A-6.1
CHECKED BY: [Signature]
SHT. OF: 3
FILE NO.: 082550

- ① MODULAR BRICK
- ② 8" X 8" X 16" CONCRETE MASONRY UNITS
- ③ SOLID GROUT FILL
- ④ HORIZONTAL STEEL REBAR REINFORCEMENT
- ⑤ VERTICAL STEEL REBAR REINFORCEMENT
- ⑥ SCHEDULED DOOR FRAME
- ⑦ SCHEDULED DOOR
- ⑧ SCHEDULED STOREFRONT SYSTEM
- ⑨ STEEL COLUMN, REFER TO STRUCTURAL DRAWINGS
- ⑩ STEEL BEAM, REFER TO STRUCTURAL DRAWINGS (PANT)
- ⑪ METAL DECKING (PANT)
- ⑫ BATTEN SEAM METAL ROOF, KYMAR 500 FINISH
- ⑬ RIDGE VENT, KYMAR 500 FINISH
- ⑭ 2" RIGID INSULATION
- ⑮ 8" X 8" X 16" CMU BOND BEAM
- ⑯ HORIZONTAL MASONRY REINFORCEMENT WITH ADJUSTABLE BRICK TIES
- ⑰ CONTINUOUS BACKER ROD AND SEALANT, SIMILAR AS NECESSARY
- ⑱ SCHEDULED METAL THRESHOLD SET SOLID IN SCHEDULED LOWER VENT
- ⑲ PERFORATED FLAT METAL PANEL SECURED TO METAL STUD FRAMING BACK UP
- ⑳ CONTROL JOINT
- ㉑ ALUMINUM SUB SILL
- ㉒ 1/2" THICK EXTERIOR GRADE PLYWOOD CONTINUE METAL TRIM
- ㉓ OVERHEAD ROLLING DOOR
- ㉔ GRADE WFG OR EQUAL, ICE AND WATER SHIELD MEMBRANE APPLIED OVER BOND INSULATION AT ROOF AND ROOF FLASH AREA
- ㉕ STEEL ANGLE REFER TO STRUCTURAL DRAWINGS
- ㉖ 3/8" METAL STUDS
- ㉗ 1/2" THICK SHEATHING
- ㉘ VARIOUS SETBACK BUILDING WRAP, TYVEK WR9 OR EQUAL, 6" METAL STUDS HEAVY GAUGE
- ㉙ OVERHEAD ROLLING GRILLE
- ㉚ CONTINUOUS BITUMINOUS DAMPROOFING APPLIED TO EXTERIOR FACE OF CMU
- ㉛ VAPOR BARRIER APPLIED TO ROOF DECK AS SPECIFIED
- ㉜ SCHEDULED LIGHT FIXTURE
- ㉝ SPECIFIED TOILET FIXTURE
- ㉞ R-9 BATT - INSULATION INSTALLED PER SPEC.
- ㉟ SPECIFIED TOILET ACCESSORY
- ⓫ MOISTURE AND IMPACT RESISTANT 5/8" GYPSUM BOARD PAINT.
- ⓬ 1 1/2" X 4" X 3/8" STEEL ANGLE CONTINUOUS ATTACHED TO LOWER VENT METAL WALL
- ⓭ CONTINUOUS METAL GUTTER WITH DOWNSPOUT.
- ⓮ R-30 BATT - INSULATION INSTALLED PER SPEC.

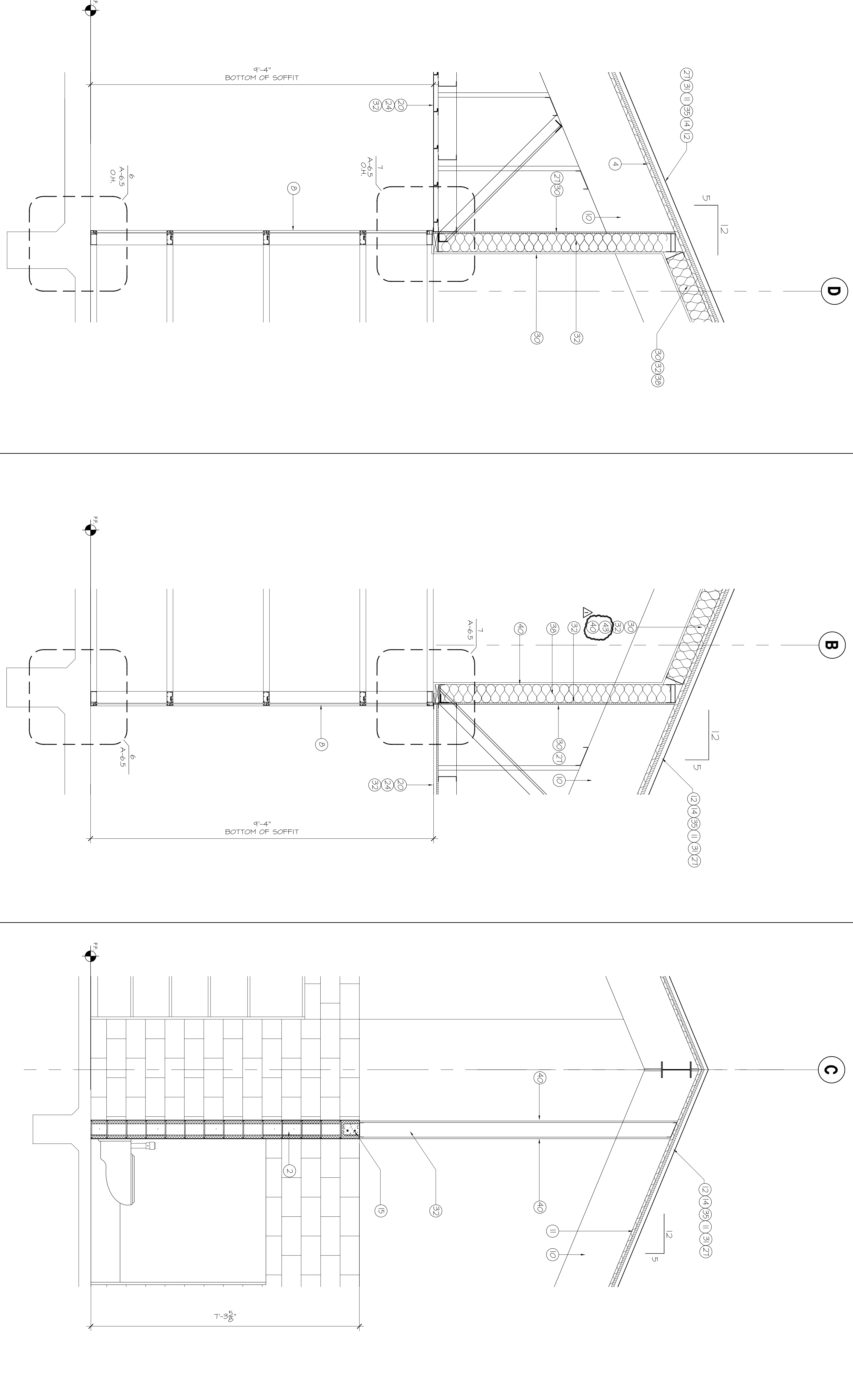
NOTES TO DRAWINGS

- TYPE A
BRICK VENEER
PRODUCT: SIQUX CITY BRICK
COLOR: RED YELLOW
- TYPE B
BRICK VENEER ACCENT
PRODUCT: SIQUX CITY BRICK
COLOR: EBONITE YELLOW

LEGEND

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GENERAL NOTES



WALL SECTION

WALL SECTION

WALL SECTION

1

2

3

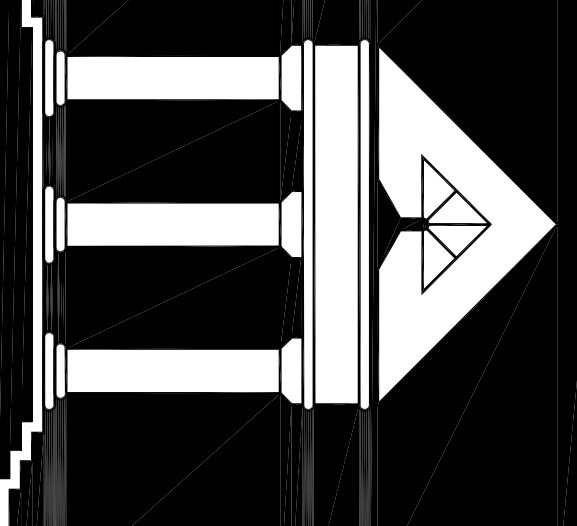
WALL SECTION

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

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

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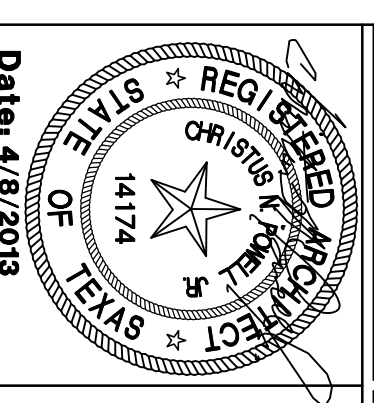
ARCHI•TECHNICS/3, INC.

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Date: 4/8/2013

NEW CONSTRUCTION	7/27/2012
100% DESIGN DEVELOPMENT	3/13/2013
ISSUED FOR PERMIT AND BID	4/8/2013
FORBIDDEN AS	5/28/2013
ISSUE FOR PERMIT REVISIONS	5/28/2013

SHEET CONTENTS
WALL SECTIONS

A-6.3 DATE: DRAWN BY: CHECKED BY: 082550
SHT. OF FILE NO.

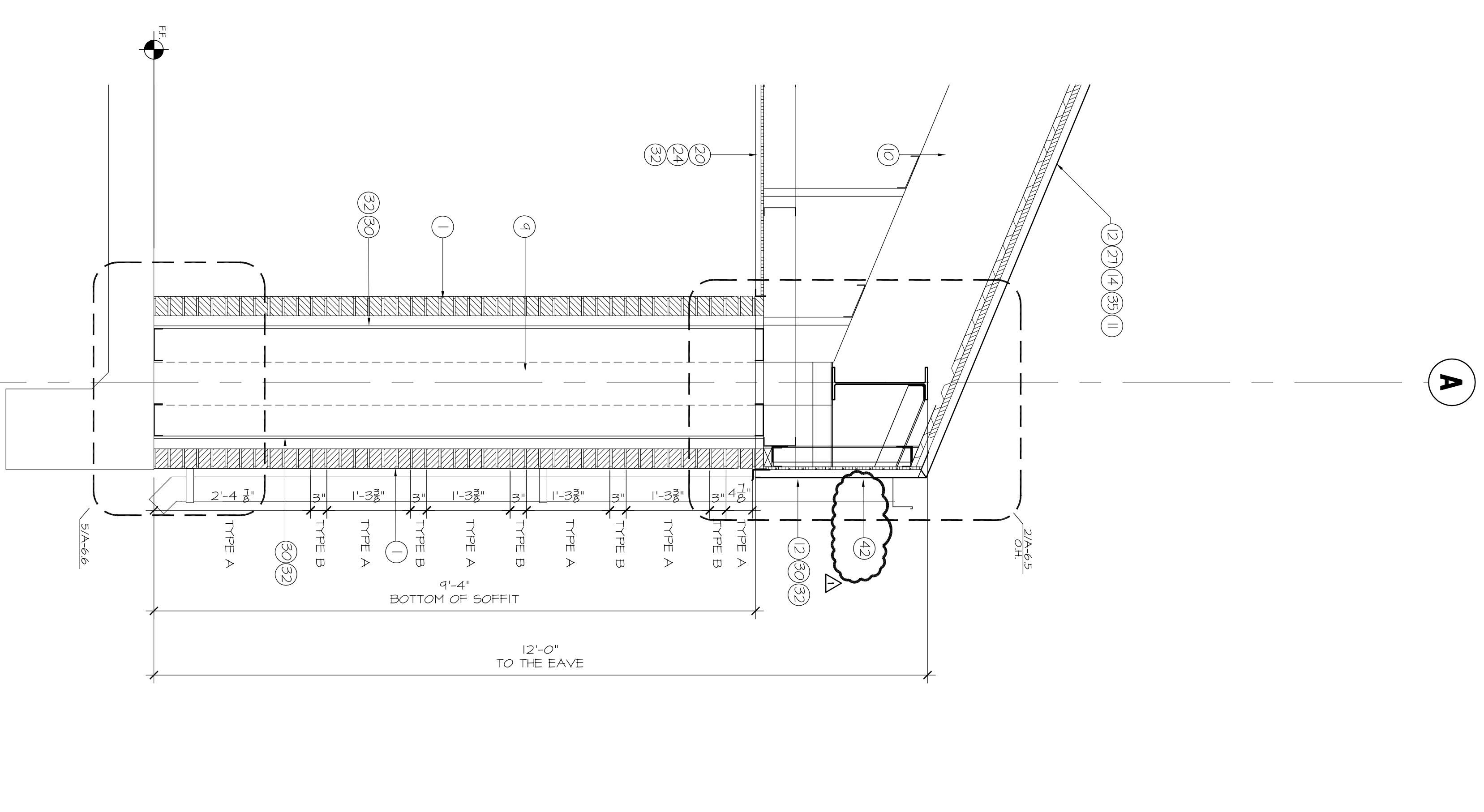
- 1 MODULAR BRICK
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- 5 VERTICAL STEEL REBAR REINFORCEMENT
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- 24 STEEL ANGLE REFER TO STRUCTURAL DRAWINGS
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- 28 OVERHEAD ROLLING GRILLE
- 29 CONTINUOUS BITUMINOUS DAMPROOFING APPLIED TO EXTERIOR FACE OF CMU
- 30 VAPOR BARRIER APPLIED TO ROOF DECK AS SPECIFIED
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- 34 SPECIFIED TOILET ACCESSORY
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LEGEND

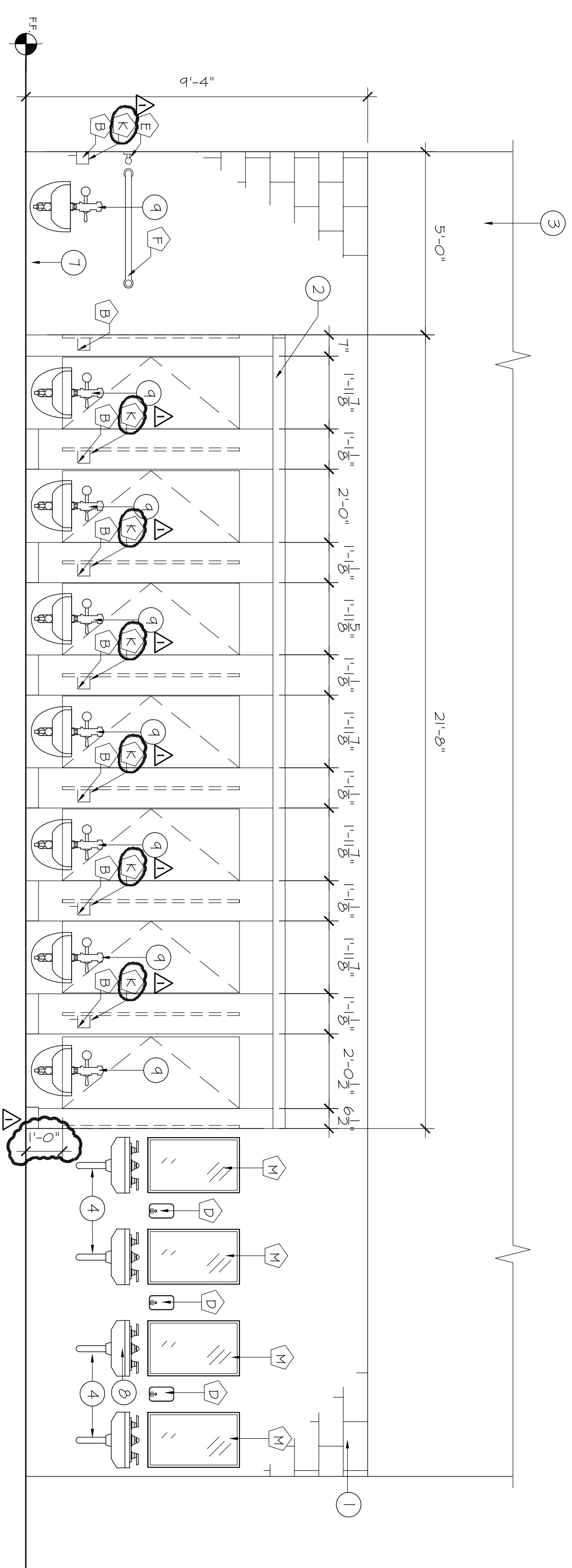
- TYPE A BRICK VENEER PRODUCT: SILOUX CITY BRICK COLOR: RED YELLOW
- TYPE B BRICK VENEER AGENT PRODUCT: SILOUX CITY BRICK COLOR: EBONITE YELLOW



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

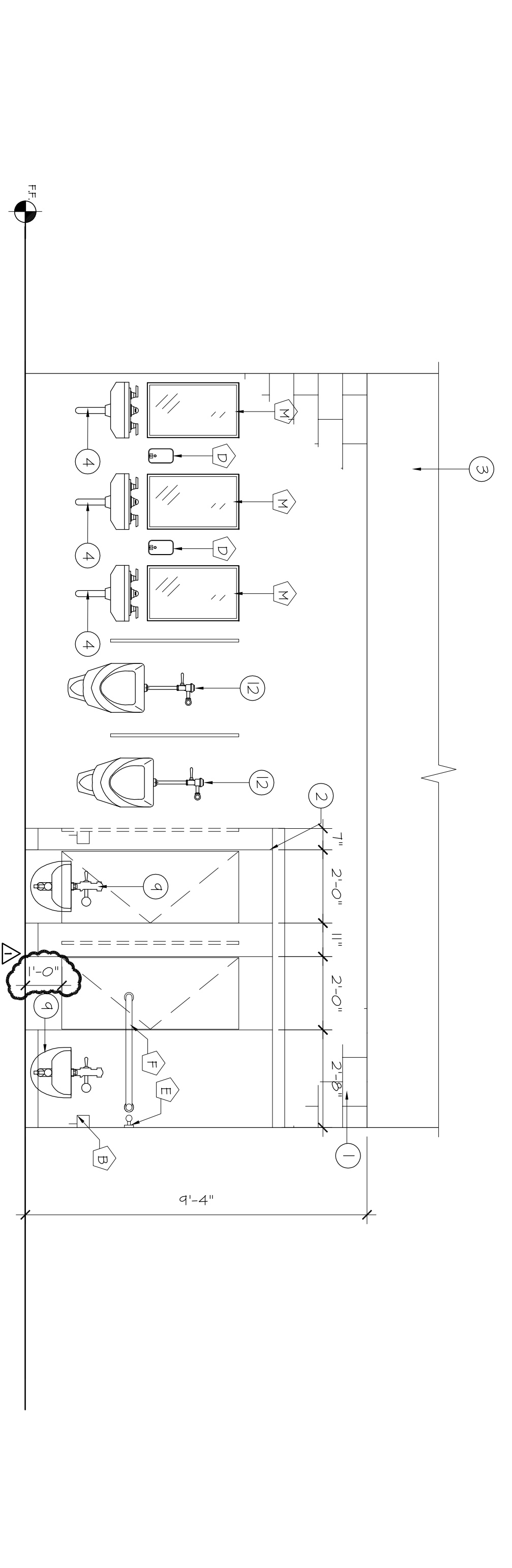
WALL SECTION SCALE: 3/4" = 1'-0"

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



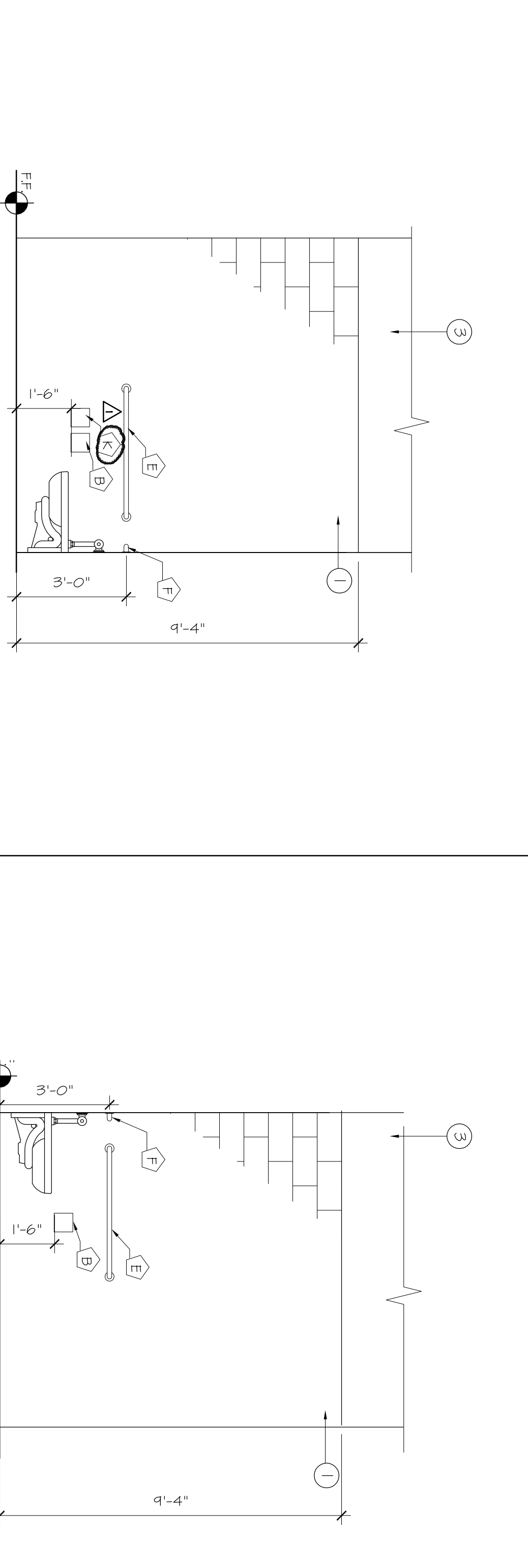
WOMEN RESTROOM 103

SCALE: 3/8" = 1'-0"



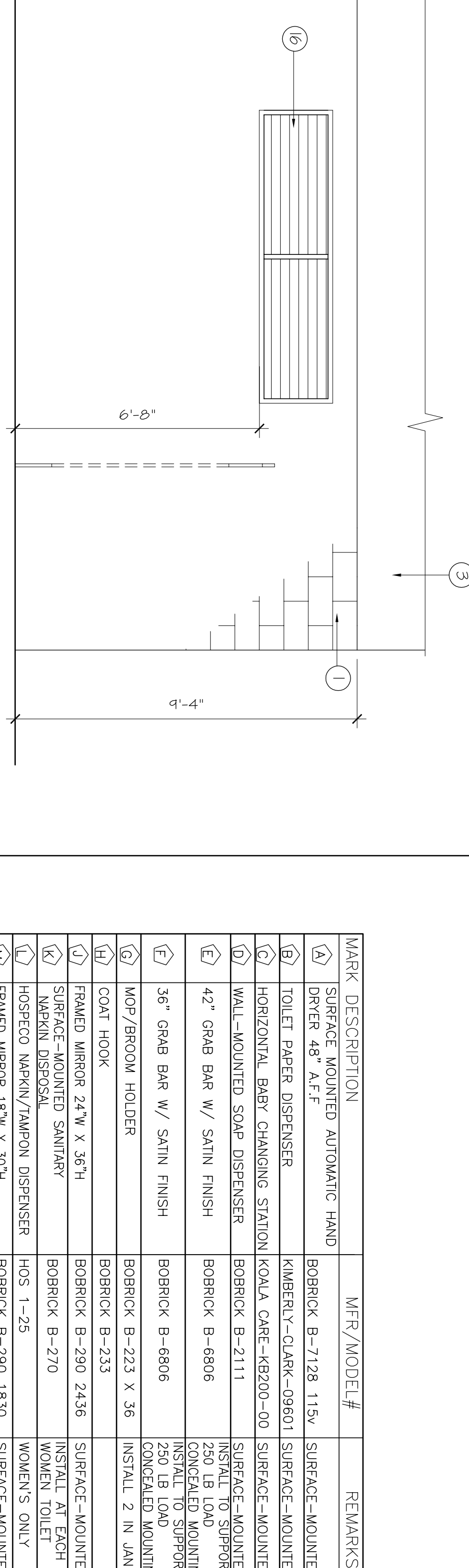
MEN RESTROOM 102

SCALE: 3/8" = 1'-0"



WOMEN RESTROOM

SCALE: 3/8" = 1'-0"



MEN RESTROOM

SCALE: 3/8" = 1'-0"

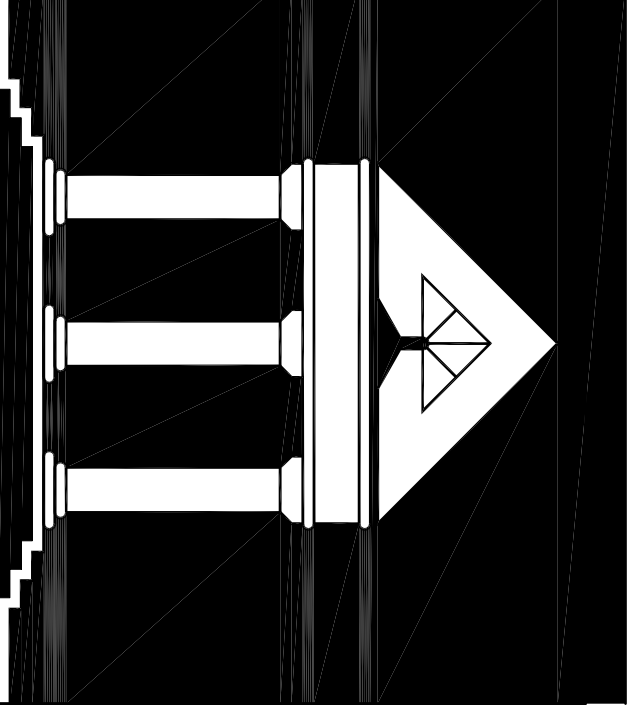
MARK	DESCRIPTION	MFR./MODEL #	REMARKS
(A)	SURFACE MOUNTED AUTOMATIC HAND DRYER 48" A.F.F.	BOBRICK B-7128 115V	SURFACE-MOUNTED
(B)	TOILET PAPER DISPENSER	KIMBERLY-CO. J&K-C9801	SURFACE-MOUNTED
(C)	HORIZONTAL BABY CHANGING STATION	KOALA CARE-49290-00	SURFACE-MOUNTED
(D)	WALL-MOUNTED SOAP DISPENSER	BOBRICK B-2111	INSTALL TO SUPPORT
(E)	42" GRAB BAR W/ SATIN FINISH	BOBRICK B-6806	INSTALL TO SUPPORT
(F)	35" GRAB BAR W/ SATIN FINISH	BOBRICK B-6806	250 LB. LOAD
(G)	MOY/ROOM HOLDER	BOBRICK B-223 X 36	CONCEALED MOUNTING
(H)	COAT HOOK	BOBRICK B-233	INSTALL 2 IN JAN. RW
(I)	FRAMED MIRROR 24" W X 36" H	BOBRICK B-290 2436	SURFACE-MOUNTED
(J)	SURFACE-MOUNTED SWANNEY	BOBRICK B-270	WOMEN TOILET
(K)	HORIZONTAL MIRROR/TRANSOM DISPENSER	HOS 1-25	WOMEN'S ONLY
(L)	FRAMED MIRROR 18" W X 30" H	BOBRICK B-290 1830	SURFACE-MOUNTED

- 1 PAINTED CONCRETE MASONRY UNITS
- 2 SPECIFIED TOILET COMPARTMENTS
- 3 PAINTED MOISTURE AND HIGH IMPACT RESISTANT GYPSUM BOARD
- 4 INSULATED EXPOSED PIPING
- 5 PAINT SCHEDULED DOOR AND DOOR FRAME
- 6 PAINT EXPOSED STRUCTURAL METAL DECKING AND ALL EXPOSED STRUCTURAL ELEMENTS SCHEDULED BASE
- 7 LAVATORY, REFER TO MEP DRAWINGS
- 8 WATER CLOSET, REFER TO MEP DRAWINGS
- 9 SCHEDULED DOOR AND FRAME
- 10 DRINKING FOUNTAIN, REFER TO MEP DRAWINGS
- 11 URINAL, REFER TO MEP DRAWINGS
- 12 SCHEDULED STOREROOM SYSTEM
- 13 HEAVY DUTY METAL SHELVES 12"
- 14 3/4" MEDIUM DENSITY FIBER BOARD HIGH PRESSURE LAMINATE/ SLATWALL SYSTEM WITH T EXTRUDED ALUMINUM CHANNEL, INSERTS, SLATWALL SHELVING BRACKETS AND SHELVES.
- 15 SCHEDULED LOUVER VENT

NOTES TO DRAWINGS

1. DO NOT SCALE DRAWINGS. CONTRACTOR TO REPORT ANY DISCREPANCIES OR OMISSIONS PRIOR TO START WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING CONSTRUCTION.
2. GRID LINES ARE TO CENTERLINE OF STRUCTURAL COLUMN UNLESS NOTED OTHERWISE.
3. ALL CONSTRUCTION SHALL COMPLY WITH ALL BUILDING CODES AND REQUIREMENTS HAVING JURISDICTION OVER THIS PROJECT.
4. ALL INTERIOR WALL DIMENSIONS ARE TO FACE OF WALL UNLESS NOTED OTHERWISE.
5. ALL EXTERIOR DIMENSIONS ARE TO FACE OF MASONRY UNLESS NOTED OTHERWISE.
6. DIMENSIONS FOR ELEVATIONS, SECTIONS AND DETAILS ARE CALLED OUT FROM TOP OF SLAB.
7. CONTRACTOR TO PROVIDE WOOD BLOCKING FOR ALL MILLWORK AND ANY WALL HANG COUNTERS, SHELVING AND PLUMBING FIXTURES. ALL WOOD BLOCKING TO BE FIRE RESISTANT.
8. ALL FINISH WORK TO BE SMOOTH AND FREE FROM ABRASIONS. ALL SPECIFIED FINISHES SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
9. REFER TO SHEET A-110 FOR DOOR SCHEDULE INFORMATION
10. REFER TO SHEET A-120 FOR WINDOW SCHEDULE INFORMATION
11. REFER TO SHEET A-90 FOR PARTITION TYPES
12. REFER TO SHEET A-100 FINISH SCHEDULE AND PLANS FOR ALL FINISHES UNLESS OTHERWISE NOTICED.
13. REFER TO 0-03 FOR ACCESSIBLE MOUNTING HEIGHTS FOR PLUMBING FIXTURES AND TOILET ACCESSORIES.
14. CONTRACTOR TO REFER TO STRUCTURAL DRAWINGS FOR DETAILS RELATED TO THE FOUNDATION AND STRUCTURAL SUPPORT OF WORK.

GENERAL NOTES

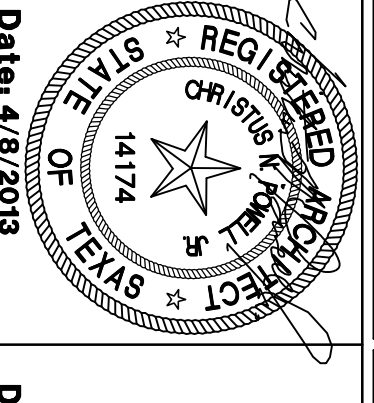


ARCHI•TECHNICS/3, INC.
 ARCHITECTURE
 URBAN DESIGN
 INTERIORS
 CONSTRUCTION MANAGEMENT

5555 West Loop South Suite #400
 Bellaire, Texas 77401
 TEL 713/888-0088 FAX 713/488-2613

**HCC SOUTH CAMPUS
 RECREATIONAL COMPLEX**

1990 AIRPORT BLVD.
 HOUSTON, TEXAS 77051

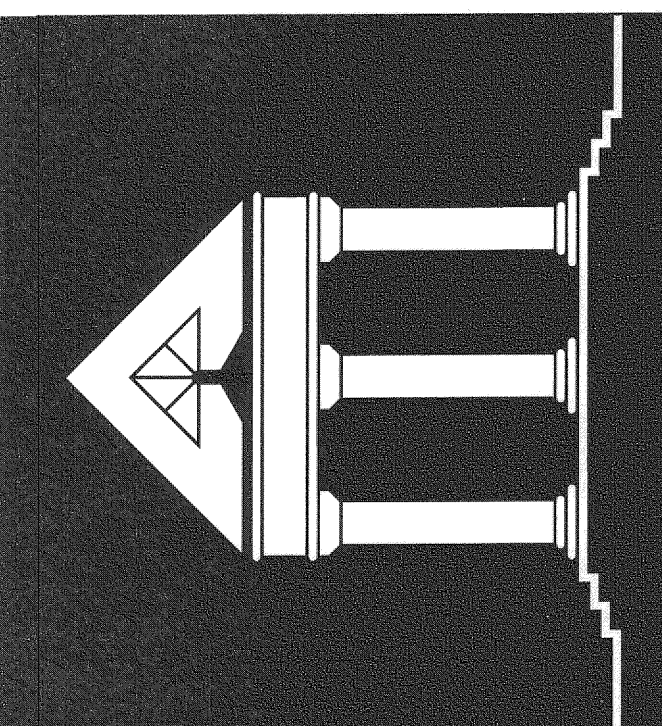


Date: 4/8/2013

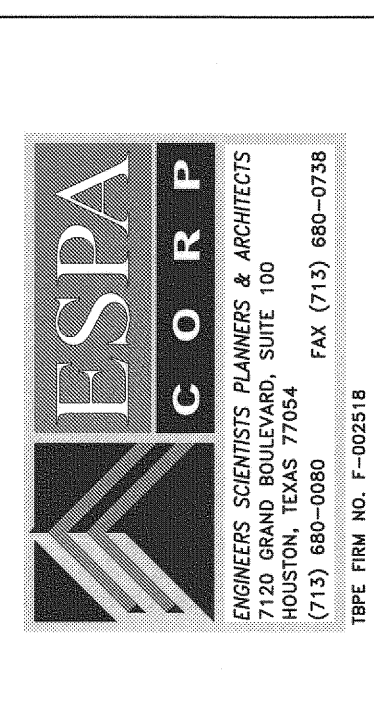
NEW CONSTRUCTION	Date:
100% DESIGN DEVELOPMENT	7/27/2012
90% CD	3/13/2013
ISSUED FOR PERMIT AND BD	4/8/2013
ADDITIONAL #3	5/7/2013
ISSUE FOR PERMIT REVISIONS	5/28/2013

DATE	DRAWN BY
A-8.0	08250
CHECKED BY	08250
SHT. OF	08250

WOMEN RESTROOM 103	WOMEN RESTROOM 102	WOMEN RESTROOM 103	WOMEN RESTROOM 102
SCALE: 3/8" = 1'-0"	SCALE: 3/8" = 1'-0"	SCALE: 3/8" = 1'-0"	SCALE: 3/8" = 1'-0"
5 TOILET ACCESSORIES SCHEDULE	6 MEN RESTROOM	6 MEN RESTROOM	6 MEN RESTROOM
SCALE: 3/8" = 1'-0"	SCALE: 3/8" = 1'-0"	SCALE: 3/8" = 1'-0"	SCALE: 3/8" = 1'-0"
1	2	3	3

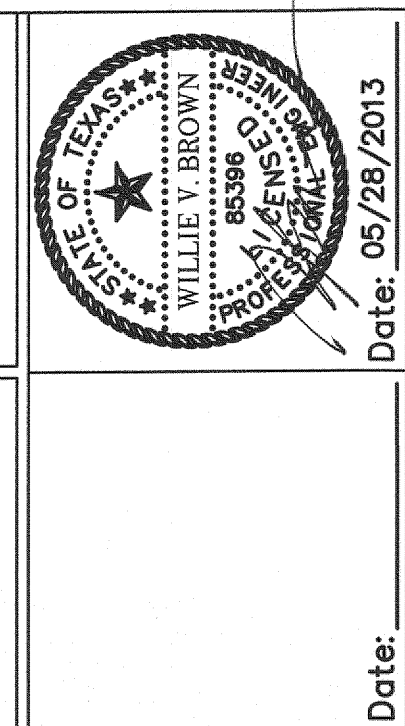


ARCHITECTURE
URBAN DESIGN
INTERIORS
CONSTRUCTION MANAGEMENT



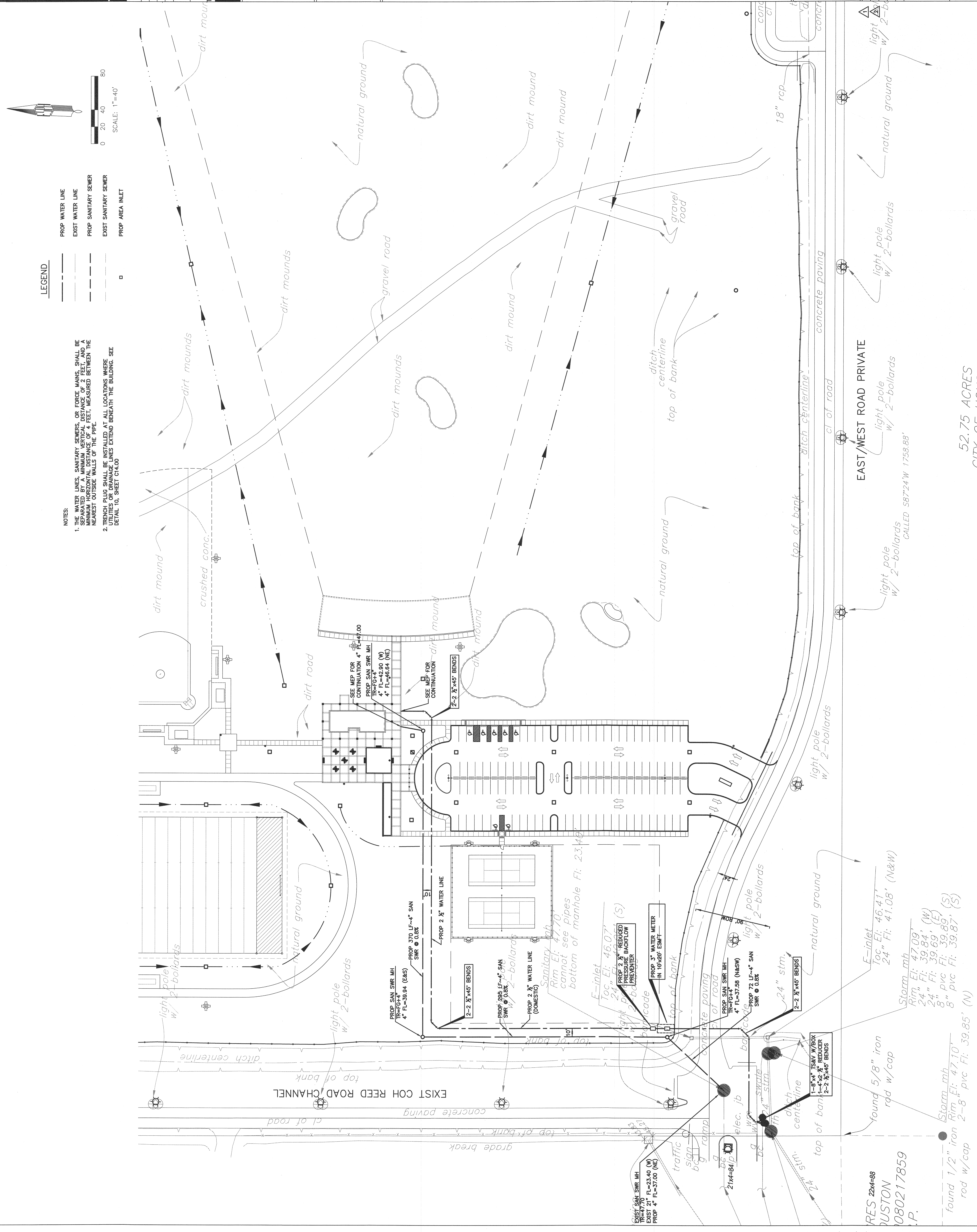
ENGINEERS, SCIENTISTS, PLANNERS & ARCHITECTS
7100 GRAND BOULEVARD, SUITE 100
HOUSTON, TEXAS 77044
(713) 860-0880 FAX (713) 860-0758
TYPE FORM NO. 1-202518

HOUSTON COMMUNITY COLLEGE
SOUTH CAMPUS
1990 AIRPORT BOULEVARD
HOUSTON, TEXAS 77045



Date: 05/28/2013
ADDITIONAL 1 05/01/2013
ADDITIONAL 3 & PERMIT REV 05/28/2013

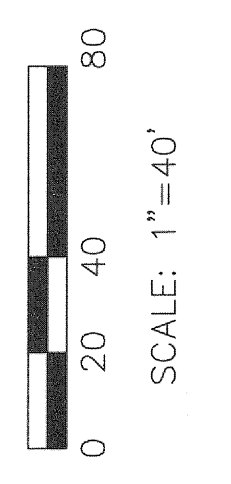
UTILITY LAYOUT
C 4.01
DATE: 4/29/2013
DRAWN BY: ESPA
CHECKED BY: WB
FILE NO.



LEGEND

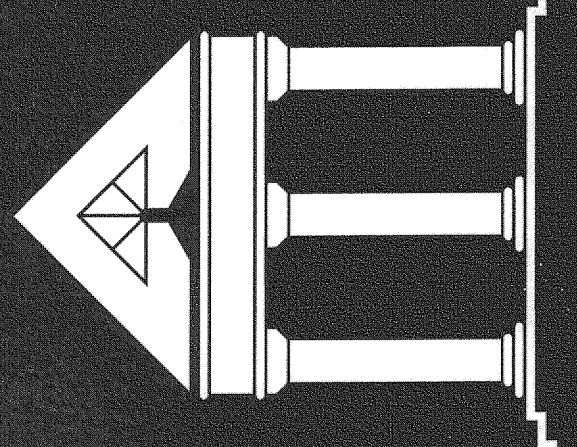
- PROP WATER LINE
- EXIST WATER LINE
- PROP SANITARY SEWER
- EXIST SANITARY SEWER
- PROP AREA INLET

- NOTES:**
1. THE WATER LINES, SANITARY SEWERS, OR FORCE MAINS, SHALL BE SEPARATED BY A MINIMUM VERTICAL DISTANCE OF 2 FEET, AND A MINIMUM HORIZONTAL DISTANCE OF 2 FEET, MEASURED BETWEEN THE NEAREST OUTSIDE WALLS OF THE PIPE.
 2. TRENCH PLUG SHALL BE INSTALLED AT ALL LOCATIONS WHERE UTILITIES CROSS UNDERNEATH THE BUILDING. SEE DETAIL TO, SHEET C14.00



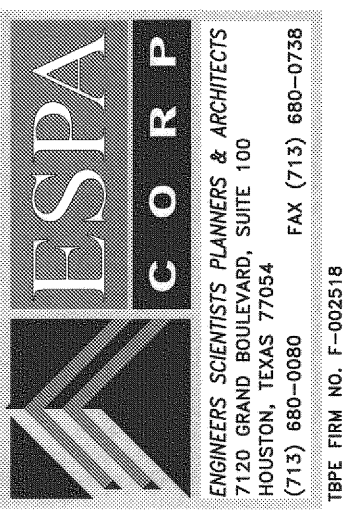
RES 2244-68
HOUSTON
080217859
P.

52.75 ACRES
CITY OF HOUSTON



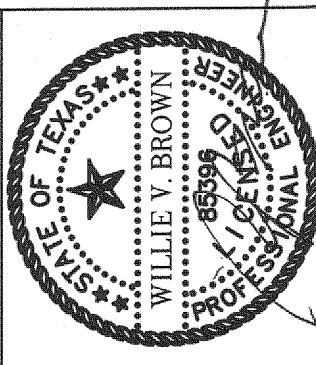
ARCHIT*TECHNICS/3, INC.
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 URBAN DESIGN
 INTERIORS
 CONSTRUCTION MANAGEMENT

5555 West Loop, South Suite #400
 HOUSTON, TEXAS 77045
 TEL 713/668-0088 FAX 713/468-2813



1718 GRAND BOULEVARD, SUITE 100
 HOUSTON, TEXAS 77044
 (713) 860-0900
 FAX (713) 660-0788
 TYPE PLAN NO. E-00218

HOUSTON COMMUNITY COLLEGE
SOUTH CAMPUS
1990 AIRPORT BOULEVARD
HOUSTON, TEXAS 77045



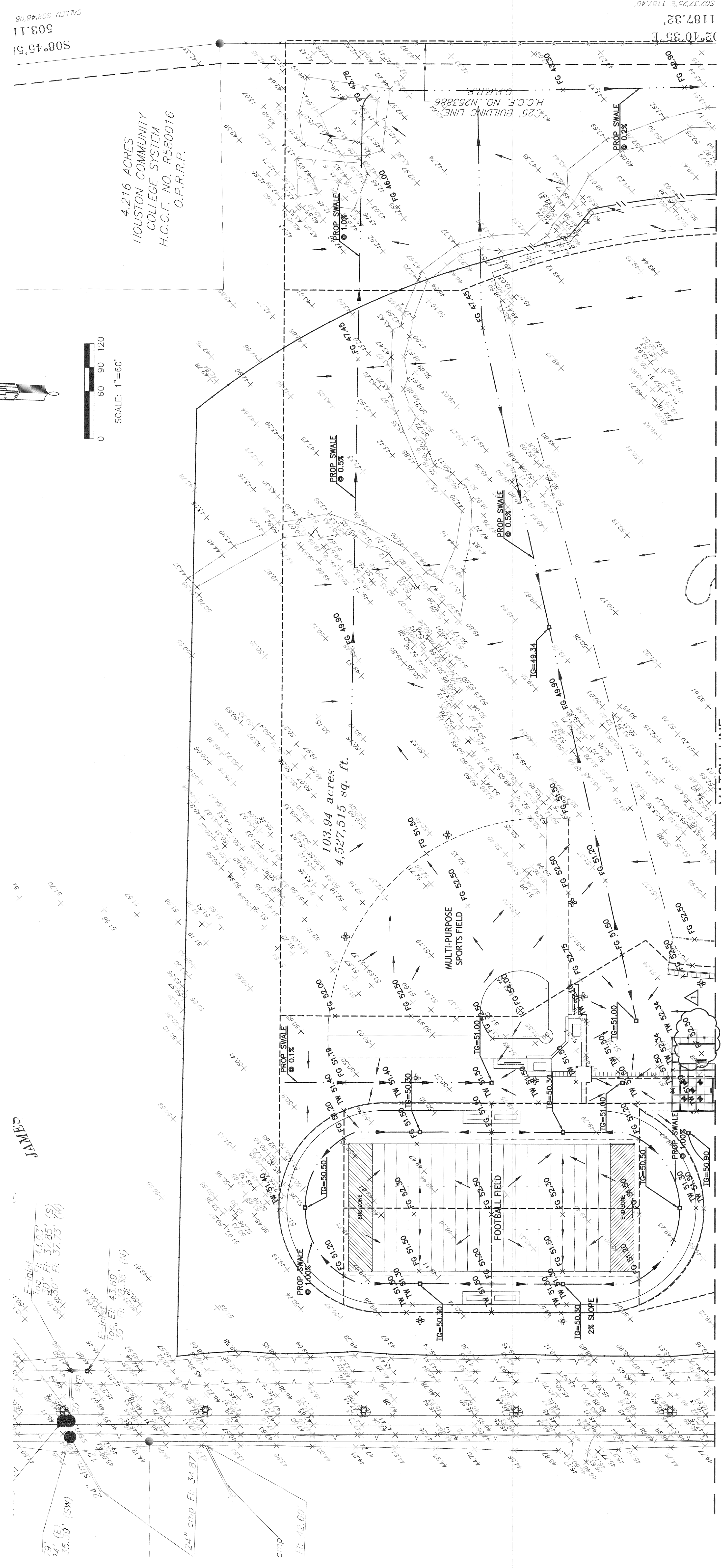
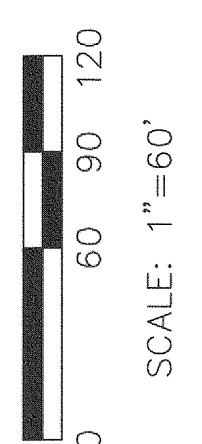
Date: 05/28/2013
 ADENDUM 1 05/07/2013
 ADENDUM 3 & PERMIT REV 05/28/2013

GRADING PLAN

C 6.00
 DATE: 4/29/2013
 DRAWN BY: ESPA
 CHECKED BY: WVB
 FILE NO.

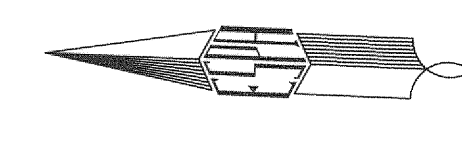
508'45.5'
 503.11
 CALLED 508'48.08

4.216 ACRES
 HOUSTON COMMUNITY
 COLLEGE SYSTEM
 H.C.C.F. NO. R580016
 O.P.R.R.P.



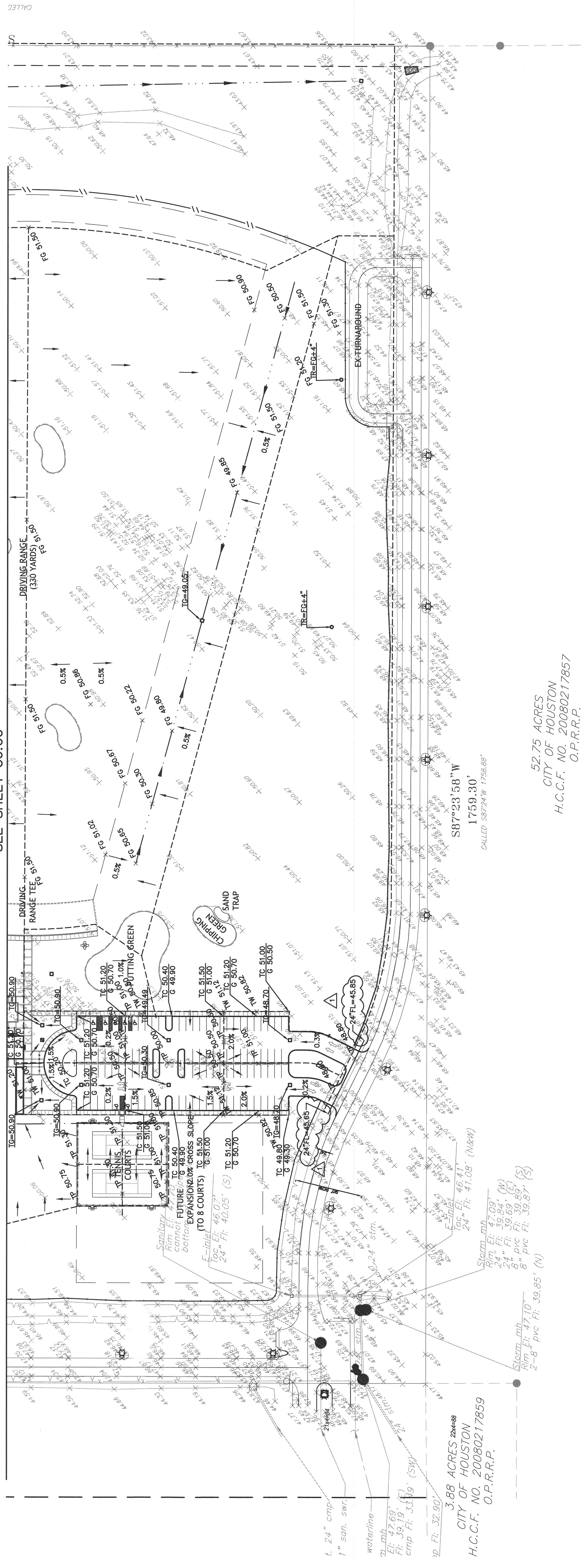
LEGEND:

TP	TOP OF PAVEMENT
TR	TOP RIM
TC	TOP OF CURB
TG	TOP OF GRATE
TW	TOP OF WALK
NG	NATURAL GROUND
FF	FINISHED FLOOR
MH	MANHOLE
FG	FINISHED GRADE
G	GUTTER
□	PROP JUNCTION BOX
○	PROP AREA INLET
○	PROP MANHOLE
△	EXISTING SURVEY ELEVATIONS
×	FINISHED GRADE ELEVATIONS
⊥	PROPERTY LINE
---	RIDGELINE
---	PROP SWALE
→	FLOW DIRECTION
HB	HIGH BANK ELEVATION
LB	LOW BANK ELEVATION



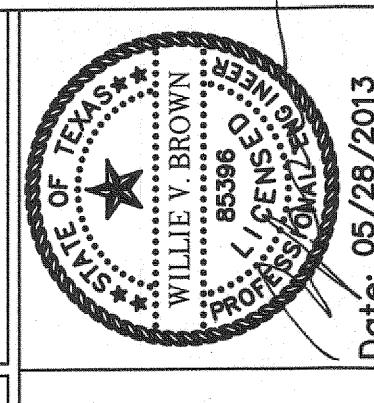
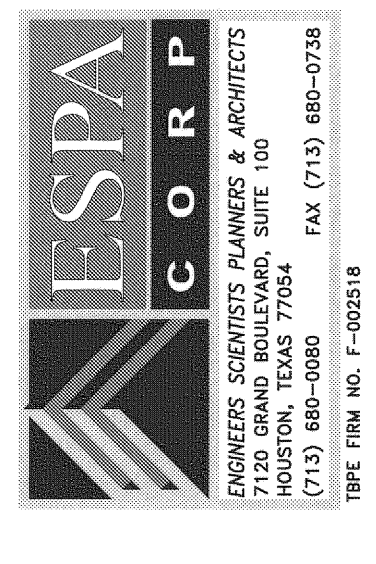
SCALE: 1"=60'
0 60 90 120

MATCH LINE
SEE SHEET C6.00



**HOUSTON COMMUNITY COLLEGE
SOUTH CAMPUS
1990 AIRPORT BOULEVARD
HOUSTON, TEXAS 77045**

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ARCHITECTURE
URBAN DESIGN
INTERIORS
CONSTRUCTION MANAGEMENT
5555 West Loop South Suite #400
Bellevue, Texas 77401
TEL 713/868-0088 FAX 713/468-2613



Date: 05/29/2013
ADDITION 1 05/01/2013
ADDITION 3 & PERMIT REV 05/26/2013

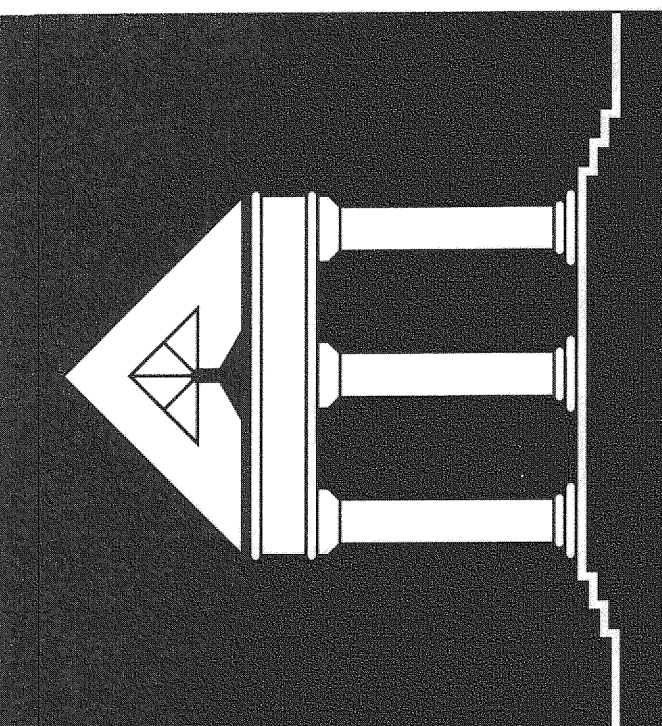
GRADING PLAN

C 7.00
DATE: 4/29/2013
DRAWN BY: ESSA
CHECKED BY: WB
FILE NO.

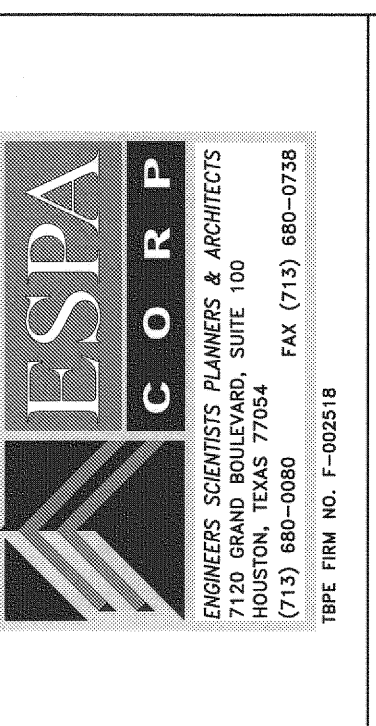
- LEGEND:**
- TP TOP OF PAVEMENT
 - TR TOP RIM
 - TC TOP OF CURB
 - TG TOP OF GRATE
 - TW TOP OF WALK
 - NG NATURAL GROUND
 - FF FINISHED FLOOR
 - MH MANHOLE
 - FG FINISHED GRADE
 - G GUTTER
 - PROPR-JUNCTION BOX
 - PROPR-AREA INLET
 - PROPR-MANHOLE
 - EXISTING SURVEY ELEVATIONS
 - FINISHED GRADE ELEVATIONS
 - PROPERTY LINE
 - RIDGELINE
 - PROPR-SWALE
 - FLOW DIRECTION
 - HB HIGH BANK ELEVATION
 - LB LOW BANK ELEVATION

52.75 ACRES
CITY OF HOUSTON
H.C.C.F. NO. 20080217857
O.P.R.R.P.

3.88 ACRES 2004-08
CITY OF HOUSTON
H.C.C.F. NO. 20080217859
O.P.R.R.P.



ARCHITECTURE
URBAN DESIGN
INTERIORS
CONSTRUCTION MANAGEMENT



ESPA
CORP

ENGINEERS, SCIENTISTS PLANNERS & ARCHITECTS

1742 GRAND BOULEVARD, SUITE 100
HOUSTON, TEXAS 77042
(713) 860-0900 FAX (713) 860-0708

TYPED FROM NO. E-023218

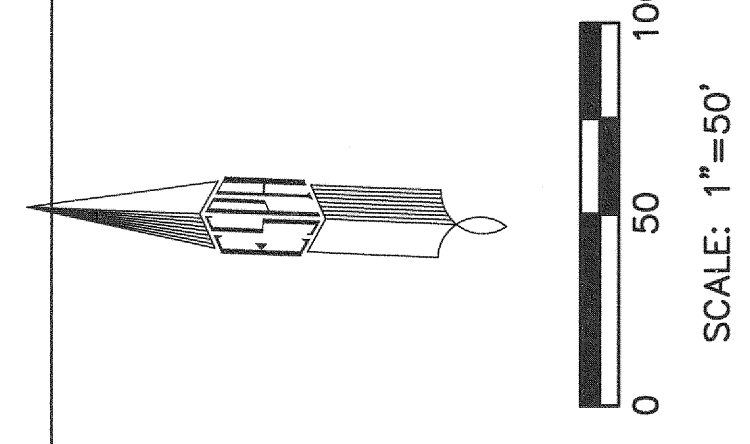
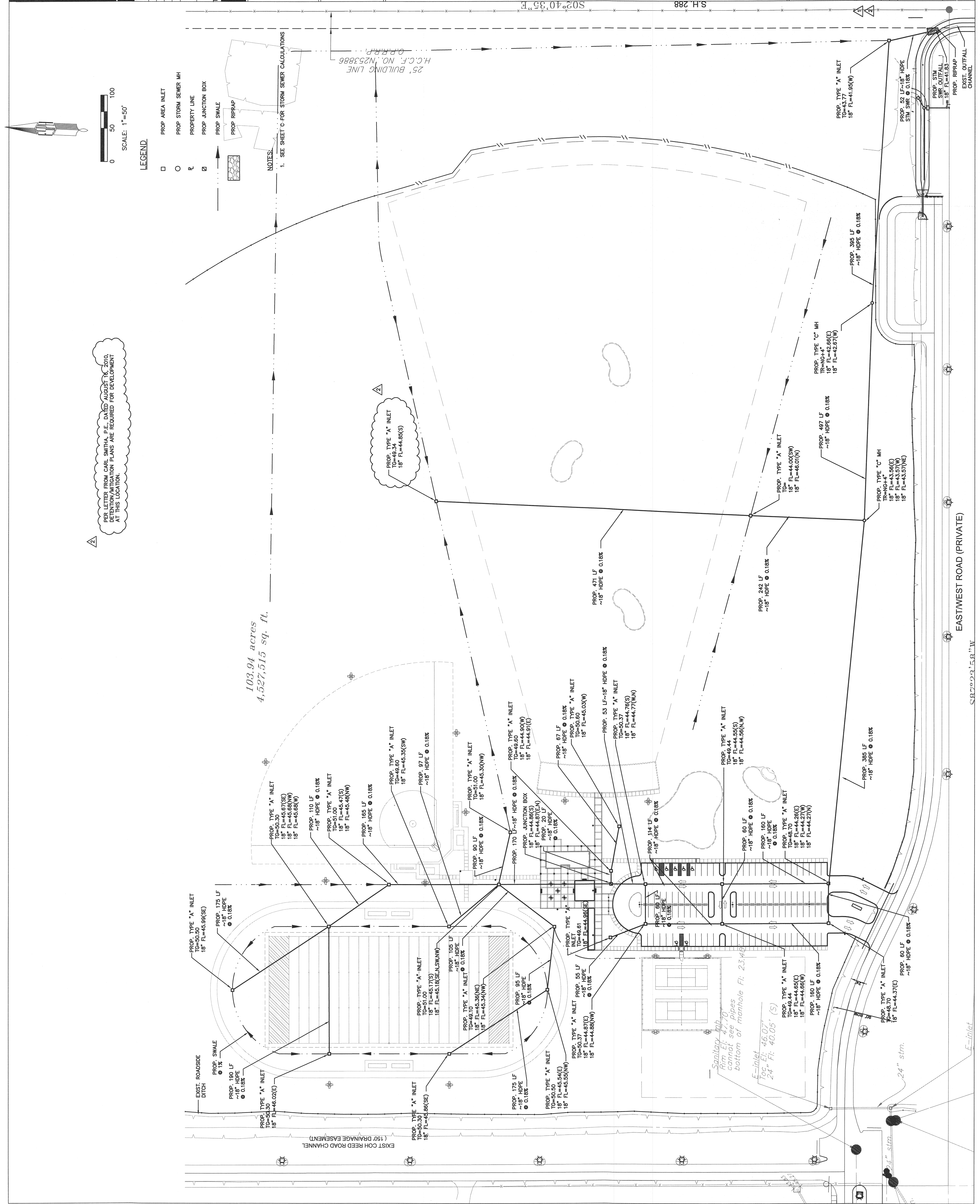
HOUSTON COMMUNITY COLLEGE
SOUTH CAMPUS
1990 AIRPORT BOULEVARD
HOUSTON, TEXAS 77045

Date: 05/29/2013
ADDENDUM 1
ADDENDUM 3 & PERMIT REV 05/29/2013

C 10.00

DATE: 4/29/2013
DRAWN BY: ESPA
CHECKED BY: WB
FILE NO.

STORM SEWER LAYOUT



- LEGEND**
- PROP AREA INLET
 - PROP STORM SEWER MH
 - PROPERTY LINE
 - ▣ PROP JUNCTION BOX
 - PROP SWALE
 - ▨ PROP RIPRAP

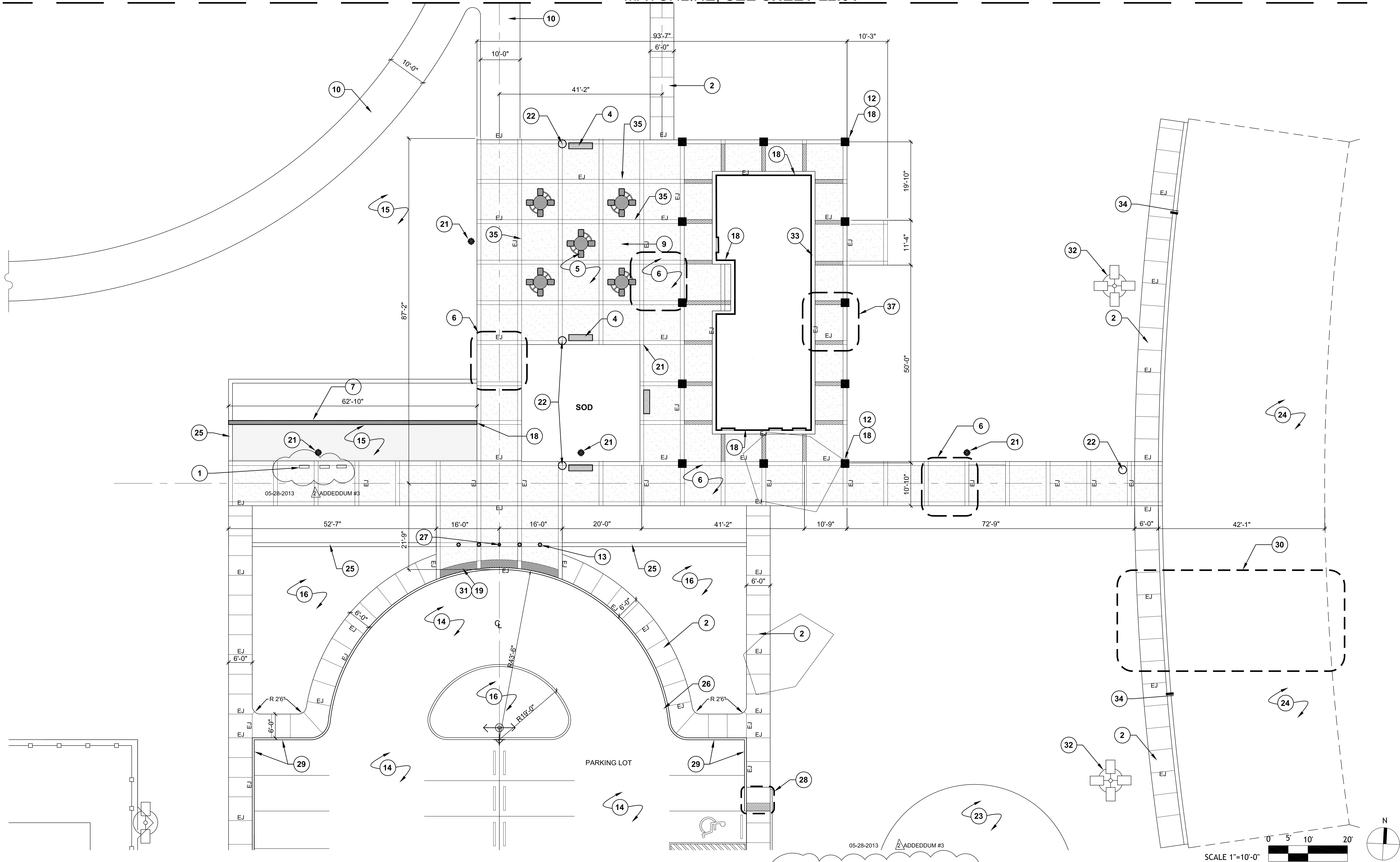
NOTES:
1. SEE SHEET C FOR STORM SEWER CALCULATIONS

PER LETTER FROM CARL SMITHA, P.E., DATED AUGUST 16, 2010,
RECOMMENDATION PLANS ARE REQUIRED FOR DEVELOPMENT
AT THIS LOCATION.

EASTWEST ROAD (PRIVATE)

S.82°03'5.0"N

MATCHLINE, SEE SHEET L2.01



- AREA LIGHT
- ⊕ FIELD LIGHT
- BOLLARD LIGHT
- ⊙ PARKING LOT LIGHT
- SECURITY BOLLARD (REMOVEABLE)
- ▬ BENCH

- A.** CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED LANDSCAPE WALLS, ELEMENTS, AND ALL SURVEYING COSTS FOR THE PROPOSED HARDSCAPE ELEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- B.** CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SURVEY COSTS IN LAYING OUT PROPOSED SITE ELEMENTS.
- C.** THE CONTRACTOR SHALL LAYOUT ALL PROPOSED LANDSCAPE ELEMENTS IN THE FIELD FOR APPROVAL BY LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO INITIATING CONSTRUCTION.
- D.** CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND CONDITIONS OF EXISTING UTILITIES.
- E.** PARKING LOT DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE STATED.

1. THREE(3) BICYCLE RACKS, SEE DETAIL #3, L3.08
2. NATURAL GRAY CONCRETE SIDEWALK, SEE DETAIL #1, SHEET L3.01.
3. INTEGRAL COLOR CONCRETE TYPE 'B' WITH ARCHITECTURAL FINISH, SEE DETAIL #2, SHEET L3.02.
4. BENCH WITH BACK REST, SEE DETAIL #4, SHEET L3.08.
5. PICNIC AREA, SEE DETAIL #3, SHEET L3.02.
6. PLAZA TYPE 'A' WITH INTEGRAL COLORED CONCRETE PAVING AND TYPE 'A' FINISH, SEE DETAIL #2, SHEET L3.02.
7. SEATING WALL, SEE DETAIL #4, SHEET L3.09.
8. NOT USED.
9. PICNIC TABLE, SEE DETAIL #6, SHEET L3.08.
10. 10'-0" WIDE 6" THICK CONCRETE TRAIL, SEE DETAIL #1, SHEET L3.01.
11. RESTROOM BUILDING, SEE ARCHITECTURAL DRAWINGS.
12. ARCHITECTURAL COLUMNS, SEE ARCHITECTURAL DRAWINGS.
13. ILLUMINATED SECURITY BOLLARD, SEE LIGHTING PLAN, SEE DETAIL #6, SHEET L5.01.
14. PARKING LOT, SEE CIVIL ENGINEERING DRAWINGS.
15. CRUSHED GRANITE PAVING, SEE DETAIL #5, SHEET L3.02.
16. PLANTING AREA, SEE PLANTING PLAN.
17. EXPANSION JOINT WITH LOAD TRANSFER, SEE DETAIL #7, SHEET L3.01.
18. EXPANSION JOINT AT VERTICAL SURFACE, SEE DETAIL #8, SHEET L3.01.
19. ADA TRUNCATED DOME PAVING, SEE DETAIL #4, SHEET L3.01.
20. ILLUMINATED BOLLARD, SEE LIGHTING PLAN.
21. AREA LIGHT, SEE LIGHTING PLAN.
22. TRASH RECEPTACLE, SEE DETAIL #2, SHEET L3.08.

23. PUTTING GREEN SECTION, SEE DETAIL #9, SHEET L9.00.
24. TEE BOX @ DRIVING RANGE, SEE DETAIL #10, SHEET L10.0.
25. CONCRETE BAND, SEE DETAIL #2, SHEET L3.01.
26. CONCRETE CURB AND GUTTER, SEE CIVIL ENGINEERING DRAWINGS.
27. MOVEABLE BOLLARD, SEE DETAIL #5, SHEET L3.08.
28. ACCESS RAMP TYPE 'A', SEE DETAIL #5, SHEET L3.01.
29. SIDEWALK HEADER @ PARKING LOT CURB, SEE DETAIL #3, SHEET L3.01.
30. TYPICAL DRIVING RANGE TEE CONFIGURATION, SEE DETAIL #1, SHEET L3.09.
31. FLUSH GRADE TRANSITION, SEE CIVIL DRAWINGS.
32. DRIVING RANGE LIGHTS, SEE LIGHTING PLAN.
33. CONCRETE BAND AT BUILDING FACE, SEE DETAIL #11, SHEET L3.01 (SIMILAR).
34. 6" HIGH X 12" WIDE CURB, SEE DETAIL #8, SHEET L3.02.
35. EXPANSION JOINT AT MATERIAL CHANGE, SEE DETAIL #10, SHEET L3.01.
36. NOT USED.
37. PLAZA TYPE 'B' PAVING WITH INTEGRAL COLOR CONCRETE PAVING AND AGGREGATE FINISH, SEE DETAIL #8, SHEET L3.02.

RECREATIONAL COMPLEX
HCC SOUTH CAMPUS

1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051

ARCHI*TECHNICS/3, INC.
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INTERIORS
CONSTRUCTION MANAGEMENT

5555 West Loop South Suite #400
Bellaire, Texas 77401
TEL 713/868-0088 FAX 713/468-2613

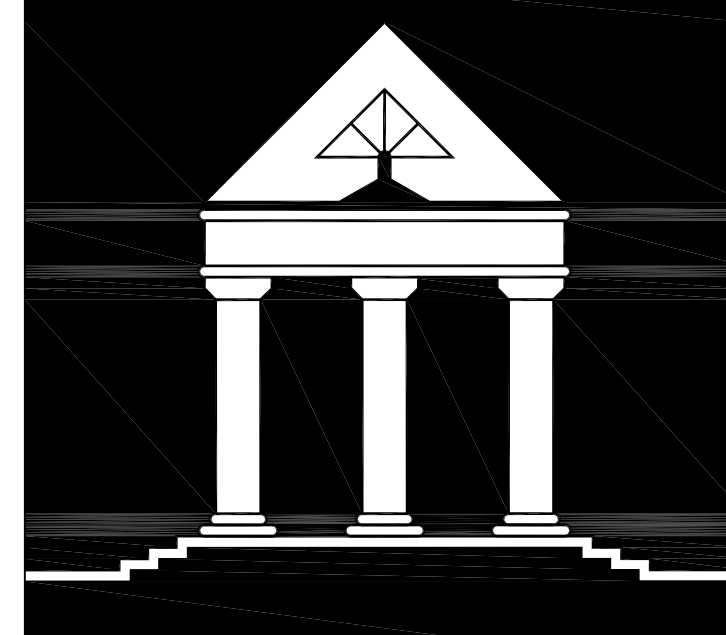
M2L Associates Inc.
8955 Katy Fwy., Suite 300
Houston, Texas 77024
T: (713)722-8897 F: (713)722-8048
• Landscape Architecture •
• Land Planning •
• Urban Design •



DATE:	DATE: 05-21-13
NEW CONSTRUCTION	
4/09/2013	FOR BID
05-01-2013	ADDEDDUM #1
05-28-2013	ADDEDDUM #3

PLAZA ENLARGED
LAYOUT PLAN

L2.02
DATE:
DRAWN BY:
CHECKED BY:



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ARCHITECTURE
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CONSTRUCTION MANAGEMENT

5555 West Loop South Suite #400
Bellaire, Texas 77401
TEL 713/868-0088 FAX 713/468-2613

M2L Associates Inc.
8955 Katy Fwy., Suite 300
Houston, Texas 77024
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• Landscape Architecture •
• Land Planning •
• Urban Design •

RECREATIONAL COMPLEX
HCC SOUTH CAMPUS
1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051



Date:	Date: 05-21-13
NEW CONSTRUCTION	FOR BID
4/08/2013	ADDENDUM NO. 1
5/01/2013	ADD. #3 PERMIT REVISIONS
5/28/2013	ADD. #3 PERMIT REVISIONS

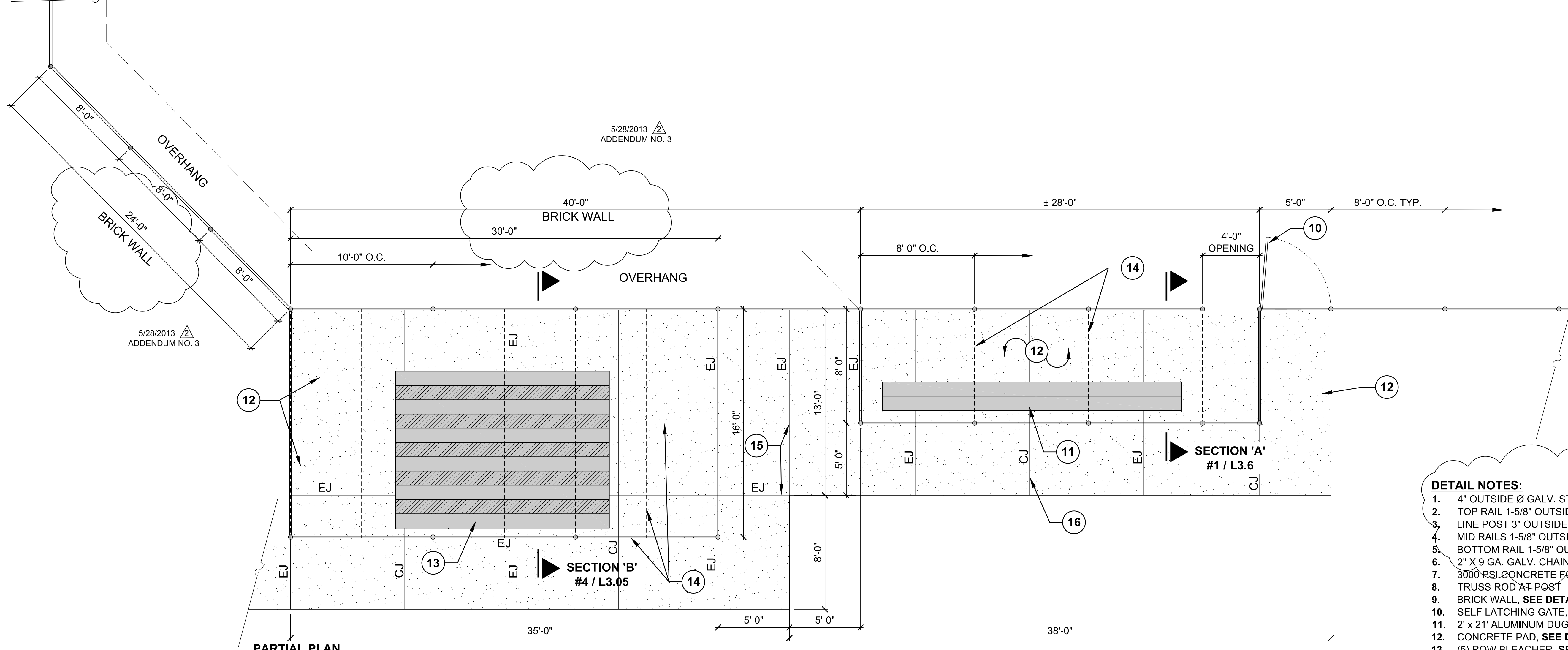
BACKSTOP & DUGOUT DETAILS I

DATE:
DRAWN BY:
CHECKED BY:

L3.03

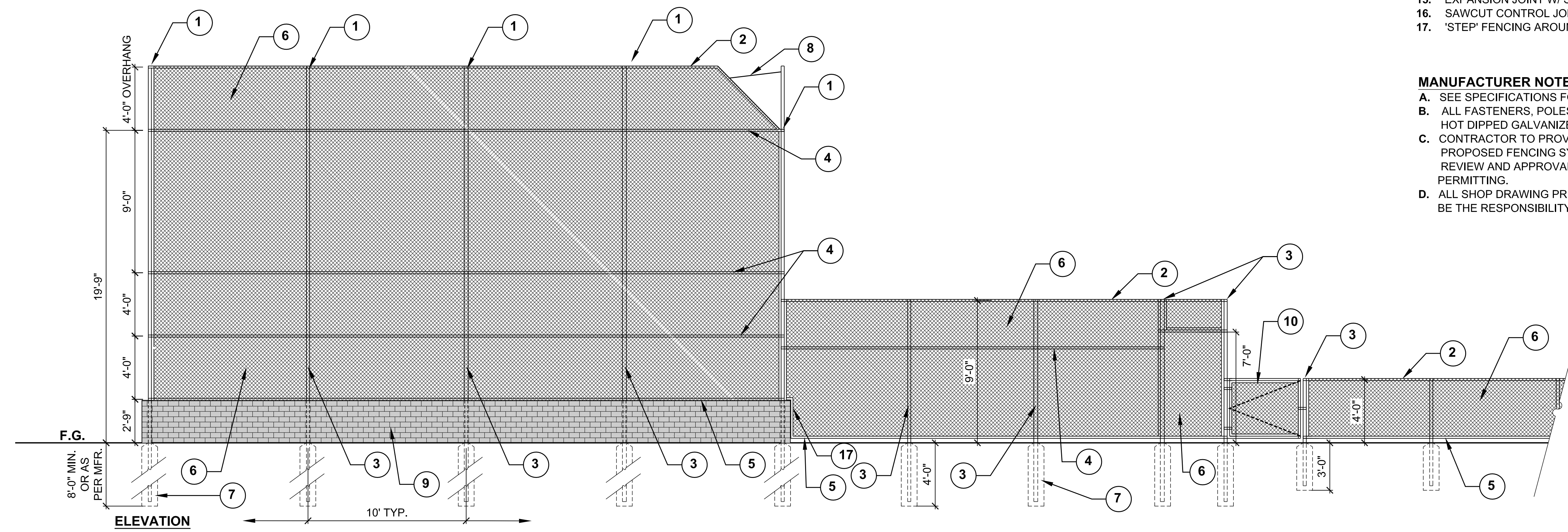
SCALE: 1/4"=1'-0"

MIRROR OTHER SIDE
OF BACKSTOP AS PER
SHEET L3.04



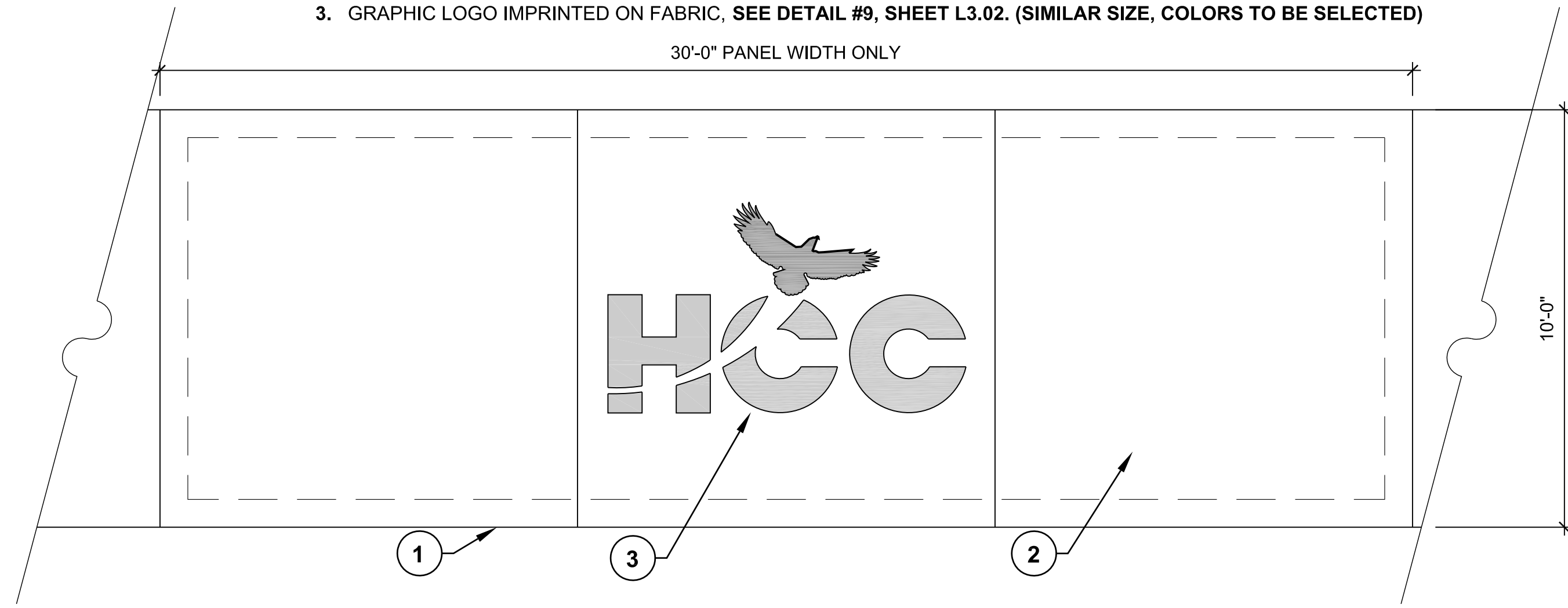
- DETAIL NOTES:**
- 4" OUTSIDE Ø GALV. STEEL PIPE.
 - TOP RAIL 1-5/8" OUTSIDE Ø GALV. STEEL PIPE
 - LINE POST 3" OUTSIDE Ø GALV. STEEL PIPE
 - MID RAILS 1-5/8" OUTSIDE Ø GALV. STEEL PIPE
 - BOTTOM RAIL 1-5/8" OUTSIDE Ø GALV. STEEL PIPE
 - 2" X 9 GA. GALV. CHAIN LINK FABRIC
 - 3000 PSL CONCRETE FOOTING 4'-3" Ø
 - TRUSS ROD AT POST
 - BRICK WALL, SEE DETAIL #5, SHEET L3.06.
 - SELF LATCHING GATE, SEE DETAIL #1, SHEET L3.05
 - 2' X 21" ALUMINUM DUGOUT BENCH, SEE DETAIL #6, SHEET L3.06.
 - CONCRETE PAD, SEE DETAIL #1, SHEET L3.01.
 - (5) ROW BLEACHER, SEE DETAIL #3, SHEET L3.05.
 - GALVANIZED FRAMING, (SEE SPECIFICATIONS)
 - EXPANSION JOINT W/ SEALANT, SEE DETAIL #7, SHEET L3.01.
 - SAWCUT CONTROL JOINT, SEE DETAIL #6, SHEET L3.01.
 - 'STEP' FENCING AROUND BRICK WALL.

- MANUFACTURER NOTES:**
- SEE SPECIFICATIONS FOR MANUFACTURERS
 - ALL FASTENERS, POLES, MESHING SUPPORTS, AND MISC. TO BE HOT DIPPED GALVANIZED.
 - CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS FOR PROPOSED FENCING SYSTEM AND CONCRETE FOUNDATIONS FOR REVIEW AND APPROVAL OF ARCHITECT, AND FOR REGULATORY PERMITTING.
 - ALL SHOP DRAWING PREPARATION COSTS AND PERMITTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



DETAIL NOTES:

- 10'-0" HIGH FENCING, SEE DETAIL #2, THIS SHEET.
- BLACK 10MIL HPDE SHADE SCREEN WITH PERIMETER HEM AND 3/8" Ø BRASS GROMMETS @ 8" O.C. ATTACHED TO FRAME WITH BLACK PLASTER STRAPS-TRIM AFTER INSTALLING.
- GRAPHIC LOGO IMPRINTED ON FABRIC, SEE DETAIL #9, SHEET L3.02. (SIMILAR SIZE, COLORS TO BE SELECTED)

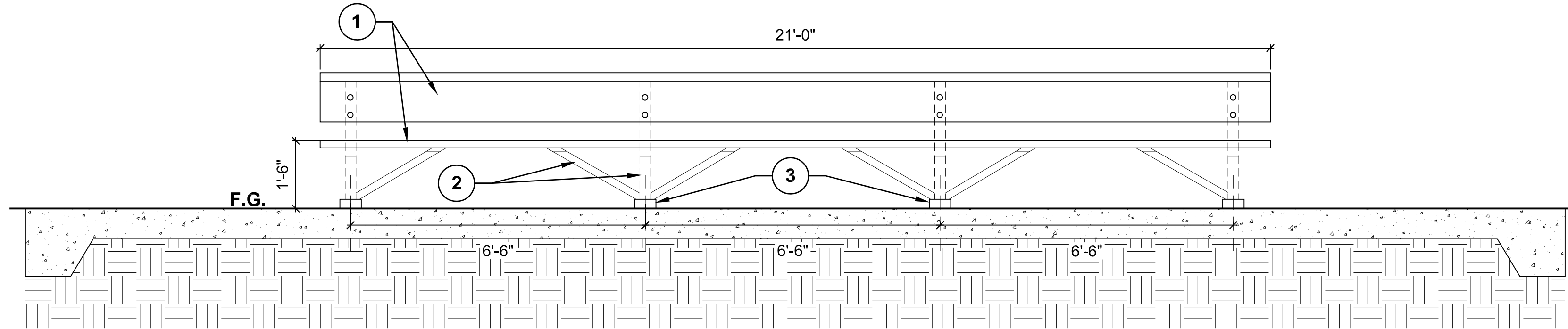


7 WIND SCREEN @ GOLF COURSE FENCING

SCALE: 3/8"=1'-0"

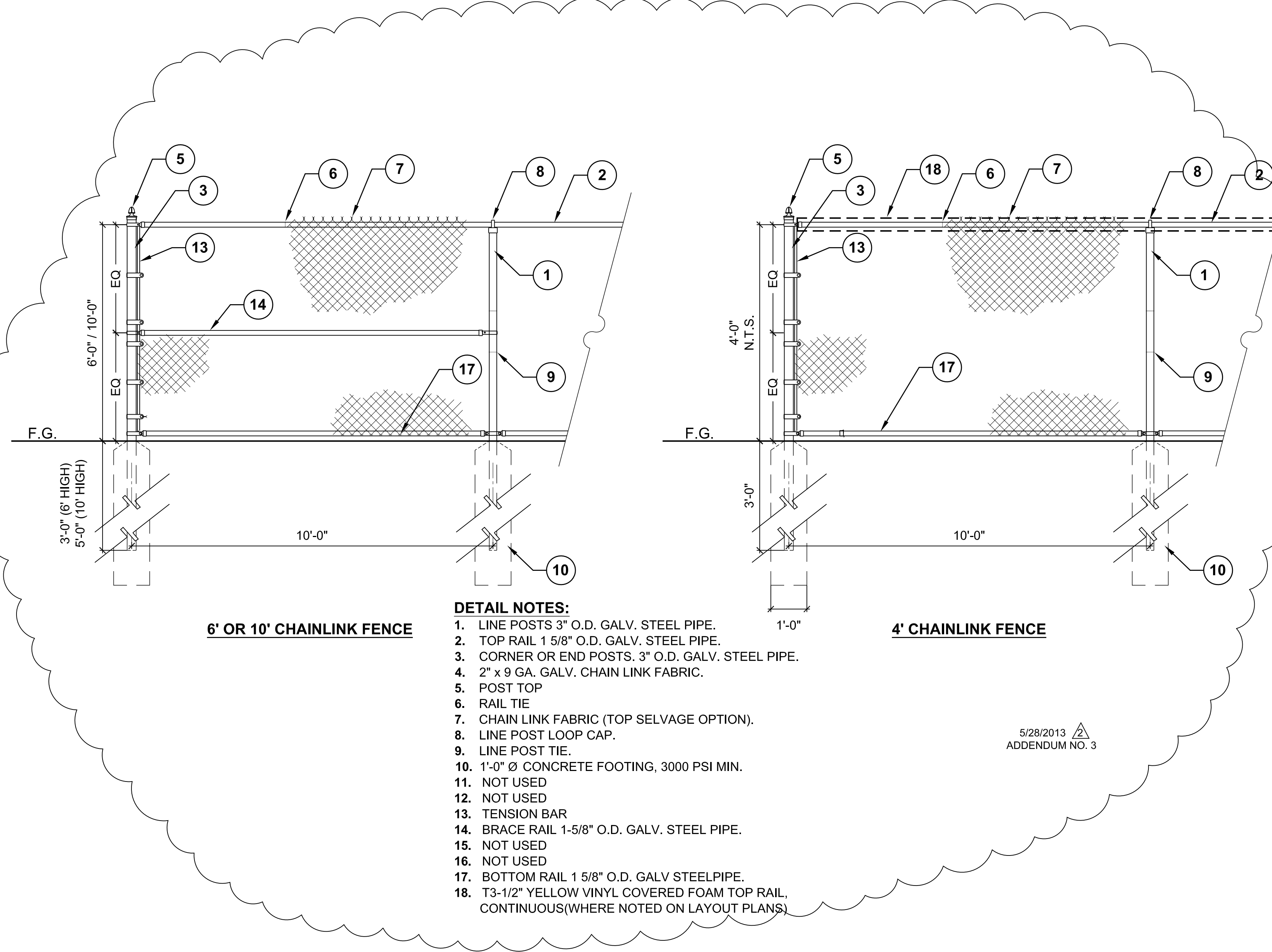
DETAIL NOTES:

- 2" x 10" ANODIZED EXTRUDED ALUMINUM SLATS.
- 2-3/8" O.D. GALVANIZED STEEL FRAME.
- ROUND SURFACE MOUNT WITH MANUFACTURER PROVIDED DESIGNER PLATE COVER. ATTACH TO CONCRETE SURFACE PER MFR RECOMMENDATIONS (USE GALVANIZED FASTENERS).
- DUGOUT BENCH, PW#1176-21A ALUMINUM BENCH OR APPROVED EQUAL. ATTACH TO CONCRETE WITH VANDAL RESISTANT ANCHORS PER MFR. RECOMMENDATIONS.



6 DUGOUT BENCH

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

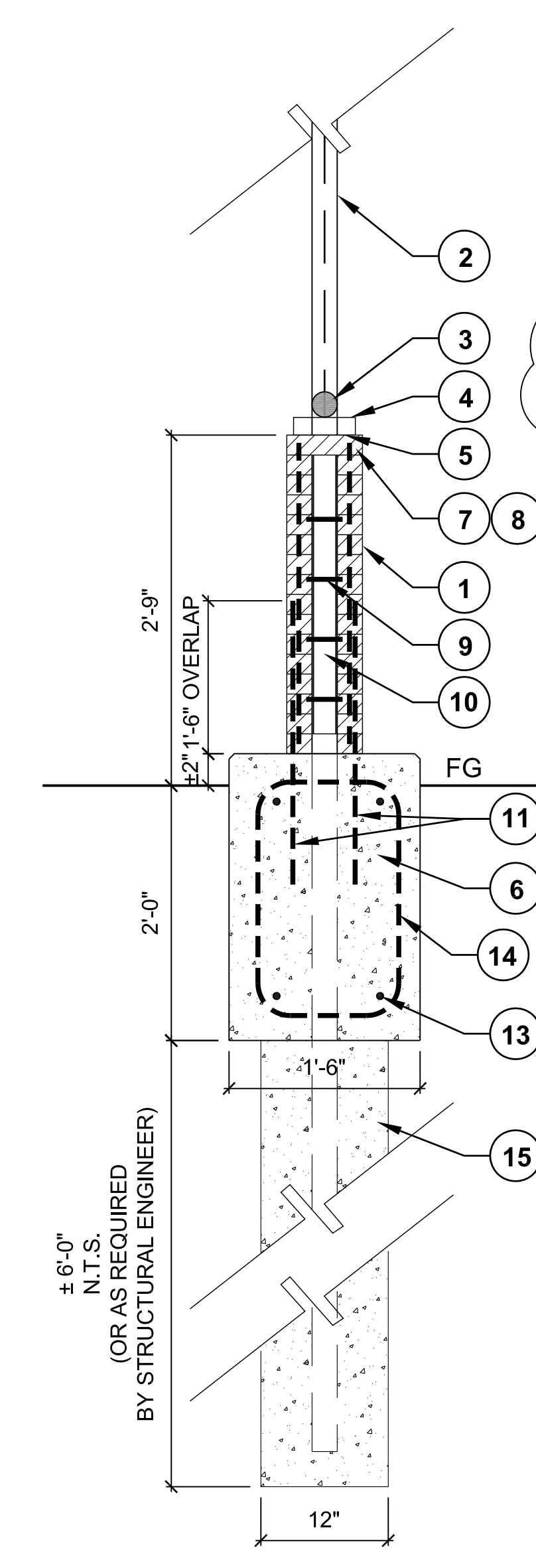


2 CHAIN LINK FENCE

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

DETAIL NOTES:

- LINE POSTS 3" O.D. GALV. STEEL PIPE.
- TOP RAIL 1 5/8" O.D. GALV. STEEL PIPE.
- CORNER OR END POSTS, 3" O.D. GALV. STEEL PIPE.
- 2" x 9 GA. GALV. CHAIN LINK FABRIC.
- POST TOP
- RAIL TIE
- CHAIN LINK FABRIC (TOP SELVAGE OPTION).
- LINE POST LOOP CAP.
- LINE POST TIE.
- 1'-0" Ø CONCRETE FOOTING, 3000 PSI MIN.
- NOT USED
- NOT USED
- TENSION BAR
- BRACE RAIL 1-5/8" O.D. GALV. STEEL PIPE.
- NOT USED
- NOT USED
- BOTTOM RAIL 1 5/8" O.D. GALV. STEEL PIPE.
- T3-1/2" YELLOW VINYL COVERED FOAM TOP RAIL, CONTINUOUS(WHERE NOTED ON LAYOUT PLANS).

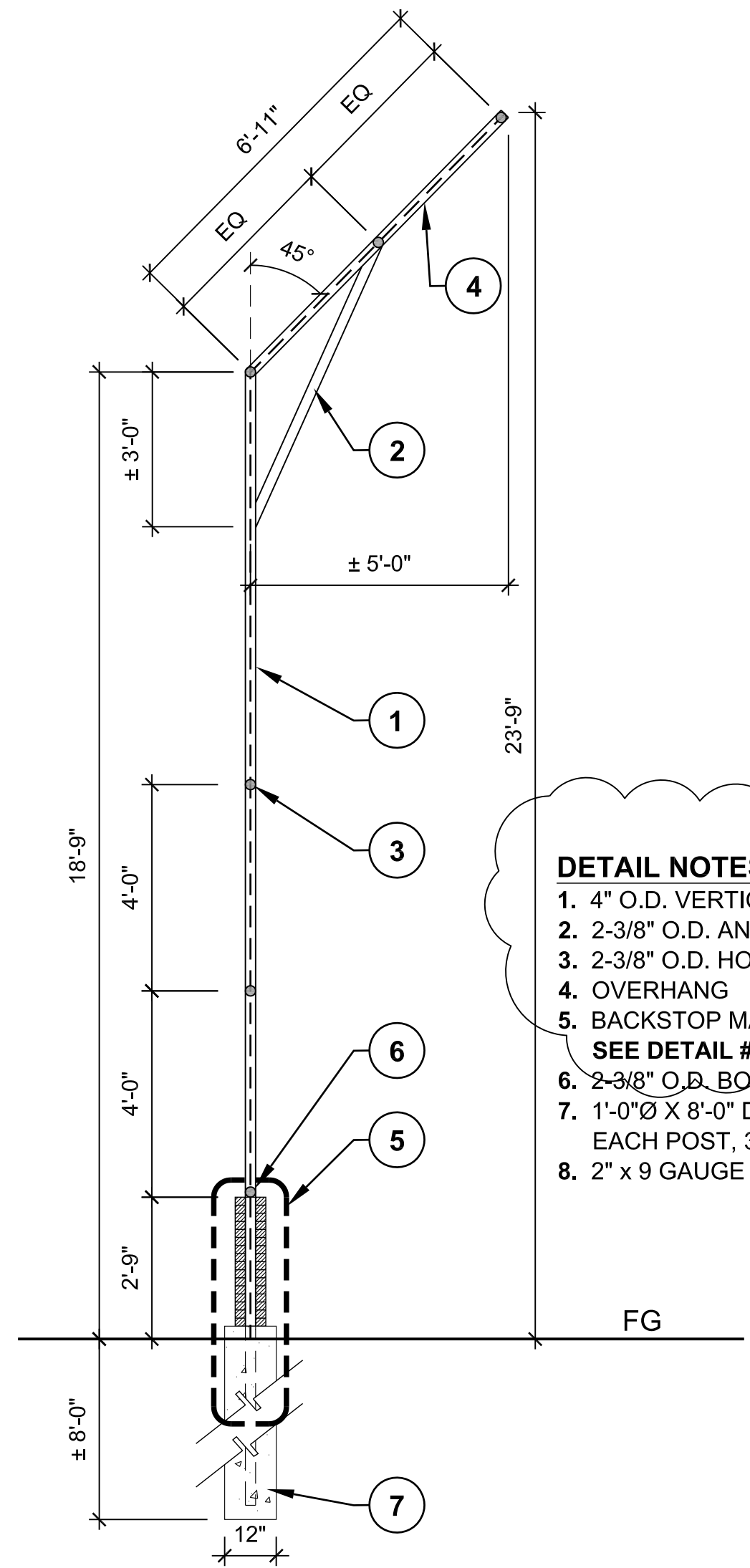


5 BACKSTOP MANSORY WALL SECTION

SCALE: 1"=1'-0"

DETAIL NOTES:

- MODULAR CLAY BRICK WITH RAKED MORTAR JOINTS, COLOR TO MATCH BUILDING BRICK (SEE SPECIFICATIONS).
- 4" O.D. VERTICAL POST.
- 2-3/8" O.D. BOTTOM RAIL AT WALL.
- BASE CAP TO MATCH FENCE POSTS.
- PROVIDE WATER PROOF SEALANT AT WALL CAP.
- 3000 PSI @ 28 DAY CONCRETE FOOTING GRADE BEAM UNDER BRICK WALL.
- CUT BRICK CAP AS NEEDED TO RUN POST THROUGH WALL.
- ROLLOCK BRICK CAP.
- BRICK WALL TIES EVERY THIRD COURSE. (SEE SPECIFICATIONS).
- BACK FILL WALL WITH GROUT.
- #4 x 2'-0" REBAR EVERY 5TH HOLE (1 PER BRICK) GROUT INTO PLACE, AND EXTEND ±12" INTO CONCRETE FOOTING. OVERLAP WITH WALL REINFORCING.
- 1/2" CHAMFER-TYPICAL.
- (4) #5 REBAR CONTINUOUS.
- #4 #5 @ 15" O.C.
- 1'-0" X 8'-0" DEEP POST CONCRETE FOOTING TYPICAL.

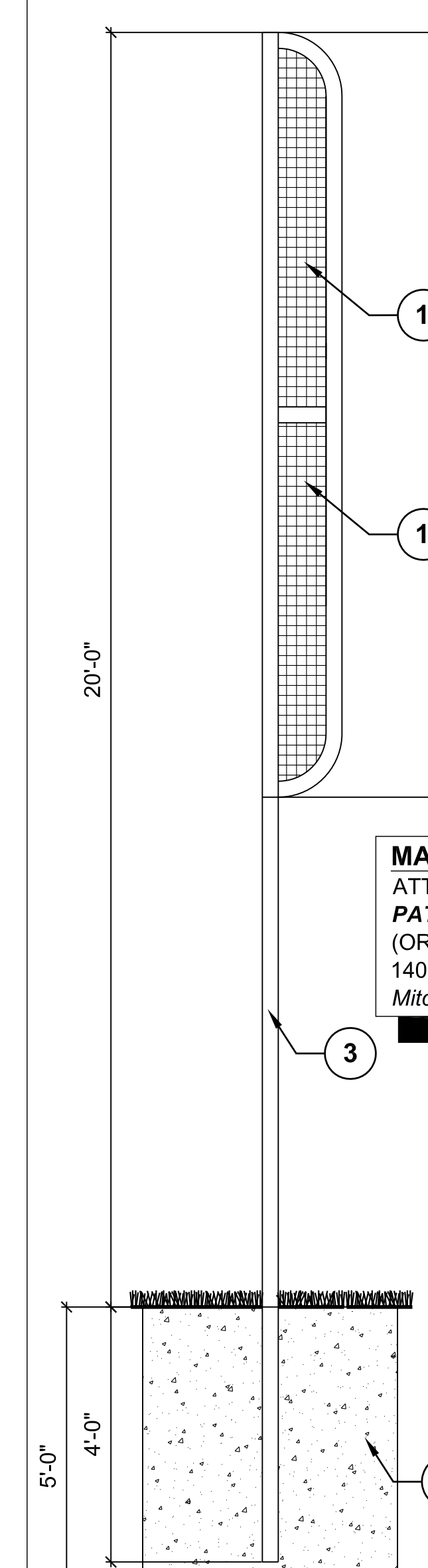


4 BACKSTOP SECTION

SCALE: 3/8"=1'-0"

DETAIL NOTES:

- 4" O.D. VERTICAL POSTS.
- 2-3/8" O.D. ANGLED SUPPORTS.
- 2-3/8" O.D. HORIZONTAL RAILS - TYPICAL
- OVERHANG
- BACKSTOP MASONRY WALL, SEE DETAIL #5, THIS SHEET.
- 2-3/8" O.D. BOTTOM RAIL AT MASONRY WALL.
- 1'-0" X 8'-0" DEEP CONCRETE FOOTING @ EACH POST, 3000PSI AT 28 DAYS MIN.
- 2" x 9 GAUGE MESH.



3 FOUL BALL MARKER

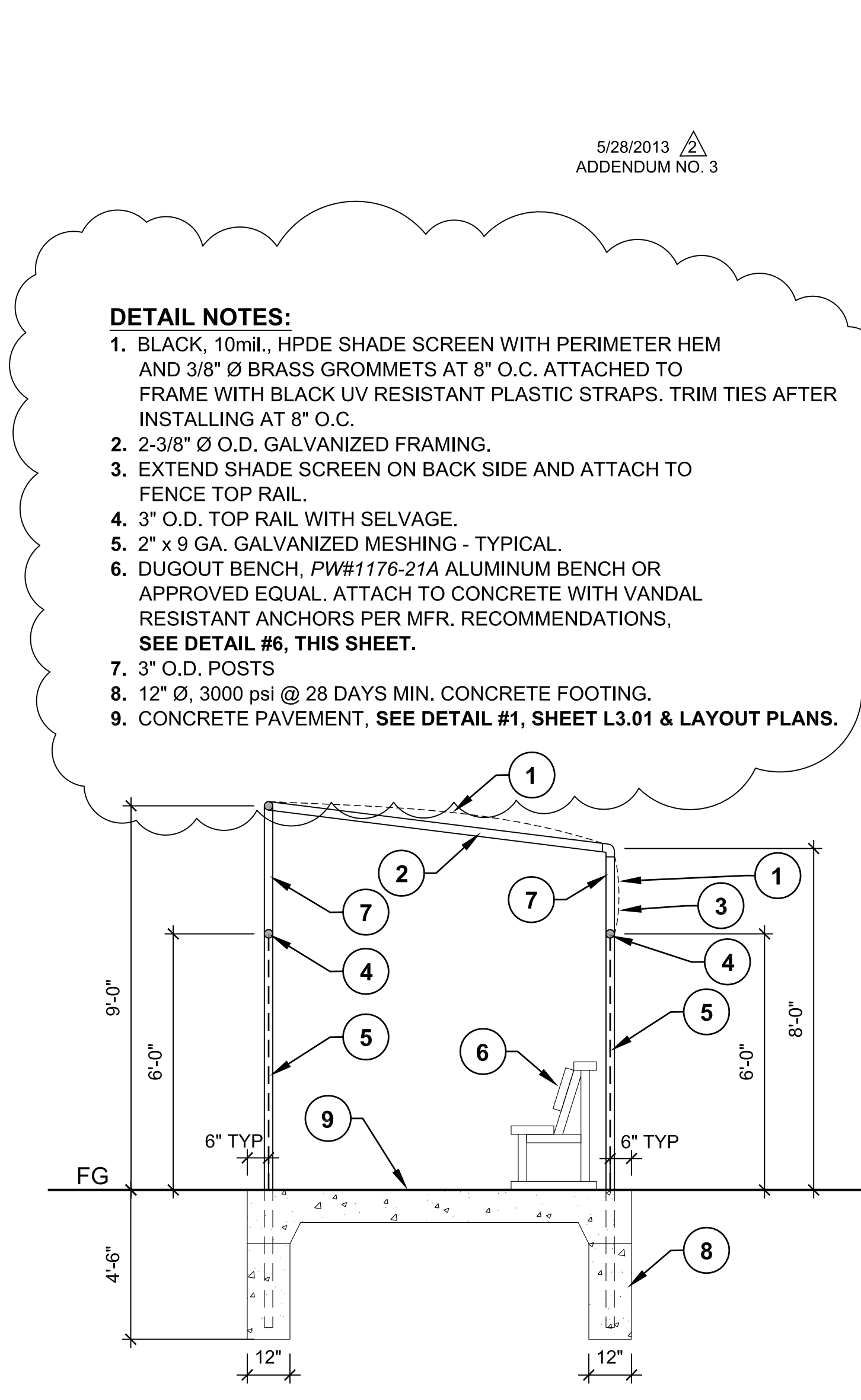
SCALE: 1/2"=1'-0"

MANUFACTURER:

ATTN: MITCH EVERS
PATTERSON-WILLIAMS ATHLETIC MFG. CO.
 (OR APPROVED EQUAL)
 140 N. GILBERT RD., MESA, AZ 85203
 Mitch@playwellgroup.com

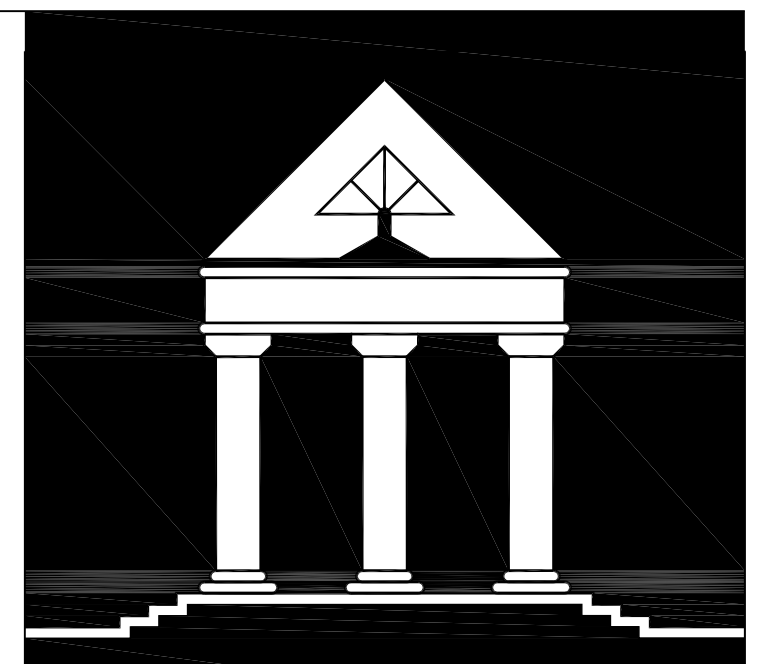
DETAIL NOTES

- PATTERSON-WILLIAMS #1273 (OR APPROVED EQUAL) STEEL MESH IN STANDARD FINISH (POWDER COATED YELLOW).
- 3-1/2" Ø, 20' HIGH GALVANIZED STEEL PIPE IN STANDARD FINISH (POWDER COATED YELLOW).
- 48" SQ. X 60" DEEP CONCRETE FOOTING, 3000PSI MIN AT 28 DAYS.



1 DUGOUT SECTION

SCALE: 3/8"=1'-0"



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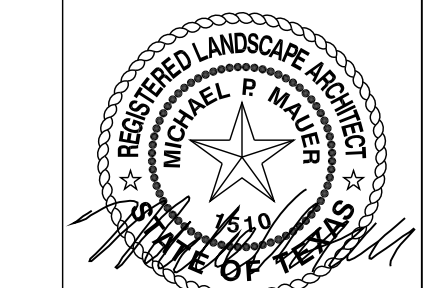


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**RECREATIONAL COMPLEX
 HCC SOUTH CAMPUS**

**1990 AIRPORT BLVD.
 HOUSTON, TEXAS 77051**



Date:	Date: 05-21-13
NEW CONSTRUCTION	FOR BID
4/08/2013	ADDENDUM NO. 1
5/01/2013	ADD. #3 PERMIT REVISIONS
5/28/2013	

BACKSTOP & DUGOUT DETAILS II

DATE:
 DRAWN BY:
 CHECKED BY:

L3.06



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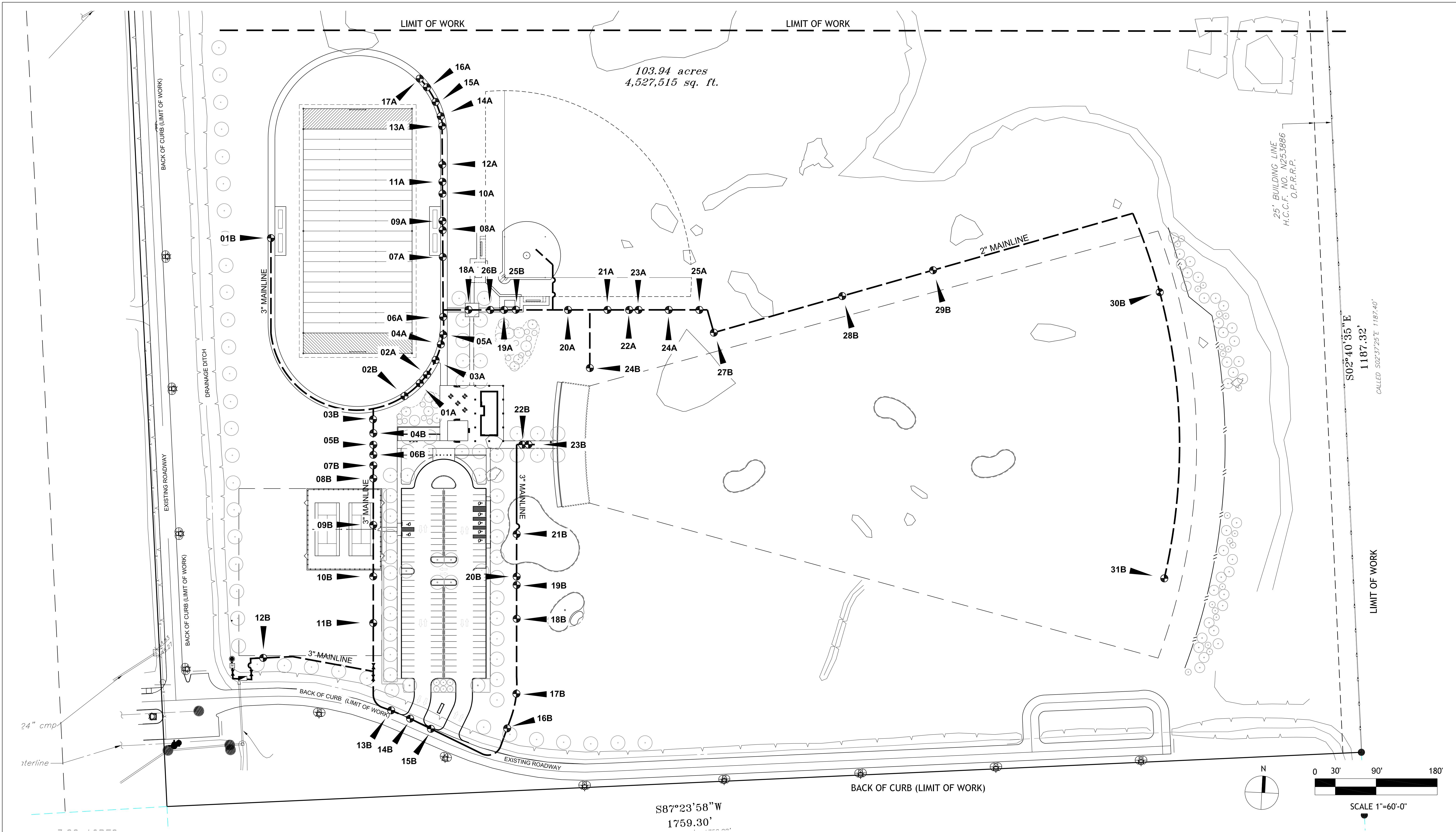
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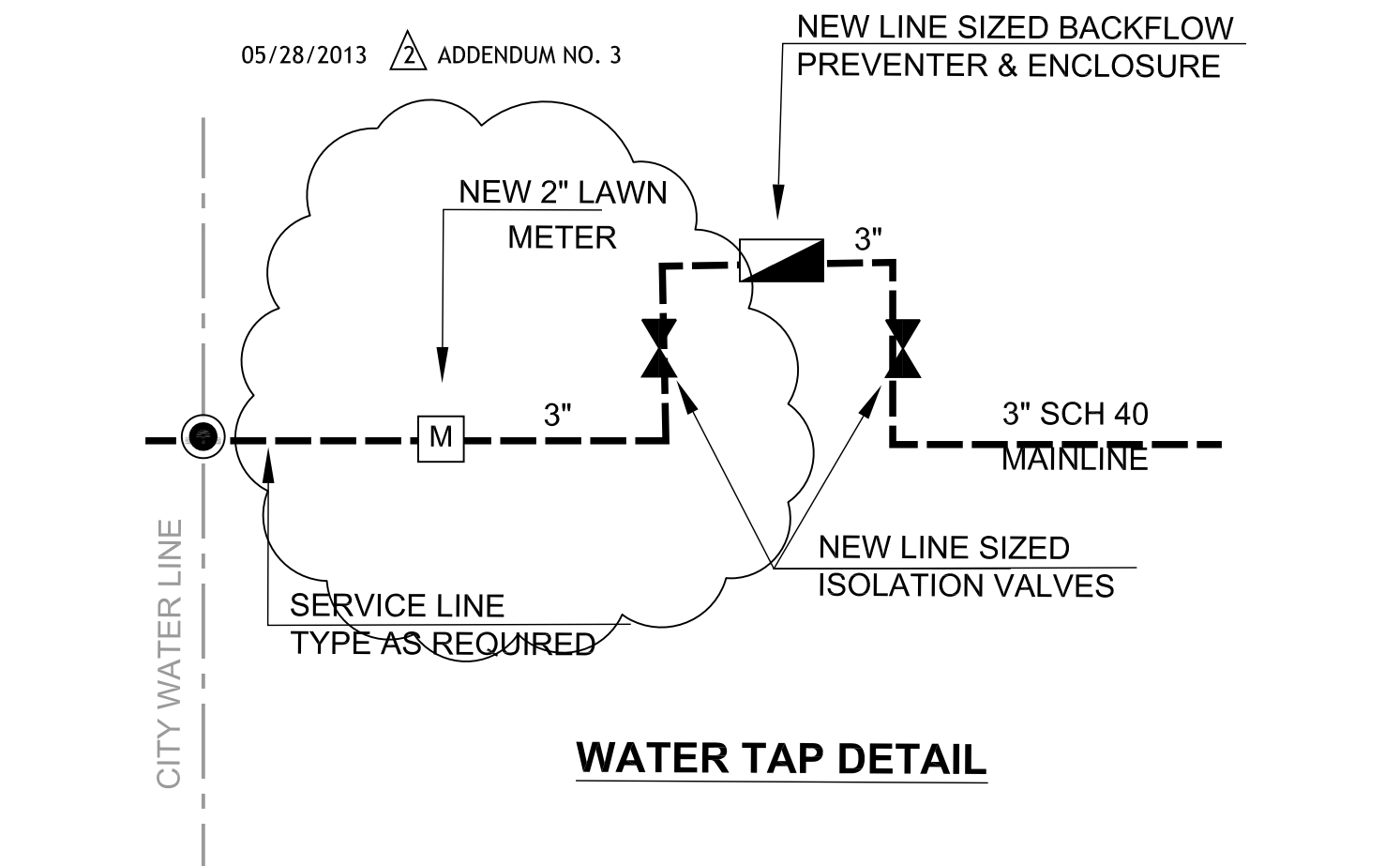
Date:	05-21-13
NEW CONSTRUCTION	FOR BID
4/09/2013	ADDENDUM NO. 1.
05/01/2013	ADDENDUM NO. 2.
05/28/2013	ADDENDUM NO. 3.

**IRRIGATION
 MAINLINE DIAGRAM**

L5.01
 DATE:
 DRAWN BY:
 CHECKED BY:



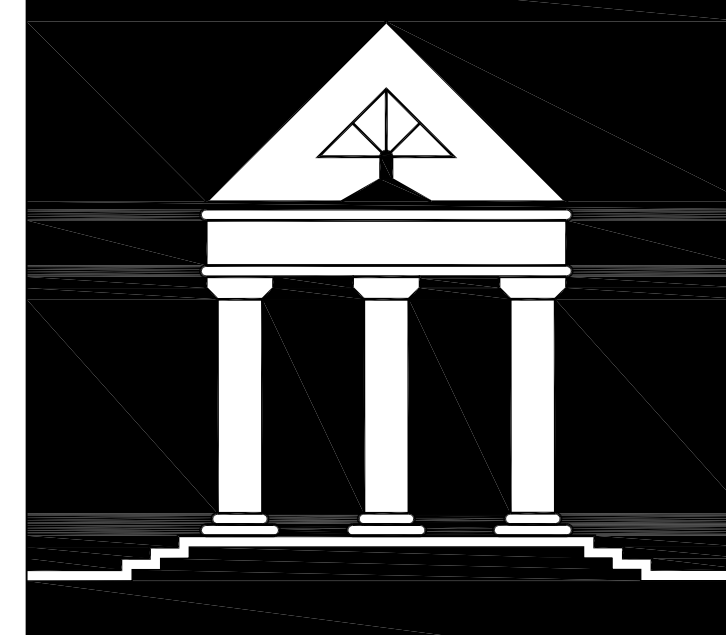
- A. ALL PIPE LOCATIONS AND IRRIGATION EQUIPMENT ARE SHOWN **DIAGRAMATIC**. IT IS INTENDED THAT THE IRRIGATION EQUIPMENT AND LINES BE PLACED IN THE LANDSCAPE AREAS OR DESIGNATED SLEEVES OR AS REQUIRED UNDER SIDEWALKS AND OTHER PAVEMENT AREAS. CONTRACTOR SHALL MODIFY THE LAYOUT AS NECESSARY TO REFLECT THE ACTUAL SITE CONDITIONS.
- B. IRRIGATION TO VERIFY THE CONDITIONS AND LOCATIONS OF ALL EXISTING IRRIGATION EQUIPMENT ALONG ROADWAY PRIOR TO BEGINNING ROADWAY CONDITIONS.
- C. IRRIGATION HEADS TO BE LOCATED 1'-0" FROM B.O.C. UNLESS OTHERWISE NOTED.
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- E. CONTRACTOR TO PROVIDE, UNDER THIS CONTRACT, ALL IRRIGATION EQUIPMENT INCLUDING, BUT NOT LIMITED TO ALL PERMITS AND FEES, BACKFLOW PREVENTERS, METER PAID BY OWNER, VALVES, HEADS, LATERALS, MAINLINES, AND MISC. EQUIPMENT.
- F. **SEE SHEET L6.01 & L6.02** FOR IRRIGATION DETAILS AND NOTES.
- G. CONTRACTOR TO PROVIDE ALL MISCELLANEOUS BORINGS UNDER SIDEWALKS AND PAVEMENT BEYOND THOSE INDICATED ON THE DRIVEWAY.
- H. LOCATE CONTROLLER IN ROOM 105 OF BUILDING. PROVIDE HARDWIRE ELECTRICAL CONNECTION.



PLAN LEGEND

GENERAL NOTES

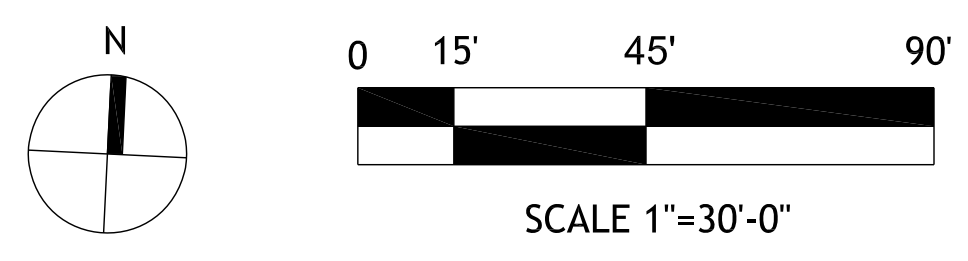
PLAN NOTES



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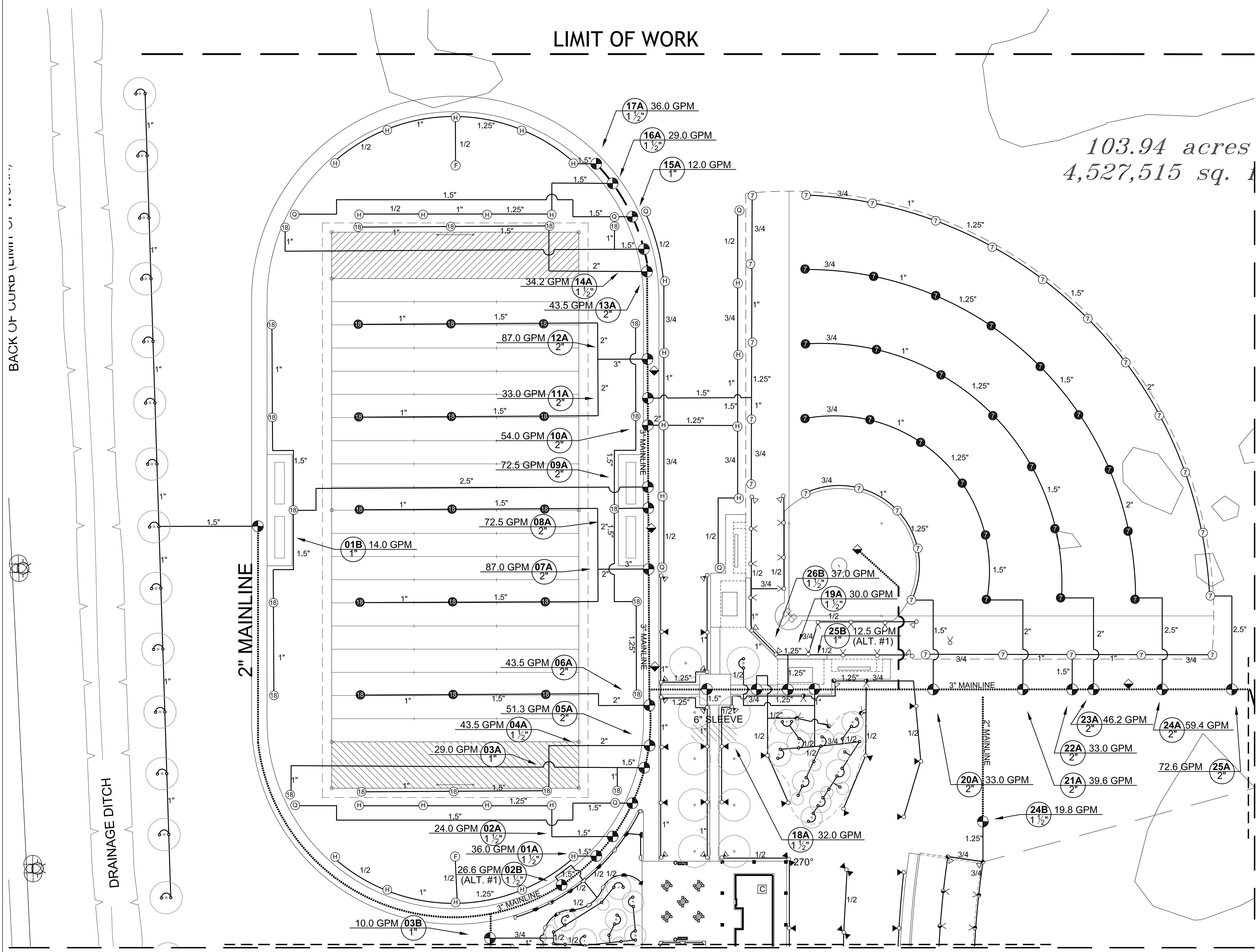
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LIMIT OF WORK

103.94 acres
 4,527,515 sq. ft.



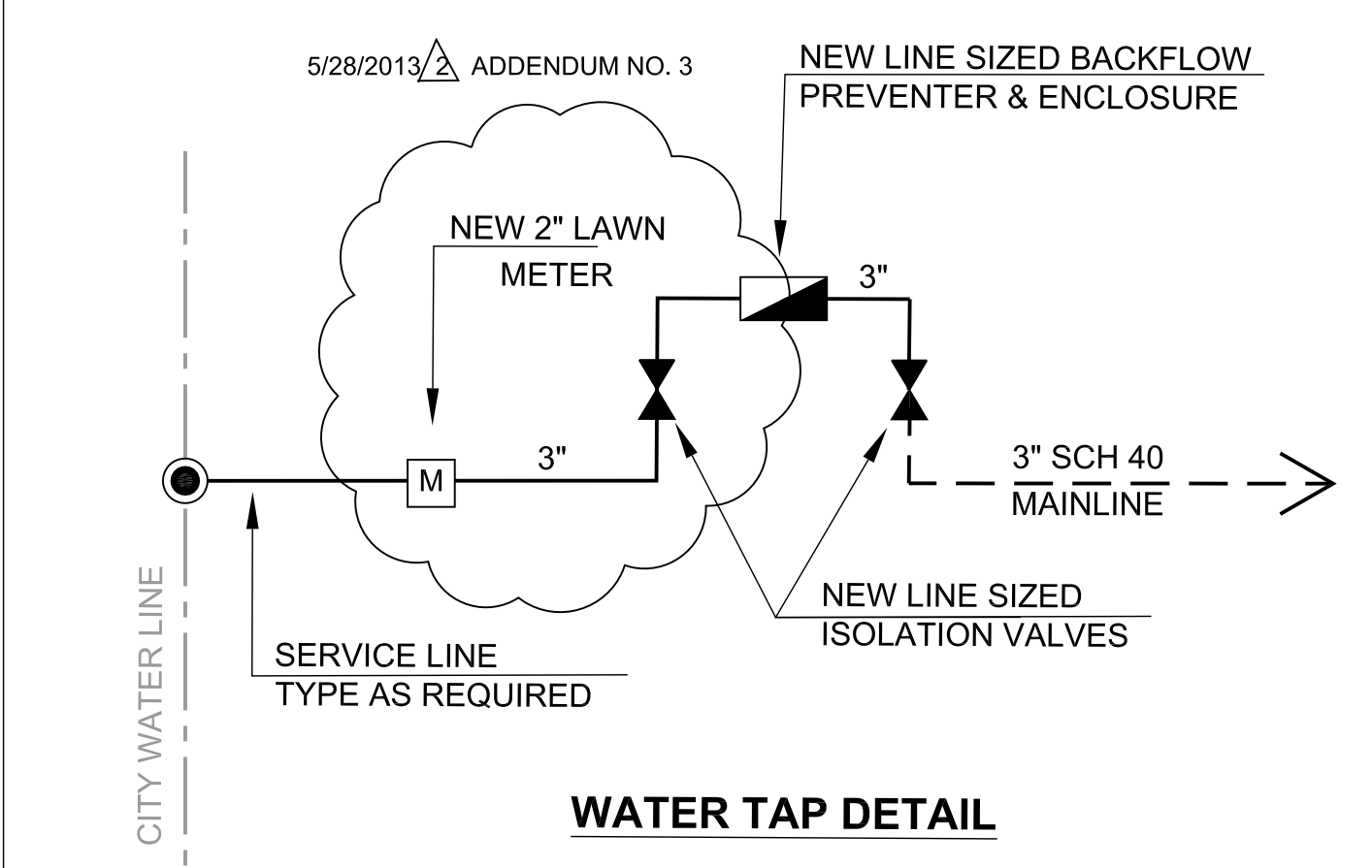
MATCHLINE, SEE SHEET L5.03

MATCHLINE, SEE SHEET L5.03

PLAN LEGEND

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GENERAL NOTES



WATER TAP DETAIL

PLAN NOTES

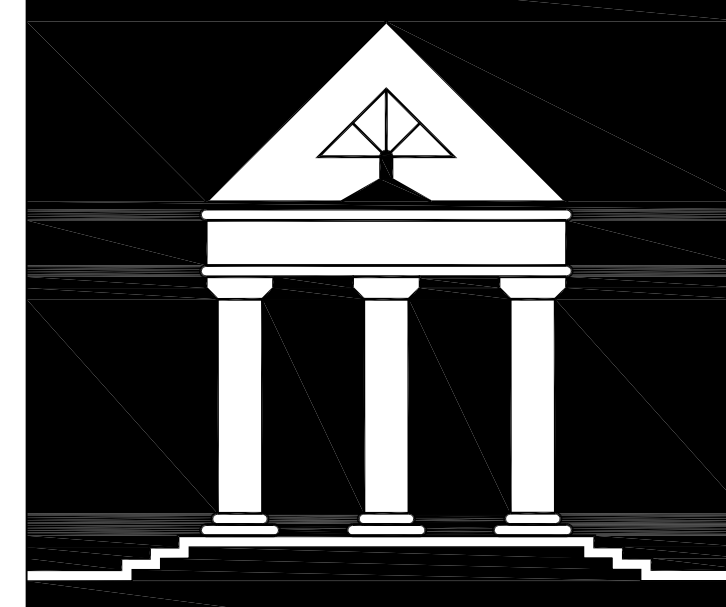
**RECREATIONAL COMPLEX
 HCC SOUTH CAMPUS**

**1990 AIRPORT BLVD.
 HOUSTON, TEXAS 77051**

Date:	Date: 05-21-13
NEW CONSTRUCTION	FOR BID
4/09/2013	
5/01/2013	A ADDENDUM NO. 1
5/28/2013	A ADDENDUM NO. 3

**IRRIGATION PLAN
 1 OF 3**

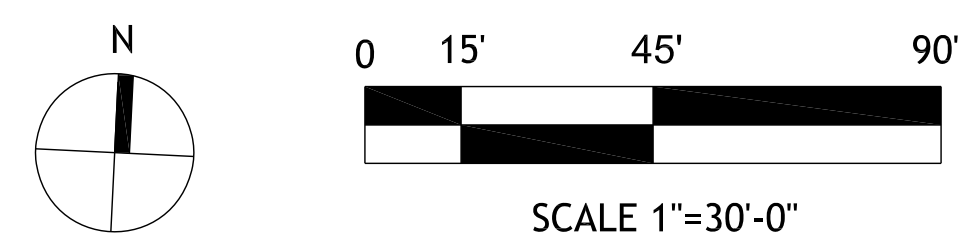
L5.02
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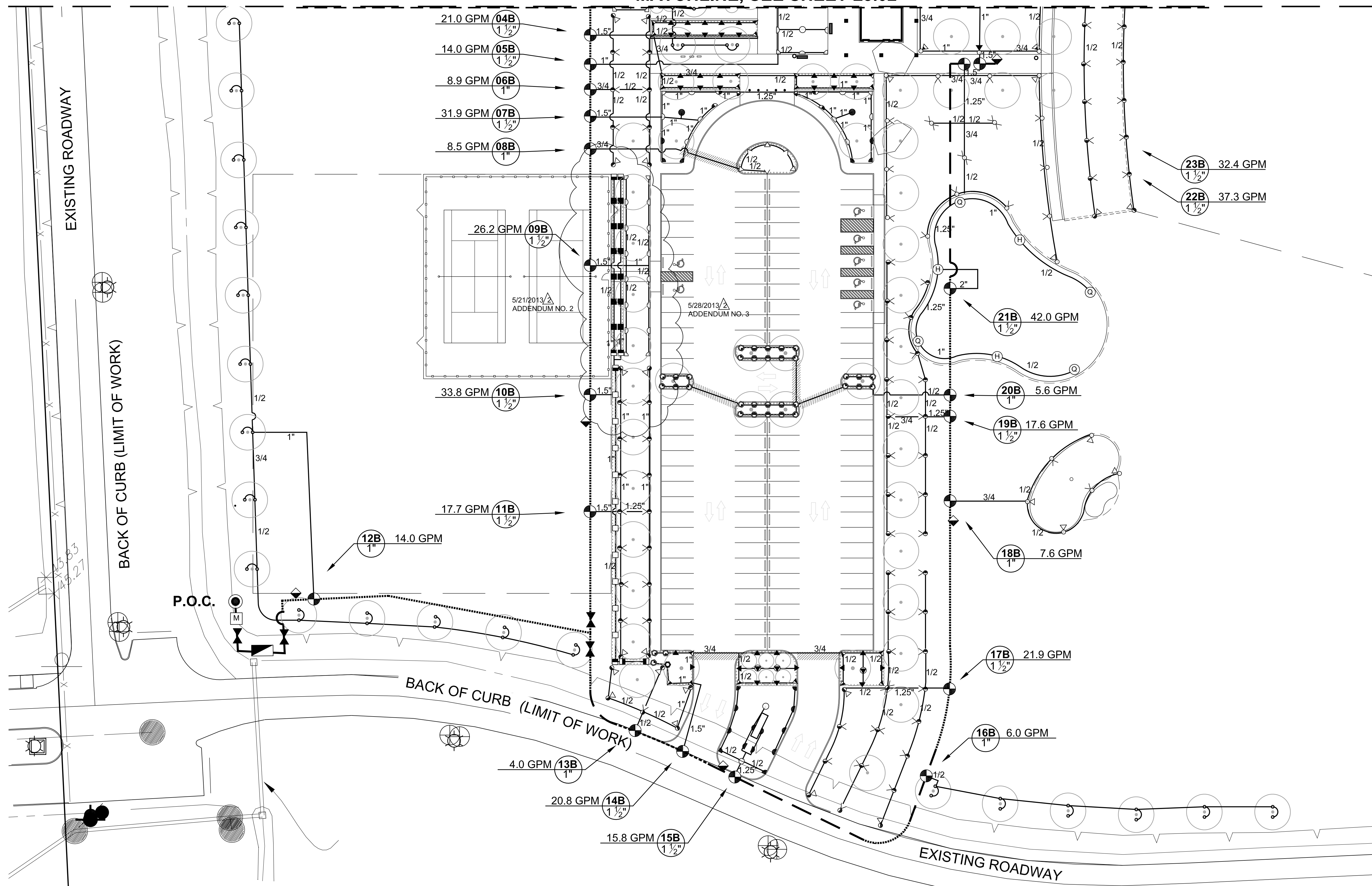
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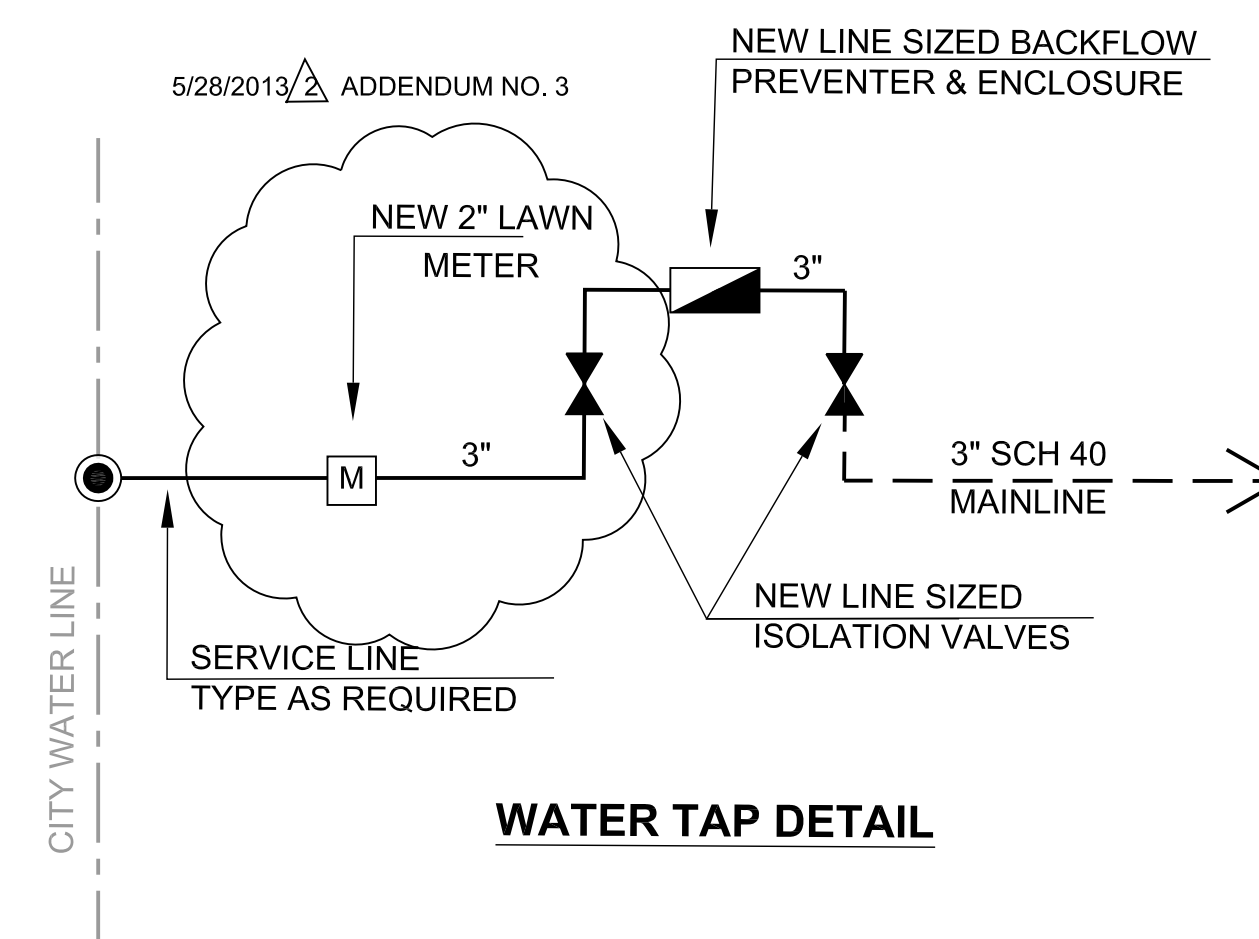
MATCHLINE, SEE SHEET L5.02



PLAN LEGEND

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GENERAL NOTES

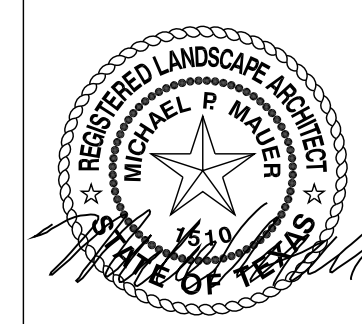


WATER TAP DETAIL

PLAN NOTES

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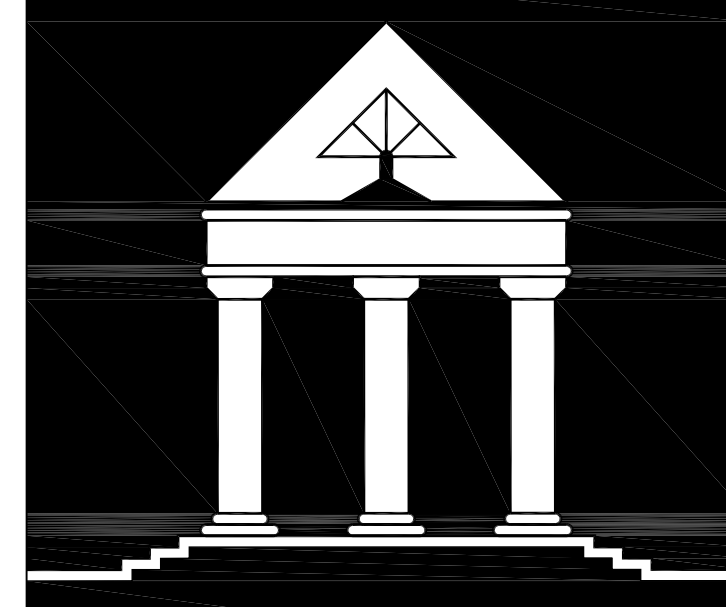


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5/01/2013	ADDENDUM NO. 1
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IRRIGATION PLAN
 2 OF 3

L5.03

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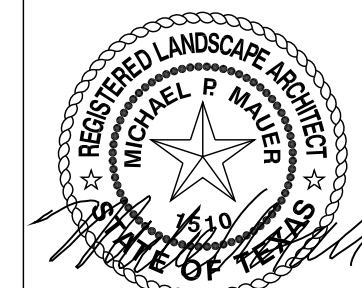
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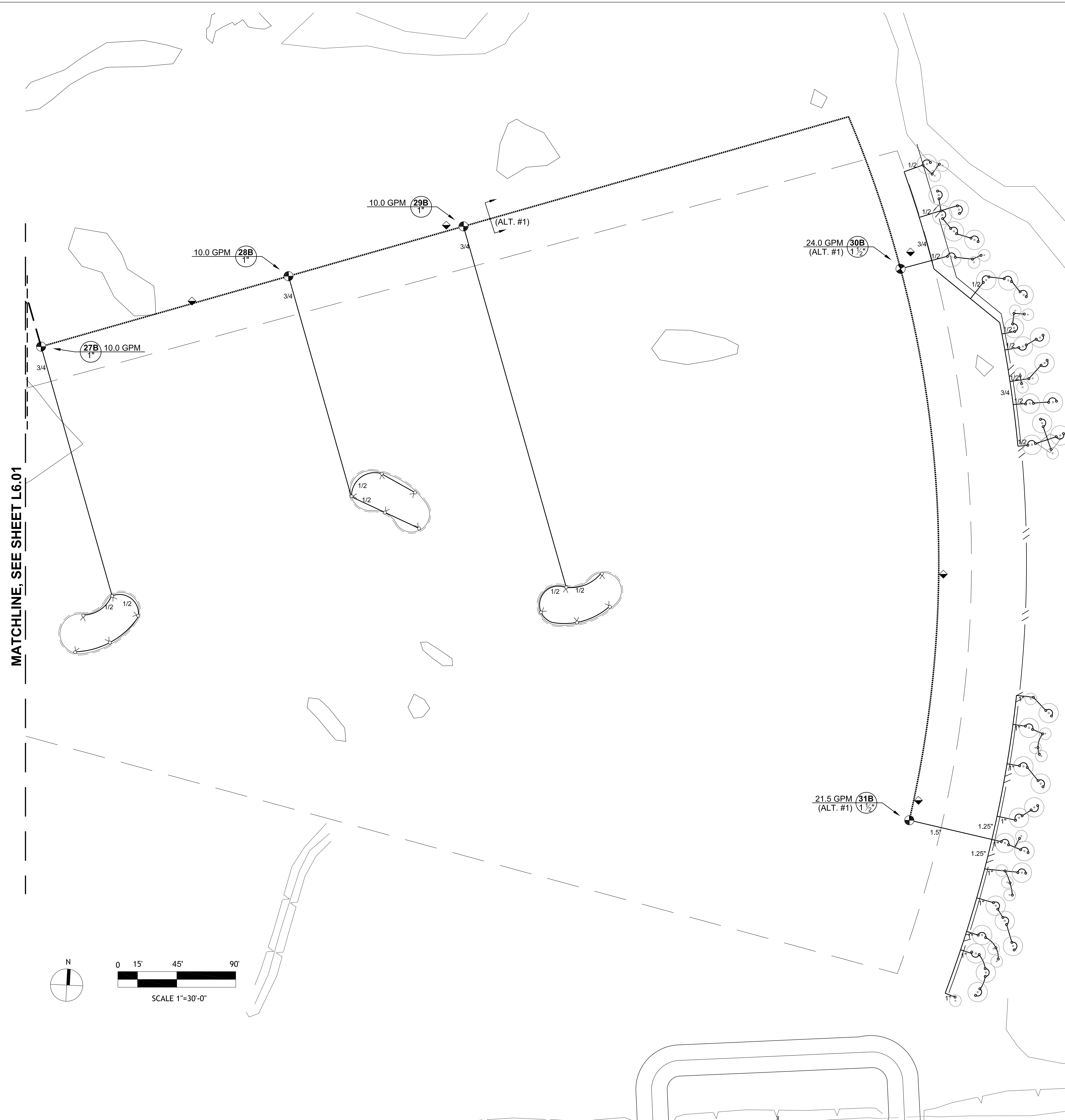


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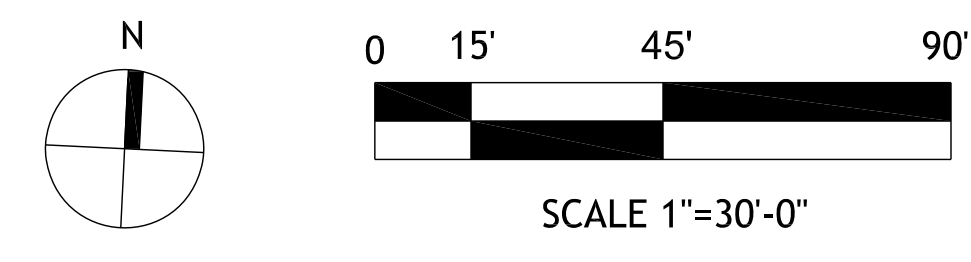
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IRRIGATION PLAN
3 OF 3

L5.04
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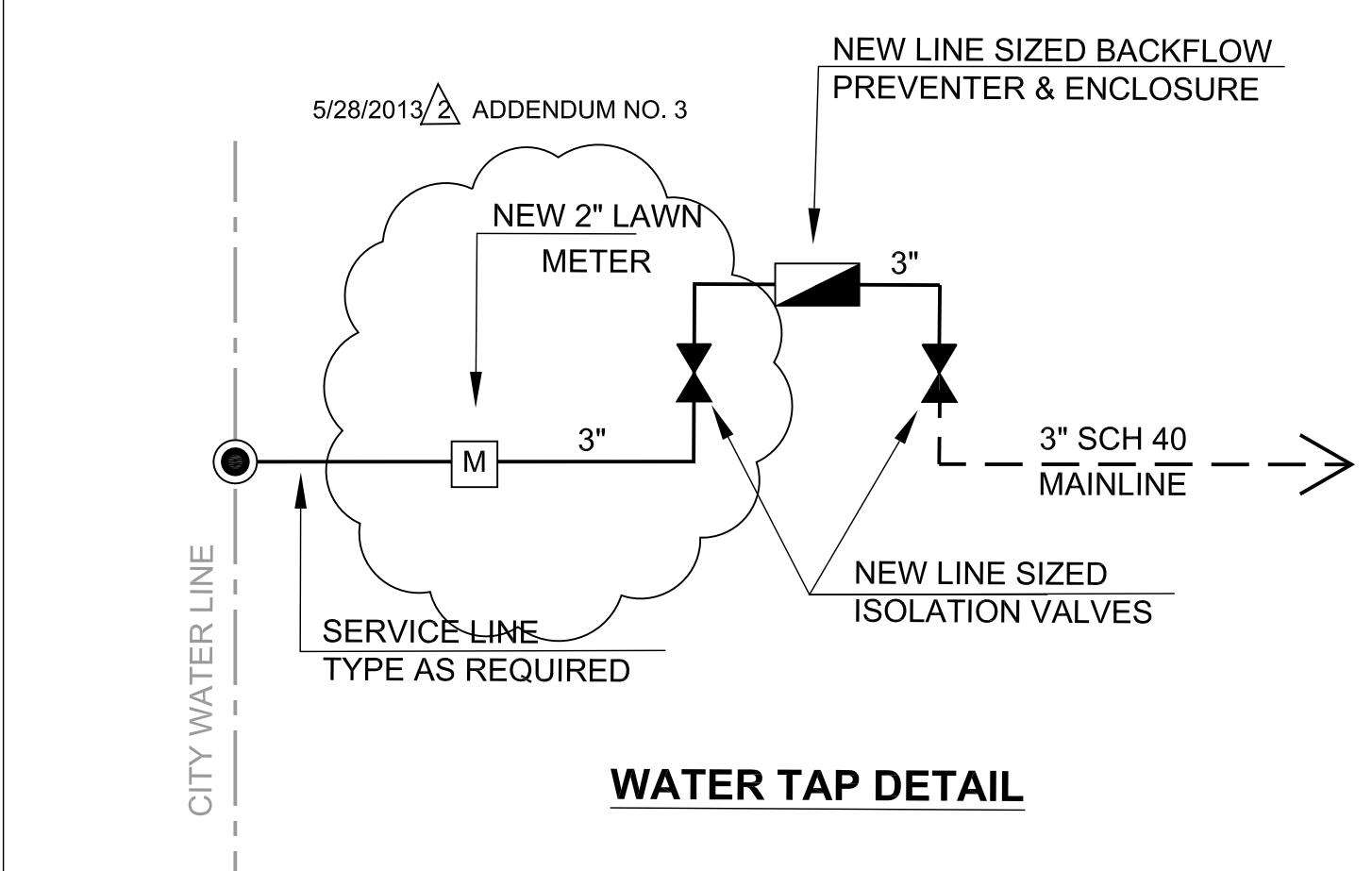
MATCHLINE, SEE SHEET L6.01



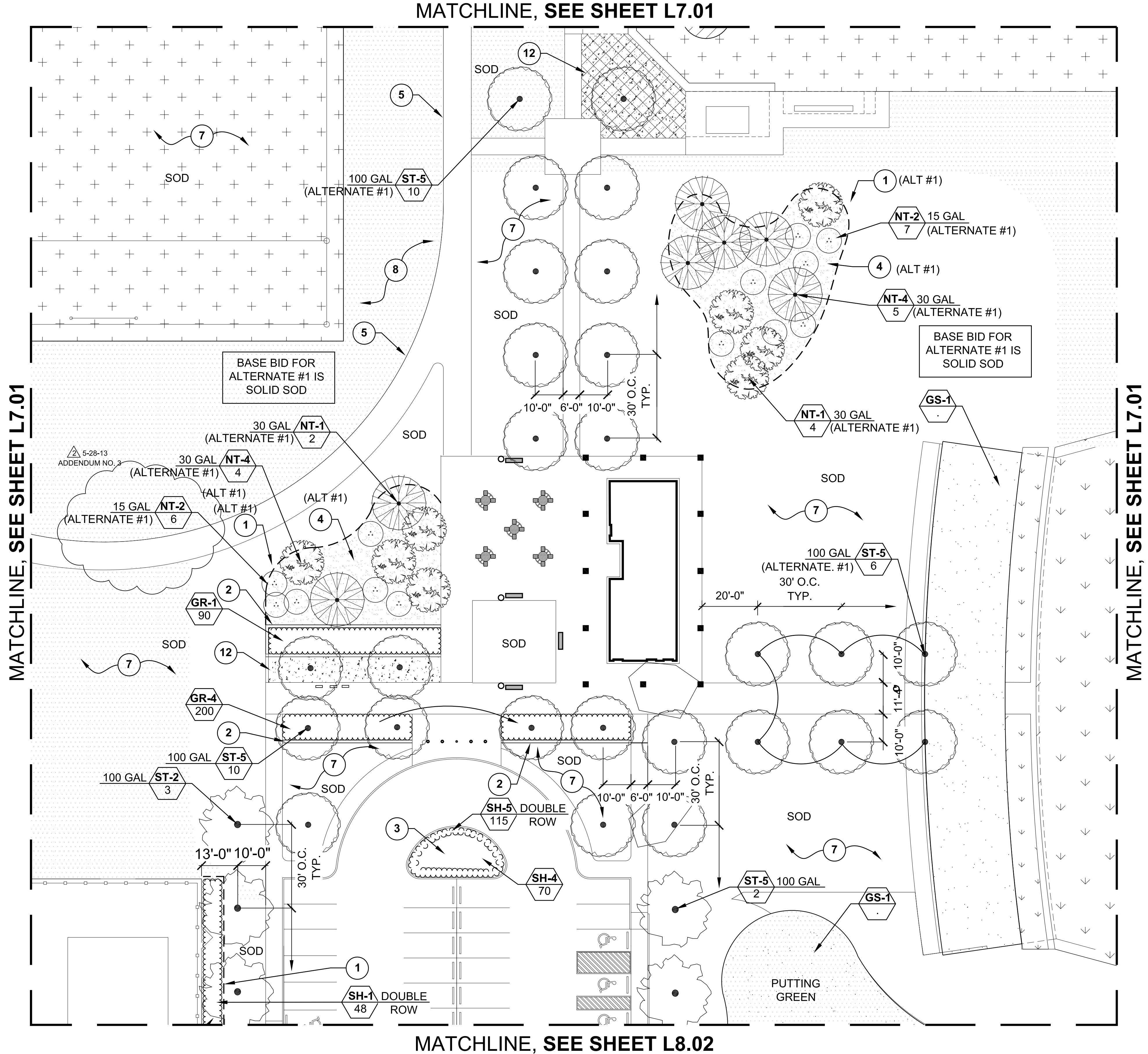
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GENERAL NOTES



PLAN NOTES



TYPE	SYMBOL	SCIENTIFIC NAME	COMMON NAME
TREE			
NATURAL TREE	NT-1	Ulmus crassifolia	Cedar Elm
	NT-2	Myrica cerifera	Southern Wax Myrtle
	NT-3	Pinus taeda	Loblolly Pine
	NT-4	Quercus shumardii	Shumard Oak
STREET TREE	ST-1	Quercus nuttallii	Nuttall Oak
	ST-2	Quercus polymorpha	Monterrey Oak
	ST-3	Quercus	Shumard Oak
	ST-4	Ulmus crassifolia	Cedar Elm
	ST-5	Ulmus parviflora 'Emerit'	Allee Elm
ACCENT TREE	AT-1	Taxodium mucronatum	Montezuma Bald Cypress
	AT-2	Cercis canadensis var. texensis	Texas Redbud
	AT-3	Lagerstroemia indica 'Natchez'	Natchez Crepe Myrtle
	AT-4	Ilex x. attenuata 'East Palatka'	East Palatka
SHRUB/GROUND COVER			
SHRUB/GROUND COVER	SH-1	Myrica cerifera 'Don's Dwarf'	Dwarf Wax Myrtle
	SH-2	Rosa x 'Nearly Wild Rose'	Nearly Wild Rose
	SH-3	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly
	SH-4	Rosa sp. 'Double Knockout'	Knockout Roses
	SH-5	Liriope 'Gigantica'	Giant Liriope
	SH-6	Liriope muscari 'Big Blue'	Big Blue Liriope
	SH-7	Ophiopogon japonicus 'Aztect'	Aztec Grass
	SH-8	Trachelospermum asiaticum	Asian Jasmine
	SH-9	Lantana x. 'New Gold'	New Gold Lantana
ORNAMENTAL GRASS			
ORNAMENTAL GRASS	GR-1	Muhlenbergia capillaris	Gulf Coast Muhly
	GR-2	Miscanthus sinensis 'Adagio'	Dwarf Miscanthus 'Adagio'
	GR-3	Dietes bicolor	Butterfly Iris
	GR-4	Iris x. Louisiana	Louisiana Iris
	GR-5	Pennisetum setaceum	Purple Fountain Grass
	GR-6	Pennisetum alopecuroides 'Hamel'	Dwarf Fountain Grass
	GR-7	Wedelia trilobata	Wedelia
	GR-8		
TURF/SOD			
TURF/SOD	GS-1	Cynodon dactylon x. 'Celebration'	Celebration Bermuda
	GS-2	Cynodon dactylon x. 'Tiffdwarf'	Dwarf Tiff Bermuda

PLAN LEGEND

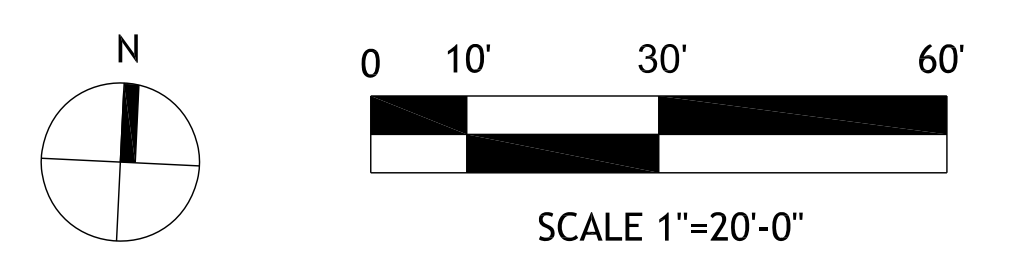
- CONTRACTOR TO LAYOUT ALL PLANTING BED LIMITS AND LOCATIONS OF ALL PROPOSED TREES IN THE FIELD FOR APPROVAL OF LANDSCAPE ARCHITECT. TREES SHALL BE PLANTED NO CLOSER THAN 5'-0" (AS MEASURED FROM CENTER OF TRUNK) FROM ANY WALKWAY, FENCE, BUILDING, OR OTHER HARDSCAPE ITEM.
- CONTRACTOR SHALL FINE GRADE ALL LANDSCAPE AREAS.
- CONTRACTOR TO PREPARE LANDSCAPE AREA SUBGRADE AS NOTED ON THE TURF LEGEND. ALL AREAS TO BE WEED FREE FOR 90 DAY MAINTENANCE PERIOD.
- WHERE INDICATED ON THE DRAWINGS AS TURF, THIS SHALL MEAN FULL COVERAGE HYDROMULCHING PER SPECIFICATIONS. WHERE INDICATED ON THE DRAWINGS AS SOD, THIS SHALL MEAN SOLID SOD COVERAGE PER SPECIFICATIONS AND THE TURF LEGEND ON THIS SHEET.
- SEE PLANTING DETAIL SHEET L9.00 FOR PLANTING QUANTITIES AND DETAILS. CONTRACTOR REQUIRED TO PROVIDE SUPPLEMENTAL WATERING OF SOD AND PLANTING AREAS NOT COVERED BY AUTOMATED IRRIGATION SYSTEM THROUGH 90 DAYS MAINTENANCE PERIOD AND TURF ESTABLISHMENT PERIOD.
- SEE SITE CLEARING PLAN L1.01 FOR OVERALL SITE PREPARATION REQUIREMENTS.

GENERAL NOTES

- METAL PLANT BED EDGING, SEE DETAIL #7, SHEET L9.00.
- CONCRETE PLANTING BED EDGING, SEE DETAIL #8, SHEET L9.00.
- PROVIDE ±12" CROWN TO PLANTING BED.
- 4" HARDWOOD BARK MULCH - TYPICAL.
- (2) ROWS OF SOLID SOD TYPICAL
- TYPICAL PUTTING AND/OR DRIVING RANGE GREEN SECTION, SEE DETAIL #9, SHEET L9.00.
- TYPE 'A' TURF TREATMENT, SEE SPECIFICATIONS/TURF LEGEND.
- TYPE 'B' TURF TREATMENT, SEE SPECIFICATIONS/TURF LEGEND.
- TYPE 'C' TURF TREATMENT, SEE SPECIFICATIONS/TURF LEGEND.
- TYPE 'D' TURF TREATMENT, SEE SPECIFICATIONS/TURF LEGEND.
- 4" OF RED CLAY INFIELD DIRT MIX, SEE SPECIFICATIONS.
- DECOMPOSED GRANITE PAVING, SEE DETAIL #5, SHEET L3.02.
- NO LANDSCAPE IMPROVEMENTS ON THIS AREA.

TURF LEGEND

- | | |
|------------------------|--|
| <p>TYPE 'A'</p> | <ol style="list-style-type: none"> DISC, RAKE, REMOVE DEBRIS, ROCKS (>1/2" Ø), DEAD OR DYING PL (INCLUDING ROOTS), AND/OR OTHER DELETERIOUS MATERIAL. ROUGH GRADE TO ±1" BELOW FINISH GRADE AND INCORPORATE 1" OF 3/8" SCREENED LEAF MULCH COMPOST INTO TOP 4" OF EXISTING SOIL. ADD SOIL AMMENDMENTS AS MAY BE REQUIRED. SOLID SOD AS SPECIFIED. (65-1) |
| <p>TYPE 'B'</p> | <ol style="list-style-type: none"> DISC, RAKE, REMOVE DEBRIS, ROCKS (>1/2" Ø), DEAD OR DYING PL (INCLUDING ROOTS), AND/OR OTHER DELETERIOUS MATERIAL. ROUGH GRADE TO ±1" BELOW FINISH GRADE AND INCORPORATE 1" OF APPROVED TOPSOIL INTO TOP 4" OF EXISTING SOIL. ADD SOIL AMMENDMENTS AS PER SPECIFICATIONS. APPLY PRE/POST EMERGENT HERBICIDE. HYDROMULCH TURF AS SPECIFIED. (65-1) (2 WEEKS AFTER HERBICIDE) |
| <p>TYPE 'C'</p> | <ol style="list-style-type: none"> REMOVE DEBRIS, ROCKS (>1/2" Ø), DEAD OR DYING PLANTS (INCLUDING ROOTS), AND/OR OTHER DELETERIOUS MATERIAL. BOX BLADE ANY DEPRESSIONS AND/OR RISES NOT TAKEN CARE OF DURING SITE PREPARATION CLEARING AND GRUBBING ACTIVITIES. APPLY PRE/POST EMERGENT HERBICIDE. HYDROMULCH TURF AS SPECIFIED. (65-1) (2 WEEKS AFTER HERBICIDE) |
| <p>TYPE 'D'</p> | <ol style="list-style-type: none"> REMOVE DEBRIS, ROCKS (>1/2" Ø), DEAD OR DYING PLANTS (INCLUDING ROOTS), AND/OR OTHER DELETERIOUS MATERIAL. BOX BLADE ANY DEPRESSIONS AND/OR RISES NOT TAKEN CARE OF DURING SITE PREPARATION CLEARING AND GRUBBING ACTIVITIES. SCALP MOW EXISTING VEGETATION. OVERSEED WITH TURF GRASS AS SPECIFIED. (65-1) |
| <p>TYPE 'E'</p> | <ol style="list-style-type: none"> PLACE APPROVED TOPSOIL TO ±1" BELOW FINISH GRADE. SLOPE 2% TO PERIMETER. TAPER TO EXISTING GRADE. INCORPORATE 1" OF 3/8" SCREENED LEAF MULCH COMPOST INTO TOP 4" OF SOIL. SOLID SOD AS SPECIFIED. (65-1) |



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 HCC SOUTH CAMPUS**

**1990 AIRPORT BLVD.
 HOUSTON, TEXAS 77051**

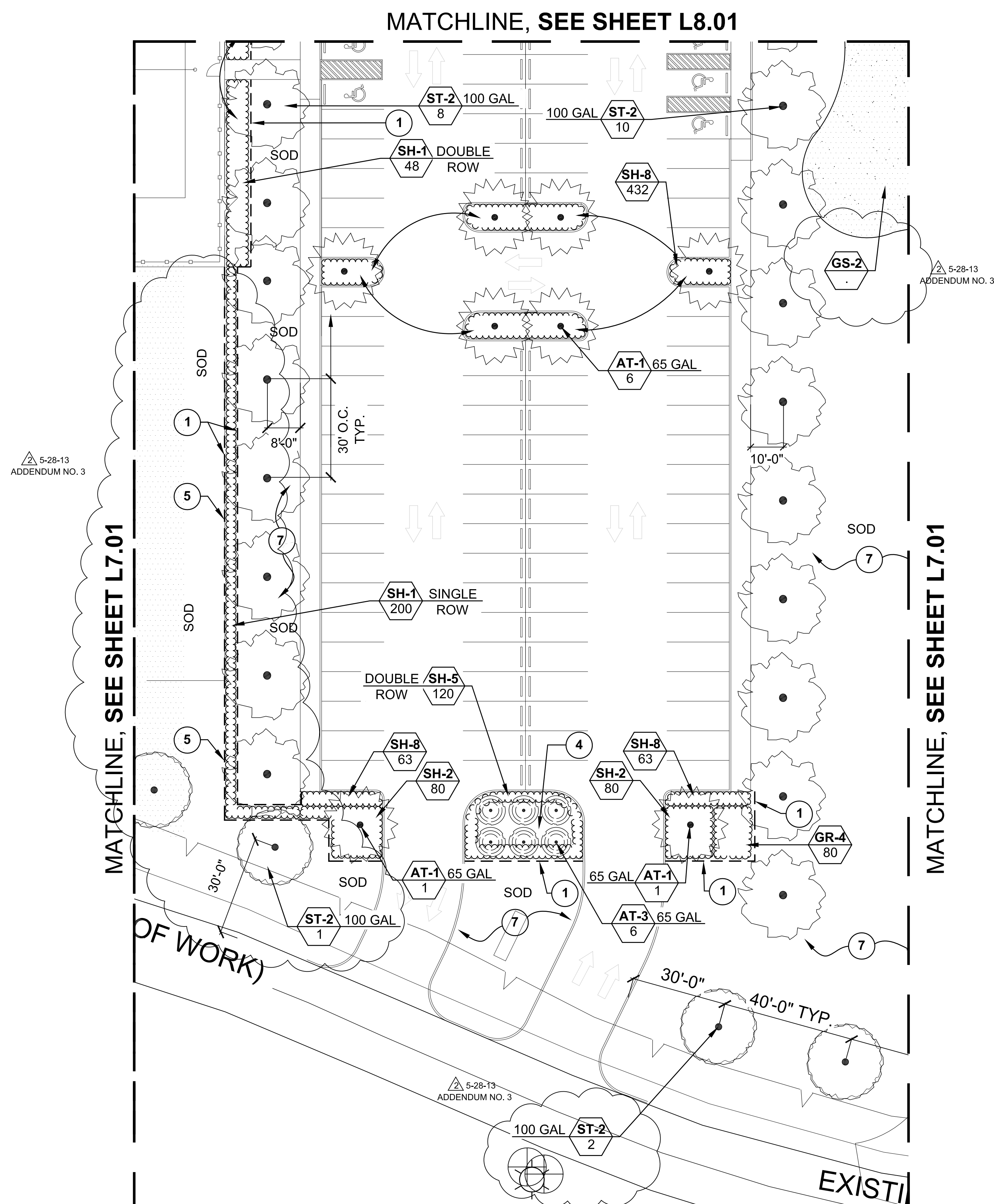


Date:	Date: 05-21-13
NEW CONSTRUCTION	FOR BID
4/09/2013	ADDENDUM NO. 1
5/01/2013	ADD. #3 PERMIT REVISIONS
5/28/2013	

**PLANTING PLAN
 1 OF 2**

L8.01

DATE:
 DRAWN BY:
 CHECKED BY:



TYPE	SYMBOL	SCIENTIFIC NAME	COMMON NAME
TREE			
NATURAL TREE	NT-1	Ulmus crassifolia	Cedar Elm
	NT-2	Myrica cerifera	Southern Wax Myrtle
	NT-3	Pinus taeda	Loblolly Pine
	NT-4	Quercus shumardii	Shumard Oak
STREET TREE	ST-1	Quercus rubra	Nuttall Oak
	ST-2	Quercus polymorpha	Monterrey Oak
	ST-3	Quercus	Shumard Oak
	ST-4	Ulmus crassifolia	Cedar Elm
	ST-5	Ulmus parviflora 'Emeril'	Allee Elm
ACCENT TREE	AT-1	Taxodium mucronatum	Montezuma Bald Cypress
	AT-2	Cercis canadensis var. texensis	Texas Redbud
	AT-3	Lagerstroemia indica 'Natchez'	Natchez Crepe Myrtle
	AT-4	Ilex x. attenuata 'East Palatka'	East Palatka
SHRUB/GROUND COVER			
SHRUB/GROUND COVER	SH-1	Myrica cerifera 'Dor's Dwarf'	Dwarf Wax Myrtle
	SH-2	Rosa x 'Nearly Wild Rose'	Nearly Wild Rose
	SH-3	Ilex vomitoria 'Nana'	Dwarf Yaupon Holly
	SH-4	Rosa sp. 'Double Knockout'	Knockout Roses
	SH-5	Liriodendron 'Gigantic'	Giant Liriodendron
	SH-6	Liriodendron muscari 'Big Blue'	Big Blue Liriodendron
	SH-7	Ophiopogon japonicum 'Aztec'	Aztec Grass
	SH-8	Trachelospermum asiaticum	Asian Jasmine
	SH-9	Lantana x. 'New Gold'	New Gold Lantana
ORNAMENTAL GRASS			
ORNAMENTAL GRASS	GR-1	Muhlenbergia capillaris	Gulf Coast Muhly
	GR-2	Miscanthus sinensis 'Adagio'	Dwarf Miscanthus 'Adagio'
	GR-3	Dianella bicolor	Butterfly Iris
	GR-4	Iris x. Louisiana	Louisiana Iris
	GR-5	Pennisetum setaceum	Purple Fountain Grass
	GR-6	Pennisetum alopecuroides 'Hamel'	Dwarf Fountain Grass
Turf/Sod	GS-1	Cynodon dactylon x. 'Celebration'	Celebration Bermuda
	GS-2	Cynodon dactylon x. 'Tifdwarf'	Dwarf Tif Bermuda

PLAN LEGEND

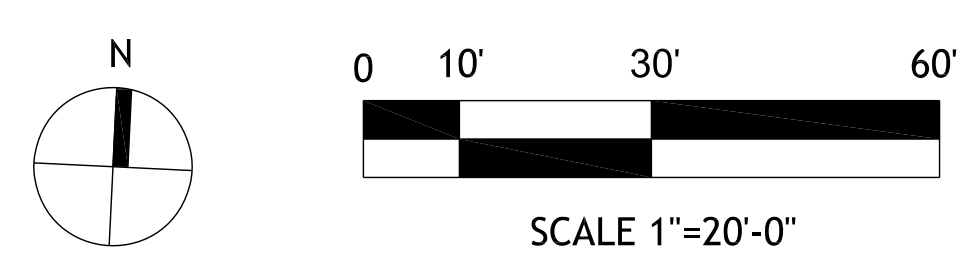
- A. CONTRACTOR TO LAYOUT ALL PLANTING BED LIMITS AND LOCATIONS OF ALL PROPOSED TREES IN THE FIELD FOR APPROVAL OF LANDSCAPE ARCHITECT.
- B. TREES SHALL BE PLANTED NO CLOSER THAN 5'-0" (AS MEASURED FROM CENTER OF TRUNK) FROM ANY WALKWAY, FENCE, BUILDING, OR OTHER HARDSCAPE ITEM.
- C. CONTRACTOR SHALL FINE GRADE ALL LANDSCAPE AREAS.
- D. CONTRACTOR TO PREPARE LANDSCAPE AREA SUBGRADE AS NOTED ON THE TURF LEGEND. ALL AREAS TO BE WEED FREE FOR 90 DAY MAINTENANCE PERIOD.
- E. WHERE INDICATED ON THE DRAWINGS AS TURF, THIS SHALL MEAN FULL COVERAGE HYDROMULCHING PER SPECIFICATIONS. WHERE INDICATED ON THE DRAWINGS AS SOD, THIS SHALL MEAN SOLID SOD COVERAGE PER SPECIFICATIONS AND THE TURF LEGEND ON THIS SHEET.
- F. SEE PLANTING DETAIL SHEET L9.00 FOR PLANTING QUANTITIES AND DETAILS.
- G. CONTRACTOR REQUIRED TO PROVIDE SUPPLEMENTAL WATERING OF SOD AND PLANTING AREAS NOT COVERED BY AUTOMATED IRRIGATION SYSTEM THROUGH 90 DAYS MAINTENANCE PERIOD AND TURF ESTABLISHMENT PERIOD.
- H. SEE SITE CLEARING PLAN L1.01 FOR OVERALL SITE PREPARATION REQUIREMENTS.

GENERAL NOTES

1. METAL PLANT BED EDGING, SEE DETAIL #7, SHEET L9.00.
2. CONCRETE PLANTING BED EDGING, SEE DETAIL #8, SHEET L9.00.
3. PROVIDE ±12" CROWN TO PLANTING BED.
4. 4" HARDWOOD BARK MULCH - TYPICAL.
5. (2) ROWS OF SOLID SOD TYPICAL
6. TYPICAL PUTTING AND/OR DRIVING RANGE GREEN SECTION, SEE DETAIL #9, SHEET L9.00.
7. TYPE 'A' TURF TREATMENT, SEE SPECIFICATIONS/TURF LEGEND.
8. TYPE 'B' TURF TREATMENT, SEE SPECIFICATIONS/TURF LEGEND.
9. TYPE 'C' TURF TREATMENT, SEE SPECIFICATIONS/TURF LEGEND.
10. TYPE 'D' TURF TREATMENT, SEE SPECIFICATIONS/TURF LEGEND.
11. 4" OF RED CLAY INFELD DIRT MIX, SEE SPECIFICATIONS.
12. DECOMPOSED GRANITE PAVING, SEE DETAIL #5, SHEET L3.02.
13. NO LANDSCAPE IMPROVEMENTS ON THIS AREA.

TURF LEGEND

- TYPE 'A'**
 1. DISC, RAKE, REMOVE DEBRIS, ROCKS (>1/2" Ø), DEAD OR DYING PL (INCLUDING ROOTS), AND/OR OTHER DELETERIOUS MATERIAL.
 2. ROUGH GRADE TO ±1" BELOW FINISH GRADE AND INCORPORATE 1" OF 3/8" SCREENED LEAF MULCH COMPOST INTO TOP 4" OF EXISTING SOIL.
 3. ADD SOIL AMMENDMENTS AS MAY BE REQUIRED.
 4. SOLID SOD AS SPECIFIED. (65-1)
- TYPE 'B'**
 1. DISC, RAKE, REMOVE DEBRIS, ROCKS (>1/2" Ø), DEAD OR DYING PL (INCLUDING ROOTS), AND/OR OTHER DELETERIOUS MATERIAL.
 2. ROUGH GRADE TO ±1" BELOW FINISH GRADE AND INCORPORATE 1" OF APPROVED TOPSOIL INTO TOP 4" OF EXISTING SOIL.
 3. ADD SOIL AMMENDMENTS AS PER SPECIFICATIONS.
 4. APPLY PRE/POST EMERGENT HERBICIDE.
 5. HYDROMULCH TURF AS SPECIFIED. (65-1) (2 WEEKS AFTER HERBICIDE)
- TYPE 'C'**
 1. REMOVE DEBRIS, ROCKS (>1/2" Ø), DEAD OR DYING PLANTS (INCLUDING ROOTS), AND/OR OTHER DELETERIOUS MATERIAL.
 2. BOX BLADE ANY DEPRESSIONS AND/OR RISES NOT TAKEN CARE OF DURING SITE PREPARATION CLEARING AND GRUBBING ACTIVITIES.
 3. APPLY PRE/POST EMERGENT HERBICIDE.
 4. HYDROMULCH TURF AS SPECIFIED. (65-1) (2 WEEKS AFTER HERBICIDE)
- TYPE 'D'**
 1. REMOVE DEBRIS, ROCKS (>1/2" Ø), DEAD OR DYING PLANTS (INCLUDING ROOTS), AND/OR OTHER DELETERIOUS MATERIAL.
 2. BOX BLADE ANY DEPRESSIONS AND/OR RISES NOT TAKEN CARE OF DURING SITE PREPARATION CLEARING AND GRUBBING ACTIVITIES.
 3. SCALP MOW EXISTING VEGETATION.
 4. OVERSEED WITH TURF GRASS AS SPECIFIED. (65-1)
- TYPE 'E'**
 1. PLACE APPROVED TOPSOIL TO ±1" BELOW FINISH GRADE. SLOPE 2% TO PERIMETER. TAPER TO EXISTING GRADE.
 2. INCORPORATE 1" OF 3/8" SCREENED LEAF MULCH COMPOST INTO TOP 4" OF SOIL.
 3. SOLID SOD AS SPECIFIED. (65-1)



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**PLANTING PLAN
2 OF 2**

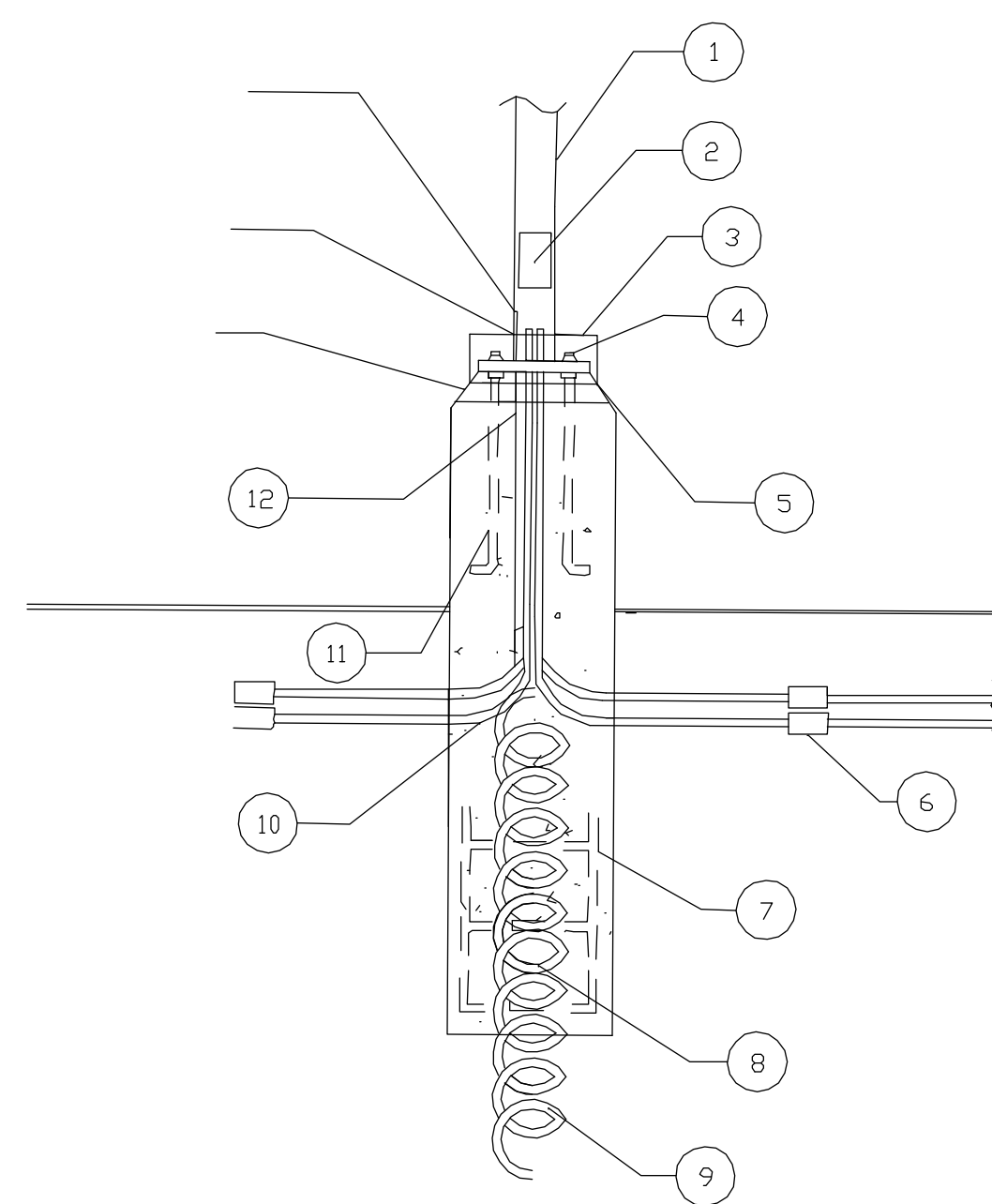
L8.02
DATE:
DRAWN BY:
CHECKED BY:

NOTES:

1. ELECTRICAL EQUIPMENT SHOWN IS NOT TO SCALE.

PROPOSED CIRCUITS ROUTING:

PARKING LOT A-25,27-29	L1-L5 PANEL A-L5-L3-L4-L2-L1
AREA LIGHTS 'W' A-31,33,35	PANEL A-L5-L3-L2-W1-W2-W3, W4-W5-W6-W7-W8
TENNIS COURT LIGHTS 'T' B-1,3,5; B-7,9,11; B-13,15,17; B-19,21,23	PANEL B-L5-L3-L2-T3-T1;T3-T4
MPSF(2) A-2,4,6; A-8,10,12; A14,16,18; A-20,22,24;	PANEL A-P2-P1-A2-B2-B2A;A2-A1-B1-B1A
DRIVING RANGE 'P' A-2,4,6	PANEL B-P2-P1 (A-T P5-P6)
FOOTBALL FIELD	PANEL A-L5-L3-L2-T3-T4; T3-T4-T2



DETAIL NOTES:

1. LIGHT POLE (20 FT. MAXIMUM HEIGHT)
2. HANDHOLE
3. BOLT COVER
4. DOUBLE NUT (TOP & BOTTOM)
5. 2" GROUT BENEATH POLE BASE
6. 1" DIRECT BURIED APPROXIMATELY 36" BELOW FINISHED GRADE. PVC TO BE CARLON "PV DUCT" TYPE 40 OR EQUAL.
7. STEEL TO PVC ADAPTER AND REDUCER FITTING AS REQUIRED.
8. LONG SWEEP ELBOW OF GALVANIZED RIGID CONDUIT.
9. ANCHOR BOLTS AND MANUFACTURER'S TEMPLATE BY ELECTRICAL CONTRACTOR.
10. ONE #4 AWG GROUND WIRE (MIN. 20 FT. LONG BARE COPPER)
11. 2" CHAMFERED EDGE
12. STUB CONDUIT 6" ABOVE FOUNDATION
13. BOND TO GROUND LUG
14. LIGHT POLE BASE, SEE ARCHITECTURAL DRAWING
15. DO NOT LEAVE GAP BETWEEN CONCRETE BASE AND BOLT COVER.

ELECTRICAL SCOPE OF WORK:

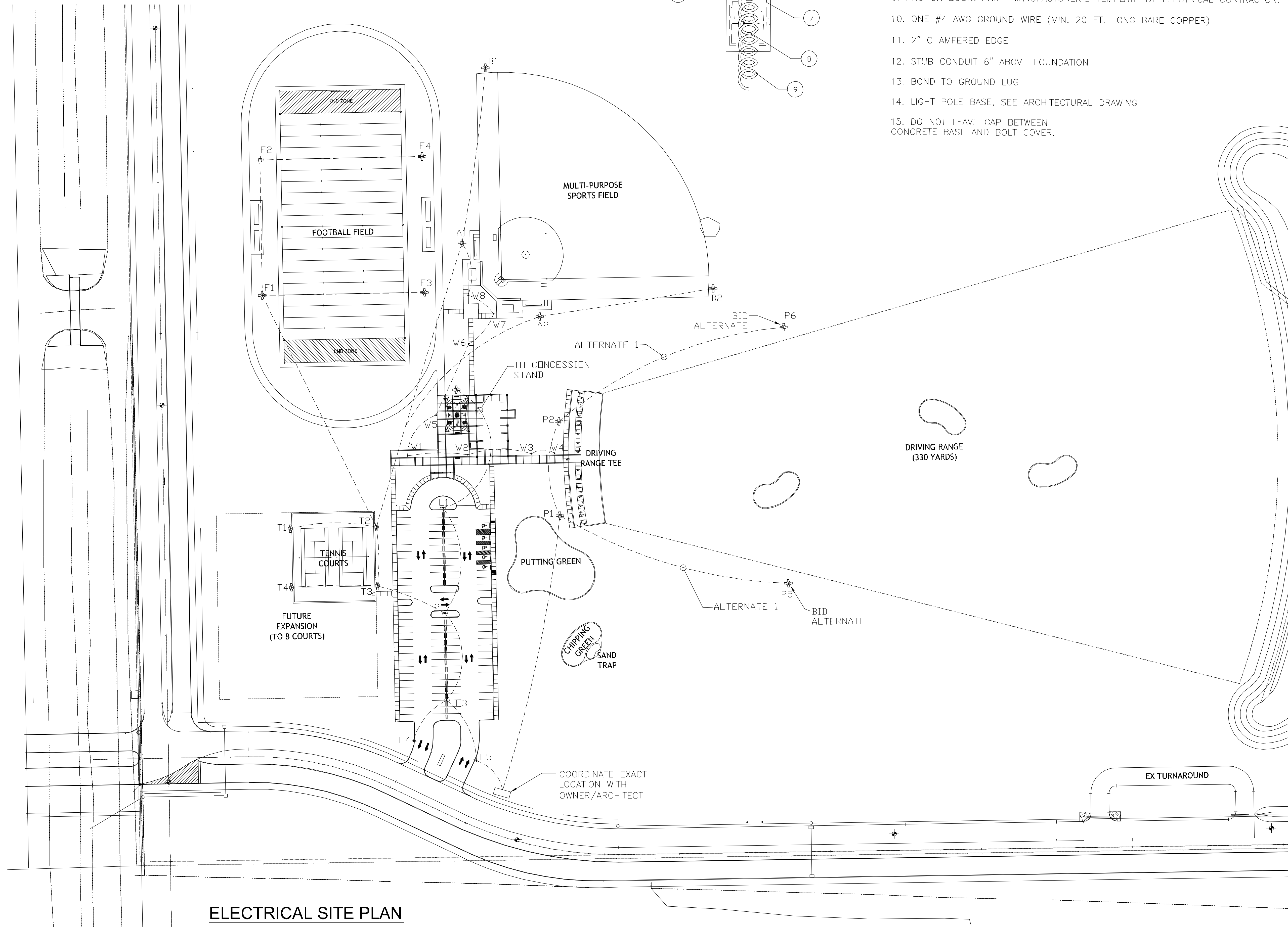
1. PROVIDE AND INSTALL NEW 480/277, 3PH, 4W, ELECTRIC SERVICE EQUIPMENT. PROVIDE ALL COORDINATIONS WITH POWER CO. AND PAY ALL FEES.
2. PROVIDE AND INSTALL BASEBALL, FOOTBALL, TENNIS COURT, DRIVING RANGE, PARKING LOT, AND MISCELLANEOUS LIGHTING.
3. PROVIDE AND INSTALL POWER RACK AND NEW CONTROLLER ASSEMBLY.
4. PROVIDE CONNECTIONS FOR CONCESSION STAND BEING PROVIDED BY OTHERS.

KEYED NOTES (THIS DRAWING ONLY):

- ① 2-1"Ø, GRC CONDUITS STUB UPS IN CONCRETE (TRANSITION FROM 1" PVC). ROUTE TO EXISTING PANEL 'L'.

NOTES:

1. TENNIS COURT LIGHTING ASSUMED TO BE ROUTED IN SAME TRENCH WITH 'L2' PARKING LOT LIGHT.
2. FOOTBALL FIELD LIGHTING ASSUMED TO BE ROUTED IN SAME TRENCH WITH 'T4' TENNIS COURT LIGHT.



ELECTRICAL SITE PLAN
SCALE=1/64"=1'-0"

NOTES:

1. PROVIDE NEW PARKING LOT LIGHTS AS SHOWN ON DRAWINGS. LIGHT LOCATIONS AND CONDUIT ROUTING MAY BE ADJUSTED AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS.
2. PROVIDE INTERMEDIATE PULL BOX PER DETAIL SHEET FOR ANY UNDERGROUND CONDUIT RUN OVER 150 FT.
3. PANEL CIRCUIT NUMBERS ARE SHOWN DIAGRAMMATICALLY. ROUTE CONDUIT AS REQUIRED BY FIELD CONDITIONS.
4. PROVIDE CONDUIT SLEEVE UNDER ANY EXISTING PAVEMENT. DO NOT CUT THROUGH PAVEMENT.
5. UNDERGROUND CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY AND MAY BE RELOCATED AT DISCRETION OF CITY ENGINEER.
6. ALL OUTSIDE ELECTRICAL EQUIPMENT INSTALLED IN THIS PROJECT SHALL BE LOCKABLE AND VANDAL RESISTANT TO GREATEST EXTENT POSSIBLE. COORDINATE SPECIFIC REQUIREMENTS WITH THE OWNER/ARCHITECT.

7. EQUIPMENT AND CONNECTIONS ARE SHOWN DIAGRAMMATICALLY AND MAY BE RELOCATED AT DISCRETION OF OWNER/ARCHITECT.

8. PROVIDE CONTACTORS, ASCO 920, 30A/2P, NEMA 3R, NEMA RATED, AND TIME CLOCK, TORK MODEL 7000ZL, NEMA 3R AT ELECTRICAL RACK AND ROUTE ALL OUTSIDE CIRCUITS THROUGH TIME CLOCK AND CONTACTOR.

9. PROVIDE 3/4" C., 3-12 AWG FOR IRRIGATION CONTROLLER. SEE DRAWING L5-001 FOR CONTROLLER LOCATION. PROVIDE CONNECTIONS AS SHOWN ON THIS DRAWING.

10. NO CONDUITS TO BE ROUTED BENEATH EXISTING PAVEMENT OR FIXTURES.

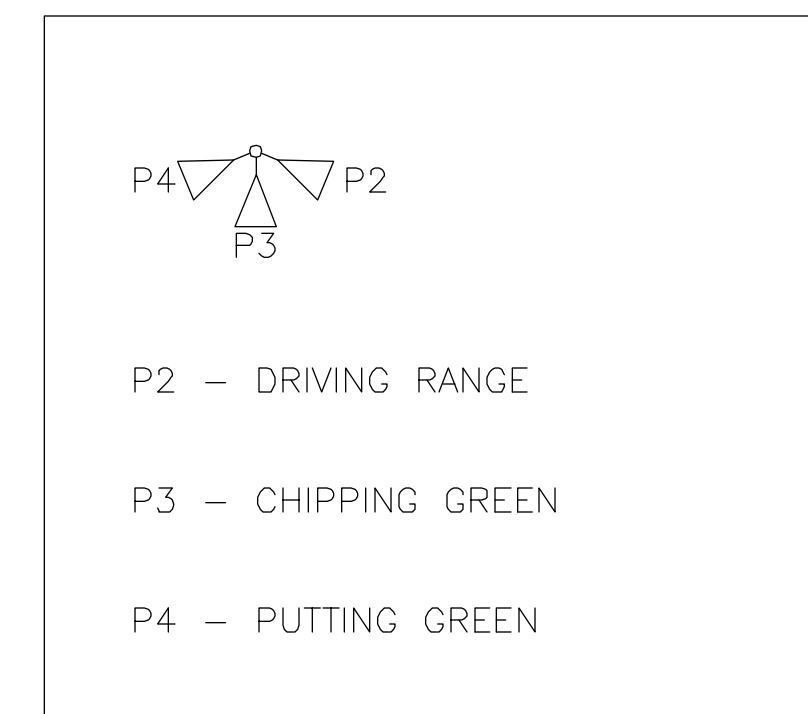
11. UNDERGROUND BOXES SHALL BE QUAZITE JUNCTION BOXES "NO CONCRETE WITH METAL COVERS". QUAZITE BOXES ARE AVAILABLE FROM WILDCAT ELECTRIC.

SPECIAL INSTRUCTIONS

1. CONTACT CPE REPRESENTATIVE ALLEN VARNER (713-945-4414) PRIOR TO DOING ANY ELECTRICAL WORK. COMPLY WITH ALL CPE REQUIREMENTS. TRANSFORMER POLE LOCATION SHOWN DIAGRAMMATICALLY ONLY AND MAY BE SUBJECT TO RELOCATION CONTINGENT ON CPE REQUIREMENTS.
2. EC TO ASSURE PROPER FIXTURE AIMING FOR OPTIMUM LIGHT COVERAGE.
3. EC TO OBTAIN ALL PERMITS AND PAY ALL FEES.
4. TEMPORARY ELECTRIC POWER IS NOT AVAILABLE AND WILL HAVE TO BE NEGOTIATED WITH CPE COMPANY. RESTROOMS ARE NOT AVAILABLE AND WILL HAVE TO BE PROVIDED ON OWN.
5. EC SHALL VISIT THE JOB SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH THE PROJECT REQUIREMENTS.

GENERAL REVISIONS

2



DETAIL 1

DRAWING LIST:

ESP1.0	OVERALL ELECTRICAL SITE PLAN
E1.0	SPECIFICATIONS/RISER
E2.0	ONE LINE DIAGRAM/SCHEDULES
E3.0	ELECTRICAL DETAILS I
E4.0	ELECTRICAL DETAILS II
E5.0	ELECTRICAL NOTES
E6.0	LIGHT POLES AND LIGHTING NOTES
E7.0	ELECTRICAL SCHEDULES
E8.0	ELECTRICAL DETAILS

NOTES:

1. ALL VOLTAGE DROP/WIRE SIZING CALCULATIONS BASED ON USE OF THIS ROUTING. PROPOSED CHANGES/MODIFICATIONS SHALL BE RECALCULATED BY THE EC AND APPROVED BY THE ENGINEER.
2. MULTI-PURPOSE SPORTS FIELD.

SEE E6.0 FOR CONDUIT/CONDUCTOR SCHEDULES

NOTE: EC TO OBTAIN CERTIFICATION FROM MANUFACTURER THAT THE EPA/POLE/FIXTURE/FOUNDATION/CONFIGURATION MEETS THE 120 MPH WIND REQUIREMENTS.

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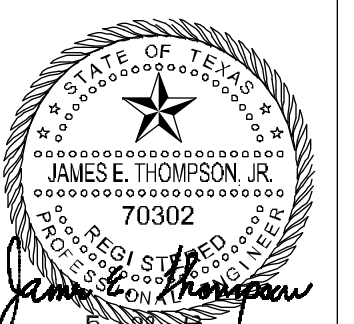
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Date: _____ Date: _____

NEW CONSTRUCTION	5/1/2013	ADDENDUM #1
	5/28/2013	ADDENDUM #3 & PERMIT REVISIONS

OVERALL ELECTRICAL SITE PLAN

ESP1.0

DATE:
DRAWN BY:
CHECKED BY:

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James E. Thompson & Associates
MEP Consulting Engineers
1169 County Road 136A
Alvin, Texas 77511
Business (281) 565-3729 Fax: (281) 824-4664
TSPS Firm Registration No. F1586
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ELECTRICAL SPECIFICATIONS

1. SCOPE

THE SCOPE OF THE WORK COVERED HEREIN CONSISTS OF FURNISHING ALL LABOR, MATERIALS, NECESSARY EQUIPMENT, AND SERVICES TO COMPLETE THE ELECTRICAL WORK AND RELATED WORK IN FULL ACCORDANCE WITH PLANS AS INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN OR BOTH AND SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT.

ALL ITEMS NOTED HEREIN, SHOWN BY THE ELECTRICAL PLANS, OR REASONABLY TO BE INTERPRETED FROM THE PLANS NECESSARY TO COMPLETE THE ELECTRICAL SYSTEM SHALL BE PROVIDED AND INSTALLED UNDER THE WORK OF THIS SECTION, WHETHER SOME ARE SPECIFICALLY MENTIONED HEREIN OR NOT.

2. CODES, RULES, PERMITS, AND FEES

ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL WORK, BOTH OLD AND NEW, COMPLIES WITH THE LATEST NEC AND APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.

3. DRAWINGS

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE SCALED. THE CIVIL SITE PLAN DRAWINGS AND DETAILS SHALL BE EXAMINED FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. ANY CONFLICT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

4. SHOP DRAWINGS

THE SUBCONTRACTOR SHALL SUBMIT TO THE ENGINEER, SIX (6) COPIES FOR APPROVAL OF DETAILED SHOP DRAWINGS OF ALL EQUIPMENT AND ALL MATERIALS REQUIRED TO COMPLETE THE PROJECT.

MATERIALS OR PRODUCTS IDENTIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBER SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTE ITEMS SHALL BE CLEARLY IDENTIFIED AS SUCH, AND THE REASON FOR SUBSTITUTION SHALL BE PROVIDED.

5. COOPERATION WITH OTHER TRADES

THE ELECTRICAL CONTRACTOR SHALL FULLY COOPERATE WITH THE OTHER TRADES, AND SHALL FURNISH OTHER CONTRACTORS, WITH COPIES TO THE ENGINEER, ANY INFORMATION NECESSARY TO PERMIT THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY. COORDINATE ALL CONDUIT RUNS AND EQUIPMENT WITH OTHER TRADES. VERIFY NAMEPLATE ELECTRICAL DATA OF ACTUAL EQUIPMENT FURNISHED BY OTHERS BEFORE BEGINNING INSTALLATION.

6. CUTTING, PATCHING, AND FINISHING

THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING, DRILLING, ETC. REQUIRED FOR WORK, INCLUDING PREPARING OF FINISHED SURFACES, ALL REQUIRED SHORING AND BRACING, AND ALL PROTECTION FOR SAFETY OF PERSONS AND PROPERTY.

7. EXCAVATING AND BACKFILLING

THE ELECTRICAL CONTRACTOR SHALL DO ALL TRENCH AND PIT EXCAVATING AND BACKFILLING REQUIRED FOR WORK UNDER THIS SECTION OF THE SPECIFICATIONS, INCLUDING REPAIRING OF FINISHED SURFACES, ALL REQUIRED SHORING, BRACING, PUMPING, AND ALL PROTECTION FOR SAFETY OF PERSONS AND PROPERTY.

8. MATERIALS AND WORKMANSHIP

ALL MATERIALS AND APPARATUS REQUIRED FOR THIS WORK SHALL BE NEW UNLESS INDICATED OTHERWISE ON THE PLANS. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL EQUIPMENT AS SHOWN, VERIFYING ALL MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL WALL-MOUNTED ELECTRICAL DEVICES WITH THE ENGINEER PRIOR TO ROUGH-IN. CONNECTIONS AND JUNCTION BOXES TO EQUIPMENT ARE DIAGRAMMATIC. VERIFY EXACT LOCATION OF CONNECTIONS TO SPECIFIC EQUIPMENT AND DEVICES.

9. PANELBOARDS AND BREAKERS

BREAKERS SHALL BE AS MANUFACTURED BY CUTLER-HAMMER (OR EQUAL) AND BE OF SIZE AND RATING AS SHOWN ON THE DRAWING. MULTI-POLE BREAKERS SHALL HAVE A SINGLE HANDLE TRIP AND HAVE AN AIC RATING TO MATCH OTHER BREAKERS IN THE PANEL. PROVIDE A REVISED CIRCUIT DIRECTORY, TYPED AND MOUNTED IN A CLEAR PLASTIC SLEEVE, INSIDE THE PANELBOARD.

10. GROUNDING

ALL CONDUITS SHALL HAVE A GROUND WIRE INSTALLED. A CONDUIT GROUND SHALL NOT BE USED. NEW EQUIPMENT SHALL NOT HAVE SEPARATE GROUND ROD, BUT SHALL BE BONDED TO EXISTING GROUNDING SYSTEM VIA GROUNDING CONDUCTORS.

11. MISCELLANEOUS EQUIPMENT

LIGHTING FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH NEC 2002. CONDUCTORS - ABOVE GROUND CONDUCTORS SHALL BE RATED 600V.

XHHW OR EQUAL. CONDUCTORS #12 AWG AND LARGER SHALL BE STRANDED.

12. CONDUIT

CONDUIT SHALL BE EMT INSIDE & RGS OUTSIDE. LIQUID TIGHT FLEX SHALL BE USED FOR FINAL CONNECTION TO ALL FIXED EQUIPMENT.

13. EQUIPMENT FURNISHED BY OTHERS

ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRE AND DISCONNECT SWITCHES TO CONNECT ELECTRICAL EQUIPMENT SUPPLIED BY OTHERS, WHICH SHALL INCLUDE NEW AND RELOCATED EXISTING EQUIPMENT. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS.

14. RECORD DRAWINGS

THE ELECTRICAL CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ACTUAL CONSTRUCTION, INCLUDING DEVICE LOCATIONS AND CONDUIT RUNS IF DIFFERENT FROM THE PLANS. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A REPRODUCIBLE SET OF PLANS OF THE COMPLETE ELECTRICAL SYSTEM AS INSTALLED (AS-BUILT DRAWINGS). THE SCALE ON THESE AS-BUILT DRAWINGS SHALL BE NO SMALLER THAN THE SCALE USED ON THE ORIGINAL PLANS.

15. TESTING

FINAL TESTS SHALL BE MADE ONLY AFTER THE ENGINEER IS SATISFIED THAT ALL WORK HAS BEEN COMPLETED. TESTING SHALL INCLUDE ALL SYSTEMS AND SUBSYSTEMS, AND SHALL BE COORDINATED WITH OTHER TRADES. ELECTRICAL CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITIES UNTIL FINAL TESTING HAS BEEN COMPLETED AND INSTALLATION IS SATISFACTORY TO THE ENGINEER AND OWNER'S REPRESENTATIVE.

16. FINAL ACCEPTANCE

AFTER TESTING, THE FINAL INSPECTION SHALL BE MADE BY THE ENGINEER AND OTHER AUTHORIZED PERSONS ALONG WITH THE ELECTRICAL CONTRACTOR. FINAL ACCEPTANCE OF THE PROJECT SHALL NOT PREJUDICE THE OWNER'S RIGHT TO REQUIRE REPLACEMENT AND/OR REPAIR OF ANY DEFECTIVE WORK OR MATERIALS.

17. ELECTRICAL NOTES

FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, INSURANCE, SERVICES AND PERMITS NECESSARY TO CONSTRUCT AND INSTALL A COMPLETE OPERATING ELECTRICAL SYSTEM.

ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE CODES AS REQUIRED BY THE CITY OF HOUSTON.

CONTRACTOR SHALL OBTAIN ALL PERMITS AND SHALL PAY FOR ALL ASSOCIATED EXPENSES, PRINTING AND INSPECTIONS.

ALL MATERIAL SHALL BE NEW AND UL LISTED. MATERIAL SHALL BEAR THE APPROVAL LABEL OF UL, WHEN SUCH IS AVAILABLE.

UNLESS OTHERWISE SHOWN, ALL BRANCH CIRCUIT WIRES SHALL BE THHN/THWN COPPER. FEEDERS TO PANELBOARDS AND INCOMING SERVICE SHALL BE THW OR THWN COPPER.

ALL ELECTRICAL CONDUITS, RACEWAYS AND CABLES SHALL HAVE A GROUND CONDUCTOR. MINIMUM SIZE SHALL BE NO. 12 AWG.

EXACT LOCATION AND MOUNTING HEIGHT OF LIGHTING FIXTURES, WIRING DEVICES, AND OUTLET BOXES FOR ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH THE OWNER AND THE EQUIPMENT VENDOR.

TOGGLE SWITCHES SHALL BE MOUNTED AT 42 INCHES ABOVE FINISHED FLOOR. WALL MOUNTED RECEPTACLES SHALL BE MOUNTED AT 15 INCHES A.F.F. AND 8 INCHES ABOVE COUNTERS.

WIRING DEVICES THAT OCCUR TOGETHER SHALL BE GANGED UNDER A COMMON WALL PLATE.

COLOR OF WALL PLATES SHALL BE AS DIRECTED BY THE OWNER.

EACH PANEL AND SAFETY SWITCH SHALL BE IDENTIFIED BY AN ENGRAVED, LAMINATED NAMEPLATE.

ALL NEW PANELBOARDS SHALL HAVE A FULL NEUTRAL AND GROUND BUS.

COORDINATE CONDUIT ROUTING AND METHOD OF SUPPORT WITH THE OWNER.

VERIFY ACTUAL NAMEPLATE LOADS OF EQUIPMENT AND INSTALL THE PROPER NEC SIZE FUSE OR CIRCUIT BREAKER. NOTIFY THE ENGINEER IF CHANGES IN WIRE AND RATING SIZES ARE REQUIRED.

FEEDER INSTALLATION SHALL BE EMT INDOORS AND HDG RIGID STEEL CONDUIT FOR EXPOSED WORK OUTDOORS. BRANCH CIRCUIT INSTALLATION IN CEILING SHALL UTILIZE TYPE AC CABLE WITH GROUND WIRE. CONDUCTORS SHALL BE NO 12 AWG MINIMUM.

HOMERUNS OF 20 AMP BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH SHALL BE NO. 10 AWG.

COMPLETE, TYPED PANEL DIRECTORIES SHALL BE PROVIDED UPON COMPLETION OF WORK, INCLUDING EXISTING PANELS.

UPON COMPLETION OF WORK, THE CONTRACTOR SHALL FURNISH THE OWNER A RED MARKED SET OF DRAWINGS INDICATING ALTERATION THAT WERE MADE, UNDERGROUND CONDUIT ROUTING, SCHEMATICS AND EQUIPMENT WIRING DIAGRAMS.

CONTRACTOR SHALL CONNECT ALL OWNER-PROVIDED EQUIPMENT AS LISTED IN PANEL SCHEDULES, EQUIPMENT SCHEDULE, AND AS SHOWN ON THE DRAWINGS.

FINAL CONNECTIONS TO CEILING MOUNTED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE METALLIC CONDUIT OR AC CABLE. PROVIDE SLACK SO THAT FIXTURE CAN BE MOVED TO THE NEXT CEILING TILE.

FLOOR CHASE LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT.

WIRING DEVICES SHALL BE SPECIFICATION GRADE.

FLOOR BOXES (IF REQ'D) SHALL BE CAST IRON WITH BRASS FINISH COVER PLATE, AS MANUFACTURED BY HUBBELL OR APPROVED EQUAL.

CONDUCTOR SIZES, WHERE SHOWN ON THE ONE-LINE DIAGRAM, ARE THE MINIMUM REQUIRED BY THE NEC. CONTRACTOR MAY RESIZE THE PANELBOARD FEEDERS IF CONDITIONS WARRANT. THESE DRAWINGS IDENTIFIED ALL KNOWN ELECTRICAL LOADS AND ASSIGNED CIRCUITS TO EACH OF THE LOADS. CONTRACTOR MAY CONNECT EQUIPMENT TO ANOTHER PANELBOARD OR CIRCUIT AS REQUIRED BY FIELD CONDITIONS. WHEN CONDUIT CAN NOT BE CONCEALED IN THE WALL, UTILIZE SURFACE RACEWAY BY PANDUIT OR APPROVED EQUAL.

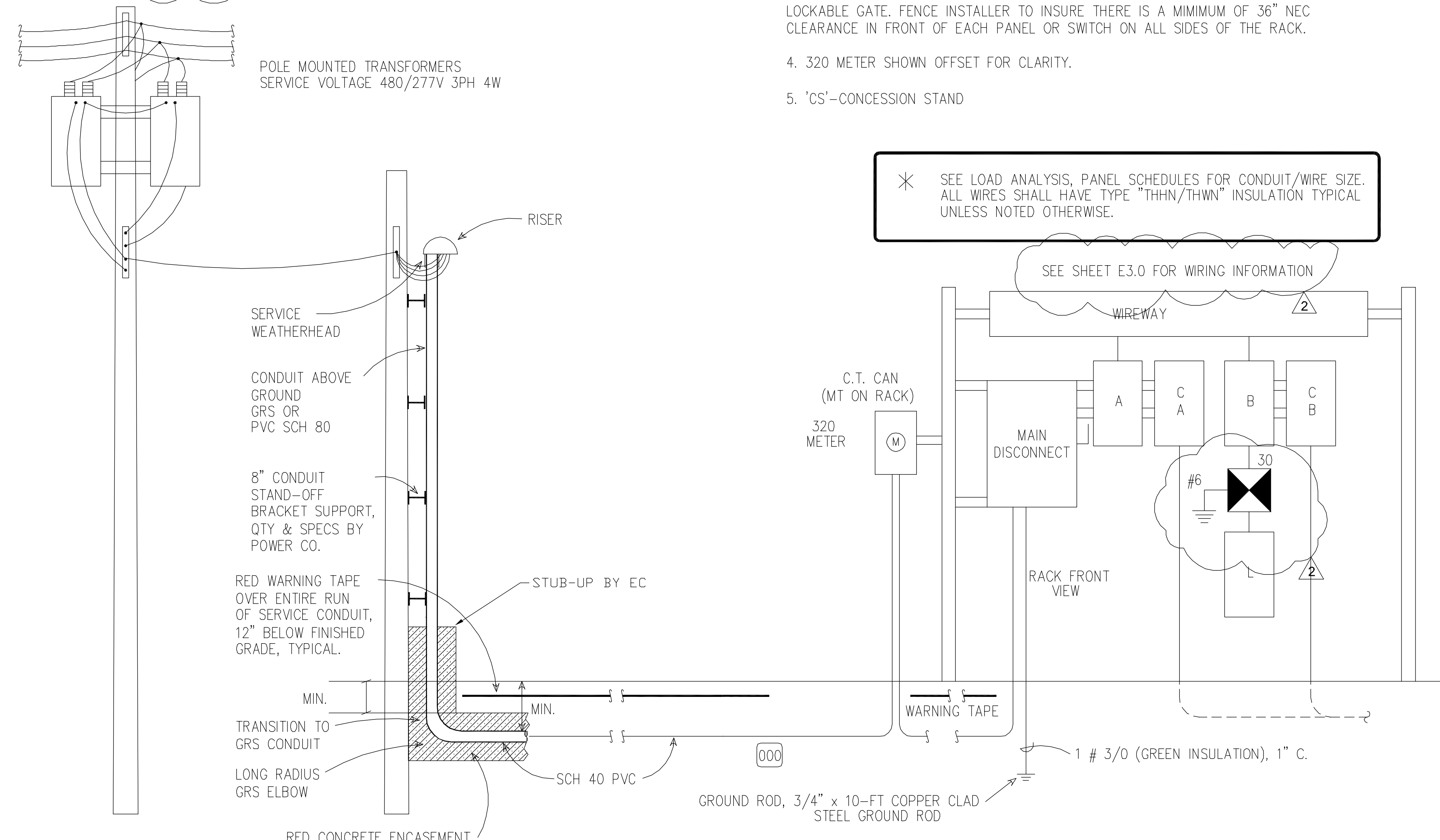
EXHAUST FANS BROAN MODEL 509. SWITCH EXHAUST FANS SEPARATELY FROM REST ROOM LIGHTS.

SCOPE OF WORK PROVIDED IS INTENDED TO COVER MOST ITEMS REQUIRED, BUT SCOPE IS NOT NECESSARILY ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR ALL WORK ITEMS IDENTIFIED IN THESE PLANS.

CONTRACTOR AT CONCLUSION OF WORK SHALL FIELD VERIFY THAT ALL CIRCUITS ARE NON-OVERLOADING. CONTRACTOR SHALL RE-CIRCUIT AS REQUIRED AND COMBINE CIRCUITS AS NECESSARY TO OBTAIN BALANCED LOADS.

SPECIAL INSTRUCTIONS

- CONTRACTOR SHALL USE OFF-THE-SHELF MOUNTING HARDWARE WIRE AVAILABLE, BUT SHALL FIELD-MODIFY PARTS AS REQUIRED IF HARDWARE IS NOT AVAILABLE.
- CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH OWNER PRIOR TO ORDERING OR INSTALLING ANY EQUIPMENT.
- COORDINATE ELECTRIC SERVICE REQUIREMENTS WITH CENTERPOINT ENERGY. CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH INSTALLATION OF ELECTRIC SERVICE, INCLUDING PERMIT, FEES, AND ANY OTHER INSTALLATION COSTS.
- SPLICES ARE GENERALLY NOT PERMITTED. REQUIREMENTS FOR SPLICES SHALL BE APPROVED BY OWNER'S REPRESENTATIVE.
- ALL UNDERGROUND CONDUITS AND CONDUCTORS TO BE PVC WITH XHHW.
- BENDING RADIUS FOR ALL CONDUITS AND CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS.
- FIELD INSPECTIONS SHALL BE PROVIDED FOR ALL UNDERGROUND CONSTRUCTION FEATURES INCLUDING CONDUITS AND PULL BOXES PRIOR TO FINAL COVER UP.



RACK TOP VIEW (NOT TO SCALE)

- NOTES:
- CONCRETE PAD TO BE 12" THICK AND EXTEND A MINIMUM OF 6" ABOVE AVERAGE GRADE. PROVIDE #4 RE-BAR @ 4" ON CENTERS IN BOTH DIRECTIONS. EXPOSED EDGES TO BE BULL NOSED. REBAR TO BE WELDED AND EXTENDED TO OUTSIDE OF CONCRETE AND BE CONNECTED WITH UL LISTED GROUNDING CLAMP TO GROUNDING ELECTRODE SYSTEM. OUTSIDE CONNECTION TO BE MADE TO PROVIDE FOR PERIODIC MAINTENANCE INSPECTIONS. SEE DETAILS.
 - CONCRETE TO HAVE 12" X 12" BLOCK OUT FOR FUTURE. COORDINATE EXIT LOCATION WITH OWNER'S REPRESENTATIVE.
 - RACK TO BE FENCED WITH WROUGHT IRON FENCE WITH VANDAL-RESISTANT LOCKABLE GATE. FENCE INSTALLER TO INSURE THERE IS A MINIMUM OF 36" NEC CLEARANCE IN FRONT OF EACH PANEL OR SWITCH ON ALL SIDES OF THE RACK.
 - 320 METER SHOWN OFFSET FOR CLARITY.
 - 'CS'-CONCESSION STAND

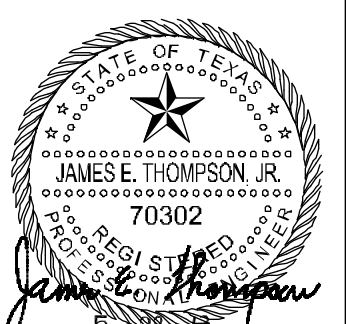
SERVICE RISER DETAIL (NOT TO SCALE)

ELECTRICAL SPECIFICATIONS AND RISER DIAGRAM

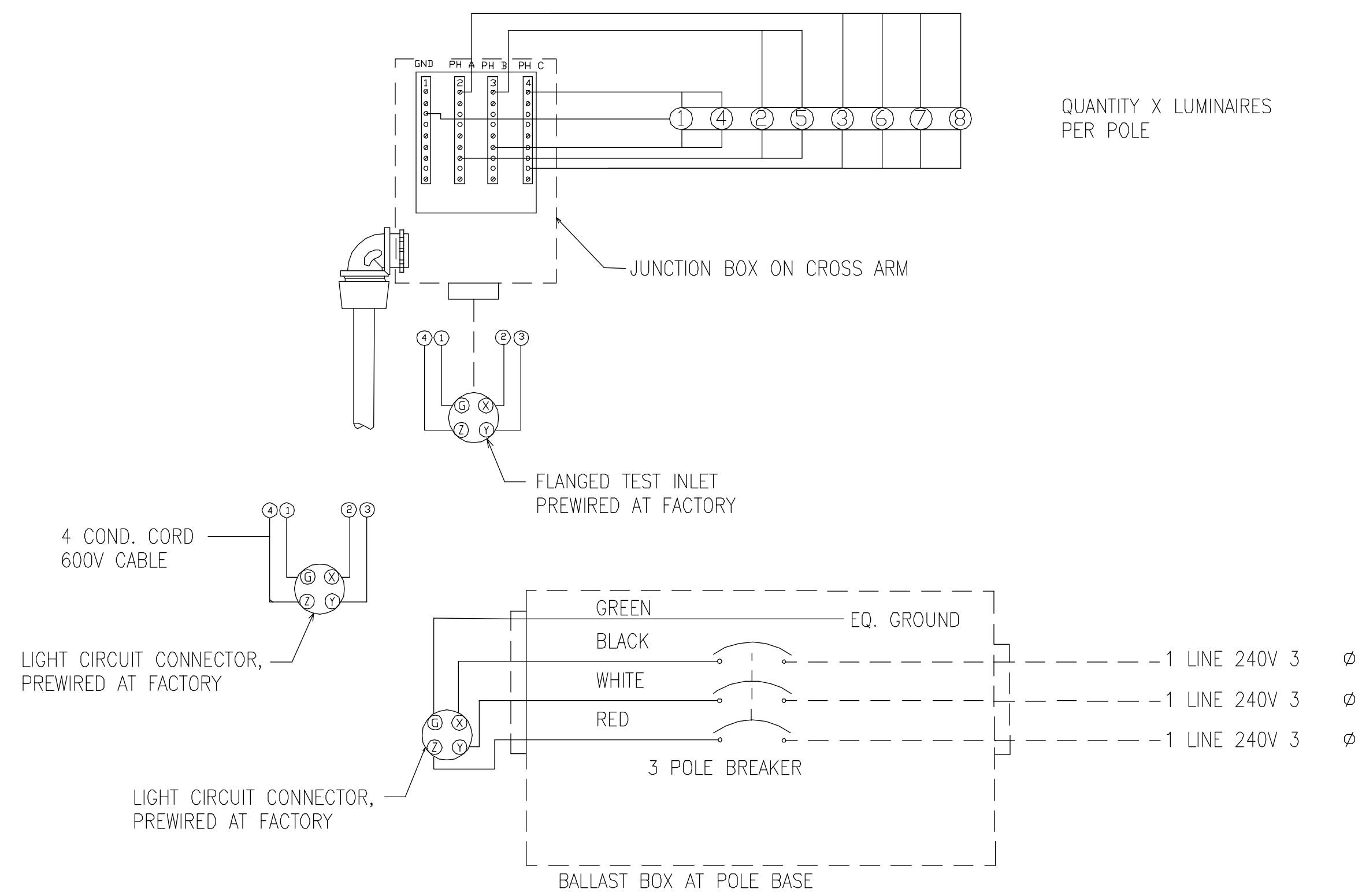
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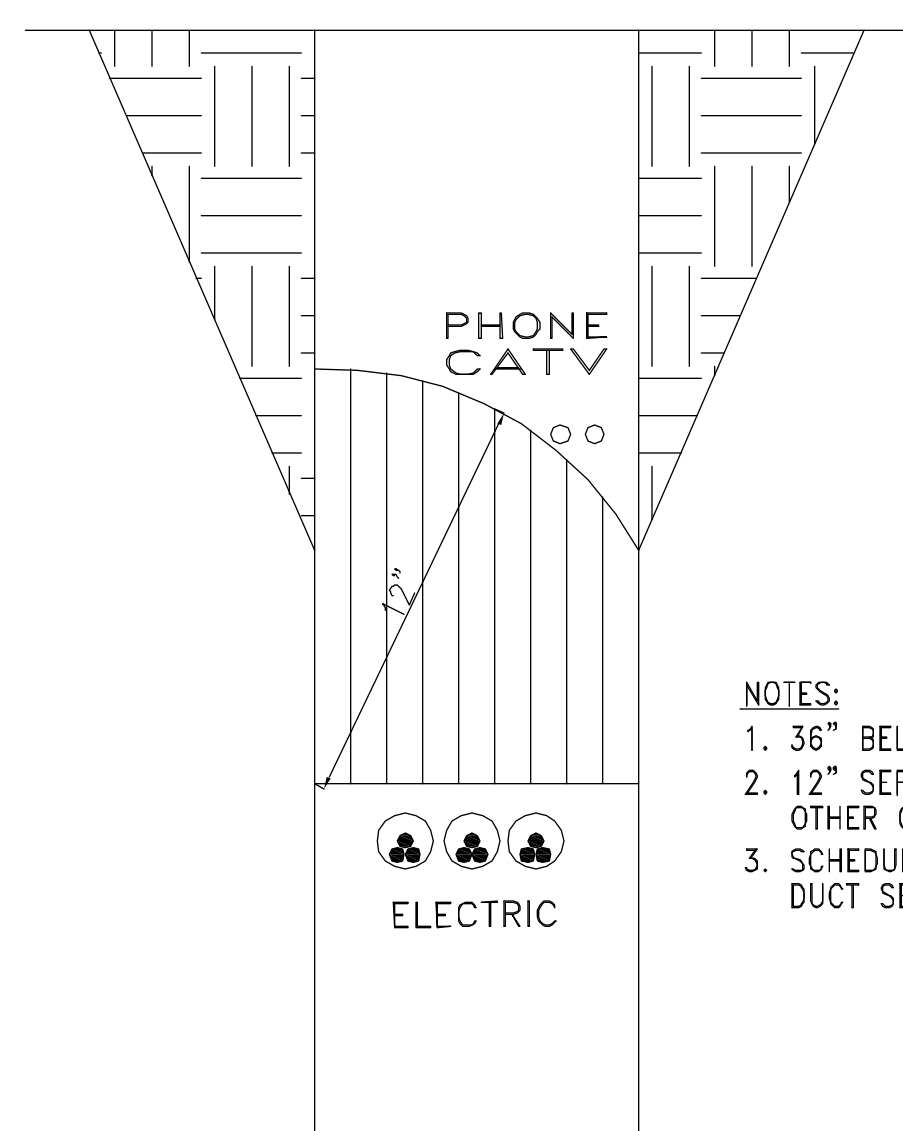


Date:	Date:
NEW CONSTRUCTION	
5/1/2013	ADDENDUM #1
5/28/2013	ADDENDUM #3 & PERMIT REVISIONS
SPECIFICATIONS/ RISER	
E-2.0	DATE:
	DRAWN BY:
	CHECKED BY:



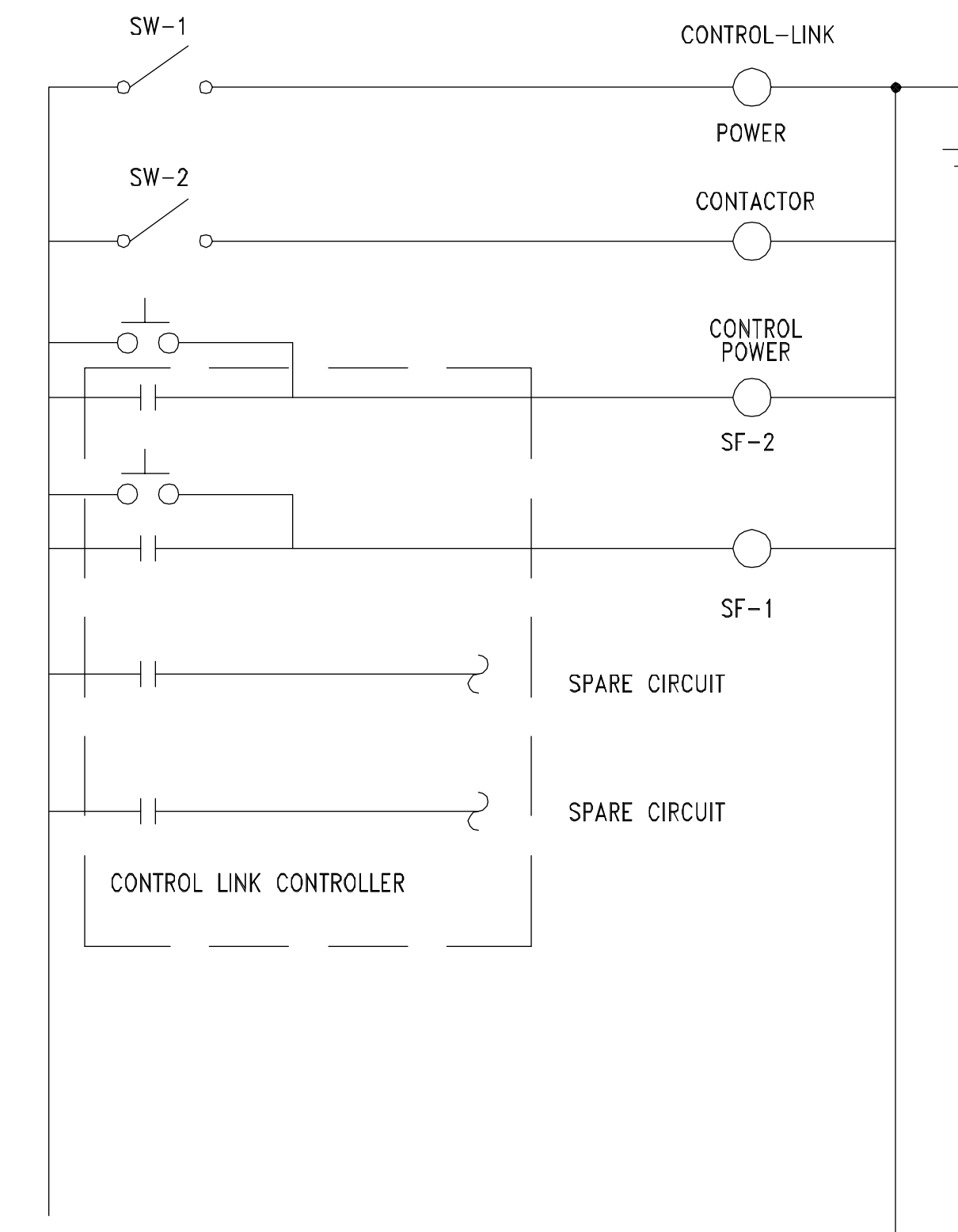
1
E5 POLE WIRING SCHEMATIC DIAGRAM
NTS

NOTES:
1. WIRING SCHEME MAY VARY DEPENDING ON MANUFACTURER SELECTED. PHASE BALANCING AND PLUG-IN FEATURES SHOWN ARE REQUIRED.



3
E5 TYPICAL DUCT SECTION FOR SECONDARY CONDUCTORS

NOTES:
1. 3/8" BELOW GRADE MIN.
2. 12" SEPARATION FROM ALL OTHER OBJECTS.
3. SCHEDULE 80 PVC TYP. DUCT SECTION.



4
E5 REMOTE CONTROLLER CIRCUIT DIAGRAM
NTS

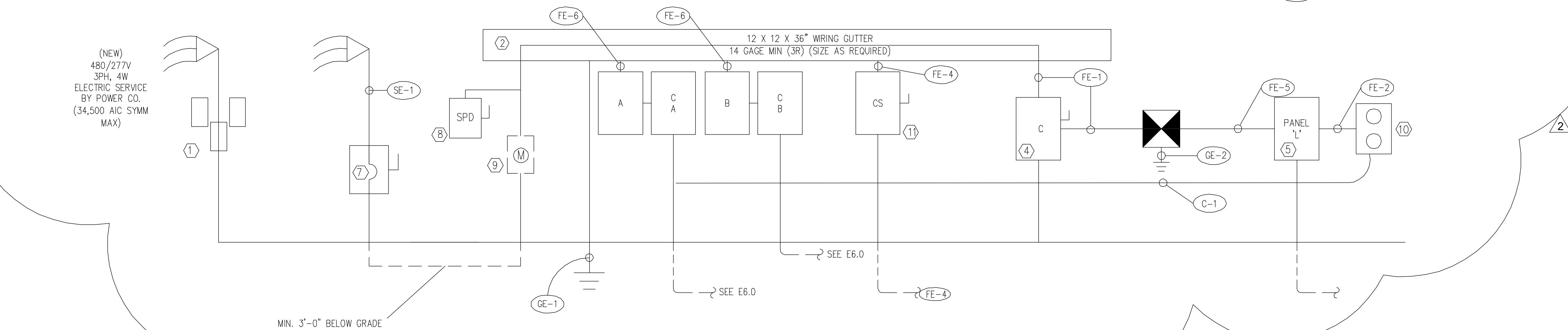
NOTES:
1. WIRING SCHEME MAY VARY DEPENDING ON MANUFACTURER SELECTED. PHASE BALANCING AND PLUG-IN FEATURES SHOWN ARE REQUIRED.

KEYED NOTES (THIS DWG. ONLY)

- ① POWER CO. EQUIPMENT BY POWER CO.
- ② RACK-MOUNTED WIREWAY
- ③ CONTACTOR, 60A, ASCO 920, 3P, 120V COIL.
- ④ 60A SAFETY DISCONNECT, 480V, 3PH, NEMA 3R, HD, 3-FRS-60 FUSES.
- ⑤ PANEL 'A', 60A, 120/240V, 1PH, 3W 12 CKT, NEMA 3R, 60A MCB.
- ⑥ LIGHTING CONTROLLER, SEE SPECS DRAWING E-6+7
- ⑦ MAIN DISCONNECT, 400A, 480V, 3PH, 3R, HD 3-FRS 400 FUSES. PROVIDE NEUTRAL AND GROUND KIT.
- ⑧ SPD TO BE CUTLER HAMMER CLIPPER SERIES MODEL CPS-200-480H-A-K WITH REMOVE MOUNTING CABLE CPSR1B06 AND ADVORY DISPLAY CPS-RDP-KITA. SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO BID.
- ⑨ 320 METER BY EC.
- ⑩ GFCI DUPLES RECEPTACLE OUTLET IN CAST ALUMINUM FD BOX WITH VANDAL RESISTANT, IN-USE COVER ASSEMBLY.
- ⑪ CONCESSION STAND DISCONNECT 100A/480V/3P/3R/HD/N&G KIT/3-FRS 100 FUSES.

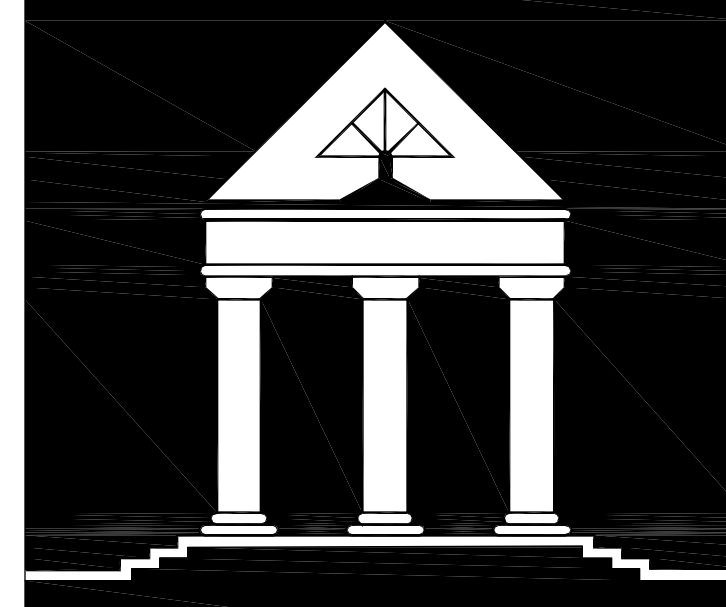
CONDUIT/ CONDUCTOR SCHEDULE

- SE-1 3 1/2" C., #4-500 KCMIL(CU)
- GE-1 #3/0 AWG BC
- GE-2 #4 BC
- S-1 1 1/2" C., 4-#2 AWG, 1-#3 AWG GND
- S-2 1 1/2" C., 4-#2 AWG, 1-#3 AWG GND
- S-3 1 1/2" C., 4-#2 AWG, 1-#3 AWG GND
- S-4 1 1/2" C., 4-#2 AWG, 1-#3 AWG GND
- FE-1 1" C., 3-#6 AWG
- FE-2 3/4" C., 3-#12
- FE-3 3" C., 3-500, 1-250 KCMIL N, 124.71 KCMIL, 1-3/0 AWG GND
- FE-4 1 1/2" C., 4#2 AWG, 1#4G
- FE-5 1 1/4" C., 3#3, 1#6G
- FE-6 2 1/2" C., 4#3/0, 1#4G
- C-1 3/4" C., 3-#10



ONE LINE DIAGRAM
NO SCALE

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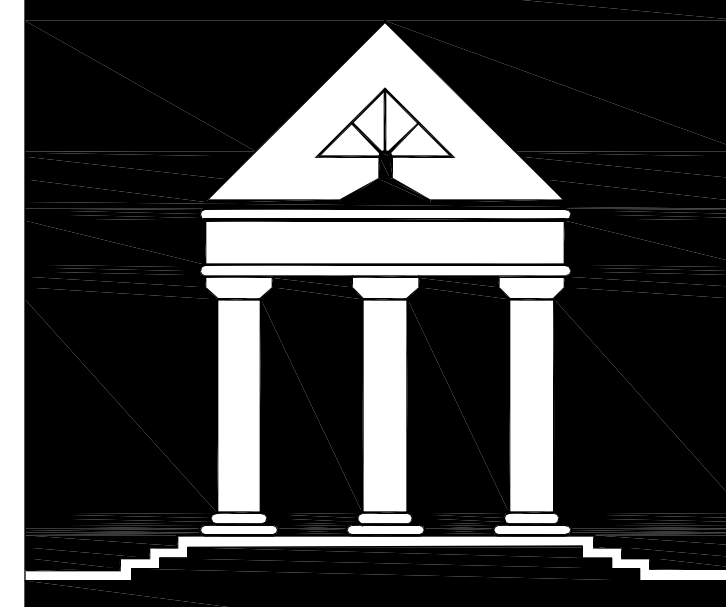


Date: _____ Date: _____

NEW CONSTRUCTION
5/12/2013 ADDENDUM #1
5/28/2013 ADDENDUM #3 & PERMIT REVISIONS

**ONE LINE DIAGRAM/
SCHEDULES**

E-3.0 DATE: _____
DRAWN BY: _____
CHECKED BY: _____



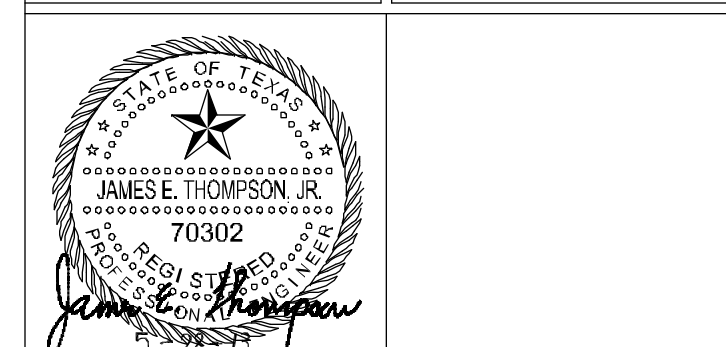
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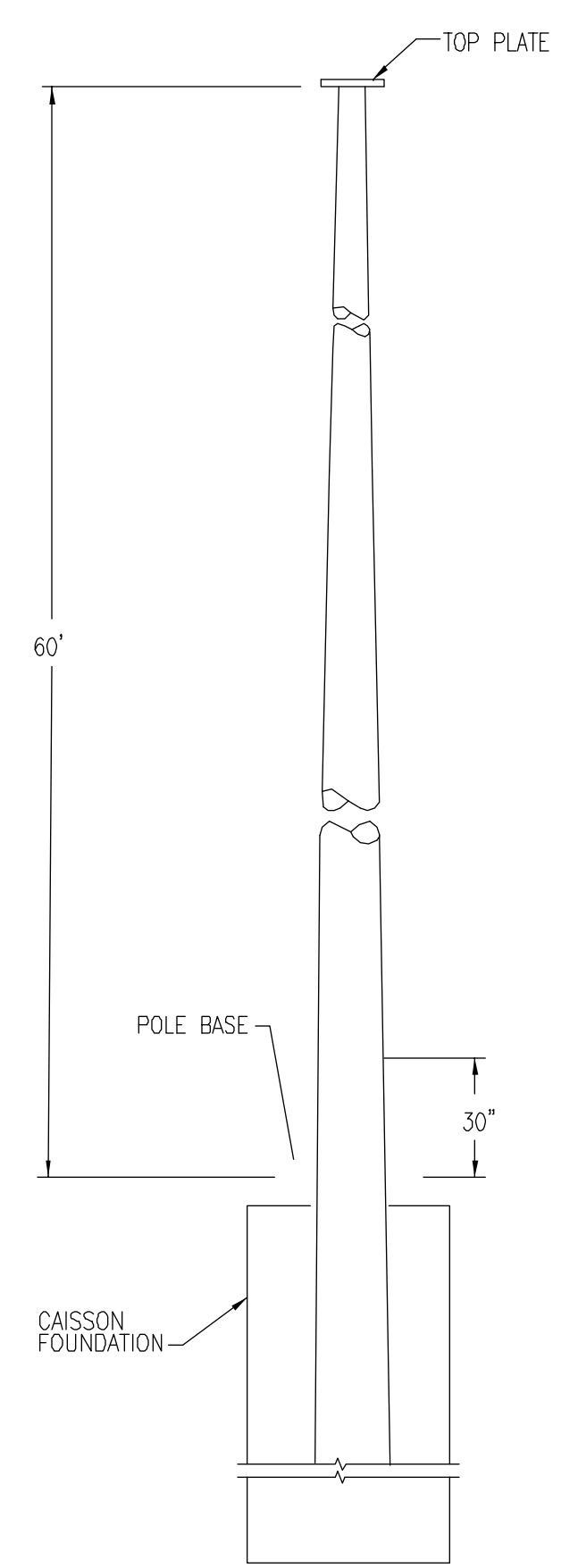
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NEW CONSTRUCTION
5/12/2013 ADDENDUM #1
5/28/2013 ADDENDUM #3 & PERMIT REVISIONS

ELECTRICAL DETAILS I

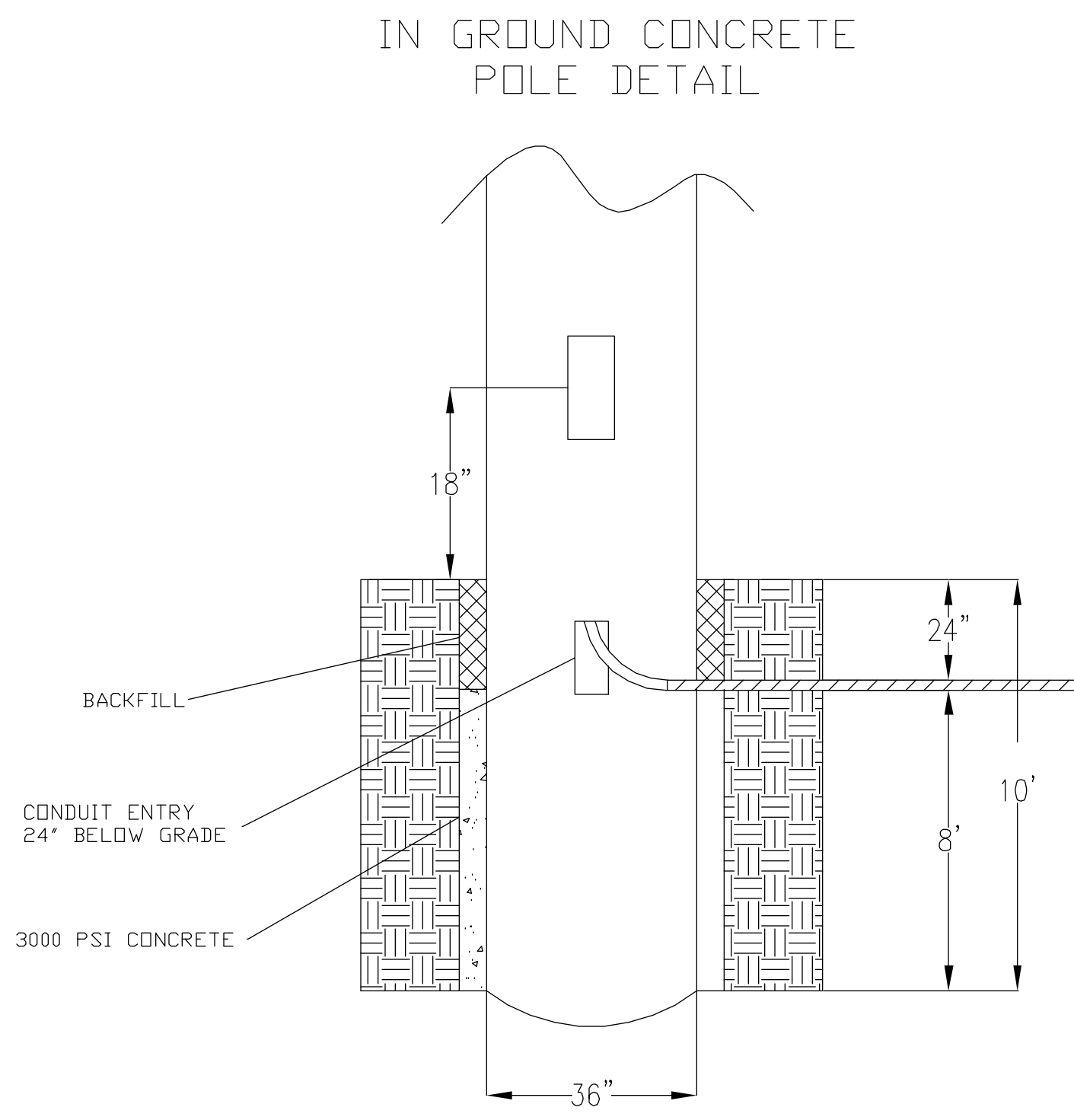
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1 HIGH MAST LIGHT POLE
NTS

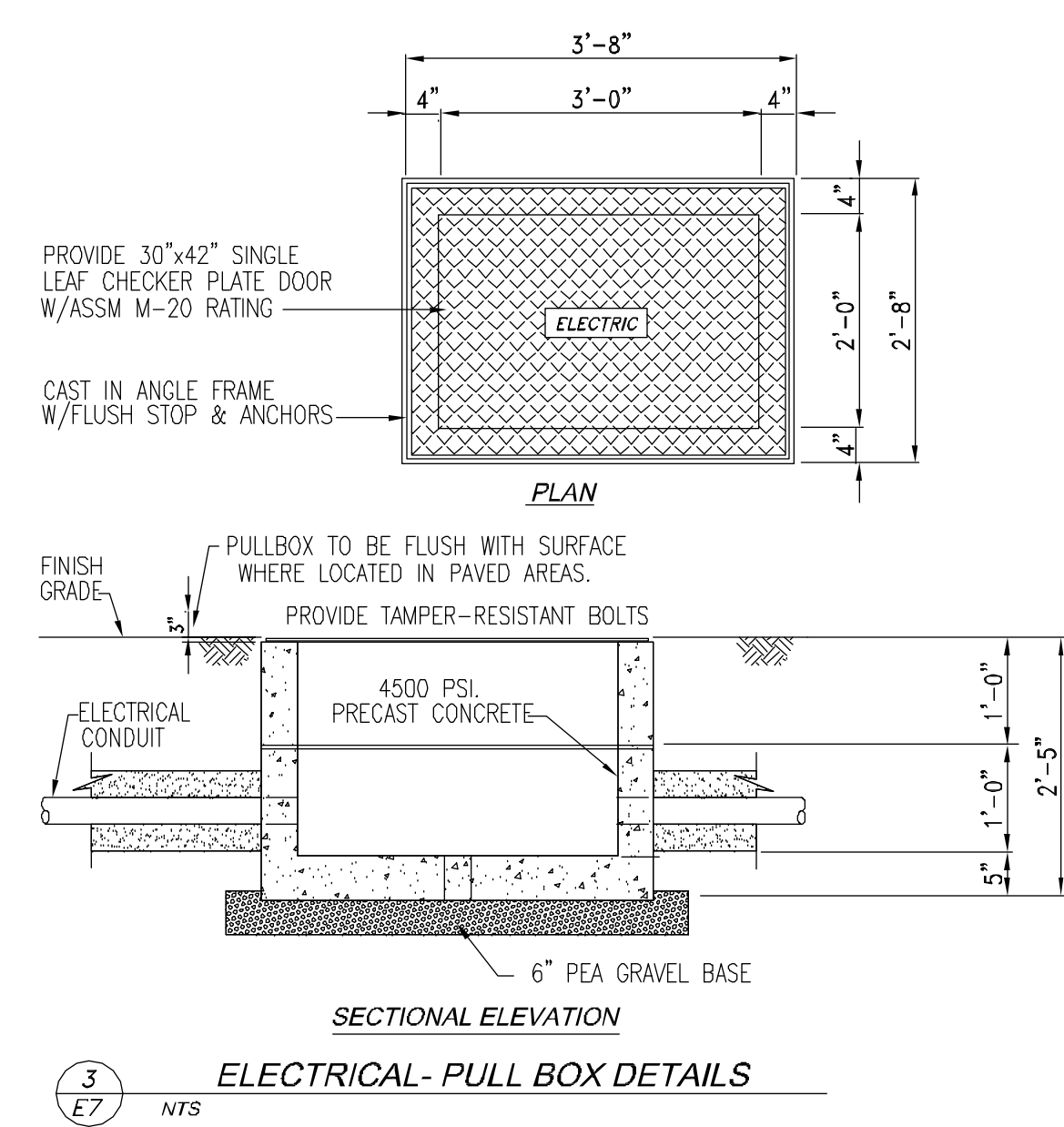
DETAIL SHOWN FOR "TYPICAL HIGH MAST" POLES ONLY, AND IS SHOWN ONLY FOR ESTIMATING AND PRICING PURPOSES. COORDINATE POLE WITH LIGHTING FIXTURE MANUFACTURER.



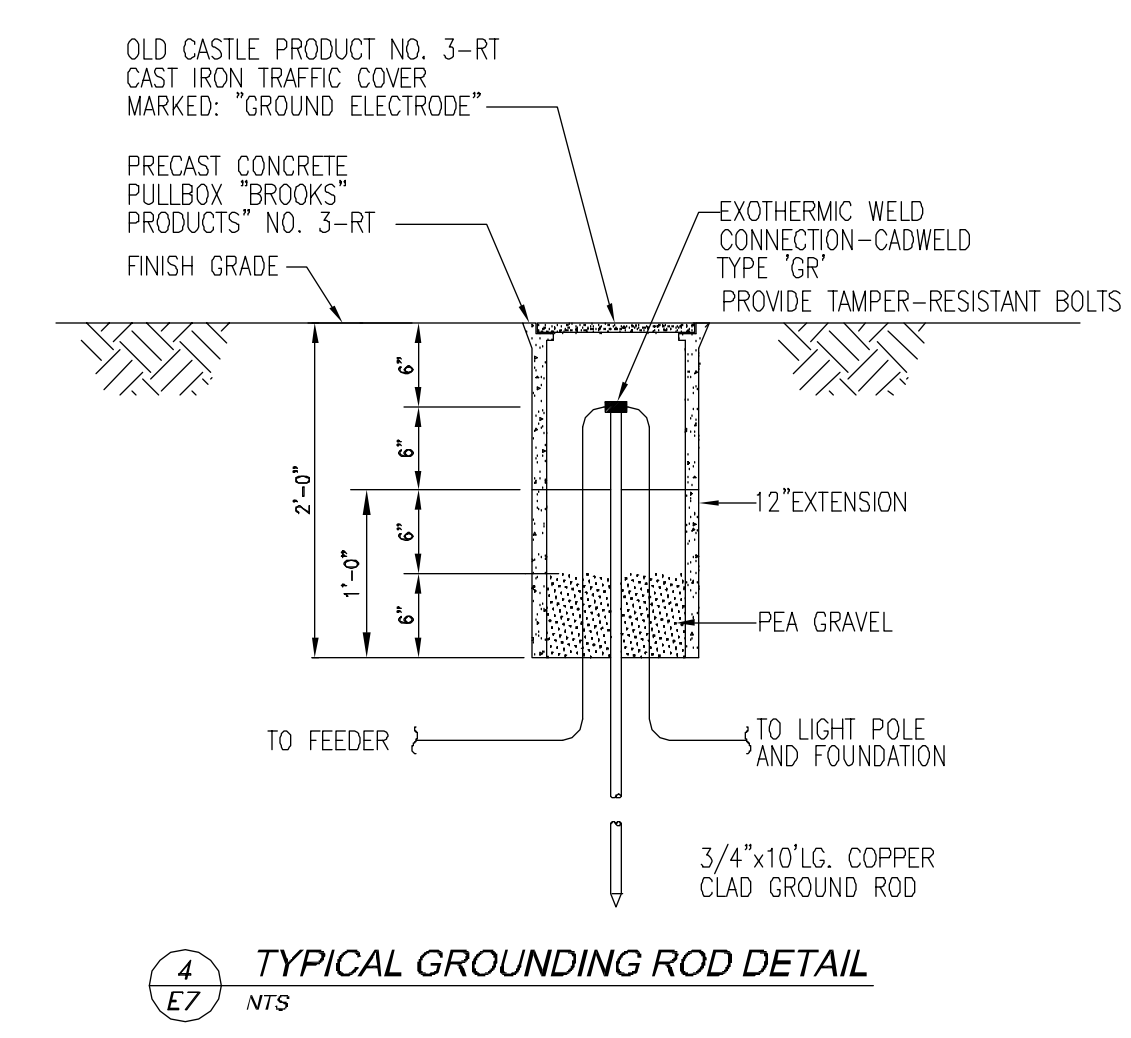
2 IN GROUND CONCRETE POLE DETAIL
NTS

2 ELECTRICAL - PULL BOX DETAILS
NTS

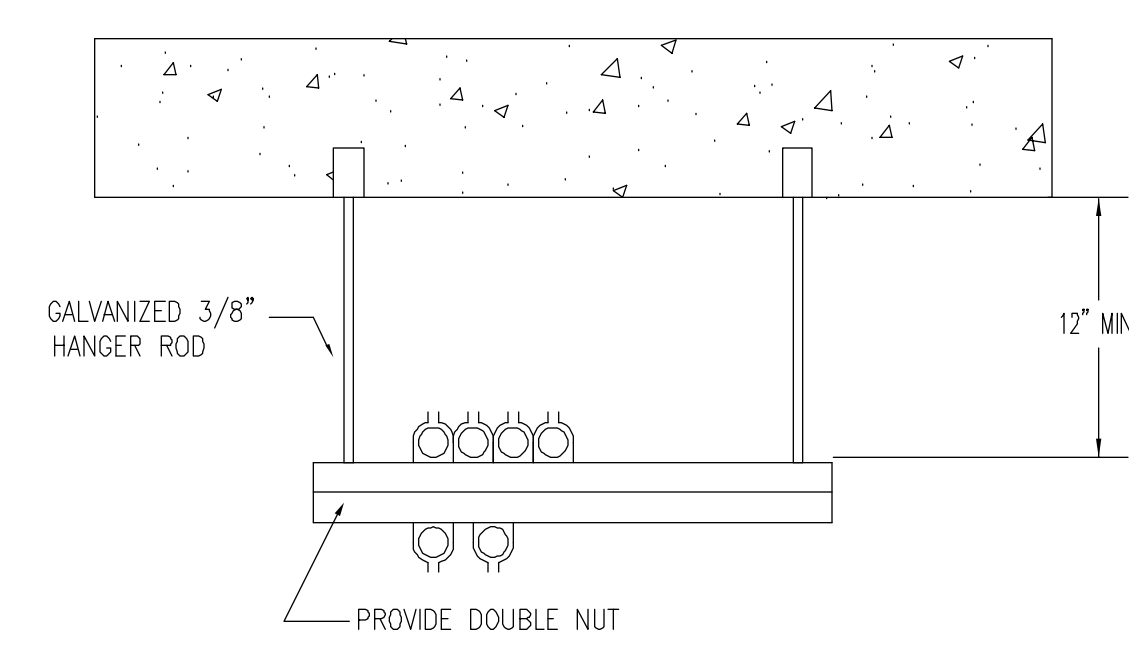
FOUNDATION DRAWING SHOWN AS TYPICAL INSTALLATION. BURIAL DEPTH AND WIDTH OF FOUNDATION WILL VARY ACCORDING TO RECOMMENDATIONS BY A LICENSED STRUCTURAL ENGINEER AND BY POLE MANUFACTURER.



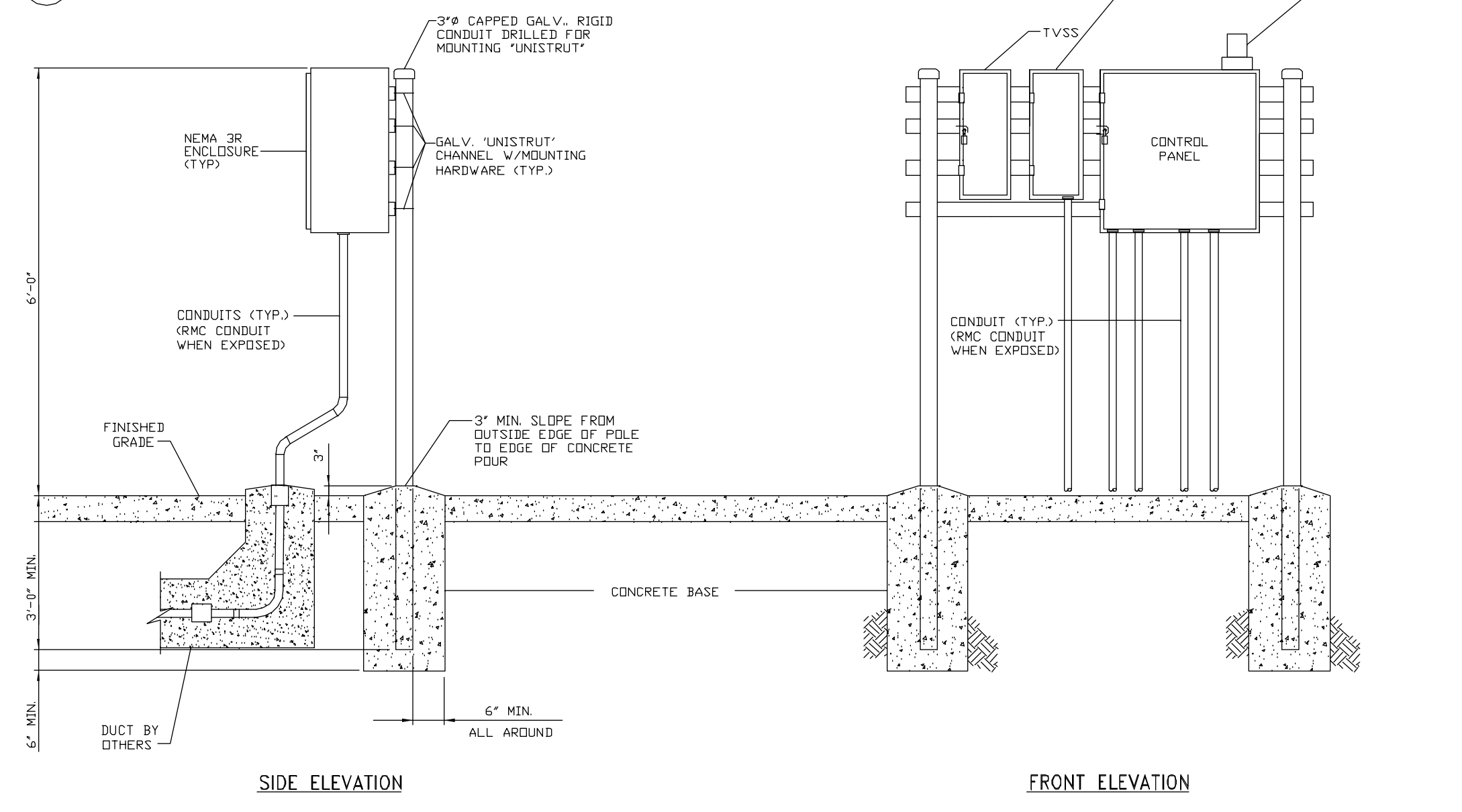
3 ELECTRICAL - PULL BOX DETAILS
NTS



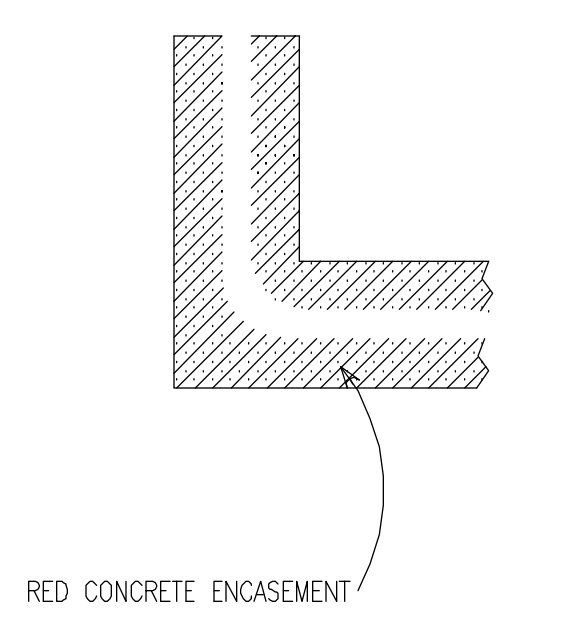
4 TYPICAL GROUNDING ROD DETAIL
NTS



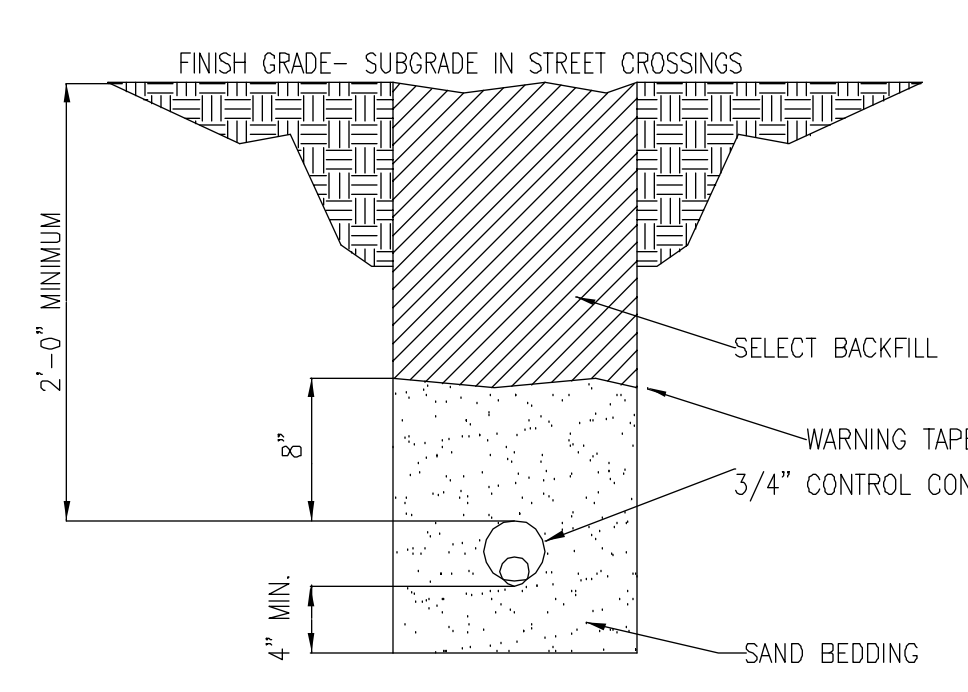
5 CONDUIT SUPPORT IN BLDG
NTS



6 RACK SUPPORT REQUIREMENTS
NTS

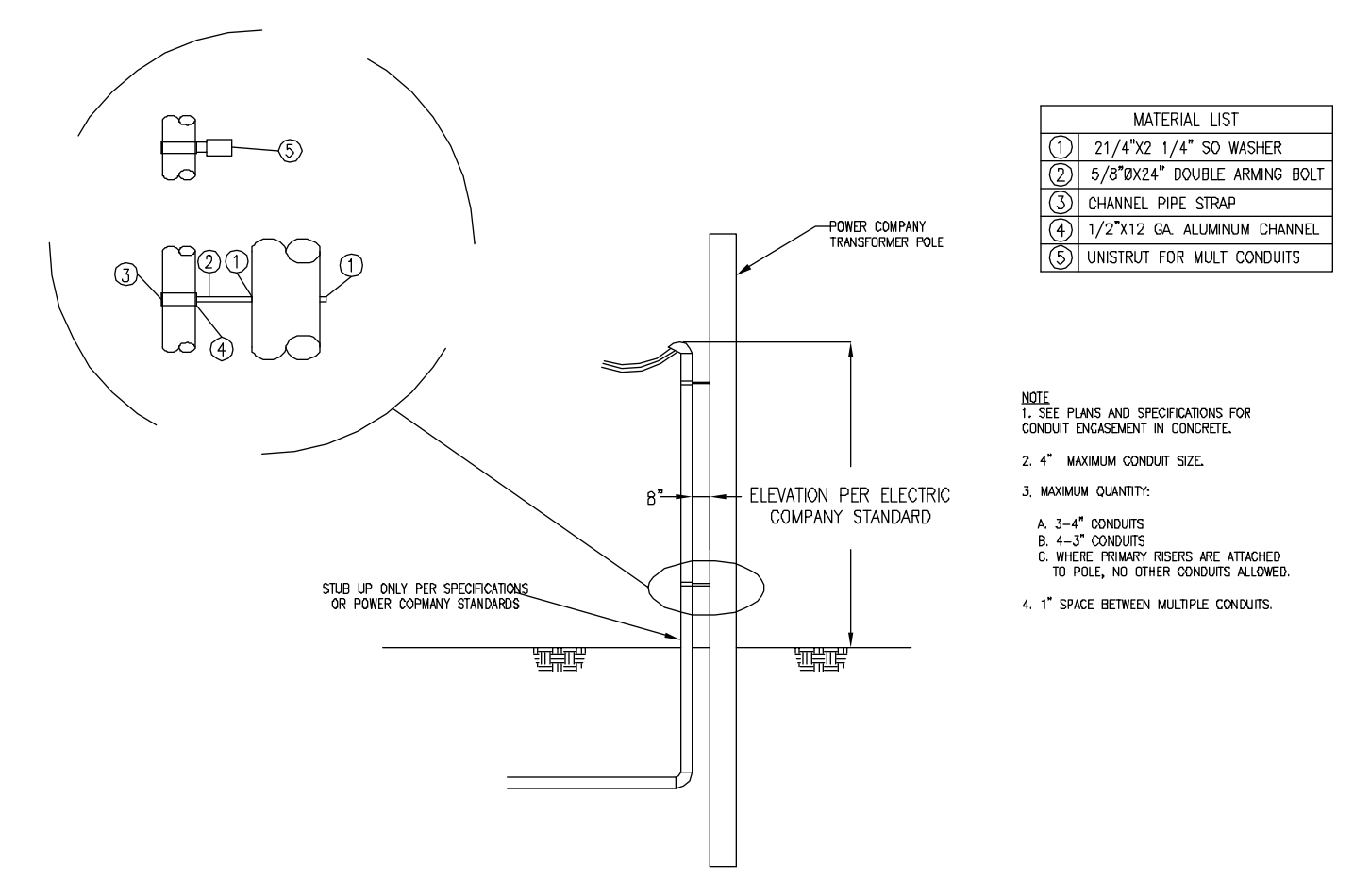


6 RED CONCRETE REQUIREMENTS
NTS



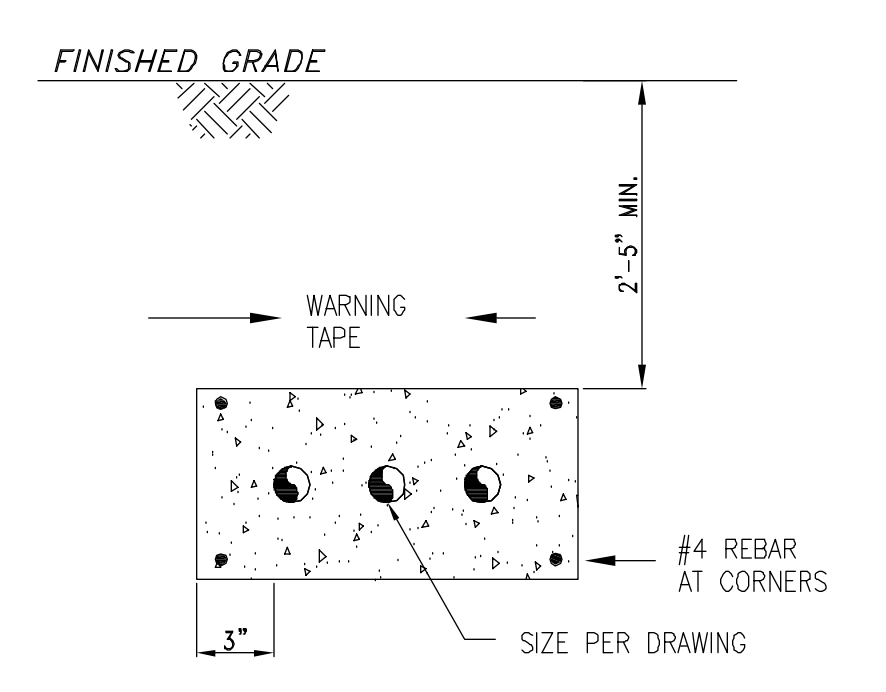
7 CONTROL WIRING UNDERGROUND
NTS

NOTE
1. PROVIDE 6" CONCRETE CAP OVER CONDUIT WHERE IT CROSSES OVER OTHER UTILITY LINES. EXTEND CONCRETE 4"-6" EITHER SIDE OF CROSSOVER POINT.
2. ALL UNDERGROUND ITEMS TO HAVE "DETECTABLE" HAZARD WARNING TAPE INSTALLED AS SHOWN ABOVE.



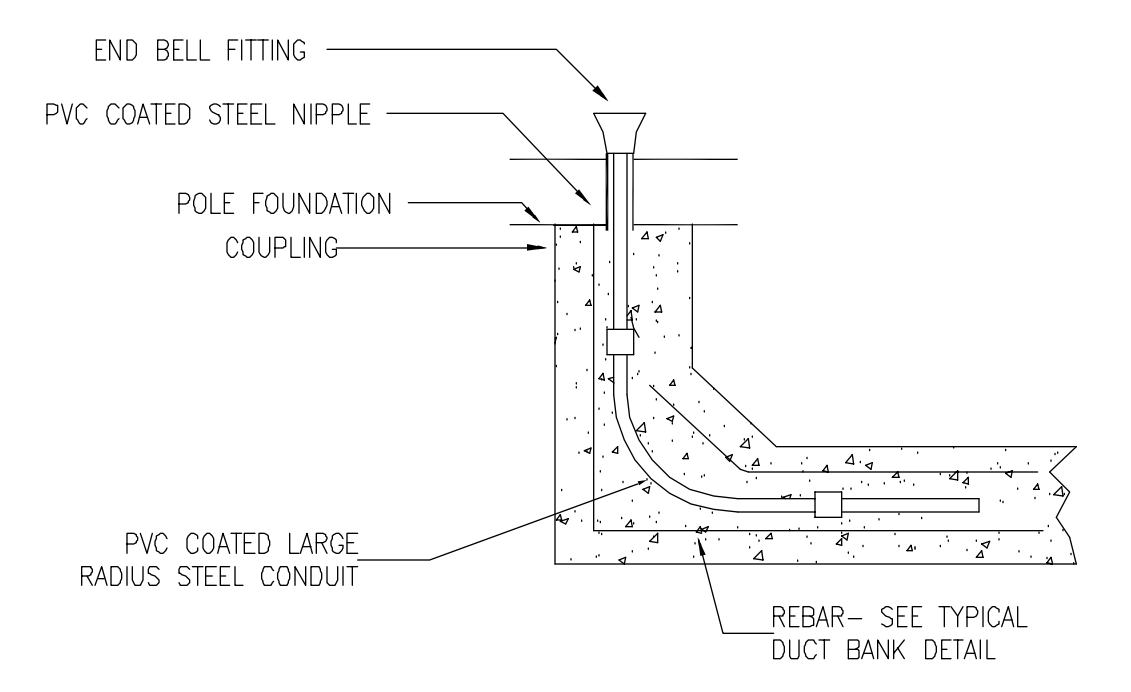
8 SERVICE POLE DETAIL
NTS

NOTE
TEXAS NEW MEXICO REQUIRES ONLY STUB UPS PER THE ABOVE DETAIL. THESE STUB UPS SHALL BE TERMINATED IN A SWEEPING SCHEDULE 80 PVC 90 DEGREE TURNUP RADIUS FROM A SCHEDULE 40 PVC UNDERGROUND RUN A MINIMUM OF 36 IN. BELOW GRADE. CONDUITS FROM SERVICE POLE TO SERVICE RACK DO NOT HAVE TO BE IN CONCRETE, BUT IN TRENCH FILLED WITH SELECT BACKFILL, EXCEPT WHERE THERE IS TO BE VEHICULAR TRAFFIC. SEE DETAILS. COORDINATE ALL REQUIREMENTS WITH TMN POWER CONSULTANT.



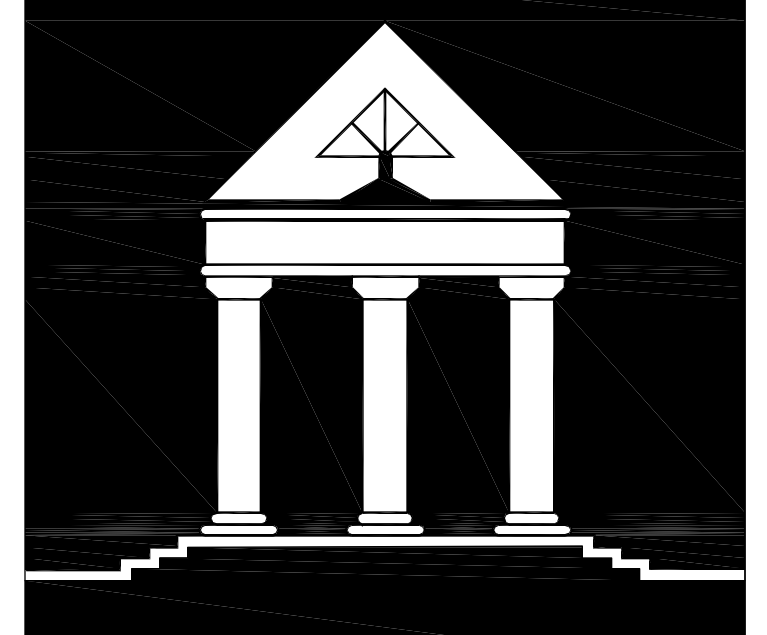
10 TYPICAL UNDERGROUND DUCT BANK DETAIL
NTS

ALL UNDERGROUND ITEMS TO HAVE "DETECTABLE" HAZARD WARNING TAPE INSTALLED AS SHOWN ABOVE.



11 CONDUIT STUB UP DETAIL
NTS

ELECTRICAL DETAILS
SCALE AS NOTED



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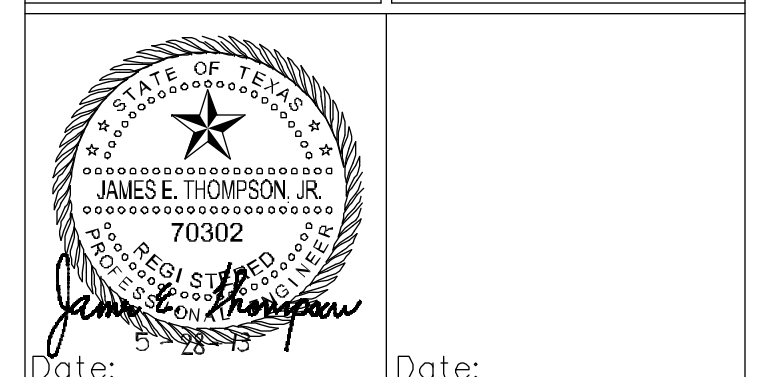


Table with construction schedule: NEW CONSTRUCTION, 5/12/2013, ADDENDUM #1, 5/28/2013, ADDENDUM #3 & PERMIT REVISIONS

ELECTRICAL SCHEDULES

E-5.0 DATE: DRAWN BY: CHECKED BY:

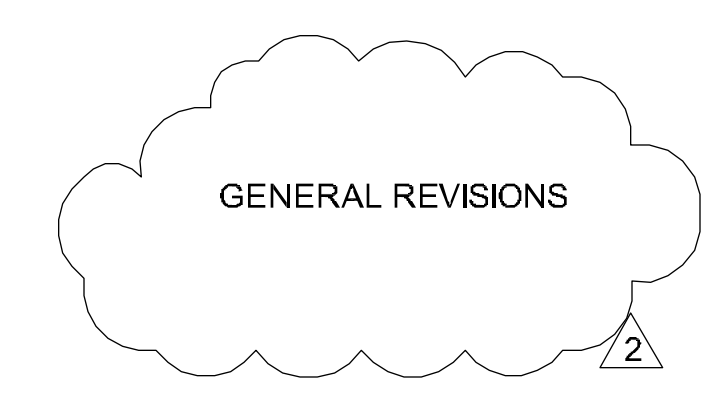
ELECTRICAL LOAD ANALYSIS
HCC SOUTH
SERVICE VOLTAGE: 480/277V, 3 PHASE, 4 WIRE
OCCUPANCY: ATHLETIC FIELDS

LOAD DESCRIPTION	DIV. %	DESIGN LOAD KVA	REMARK
1. LIGHTS (a)	0	125%	0 Code loads larger than connected
2 RECEPTACLES, 1	.2	.2	First 10KVA + 50% Remaining NEC Article 220-13
8 OUTSIDE LIGHTING			
SOFTBALL	36.9	125%	46.1
TENNIS	24.6	125%	30.8
DRIVE RANGE	24.6	125%	30.8
PARK LOT	2.7	125%	3.4
FOOTBALL	49.2	125%	61.5
CONCESSION STAND	36.0	125%	45.0
TOTAL			217.6
11 25% LARGEST MOTOR 25% X AMP X0.240 X1.732 0			0
SUBTOTAL		217.6	272.0 AMP
PROPOSED SERVICE CAPACITY AT 480/277V Provide service feeder from Power Company. Ampacity of service feeder:		320 KVA 3"C., 4-500 KCMIL(CU)	400 AMP 400 AMP
SPARE CAPACITY AVAILABLE PERCENT SPARE CAPACITY AVAILABLE		48.0 KVA 15.0 %	



5 SPLICES
E5 NTS

- NOTES:
- 1. PROVIDE 3-M CO. B2 BF-1 TAP SPLICE KIT FOR ALL POLE SPLICES, INCLUDING GROUNDING CONDUCTORS. NO WIRE NUTS ARE PERMITTED.
 - 2. SPLICES ARE EXPRESSLY NOT PERMITTED EXCEPT AS DIRECTED BY THE ENGINEER.



PANEL "L" (NEW)
CU BUS
22 KAIC

NO.	DESCRIPTION	LOAD	WIRE	OCF	NO.	DESCRIPTION	LOAD	WIRE	OCF
1	DUPLEX GFCI	180	12	20	2	LTG CONTROLLER	1000	12	20
3	SPACE	-	-	-	4	SPACE	-	-	-
5	SPACE	-	-	-	6	SPACE	-	-	-
7	SPACE	-	-	-	8	SPACE	-	-	-
9	SPACE	-	-	-	10	SPACE	-	-	-
11	SPACE	-	-	-	12	SPACE	-	-	-

180 1000
AMPACITY REQ'D=1180/240/1.732 X 1.25= 3.5 AMPS

FOOTBALL F1-F4 - PER POLE PHASE LOAD

LIGHT NO.	DESCRIPTION	PH A	PH B	PH C	REMARKS
1	1500 WATT MH	3.7 AMPS	3.7 AMPS		-
2	1500 WATT MH		3.7 AMPS	3.7 AMPS	-
3	1500 WATT MH	3.7 AMPS		3.7 AMPS	-
4	1500 WATT MH		3.7 AMPS		-
5	1500 WATT MH			3.7 AMPS	-
TOTAL		11.1 AMPS	14.8 AMPS	11.1 AMPS	@ 480 VOLTS

TENNIS T1-T4 - PER POLE PHASE LOAD

LIGHT NO.	DESCRIPTION	PH A	PH B	PH C	REMARKS
1	1500 WATT MH	3.7 AMPS			-
2	1500 WATT MH		3.7 AMPS		-
TOTAL		3.7 AMPS	7.4 AMPS	3.7 AMPS	@ 480 VOLTS

SOFTBALL A1-A2 - PER POLE PHASE LOAD

LIGHT NO.	DESCRIPTION	PH A	PH B	PH C	REMARKS
1	1500 WATT MH	3.7 AMPS			-
2	1500 WATT MH		3.7 AMPS		-
3	1500 WATT MH	3.7 AMPS			-
TOTAL		7.4 AMPS	7.4 AMPS	7.4 AMPS	@ 480 VOLTS

SOFTBALL B1-B2 - PER POLE PHASE LOAD

LIGHT NO.	DESCRIPTION	PH A	PH B	PH C	REMARKS
1	1500 WATT MH	3.7 AMPS			-
2	1500 WATT MH		3.7 AMPS		-
3	1500 WATT MH	3.7 AMPS			-
4	1500 WATT MH		3.7 AMPS		-
5	1500 WATT MH			3.7 AMPS	-
TOTAL		11.1 AMPS	14.8 AMPS	11.1 AMPS	@ 480 VOLTS

DRIVING RANGE P1 - PER POLE PHASE LOAD

LIGHT NO.	DESCRIPTION	PH A	PH B	PH C	REMARKS
1	1500 WATT MH	3.7 AMPS			-
2	1500 WATT MH		3.7 AMPS		-
3	1500 WATT MH	3.7 AMPS			-
4	1500 WATT MH		3.7 AMPS		-
5	1500 WATT MH			3.7 AMPS	-
TOTAL		11.1 AMPS	14.8 AMPS	11.1 AMPS	@ 480 VOLTS

DRIVING RANGE P2 - PER POLE PHASE LOAD

LIGHT NO.	DESCRIPTION	PH A	PH B	PH C	REMARKS
1	1500 WATT MH	3.7 AMPS			-
2	1500 WATT MH		3.7 AMPS		-
3	1500 WATT MH	3.7 AMPS			-
4	1500 WATT MH		3.7 AMPS		-
5	1500 WATT MH			3.7 AMPS	-
6	1500 WATT MH	3.7 AMPS			-
7	1500 WATT MH		3.7 AMPS		-
TOTAL		18.5 AMPS	18.5 AMPS	14.8 AMPS	@ 480 VOLTS

2 LIGHT POLE PHASE LOAD CALCULATIONS
E5 NTS

PANEL "A" (NEW)
CU BUS
25 KAIC

NO.	DESCRIPTION	LOAD	WIRE	OCF	NO.	DESCRIPTION	LOAD	WIRE	OCF
1	F1 <FOOTBALL>	12304	10	30	2	A1 <SOFTBALL>	6152	10	30
3	-	-	10	3P	4	-	-	10	3P
5	-	-	10	-	6	-	-	10	-
7	F2 <FOOTBALL>	12304	10	30	8	A2 <SOFTBALL>	6152	10	30
9	-	-	10	3P	10	-	-	10	3P
11	-	-	10	-	12	-	-	10	-
13	F3 <FOOTBALL>	12304	10	30	14	B1 <SOFTBALL>	6152	10	30
15	-	-	10	3P	16	-	-	10	3P
17	-	-	10	-	18	-	-	10	-
19	F4 <FOOTBALL>	12304	10	30	20	B2 <SOFTBALL>	6152	10	30
21	-	-	10	3P	22	-	-	10	3P
23	-	-	10	-	24	-	-	10	-
25					26				
27					28				
29					30				
31					32				
33					34				
35					36				
37					38				
39					40				
41					42				

49216 24608
AMPACITY REQ'D=73824/480/1.732 X 1.25= 111.0 AMPS

PANEL "B" (NEW)
CU BUS
25 KAIC

NO.	DESCRIPTION	LOAD	WIRE	OCF	NO.	DESCRIPTION	LOAD	WIRE	OCF
1	T1 <TENNIS>	6152	10	30	2	P1 (DRIVING RANGE)	12304	10	30
3	-	-	10	3P	4	-	-	10	3P
5	-	-	10	-	6	-	-	10	-
7	T2 <TENNIS>	6152	10	30	8	P2 (DRIVING RANGE)	12304	10	30
9	-	-	10	3P	10	-	-	10	3P
11	-	-	10	-	12	-	-	10	-
13	T3 <TENNIS>	6152	10	30	14	PARKING LOT	2700	10	30
15	-	-	10	3P	16	-	-	10	3P
17	-	-	10	-	18	-	-	10	-
19	T4 <TENNIS>	6152	10	30	20				
21	-	-	10	3P	22				
23	-	-	10	-	24				
25	30 KVA	30000	8	50	26				
27	-	-	8	3P	28				
29	-	-	8	-	30				
31					32				
33					34				
35					36				
37					38				
39					40				
41					42				

54608 27308
AMPACITY REQ'D=81916/480/1.732 X 1.25= 123.2 AMPS

ELECTRICAL SCHEDULES
NO SCALE

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TSPS Firm Registration No. F1386
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SOCCKER FIELD LIGHTING NOTES

1. POLES TO BE CONCRETE, SQUARE, DIRECT STAB, AND BE SUITABLE FOR 60 FT. MOUNTING HEIGHT FOR SPORTS LIGHTS. POLES TO BE PRE-DRILLED AT FACTORY FOR ALL REQUIRED OPENINGS. NO LOCAL FABRICATION IS TO BE CARRIED OUT.

2. LIGHTS AND FIXTURES TO BE MUSCO, LIGHT STRUCTURE GREEN, NO SUBSTITUTION. PROPOSED SUBSTITUTIONS TO BE APPROVED BY THE ENGINEER PRIOR TO BID. ALL PROPOSALS FOR SUBSTITUTION SHALL BE ACCOMPANIED BY A CERTIFIED POINT-BY-POINT SCALED DRAWING INDICATING THE LIGHTING DISTRIBUTION OF THE PROPOSED SUBSTITUTE FIXTURE.

3. AS PART OF ALL BID DOCUMENTS, A POINT-BY-POINT SCALED DRAWING SHALL BE FURNISHED INDICATING THAT THE LIGHTING LAYOUT MEETS THE PRESCRIBED SPECIFICATIONS.

4. THE DRAWING ACCOMPANYING THE BID DOCUMENTS SHALL BE 24"X36" AND SHALL HAVE THE FOLLOWING INFORMATION: INITIAL FOOTCANDLES, MAINTAINED FOOTCANDLES (@70% RATED LIFE), AND END OF LIFE FOOTCANDLE LEVELS. ALSO INCLUDED SHALL BE MAX TO MIN AND AVERAGE TO MIN VALUES. ADDITIONALLY, UNIFORMITY RATIOS MEETING SPECIFIED REQUIREMENTS SHALL ALSO BE PROVIDED.

5. POLES AND LAMP COMBINATIONS BEING PROPOSED SHALL BE SUITABLE FOR THE EPA REQUIREMENTS SPECIFIED FOR ALVIN, TEXAS.

6. PROVIDE WITH BID DOCUMENTS A RECOMMENDED SPARE PARTS LIST FOR ALL EQUIPMENT AND ASSOCIATED LIGHTING, FIXTURES, LAMPS, AND ASSEMBLIES, AND PROVIDE AS AN ALTERNATE BID, A PRICE FOR THE SPARE PARTS RECOMMENDED.

7. CONTRACTOR SHALL PROVIDE A STATEMENT FROM THE MANUFACTURER IN WRITING IN THE BID DOCUMENTS THAT SPARE PARTS WILL BE AVAILABLE FOR A MINIMUM OF (5) FIVE YEARS AFTER COMPLETION OF INSTALLATION.

8. CONTRACTOR TO PROVIDE PROOF OF PHOTOMETRIC COMPLIANCE OF THE SYSTEM WITH THE PHOTOMETRIC DRAWINGS PROVIDED IN THE BID DOCUMENTS. CONTRACTOR SHALL PROVIDE A CERTIFIED TEST REPORT FOR EACH SOCCER FIELD SHOWING ACTUAL PHOTOMETRIC DATA OBTAINED. REPORT SHALL BE PREPARED AND CERTIFIED BY AN INDEPENDENT AGENCY ACCEPTABLE TO THE CITY OF HOUSTON.

9. CONTRACTOR SHALL PROVIDE OWNER'S MANUAL, TECHNICAL MANUALS, AND OPERATOR'S MANUAL FOR EACH MAJOR ASSEMBLY AND SUB-ASSEMBLY. THREE (3) COMPLETE SETS TO BE PROVIDED.

10. MANUALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL ALONG WITH OTHER SUBMITTAL DOCUMENTS.

11. CONTRACTOR SHALL PROVIDE A TRAINING SESSION FOR UP TO SIX (6) CITY OF HOUSTON PERSONNEL (TO BE SELECTED BY CITY OF HOUSTON) IN OPERATION, MAINTENANCE, AND TROUBLE-SHOOTING OF THE LIGHTING EQUIPMENT. IF REMOTE OPERATOR EQUIPMENT IS INSTALLED, THE TRAINING SHALL ENCOMPASS THE REMOTE EQUIPMENT ALSO.

12. TRAINER SHALL BE A FACTORY TRAINED PERONS ACCEPTABLE TO TH CITY OF HOUSTON.

SOCCKER FIELD LIGHTING CONTROLLER

1. PROVIDE AND INSTALL A REMOTELY OPERATED CONTROLLER SIMILAR TO MUSCO CONTROL-LINK MODEL LIGHTING EQUIPMENT.

2. EQUIPMENT IS TO BE RACK MOUNTED ADJACENT TO THE ELECTRICAL CONTACTORS AND BE CONNECTED TO THE SOCCER FIELD LIGHTING CONTACTORS VIA CONTACTOR COILS. AUXILIARY CONTACTS ARE TO BE PROVIDED AS REQUIRED.

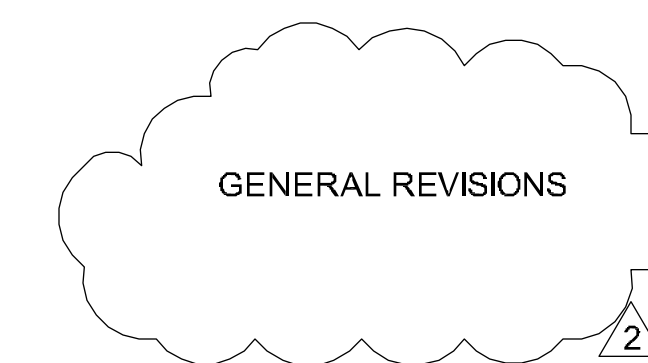
3. THE REMOTE EQUIPMENT SHALL BE CAPABLE OF BEING PROGRAMMED TO OPERATE VIA CELL PHONE OR BY INTERNET, AND THE SOFTWARE SHALL CONTAIN A PROVISION FOR BILLING UP TO 100 INDEPENDENT ACCOUNT NUMBERS.

4. TRAINING SHALL BE PROVIDED FOR THE REMOTE EQUIPMENT FOR UP TO SIX (6) INDIVIDUALS TO BE SELECTED BY THE CITY OF HOUSTON.

CONDUIT/CONDUCTOR SCHEDULE								
NO.	CIRCUIT/POLE	VOLTS	DISTANCE (FT)	WIRE / CONDUIT (AL)	USE	NO.	WATTS	POLE
1	T1	<480V>	530	1°C, 3#8 1#12G	TENNIS LTS	4	6152	40
2	T2	<480V>	608	1°C, 3#8 1#12G	TENNIS LTS	2	6152	40
3	T3	<480V>	418	1°C, 3#8 1#12G	TENNIS LTS	8	6152	40
4	T4	<480V>	496	1°C, 3#8 1#12G	TENNIS LTS	2	6152	40
5	F1	<480V>	852	2 1/2°C 3-250KCMIL, 1-#3/0G	FOOTBALL LTS	12	12304	60
6	F2	<480V>	1040	1 1/4°C 3#2, 1#3G	FOOTBALL LTS	12	12304	60
7	F3	<480V>	1156	2°C 3#3/0, 1#2/0G	FOOTBALL LTS	12	12304	60
8	F4	<120V>	1308	1 1/2°C 3#1, 1#3G	FOOTBALL LTS	12	12304	60
9	A1	<480V>	769	1°C 3#8, 1#10G	SOFTBALL LTS	3	9228	60
10	A2	<480V>	647	1°C 3#8, 1#10G	SOFTBALL LTS	3	9228	60
11	B1	<480V>	920	1°C 3#4, 1#6G	SOFTBALL LTS	6	12304	60
12	B2	<480V>	767	1°C 3#6, 1#8G	SOFTBALL LTS	6	12304	60
13	P1	<480V>	370	1°C 3#4, 1#6G	DRIVING RANGE LTS	5	12304	60
14	P2	<480V>	494	1°C 3#4, 1#6G	DRIVING RANGE LTS	7	12304	60
15	P3	<480V>	370	1°C 3#8, 1#10G	CHIPPING GREEN LTS	1	6152	60
16	P4	<480V>	370	1°C 3#8, 1#10G	PUTTING GREEN LTS	1	6152	60
17	P5 (ALT)	<480V>	670	1°C 3#2, 1#4G	DRIVING RANGE LTS	3	5940	60
18	P6 (ALT)	<480V>	794	1°C 3#2, 1#4G	DRIVING RANGE LTS	3	5940	60
19	L1	<480V>	407	1°C 3#8, 1#10G	PARKING LOT LTS	3	1320	-
20	L2	<480V>	267	1°C 3#8, 1#10G	PARKING LOT LTS	6	2640	-
21	L3	<480V>	150	1°C 3#8, 1#10G	PARKING LOT LTS	9	3960	-
22	L4	<480V>	218	1°C 3#8, 1#10G	PARKING LOT LTS	10	4400	-
23	L5	<480V>	61	1°C 3#8, 1#10G	PARKING LOT LTS	11	4840	-
24	W1	<480V>	491	1°C 3#8, 1#10G	AREA LTS	1	1650	-
25	W2	<480V>	571	1°C 3#8, 1#10G	AREA LTS	1	1375	-
26	W3	<480V>	654	1°C 3#8, 1#10G	AREA LTS	1	1100	-
27	W4	<480V>	556	1°C 3#8, 1#10G	AREA LTS	1	825	-
28	W5	<480V>	660	1°C 3#8, 1#10G	AREA LTS	1	550	-
29	W6	<480V>	714	1°C 3#8, 1#10G	AREA LTS	1	275	-
30	S1	<480V>	370	1°C -	SPARE FOUNT CKT		-	-
31	S2	<480V>	494	1°C -	SPARE FOUNT CKT		-	-
32	C5	<240V>	591	6°C 3-1000 KCMIL, 1-800 KCMIL G	CONCESSION STAND	1	36000	-

LIGHTING FIXTURE SCHEDULE

USE	MARK	MAKE/MODEL
PARKING LOT	L1-L5	HOLOPHANE, POLESTAR II, TYVEC, (PT-50827), 480V, 400W, ENCLOSED, BLACK, PULSE START, 30' RTS POLE.
AREA	W1-W6	HOLOPHANE, GRASWERKS, 408V, 250W, MH, ENCLOSED, BLACK, 16' DECORATIVE POLE, PROVIDE HCC STANDARD POLE AND FIXTURE ASSEMBLY. (COORDINATE WITH HCC).
SPORTS LIGHTING	ALL	MUSCO LIGHT STRUCTURE GREEN



ELECTRICAL NOTES
NO SCALE



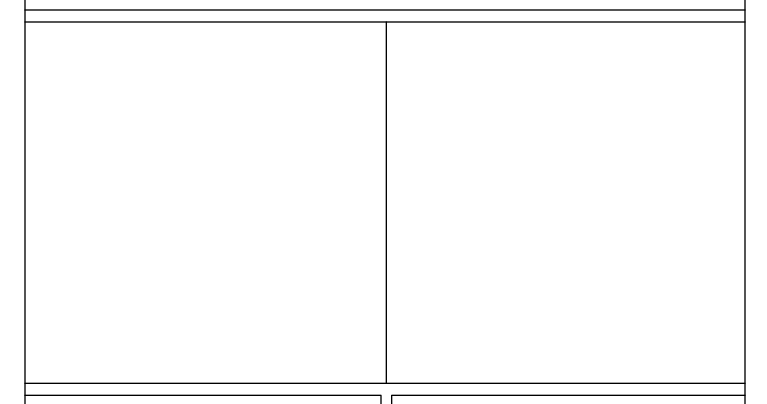
ARCHI*TECHNICS/3, INC.

ARCHITECTURE
URBAN DESIGN
INTERIORS
CONSTRUCTION MANAGEMENT

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- Landscape Architecture•
- Land Planning•
- Urban Design•



**RECREATIONAL COMPLEX
HCC SOUTH CAMPUS**

**1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051**

Professional Engineer Seal for James E. Thompson, State of Texas, License No. 70302. Includes a signature and the date field.

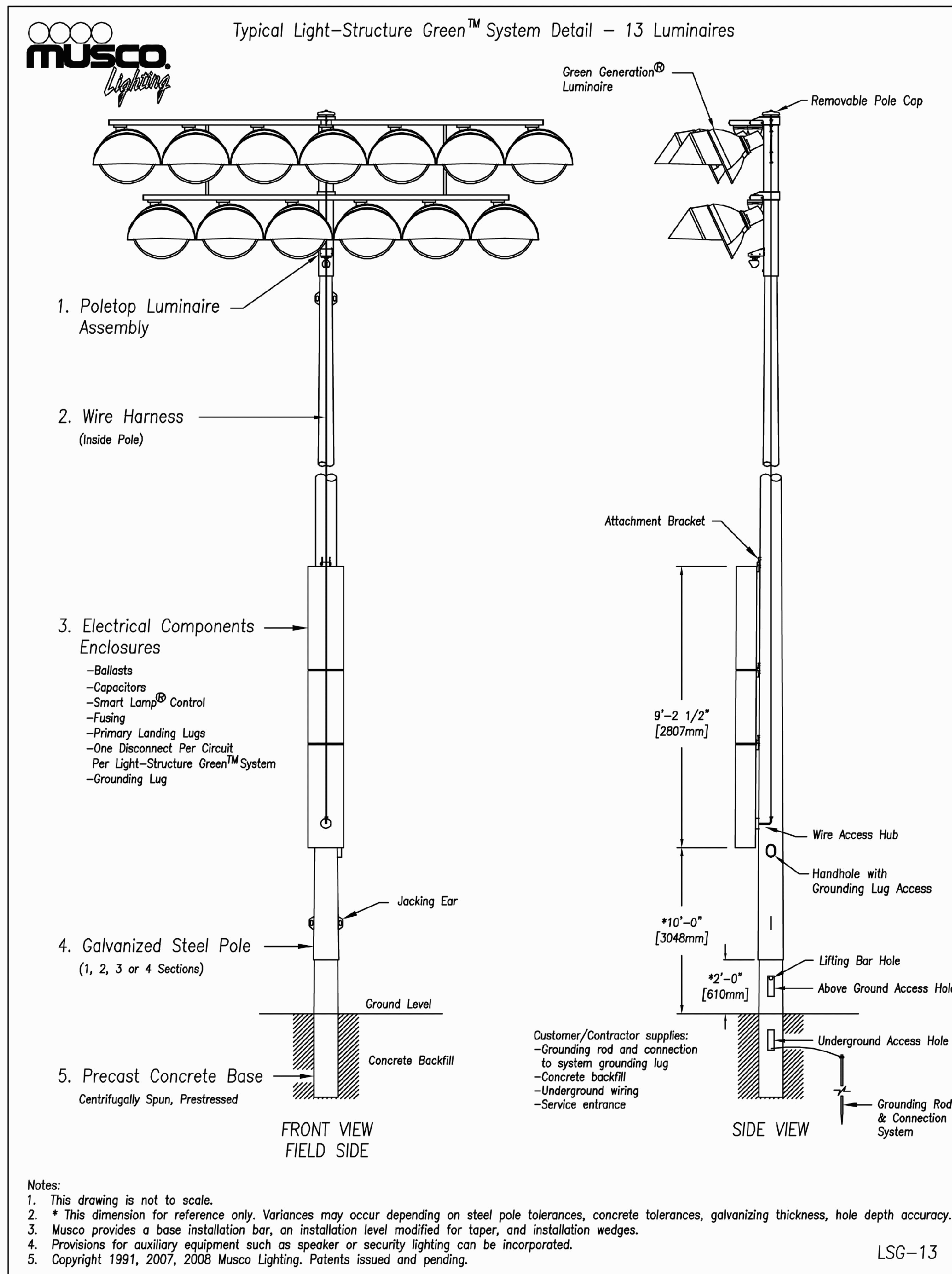
NEW CONSTRUCTION	ADDENDUM #1
5/1/2013	ADDENDUM #3 & PERMIT REVISIONS
5/28/2013	

ELECTRICAL NOTES

E-6.0

DATE:
DRAWN BY:
CHECKED BY:

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James E. Thompson & Associates
MEP Consulting Engineers
1189 County Road 136A
Alvin, Texas 77511
Business: (281) 565-3729 Fax: (281) 824-4664
TSPS Firm Registration No. F1386
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FOOTBALL FIELD, SOFTBALL FIELD,
DRIVING RANGE, TENNIS COURT
LIGHTING NOTES

1. POLES TO BE GALVANIZED STEEL, SQUARE, DIRECT STAB, AND BE SUITABLE FOR 30 FT. MOUNTING HEIGHT FOR SPORTS LIGHTS. POLES TO BE PRE-DRILLED AT FACTORY FOR ALL REQUIRED OPENINGS. NO LOCAL FABRICATION IS TO BE CARRIED OUT.

2. LIGHTS AND FIXTURES TO BE MUSCO, OR APPROVED EQUAL. PROPOSED SUBSTITUTIONS TO BE APPROVED BY THE ENGINEER PRIOR TO BID. ALL PROPOSALS FOR SUBSTITUTION SHALL BE ACCOMPANIED BY A CERTIFIED POINT-BY-POINT SCALED DRAWING INDICATING THE LIGHTING DISTRIBUTION OF THE PROPOSED SUBSTITUTE FIXTURE.

3. AS PART OF ALL BID DOCUMENTS, A POINT-BY-POINT SCALED DRAWING SHALL BE FURNISHED INDICATING THAT THE LIGHTING LAYOUT MEETS THE PRESCRIBED SPECIFICATIONS.

4. THE DRAWING ACCOMPANYING THE BID DOCUMENTS SHALL BE 24"X36" AND SHALL HAVE THE FOLLOWING INFORMATION: INITIAL FOOTCANDLES, MAINTAINED FOOTCANDLES (@70% RATED LIFE), AND END OF LIFE FOOTCANDLE LEVELS. ALSO INCLUDED SHALL BE MAX TO MIN AND AVERAGE TO MIN VALUES. ADDITIONALLY, UNIFORMITY RATIOS MEETING SPECIFIED REQUIREMENTS SHALL ALSO BE PROVIDED.

5. POLES AND LAMP COMBINATIONS BEING PROPOSED SHALL BE SUITABLE FOR THE PAARD REQUIREMENTS SPECIFIED FOR HOUSTON, TEXAS.

6. PROVIDE WITH BID DOCUMENTS A RECOMMENDED SPARE PARTS LIST FOR ALL EQUIPMENT AND ASSOCIATED LIGHTING, FIXTURES, LAMPS, AND ASSEMBLIES, AND PROVIDE AS AN ALTERNATE BID, A PRICE FOR THE SPARE PARTS RECOMMENDED.

7. CONTRACTOR SHALL PROVIDE A STATEMENT FROM THE MANUFACTURER IN WRITING IN THE BID DOCUMENTS THAT SPARE PARTS WILL BE AVAILABLE FOR A MINIMUM OF (5) FIVE YEARS AFTER COMPLETION OF INSTALLATION.

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12. TRAINER SHALL BE A FACTORY TRAINED PERONS ACCEPTABLE TO TH CITY OF HOUSTON.

13. SUBMITTALS:

- A. RECOMMEND SPARE PARTS LIST PER ITEM #6.
- B. STATEMENT FROM MANUFACTURER PER ITEM #7.
- C. PROOF OF PHOTOMETRIC COMPLIANCE PER ITEM #8.
- D. OWNERS AND OPERATION MANUALS ITEMS #9 AND #10.
- E. NAME OF TRAINS AND QUALIFICATIONS STATEMENT PER #12.

LIGHTING CONTROLLER

1. PROVIDE AND INSTALL A REMOTELY OPERATED CONTROLLER SIMILAR TO MUSCO CONTROL-LINK MODEL LIGHTING EQUIPMENT.

2. EQUIPMENT IS TO BE RACK MOUNTED ADJACENT TO THE ELECTRICAL SWITCHES AND BE CONNECTED TO THE SOCCER FIELD LIGHTING CONTACTORS VIA CONTACTOR COILS. AUXILIARY CONTACTS ARE TO BE PROVIDED AS REQUIRED.

3. THE REMOTE EQUIPMENT SHALL BE CAPABLE OF BEING PROGRAMMED TO OPERATE VIA CELL PHONE OR BY INTERNET, AND THE SOFTWARE SHALL CONTAIN A PROVISION FOR BILLING UP TO 100 INDEPENDENT ACCOUNT NUMBERS.

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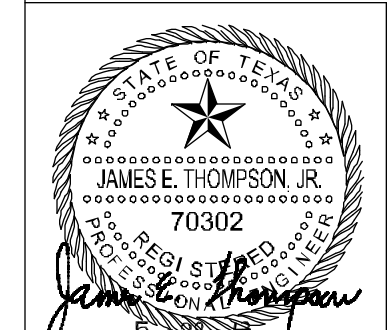
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RECREATIONAL COMPLEX
HCC SOUTH CAMPUS

1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051



Date: _____ Date: _____

NEW CONSTRUCTION
5/1/2013 ADDENDUM #1
5/28/2013 ADDENDUM #3 & PERMIT REVISIONS

LIGHT POLES AND
LIGHTING NOTES

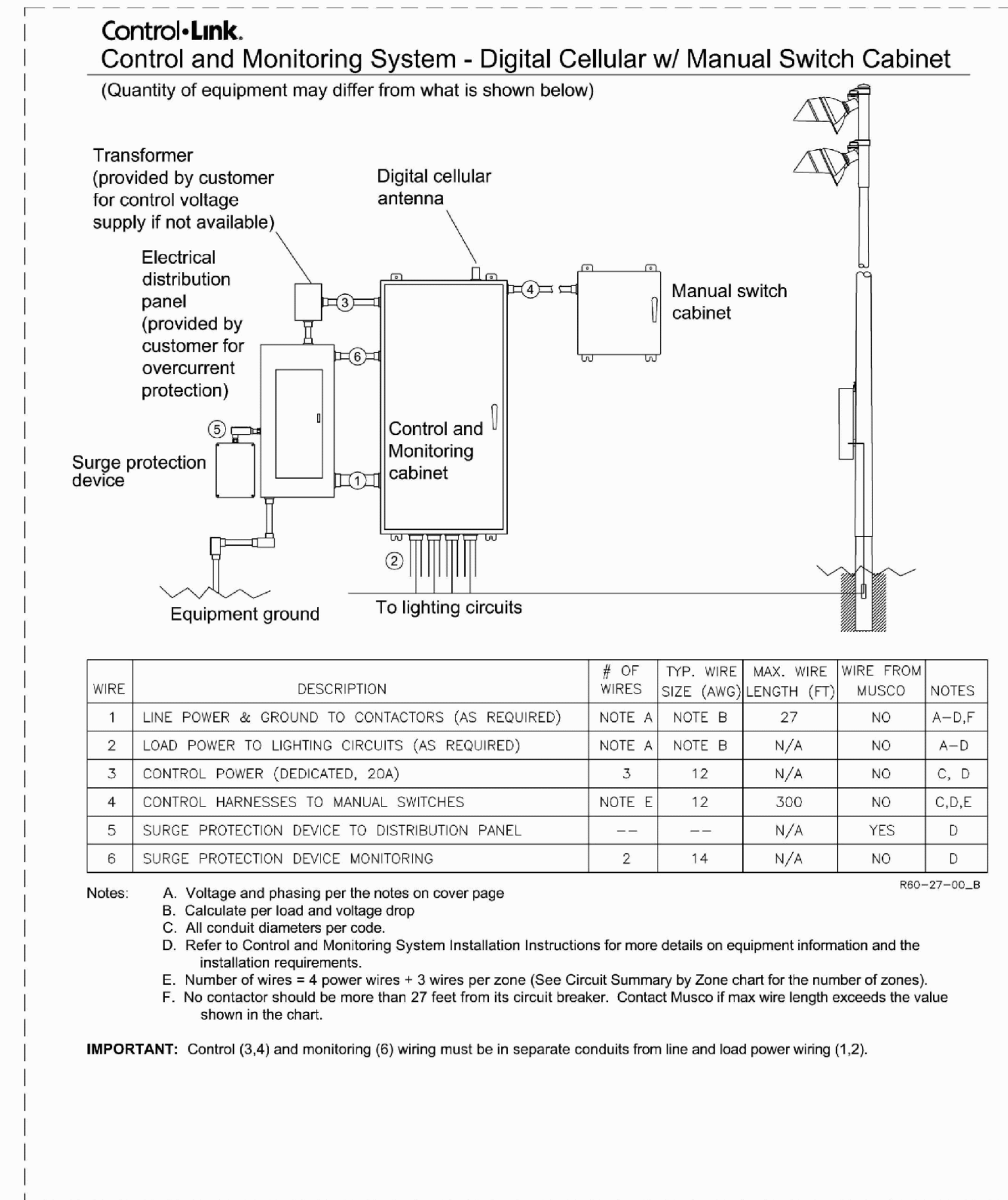
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MEP Consulting Engineers
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Alvin, Texas 77511
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TSPS Firm Registration No. F1526
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NOTE: CONTROL SYSTEM INFORMATION FOR REFERENCE ONLY. REFER TO RISER AND ONE LINE DIAGRAM. REPORT DISCREPANCIES TO THE ENGINEER/CITY ENGINEER.

MUSCO Lighting
Control System Summary
 Shady Lane Park Soccer / 151712 - 151712R2
 - Page 2 of 4



MUSCO Lighting
Control System Summary
 Shady Lane Park Soccer / 151712 - 151712R2
 - Page 3 of 4

SWITCHING SCHEDULE

Field Type	Zones	Zone Description
Soccer	1	Soccer
Security	2	Security

CONTROL POWER CONSUMPTION
 120V Single Phase

VA loading of Musco Supplied Equipment	INRUSH: 1555.0 SEALED: 241.0
--	---------------------------------

BALLAST SPECIFICATIONS
 .90 Minimum Power Factor

Single Phase Voltage	208	240	277	347	380	415	480
1500 Watt Metal Halide Lamp	8.6	7.5	6.5	5.1	4.7	4.2	3.7
Operating line amperage per fixture, max draw							
1000 Watt Metal Halide Lamp	6.5	5.8	4.9	4.0	3.6	3.2	2.9
Operating line amperage per fixture, max draw							

CIRCUIT SUMMARY BY ZONE

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
S1	Soccer	12	60	60	C1	1
S2	Soccer	12	60	60	C2	1
S3	Soccer	12	60	60	C3	1
S4	Soccer	12	60	60	C4	1
S1,S2	Security	2	4	30	C5	2

MUSCO Lighting
Control System Summary
 Shady Lane Park Soccer / 151712 - 151712R2
 - Page 4 of 4

Project Specific Notes:

Project Information

Project #: 151712
 Project Name: Shady Lane Park Soccer
 Date: 03/15/11
 Project Engineer: Josh Hawk
 Sales Representative: Jeff V Omer
 Control System Type: Control and Monitoring
 Communication Type: Digital Cellular
 Scan: 151712R2
 Distribution Panel Location or ID: 1
 Total # of Distribution Panel Locations for Project: 1
 Design Voltage/Hertz/Phase: 240/60/3
 Control Voltage: 120

Equipment Listing

DESCRIPTION	APPROXIMATE SIZE
1. Control and Monitoring Cabinet	24 X 48
2. Manual Switch Cabinet	16 X 16

	QTY	SIZE
Total Contactors	1	30 AMP
Total Contactors	4	60 AMP
Total Off/On/Auto Switches:	2	

Materials Checklist
Contractor/Customer Supplied:

- A single control circuit must be supplied per distribution panel location. — If the control voltage is NOT available, a control transformer is required.
- Electrical distribution panel to provide overcurrent protection for lighting circuits. — Thermal/Magnetic circuit breaker sized per full load amps on Circuit Summary by Zone chart
- Wiring:
 - Dedicated control power circuit
 - Power circuit to and from lighting contactors
 - Monitoring circuit from surge protection device to Control and Monitoring cabinet 1
 - Harnesses for cabinets at remote locations
 - Means of grounding, including lightning ground protection
- Electrical conduit wireway system
 - Entrance hubs rated NEMA 4: must be die-cast zinc, PVC, or copper-free die-cast aluminum
- Mounting hardware for cabinets
- Control circuit lock-on device to prevent unauthorized power interruption to control power
- Anti-corrosion compound to apply to ends of wire, if necessary

Call Control-Link Central™ operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation. Note: Activation may take up to 1 1/2 hours

IMPORTANT NOTES

- Please confirm that the design voltage listed above is accurate for this facility. Design voltage/phase is defined as the voltage/phase being connected and utilized at each lighting pole's ballast enclosure disconnect. Inaccurate design voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
- In a 3 phase design, all 3 phases are to be run to each pole. When a 3 phase design is used Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
- One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit. All contactors are UL 100% rated for the published continuous load. All contactors are 3 pole.
- If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
- A single control circuit must be supplied per control system.
- Size overcurrent devices using the full load amps column of the Circuit Summary By Zone chart. Minimum power factor of 0.9.

NOTE: Refer to Installation Instructions for more details on equipment information and the installation requirements

MUSCO Lighting
Control System Summary
 Shady Lane Park Soccer / 151712 - 151712R2
 - Page 4 of 4

PANEL SUMMARY

CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)	CIRCUIT BREAKER POSITION (BY OTHERS)
1	1	C1	Pole S1	60.0		
1	1	C2	Pole S2	60.0		
1	1	C3	Pole S3	60.0		
1	1	C4	Pole S4	60.0		
1	1	C5	Pole S1,S2	4.0		

ZONE SCHEDULE

ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION	
			POLE ID	CONTACTOR ID
Zone 1	1	Soccer	S1	C1
			S2	C2
			S3	C3
			S4	C4
Zone 2	2	Security	S1	C5
			S2	C5

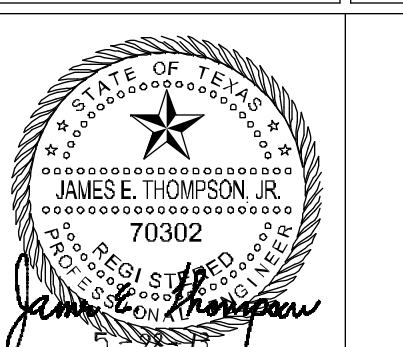
James E. Thompson
 James E. Thompson & Associates
 MEP Consulting Engineers
 1169 County Road 136A
 Alvin, Texas 77511
 Business (281) 565-3720 Fax: (281) 824-4664
 TBP# Firm Registration No. F1586
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ARCHI*TECHNICS/3, INC.
 ARCHITECTURE
 URBAN DESIGN
 INTERIORS
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 •Landscape Architecture •
 •Land Planning •
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RECREATIONAL COMPLEX
 HCC SOUTH CAMPUS
 1990 AIRPORT BLVD.
 HOUSTON, TEXAS 77051

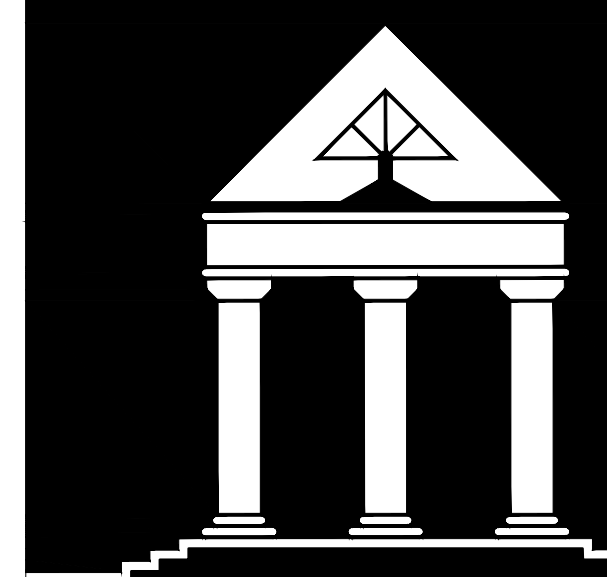


Date: _____ Date: _____

NEW CONSTRUCTION	ADDENDUM #1
5/12/2013	ADDENDUM #3 & PERMIT REVISIONS

CONTROLLER SPECIFICATIONS AND LOADS

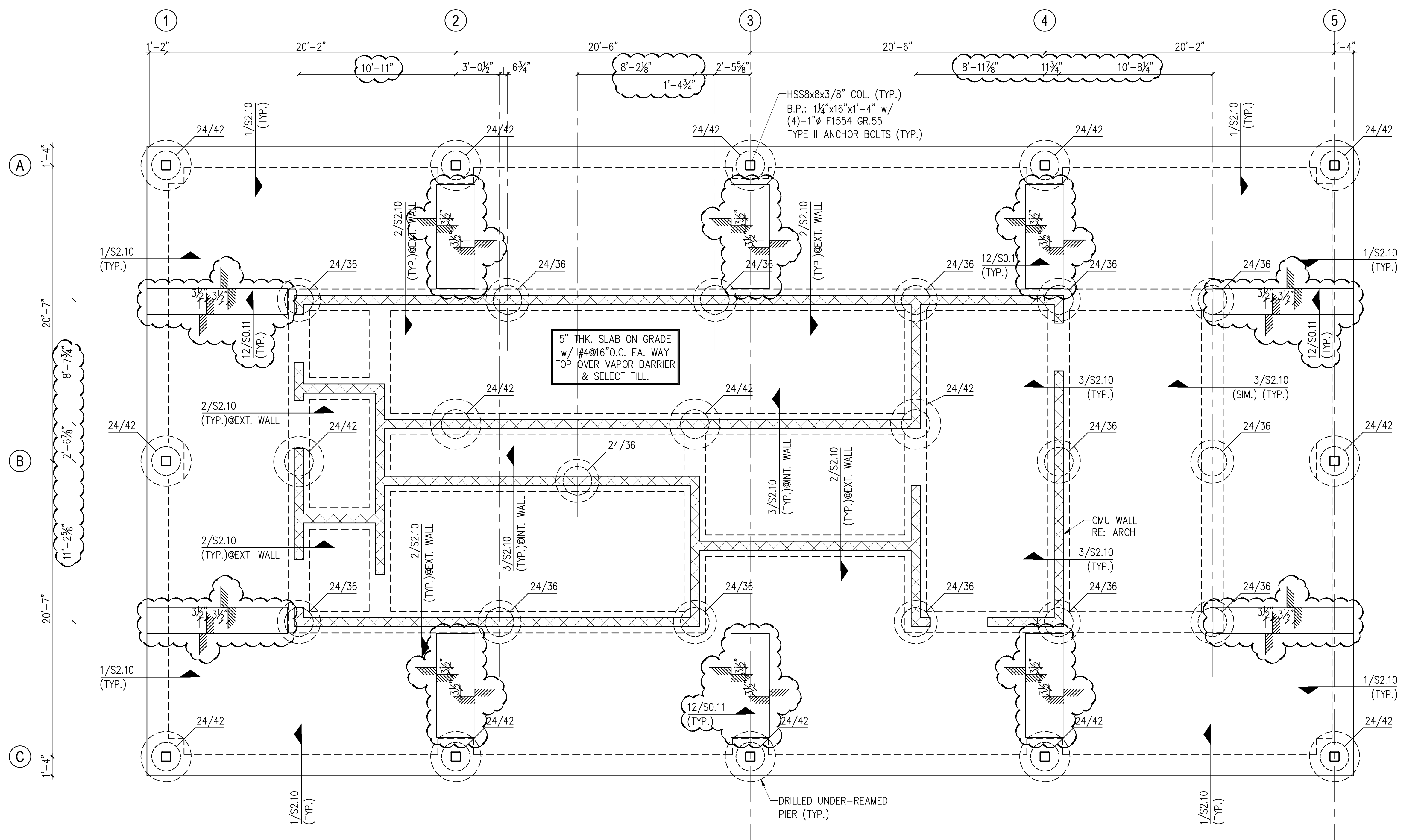
E-8.0
 DRAWN BY:
 CHECKED BY:



ARCHITECHNICS/3, INC.

ARCHITECTURE
URBAN DESIGN
INTERIORS
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Bellaire, Texas 77401
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A FOUNDATION PLAN
SCALE: 1/4"=1'-0"

- NOTES:
1. FOR BASE PLATE & ANCHOR BOLT DETAIL
RE: 3/SO.14.
 2. FOR PIER & PIER CAP REINF., RE: 6/SO.11
& 2/SO.11.
 3. REFER TO ARCH FOR DEPTH AND EXTENT
OF DEPRESSIONS.

RECREATIONAL COMPLEX
HCC SOUTH CAMPUS

1990 AIRPORT BLVD.
HOUSTON, TEXAS 77051



Ingenuim, Inc.
TX Registration # F-005365

NEW CONSTRUCTION	
100% DESIGN DEVELOPMENT	7/27/2012
FOR PERMIT & BID	4/08/2013
FOR PERMIT REVISIONS/ADDENDUM #3	5/28/2013

FOUNDATION PLAN

S1.10	DATE: 07/27/12
	DRAWN BY: MLM
	CHECKED BY: KLN
SHT. OF	FILE No. 09250

2:13:13:00:01 192:36:00 Comp: 344: -K- City: 344: 02/21/13 09:42:20 AM 1:1

PART 1 GENERAL**1.01 SUMMARY**

- A. This section includes requirements for a prefinished slotted panel system complete with shelving.
- B. Related Work: Coordinate the slotted panel system requirements of this section and drawings with related work to properly execute the Work in accordance with the Project Schedule. Sections which contain requirements that relate to panel system include but are not limited to the following:
 - 1. Section 06 10 00 - Rough Carpentry
 - 2. Sections in Division 08 for doors and frames.
 - 3. Sections in Division 09 for floor, wall and ceiling finishes.
 - 4. Section 09 25 00 - Interior Gypsum Board
 - 5. Section 09 91 00 - Painting
- C. Related Documents: Houston Community College (HCC) Uniform General Conditions, Supplementary General Conditions and Division 1 Specifications, including Drawings and provisions of Contract.

1.02 REFERENCE STANDARDS

- A. Requirements for reference standards are specified in HCC Division 1.
- B. American Society for Testing and Materials:
 - 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.03 QUALITY ASSURANCE

- A. Manufacturer Qualification: Manufacturer shall be regularly engaged in manufacturing and marketing the type of slotted panel system required to meet Project requirements and conditions, and have the facilities capable of meeting all requirements of Contract Documents and warranty.
 - 1. Products and materials used in manufacturing shall be free of lead, asbestos, polychlorinated biphenyls (PCB) or other types of hazardous materials.
- B. Installer Qualification: Slotted panel system shall be installed by skilled workers thoroughly experienced in the type of panel system required for this Project using materials, products and method of installation which do not contain lead, asbestos, PCB or other types of hazardous materials.

1.04 SUBMITTALS

- A. Shop Drawings: Submit in accordance with HCC Division 1 to include but not be limited to the following:
1. All information and details indicating full compliance with Contract Documents.
 2. Elevations, plan views, large scale details and dimensions required for complete installation, including groove spacings, shelving detail, and type of finish and color.
 3. Method of securing panel system to walls including type and locations of fastener, type and location of glue behind panels.
- B. Manufacturer's Product Data: Submit in accordance with HCC Division 1. Technical information specified in this section shall be clearly marked in data required for this work. Information and manufacturer's published recommendations required to meet Contract Documents shall be clearly marked and identified to indicate full compliance with contract requirements. Submit data for the following:
1. Slotted panel system with complete description and installation recommendations.
 2. Available colors and patterns for plastic laminate.
 3. Description of aluminum trim with available finishes.
- C. Samples: Submit the following in accordance with HCC Division 1:
1. Two 12" x 12" samples of slotted panel for verification.
 2. Two 12" long samples of aluminum trim.
 3. Two complete sets of color chips representing manufacturer's full range of available colors and patterns.

1.05 DELIVERY, STORAGE, HANDLING

- A. Slotted paneling and accessories shall be delivered, stored and handled in accordance with HCC Division 1, and manufacturer's recommendations.
1. Do not deliver items for paneling work until building conditions are adequate to prevent damage by moisture, dampness, excessive humidity, extreme dryness, heat or cold.
 2. Do not deliver items until wet work, painting, grinding and similar work which could soil or damage the paneling have been completed.
 3. Store paneling items indoors, in ventilated areas, within temperature range required and recommended by manufacturer.
- B. Damaged slotted panels and items shall be removed from Project site and replaced with new items at no additional cost to Owner.

1.06 WARRANTY

- A. General: Warranty for slotted panel system shall not deprive Owner of other rights the Owner may have under other provisions of the Contract Documents. Panel warranty shall be in addition to, and run concurrent with, other warranties made by Contractor

under requirements of the Contract Documents.

- B. Warranty for slotted panel system shall be in compliance with HCC Division 1.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. General: For the purpose of establishing the minimum functional, aesthetic and quality standards required for slotted panel system, products of the following manufacturer are specified:

1. Slatwall Systems Phoenix, AZ 1-888-454-1233

- B. Substitutions: Slotted panel system of the following, and other manufacturers, is acceptable only after full compliance with requirements of this section, HCC Division 01 and Contract Documents:

1. Marlite Dover, OH 1-330-343-6621

2.02 SLOTTED PANEL SYSTEM

- A. System Type: Slatwall System fabricated of fiberboard and plastic laminate grooved to receive standard-sized fixture-mounting brackets and shelves, complete with trim.

1. Fiberboard: Medium density (MDF), 48 pcf density, internal bond strength of 110 psi, 250-275 pounds screw holding strength at edge.
2. Flame Spread: 200 maximum, Class C, Class III, ASTM E84-94.

- B. Groove Finish: Extruded aluminum T-shaped insert, mill finish.

- C. Panel Size: As noted on Drawings, to be verified with Architect.

- D. Panel Finish: High-pressure plastic laminate, 0.015 inch thick, bonded to substrate with hot-melt process.

1. Color/Pattern: As scheduled on Drawings, to be verified and approved by Architect.

- E. Panel Trim: Aluminum type with mill finish required on all sides of panels.

- F. Shelves: 3/4" thick particleboard, finished two sides with plastic laminate, edgebanded four sides.

2.03 ACCESSORIES

- A. General: Slotted panel system shall be complete with materials recommended and required by manufacturer for compliance with Architect's requirements and Project conditions.

-
- B. Attachments: Shall be of types specially designed for metal studs and wood blocking, and be of types and sizes recommended by Panel Manufacturer.
 - 1. Concrete Masonry Conditions: Provide required attachments.
 - C. Glue: Type recommended by Paneling Manufacturer for use with specific site conditions.

PART 3 EXECUTION

3.01 PREPARATION

- A. General: Examine substrates, with Installer present, for compliance with requirements for panel tolerances and other conditions affecting installation and performance of slotted panel system.
 - 1. Clean the substrates of projections and substances detrimental to panel installation.
- B. Before installation, panels shall be conditioned to the average prevailing humidity conditions in area of installation as recommended by manufacturer.
- C. Do not begin installation until building is completely enclosed and interior conditions are being maintained within temperature range recommended by Panel Manufacturer.
- D. Unsatisfactory conditions shall be reported in writing to Architect. Do not proceed with panel work until unsatisfactory conditions detrimental to the proper completion of the work have been corrected and reviewed with Architect.
 - 1. Beginning of panel work implies General Contractor and Installer have inspected and accept the substrate and Project conditions as being properly prepared in accordance with Panel Manufacturer's published installation specifications for compliance with Contract Documents.
- E. Provide protection of existing surfaces during installation of panel system.
- F. Hazardous Material: Products, materials and methods used in the installation of panel system shall be free of lead, asbestos or PCB.

3.02 INSTALLATION

- A. General: Perform panel work in accordance with approved shop drawings, Contract Documents and manufacturer's recommendations and requirements.
- B. Attachment: Method of securing panel system to substrate shall be in strict compliance with Panel Manufacturer's recommendations and as required to meet Project conditions and requirements.
 - 1. Screw and glue panel installation for maximum capacity. Paneling must be

- secured directly to wall studs and solid blocking.
 - 2. Not Acceptable: Attachment directly to gypsum board without stud or blocking backup.
 - 3. Avoid contamination of panel faces with adhesives, solvents and cleaners.
- C. The completed panel installation shall be in true alignment vertically and horizontally, accurately fitted and tightly secured to substrate.

3.03 CLEANING AND PROTECTION

- A. Clean the completed panel system of dust, dirt and other contaminants. Coordinate with manufacturer's recommendations.
- 1. Do not use abrasive cleaners and cleaning methods including steel wool.
 - 2. Remove debris and leave areas neat and clean.
 - 3. Coordinate with cleaning requirements specified in HCC Division 1 .
- B. Provide protection for completed panel installation from damage for duration of construction activities. Provide protection and maintain conditions that ensure panel system without damage or deterioration at the Time of Substantial Completion.
- 1. Damaged panels shall be repaired or replaced as required and approved by Architect and Owner at no additional cost to Owner.
 - 2. Coordinate with protection requirements specified in HCC Division 1.

END OF SECTION