

CITY OF LUCAS

PROJECT NUMBER: 1215

CENTRAL FIRE STATION & ADMINISTRATION

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50% CONSTRUCTION DOCUMENTS



CENTRAL FIRE STATION & ADMINISTRATION

50% CONSTRUCTION DOCUMENTS

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ARCHITECTS

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972-956-0801
972-956-0842 (f)

LANDSCAPE
ENGINEER

HALFF ASSOCIATES, INC.
1001 Cross Timbers Road, Ste 2020
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972-956-0842 (f)

STRUCTURAL
ENGINEER

HALFF ASSOCIATES, INC.
1201 North Bowser Road
Richardson, TX 72081
214-346-6200
214-739-0095 (f)

MEP
ENGINEER

MD Engineering, LLP
500 N. Central Expressway Suite 310
Plano, TX 75074
469-467-0200
469-467-0300 (f)

PROJECT DATA

BUILDING CODE:	IBC 2003
OCCUPANCY CLASS:	B
TOTAL SQUARE FEET:	9,717
CONSTRUCTION TYPE:	V-B
SPRINKLERED:	YES
PARKING COUNT:	41

ISSUE DATE:
04/04/14

SET NUMBER

CONSTRUCTION PLANS

FOR

LUCAS FIRE STATION

ON-SITE PAVING, GRADING, AND UTILITY IMPROVEMENTS

CITY OF LUCAS, TEXAS

JANUARY 2014

CITY COUNCIL

MAYOR: REBECCA MARK

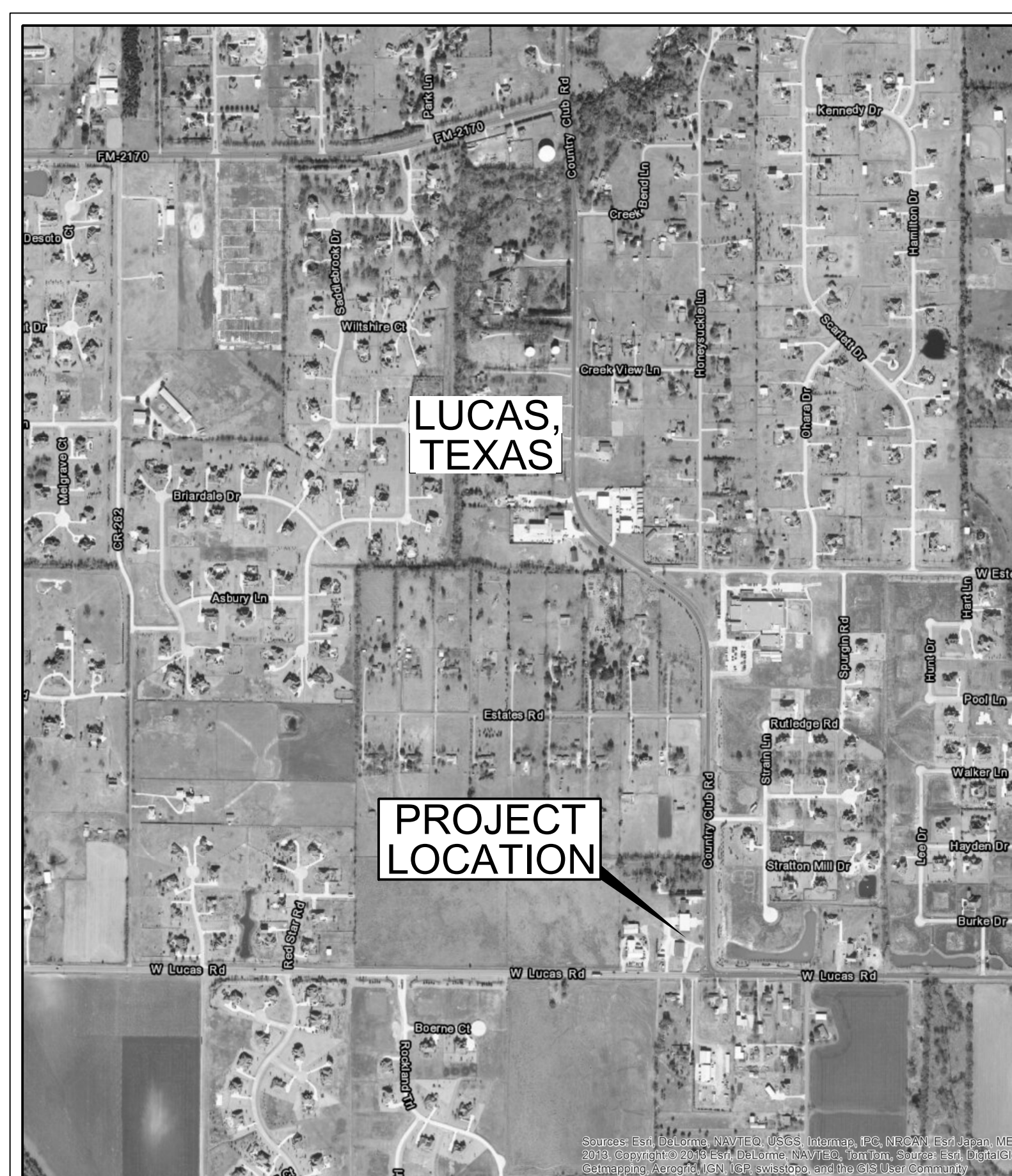
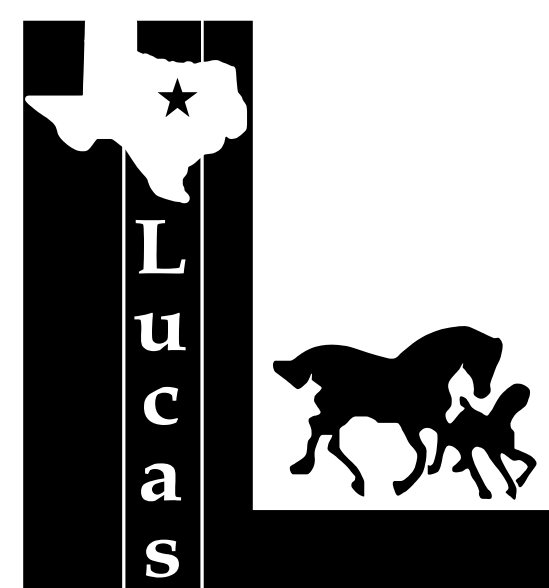
MAYOR PRO TEM: KATHLEEN PEELE

COUNCIL MEMBERS: WAYNE MILLSAP
 JIM OLK
 STEVE DUKE
 PHILLIP LAWRENCE
 DEBBIE FISHER

CITY MANAGER: JONI GLARKE

PUBLIC WORKS DIRECTOR: STANTON FOERSTER, PE

FIRE CHIEF: JIM KITCHENS



LOCATION MAP

PREPARED FOR
CITY OF LUCAS, TEXAS
 665 COUNTRY CLUB ROAD ~ LUCAS, TEXAS 75002



1001 CROSS TIMBERS ROAD, SUITE 2020 ~ FLOWER MOUND, TEXAS 75028
 PROJECT MANAGER: JAMES GAERTNER, P.E. (972) 956-0801

INDEX OF SHEETS

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HALFF ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • SCIENTISTS
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James S. R. Gaertner	100431	04/09/2014
	PE#	Date

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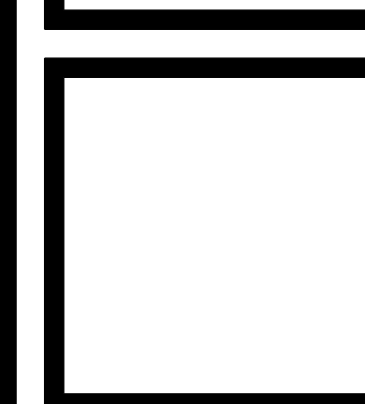
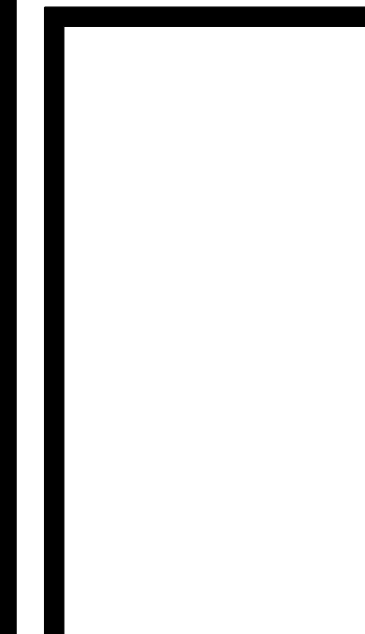
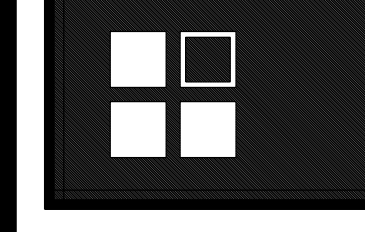
AVO 29051 APRIL 2013

LUCAS FIRE STATION,
ON-SITE CIVIL IMPROVEMENTS

Original Issue Date: 01/21/2014
Revisions:

LUCAS CENTRAL FIRE STATION
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Job No.
1215

Sheet No.
C0.01

GENERAL NOTES:

- Contractor is responsible for, and must obtain prior to construction, all necessary construction permits required by the City of Lucas.
- The Contractor shall abide by all applicable federal, state, and local laws governing excavation. The Contractor shall provide detailed plans and specifications for trench safety systems that comply with applicable laws governing excavation. These plans shall be sealed by an Engineer experienced in the design of trench safety systems and licensed by the State of Texas. Submit plan to the Owner prior to commencing work. The Contractor shall be solely responsible for all aspects of work related to excavation.
- Existing utility locations shown are taken from available records provided by the utility owner and field locations of surface appurtenances. Locations shown are generally schematic in nature and may not accurately reflect the size and location of each particular utility. Some utility lines may not be shown. Contractor shall assume responsibility for actual field location and protection of existing facilities whether shown or not. Contractor shall also assume responsibility for repairs to existing facilities, whether shown or not, damaged by contractor's activities. Differences in horizontal or vertical location of existing utilities shall not be a basis for additional expense.
- Contractor shall locate and adjust existing utility manhole lids, cleanouts, water valves and other surface appurtenances as required for new construction. Contractor shall coordinate utility adjustments with other disciplines and the appropriate utility agencies and provide for all fees for permits, connections, inspections, etc.
- The Contractor shall protect existing property monumentation and primary control. Any such points which the Contractor believes will be destroyed shall have offset points established by the Contractor prior to construction. Any monumentation destroyed by the Contractor shall be reestablished at his expense.
- Barricading and traffic control during construction shall be the responsibility of the Contractor and shall conform to the 2006 Texas Manual on Uniform Traffic Control Devices (TMUTCD), Part VI in particular. Traffic flow and access shall be maintained during all phases of the construction. The Contractor is responsible for providing traffic safety measures for work on project.
- Any damages that may occur to real property or existing improvements shall be restored by the Contractor to at least the same condition that the real property or existing improvements were in prior to the damages. This restoration shall be subject to the Owner's approval; moreover, this restoration shall not be a basis for additional compensation to the Contractor. Restoration shall include, but not be limited to, regrassing, revegetation, replacing fences, replacing trees, etc.
- It shall be the responsibility of the Contractor to:
 - Prevent any damage to private property and property owner's poles, fences, shrubs, etc.
 - Provide access to all drives during construction.
 - Protect all underground utilities to remain in service.
 - Notify all utility companies and verify location of all utilities prior to start of construction.
- Contractor shall maintain positive drainage at all time during construction. Ponding of water in streets, drives, truck courts, trenches, etc. will not be allowed.
- Contractor shall maintain existing sanitary sewer and water service at all times during construction.
- Contractor is responsible for coordination with utility companies and adjustment of existing sanitary sewer cleanouts, water meters and any other appurtenances to new grade as required.
- Pavement removal and repair shall conform to the City Lucas requirements. All sawcuts shall be full depth cuts. Contractor shall make efforts to protect concrete and/or asphalt edges. Any large spalled or broken edges shall be removed by sawcutting pavement prior to replacement.

GRADING NOTES:

- The Contractor shall administer sprinklers for dust control, earthwork or base construction as required or as directed by the Engineer in accordance with TxDOT specifications item 204.
- Contractor's work shall include pavement removal and disposal required for new walk, drive, curb, gutter and other grading features. Contractor shall be responsible for all coordination, inspection and testing required by the Owner and/or the City of Lucas.
- All sidewalks and handicap parking shall meet current ADA standards for minimum and maximum slopes.

PRIVATE UTILITY NOTES:

- All materials and workmanship for private utility construction shall conform to the Standard Specifications for Public Works Construction for North Central Texas, latest edition, and the City of Lucas requirements.
- Pipe material for water and waste water lines shall conform to the notes shown on this drawing and to the requirements of the project specifications. Water line shall be C900 PVC, DR 14 Class 150. Unless otherwise specified.
- Water mains shall have the following minimum cover below finished street grades:

Size	Cover
8"	3.5'
10"	4.0'
12"	4.0'
- Coordinate utility service locations with most current Architectural/MEP Plans for this project.
- Fire service shall be sized and designed by a State of Texas licensed fire protection engineer/contractor registered in the State of Texas.
- All underground fire lines shall be installed by a state licensed fire protection contractor.
- Sanitary sewer line shall be SDR- 35 PVC. Embed sewer pipe in accordance with City of Lucas design standards.
- Refer to City of Lucas standard details for DDC valve and vault construction. Water and Sanitary Sewer embedment and water thrust blocking.
- All fire line valve covers must be marked in blue, labeled **F.D.**
- Field adjustments shall not be made without notification of the Owner and engineer.

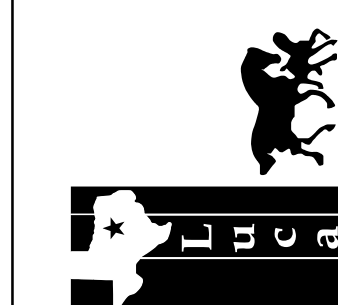
PAVING NOTES:

- Pavement removal and repair shall conform to City of Lucas and TxDOT requirements. All sawcuts shall be full depth cuts. Contractor shall make efforts to protect concrete and/or asphalt edges. Any large spalled or broken edges shall be removed by sawcutting pavement prior to replacement.
- Contractor's work shall include pavement removal and disposal required for new walk, drive, curb, gutter and other paving features. Contractor shall be responsible for all coordination, inspection and testing required by the City of Coppers Cove.
- All travel lane pavement shall be 7" thick and a minimum 3,500 psi compressive strength reinforced concrete pavement with #3 bars at 18" on center in both directions, per geotech report prepared by Alpha Testing Inc. Report No. G132036 dated December 18, 2013.
- Concrete paving joints shall be constructed as recommended in the geotechnical report noted below. Expansion joints shall be placed at changes in direction of paving, at driveways and/or as shown on the drawings. Seal all joints as shown on the drawings. (See sheet C7.04 for details).
- Unless otherwise indicated on plans, all dimensions are to face of curb or face of building and are perpendicular to boundary line. These dimensions are provided to tie the Architect's Site Plan to the boundary lines.
- All sidewalks and handicap parking areas shall meet current ADA standards for minimum and maximum slopes.
- Refer to paving and grading requirements from geotechnical report prepared by Alpha Testing Inc. No. G132036 dated December 18, 2013.

UTILITY CONTACTS

<p>Gas Company</p> <p>COSERV SHAWN MEAD 940-321-7800 ext. 7509 (Office) 5420 LBJ Freeway, Suite 1822 Dallas, Texas 75240</p>	<p>Cable Company</p> <p>CHARTER COMMUNICATIONS Mr. Greg Platt 817-298-3625 15100 Trinity Blvd. Fort Worth, TX 76155</p>
<p>ENERGY TRANSFER Celeste Waterwall (713) 989-2831 (Phone) 1300 Main St. HOUSTON, TX 77002</p>	<p>Century Link Jim Tankersley (940) 321-1920 (Phone) 450 Main Street LAKE DALLAS, TX 75065</p>
<p>Electric Company</p> <p>TXU Electric Delivery 1-800-711-9112 email: constructionservices@txu.com</p>	<p>GRANDE COMMUNICATIONS - (877) 238-6891 (Phone) 501 N. Shady Shore Road LAKE DALLAS, TX 75065</p>
<p>ONCOR ELECTRIC DISTRIBUTION Robert Martinez (888) 313-6862 (Phone) 115 W 7th Street FT WORTH, TX 76102</p>	
<p>GRAYSON-COLLIN ELECTRIC COOPERATIVE DENNIS FURGUSON MANAGER OF OVERHEAD CONSTRUCTION email: dennis.ferguson@grayson-collin.coop 903-482-7100 (Phone) 1036 N. WACO VAN ALSTYNE, TX 75495</p>	
<p>Phone Companies</p> <p>VERIZON Larry Guay email: larry.d.guay@verizon.com 972-318-0264 (Phone) 972-318-5299 (Fax) 2094 McGee Lane Lewisville, TX 75077</p>	
<p>Water and Trash Service</p> <p>CITY OF LUCAS Delta Moody (972) 727-8999, ext. 409 (Phone) (972) 727-0091 (Fax) 665 Country Club Lucas, TX 75002</p>	

CITY OF LUCAS
FIRE STATION
LUCAS, TEXAS



Revision No.	Date	Description

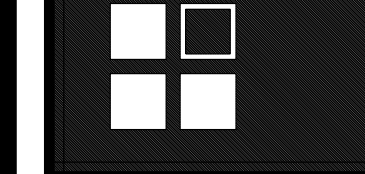
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James S. R. Gaertner 100431
NAME P.E. NO.
DATE 4/11/2014
TYPE FIRM # F-312

Project No.: 29051
Issued: JANUARY 2014
Drawn By: CAD
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GENERAL NOTES
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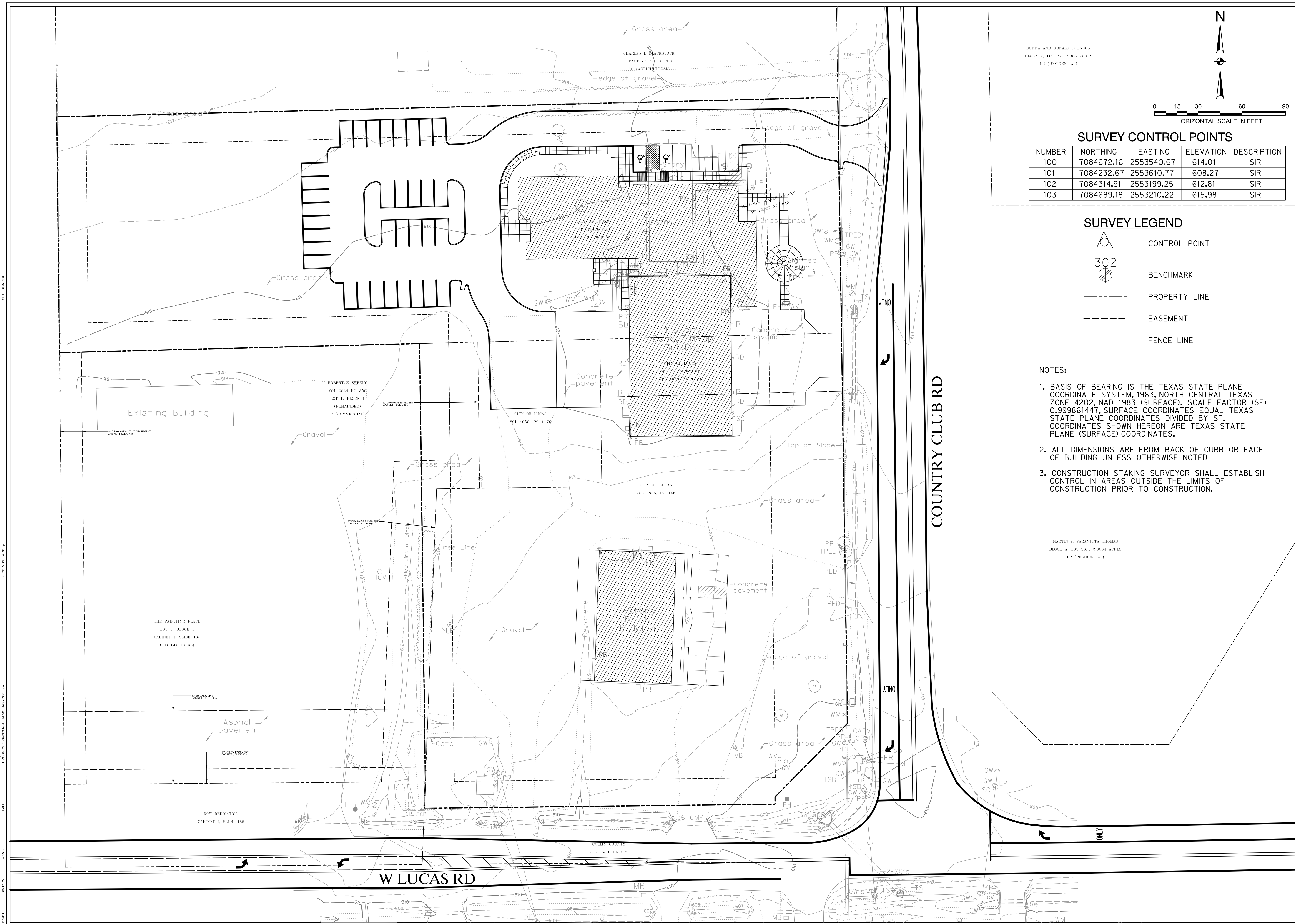
LUCAS CENTRAL FIRE STATION
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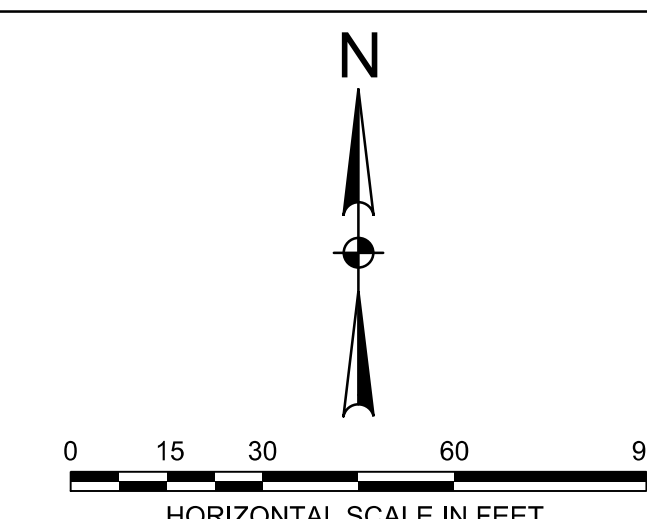


Job No.
1215

Sheet No.
C0.11



BOYNA AND DONALD JOHNSON
BLOCK A, LOT 27, 2.005 ACRES
RZ (RESIDENTIAL)



SURVEY CONTROL POINTS

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	7084672.16	2553540.67	614.01	SIR
101	7084232.67	2553610.77	608.27	SIR
102	7084314.91	2553199.25	612.81	SIR
103	7084689.18	2553210.22	615.98	SIR

SURVEY LEGEND

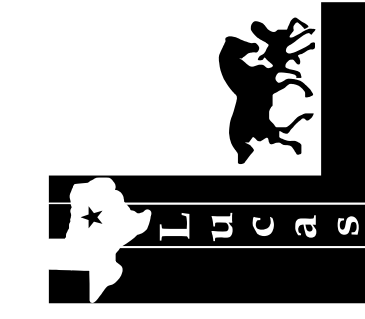
- CONTROL POINT
- BENCHMARK
- PROPERTY LINE
- EASEMENT
- FENCE LINE

NOTES:

1. BASIS OF BEARING IS THE TEXAS STATE PLANE COORDINATE SYSTEM, 1983, NORTH CENTRAL TEXAS ZONE 4202, NAD 1983 (SURFACE). SCALE FACTOR (SF) 0.999961447, SURFACE COORDINATES EQUAL TEXAS STATE PLANE COORDINATES DIVIDED BY SF. COORDINATES SHOWN HEREON ARE TEXAS STATE PLANE (SURFACE) COORDINATES.
2. ALL DIMENSIONS ARE FROM BACK OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED
3. CONSTRUCTION STAKING SURVEYOR SHALL ESTABLISH CONTROL IN AREAS OUTSIDE THE LIMITS OF CONSTRUCTION PRIOR TO CONSTRUCTION.

MARTIN A. SARANUTA THOMAS
BLOCK A, LOT 29C, 2.004 ACRES
RZ (RESIDENTIAL)

CITY OF LUCAS
FIRE STATION
LUCAS, TEXAS



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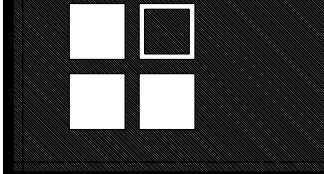
James S. R. Gaertner 100431
NAME P.E. NO.
DATE 4/11/2014
TYPE FIRM # F-312

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SURVEY CONTROL POINTS / BENCHMARKS
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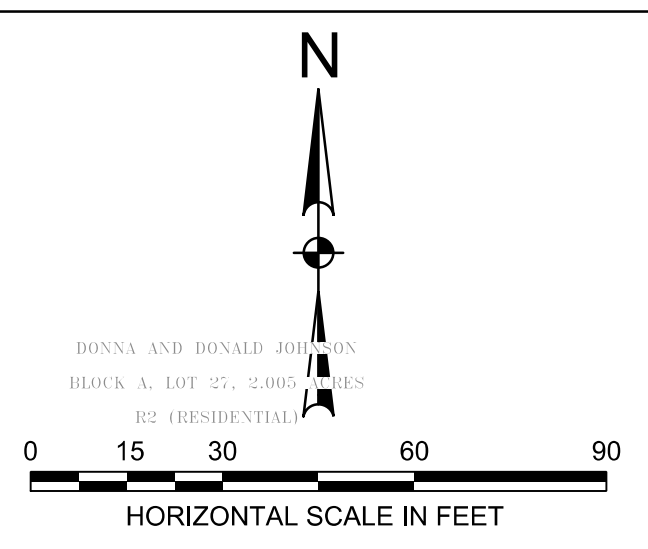
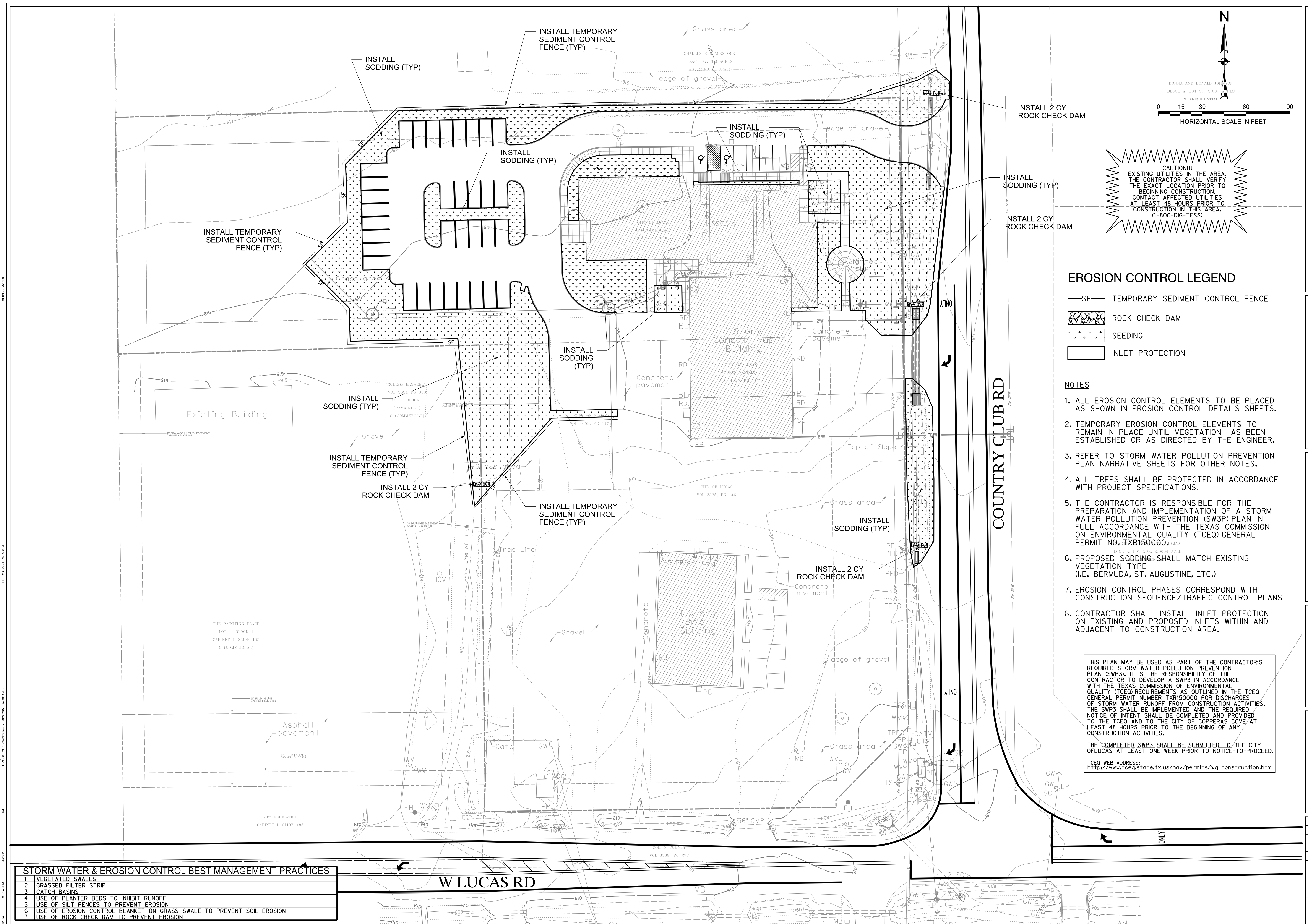
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Job No.
1215

Sheet No.
C1.01



CAUTION!!
EXISTING UTILITIES IN THE AREA. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTACT AFFECTED UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN THIS AREA. (1-800-DIG-TESS)

EROSION CONTROL LEGEND

- SF— TEMPORARY SEDIMENT CONTROL FENCE
- ROCK CHECK DAM
- SEEDING
- INLET PROTECTION

NOTES

1. ALL EROSION CONTROL ELEMENTS TO BE PLACED AS SHOWN IN EROSION CONTROL DETAILS SHEETS.
2. TEMPORARY EROSION CONTROL ELEMENTS TO REMAIN IN PLACE UNTIL VEGETATION HAS BEEN ESTABLISHED OR AS DIRECTED BY THE ENGINEER.
3. REFER TO STORM WATER POLLUTION PREVENTION PLAN NARRATIVE SHEETS FOR OTHER NOTES.
4. ALL TREES SHALL BE PROTECTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION (SWP3) PLAN IN FULL ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) GENERAL PERMIT NO. TXR150000.
6. PROPOSED SODDING SHALL MATCH EXISTING VEGETATION TYPE (I.E.-BERMUDA, ST. AUGUSTINE, ETC.)
7. EROSION CONTROL PHASES CORRESPOND WITH CONSTRUCTION SEQUENCE/TRAFFIC CONTROL PLANS.
8. CONTRACTOR SHALL INSTALL INLET PROTECTION ON EXISTING AND PROPOSED INLETS WITHIN AND ADJACENT TO CONSTRUCTION AREA.

THIS PLAN MAY BE USED AS PART OF THE CONTRACTOR'S REQUIRED STORM WATER POLLUTION PREVENTION PLAN (SWP3). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP A SWP3 IN ACCORDANCE WITH THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (TCEQ) REQUIREMENTS AS OUTLINED IN THE TCEQ GENERAL PERMIT NUMBER TXR150000 FOR DISCHARGES OF STORM WATER RUNOFF FROM CONSTRUCTION ACTIVITIES. THE SWP3 SHALL BE IMPLEMENTED AND THE REQUIRED NOTICE OF INTENT SHALL BE COMPLETED AND PROVIDED TO THE TCEQ AND TO THE CITY OF COPPERAS COVE AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION ACTIVITIES.

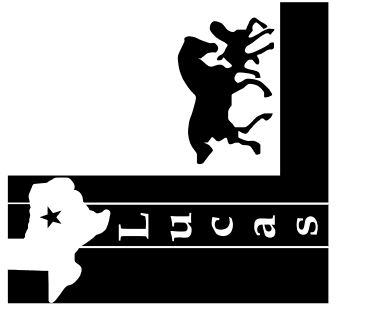
THE COMPLETED SWP3 SHALL BE SUBMITTED TO THE CITY OF LUCAS AT LEAST ONE WEEK PRIOR TO NOTICE-TO-PROCEED.

TCEQ WEB ADDRESS:
http://www.tceq.state.tx.us/nav/permits/wq_construction.html

STORM WATER & EROSION CONTROL BEST MANAGEMENT PRACTICES

1	VEGETATED SWALES
2	GRASSSED FILTER STRIP
3	CATCH BASINS
4	USE OF PLANTER BEDS TO INHIBIT RUNOFF
5	USE OF SILT FENCES TO PREVENT EROSION
6	USE OF EROSION CONTROL BLANKET ON GRASS SWALE TO PREVENT SOIL EROSION
7	USE OF ROCK CHECK DAM TO PREVENT EROSION

CITY OF LUCAS
FIRE STATION
LUCAS, TEXAS



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James S. R. Gaeber
NAME
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DATE 4/11/2014
TYPE FIRM # F-312

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EROSION CONTROL PLAN
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LUCAS CENTRAL FIRE STATION
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1215

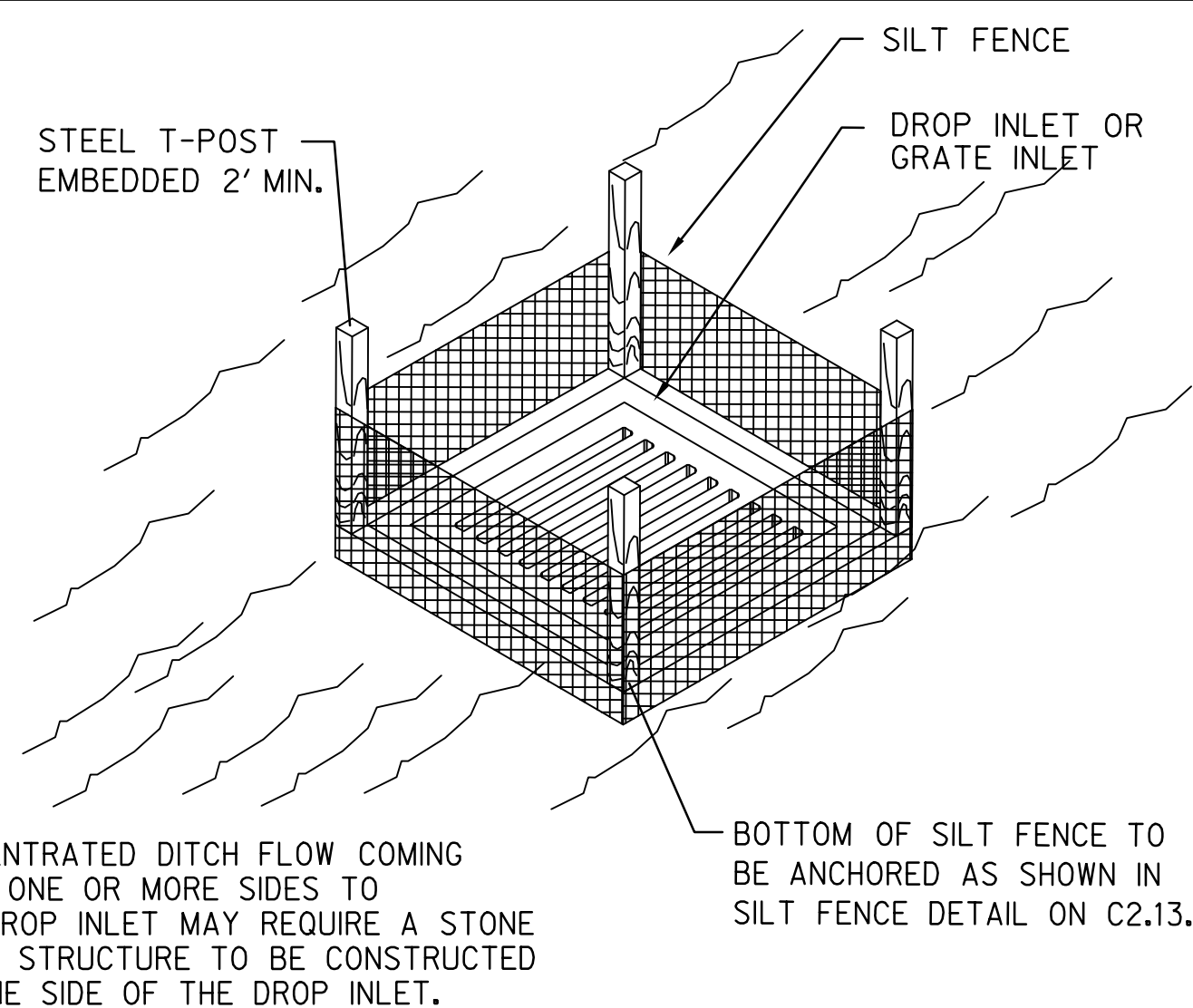
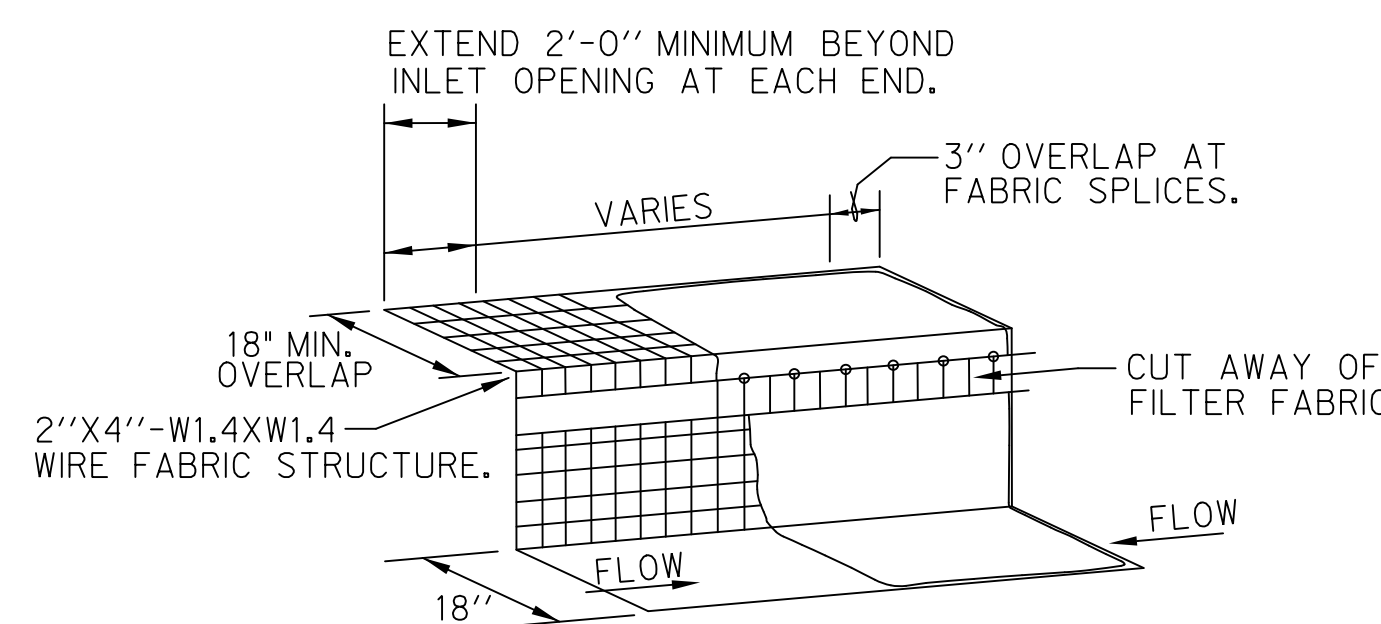
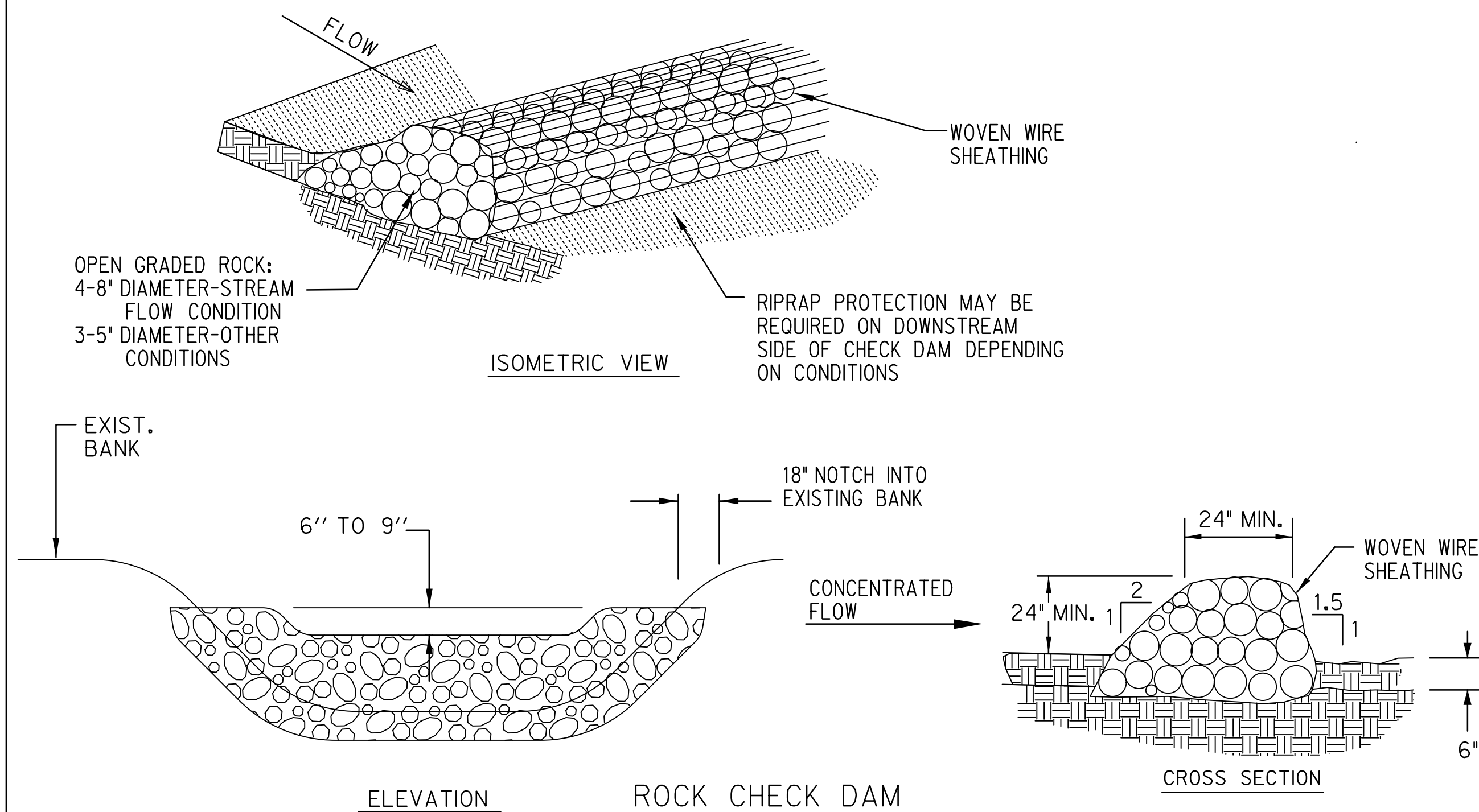
Sheet No.
C2.01

Erosion Control Notes

- The Contractor is responsible for preparing and implementing a Storm Water Pollution Prevention Plan (SWP3) in accordance with TCEQ Texas Pollutant Discharge Elimination System (TPDES) Permit No. TXR150000 (PERMIT). The details shown on this sheet represent typical methods for controlling erosion during construction and are intended for the Contractor's guidance in preparing his Pollution Prevention Plan. The Contractor's plan shall comply with the PERMIT and Federal, State and local requirements. The Contractor's plan shall include, but not be limited to, preparation and submittal of a Notice of Intent (NOI) to the TCEQ, if the project is 5 acres or larger and preparation of all plans and documentation as required by the PERMIT.
- It is the intent of the information provided on these documents to be used as a general guideline for the Contractor. The SWP3 to be prepared by the Contractor shall meet the current requirements set forth in the TCEQ's TPDES general permit for storm water discharges from construction sites as well as any local requirements.
- The Contractor shall be responsible for maintaining erosion control during construction and for obtaining any required construction related drainage permits, or making any construction related notifications. An inspection report that summarizes inspection activities and implementation of the SWP3 shall be performed as required by the PERMIT and retained by the Contractor and made a part of the construction documents. The Contractor shall provide copies of all SWP3 documents including, but not limited to, inspection records, original plans, and modified plans to the Owner at contract close-out. During construction the contractor shall provide copies of the inspection reports to the Owner on a monthly basis.
- Temporary storm drainage and/or erosion control material shall be suitable for this application and shall be installed with the proper techniques by the Contractor as required by NCTCOG Standard Specifications for Public Works Construction. Temporary storm drainage and/or erosion control material shall be removed by the Contractor, in addition to any excavations backfilled by the Contractor, in accordance with NCTCOG Standard Specifications for Public Works Construction when temporary erosion control devices are no longer needed as specified in the PERMIT. Maintenance of the permanent erosion control measures at the site will be assumed by the Owner at contract close out and acceptance of the work.
- The Contractor shall maintain his SWP3 in accordance with the TCEQ Permit and make his SWP3 available, upon request, to the TCEQ, and/or City.
- The Contractor must amend his SWP3 whenever there is a change in design, construction, operation, or maintenance of the SWP3, or when the existing SWP3 proves ineffective. Modifications shall not compromise the intent of the requirements of the PERMIT. Modifications including design and additional materials and work shall be accomplished by the Contractor at no additional expense to the Owner.
- The Contractor shall inspect his stabilization and erosion control measures at a minimum of once every 14 days, and within 24 hours after any storm event greater than 0.5 inches, or once every 7 days. The Contractor shall repair inadequacies revealed by the inspection before the next storm event and he shall modify his SWP3 within 7 days of the inspection.
- The Contractor shall adopt and implement appropriate construction site management practices to prevent the discharge of oils, grease, paints, gasoline, and other pollutants to storm water. Appropriate practices shall include, but not be limited to: designating areas for equipment maintenance and repair; collecting wastes periodically; maintaining conveniently located waste receptacles; and designating and controlling equipment washdown.
- Borrow areas, if excavated, shall be protected and stabilized by the Contractor in a manner acceptable to the Owner and in accordance with PERMIT requirements.
- All non-paved areas shall be seeded and mulched with erosion protection grass by the Contractor immediately upon completion of final grading. This includes all ditches and embankments. The Contractor shall maintain final grading, and keep seeded areas watered until fully established and accepted by Owner.

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- The Contractor shall construct a silt fence at locations suggested on plans as appropriate or as modified in his SWP3 to fit site conditions at the time of placement, and all borrow and stock pile areas. The silt fence shall be constructed as detailed on this plan. The Contractor shall remove accumulated silt when it reaches a depth of 1/3 the height of the silt fence. The Contractor shall dispose of the removed silt in a location approved by the Owner and in such a manner as to not contribute to erosion and sedimentation. The Contractor shall remove the silt fence when the site is completely stabilized in accordance with the PERMIT.
- The Contractor shall designate material and equipment storage areas mutually agreed to by the Owner. The storage areas shall be graded for positive drainage, and the surface stabilized with a minimum of 2 inches of compacted flex base on 6 inches of scarified and recompacted subgrade by the Contractor. A silt fence shall be installed by the Contractor around the storage areas to prevent eroded material from leaving the site.
- All inlets (onsite and offsite) receiving drainage water from disturbed areas shall be protected by the Contractor as per details shown or other Owner approved methods to prevent eroded material from being transported into inlets. The inlet protection shall be constructed as shown on these plans.
- The notes and details contained herein do not relieve the Contractor and Owner of meeting and implementing the requirements of the PERMIT.

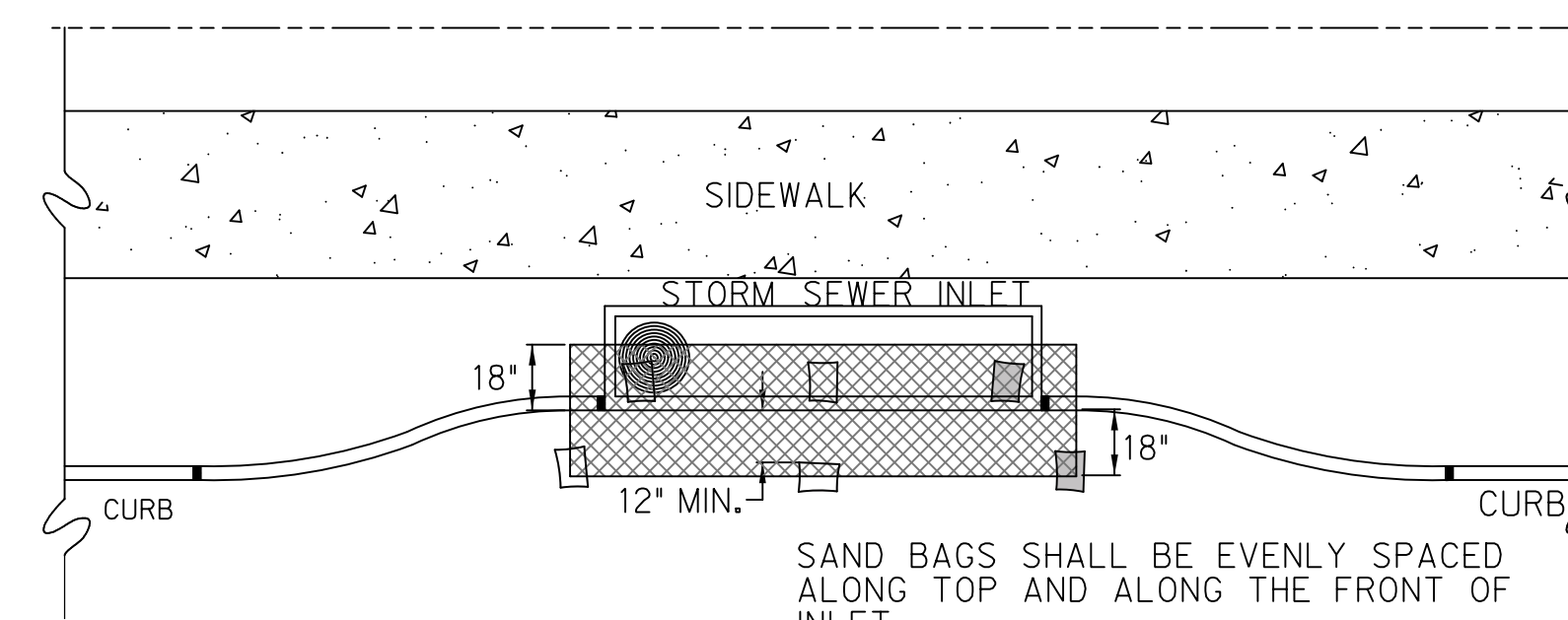
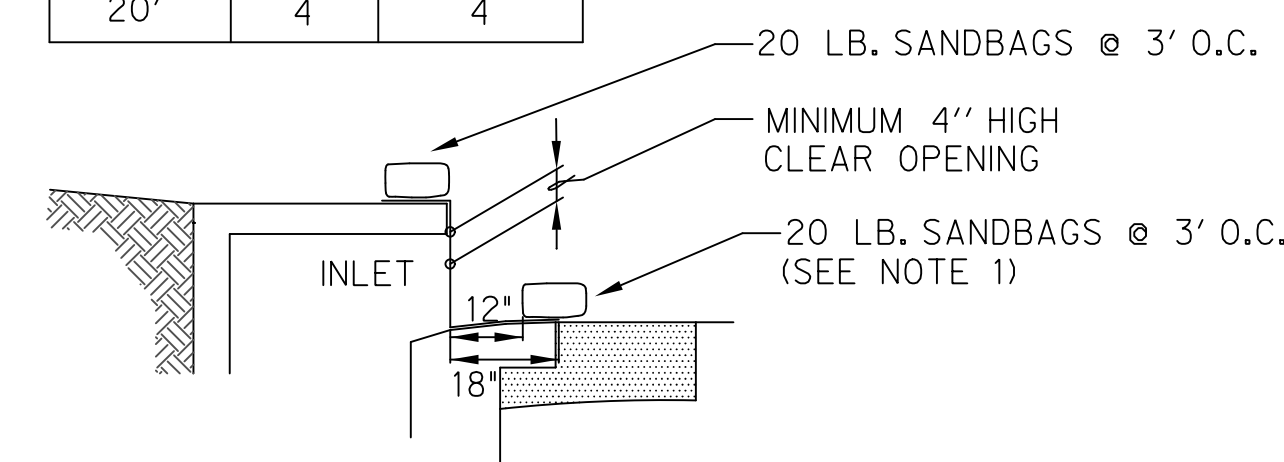


SILT FENCE DROP INLET/ TRENCH DRAIN PROTECTION
N.T.S.

NOTES:

- A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL TO PROVIDE A 4-INCH MINIMUM CLEAR OPENING. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
- INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2-INCHES.
- CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
- INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

INLET OPENING	MINIMUM NUMBER OF SAND BAGS	
	TOP	FRONT
5'	2	3
10'	3	3
15'	3	4
20'	4	4



CURB INLET PROTECTION DETAIL
N.T.S.

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Revision No.	Date	Description

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 Sheet Title: EROSION CONTROL DETAILS
C2.02
 Sheet Number

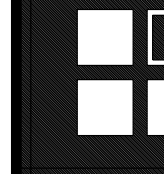
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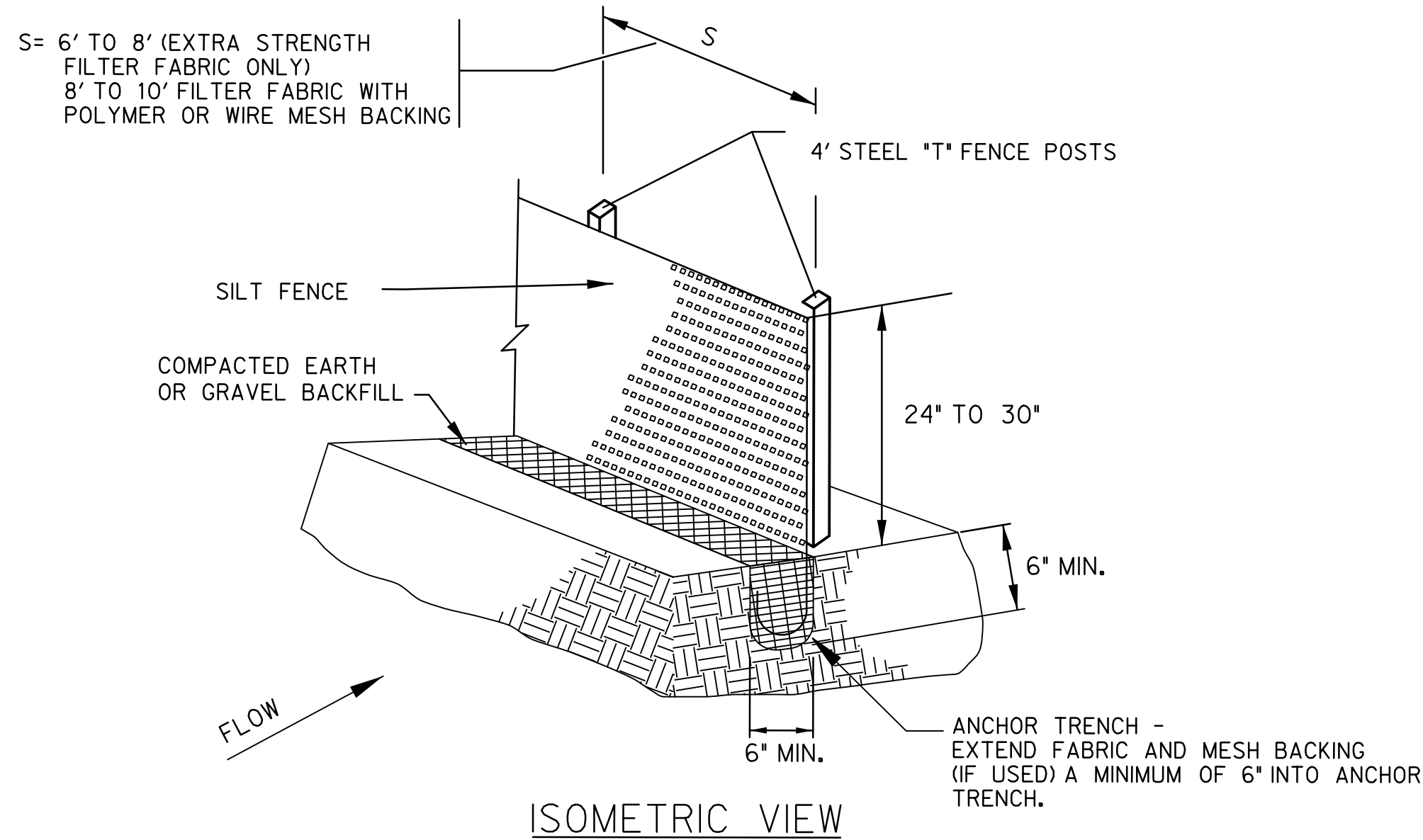


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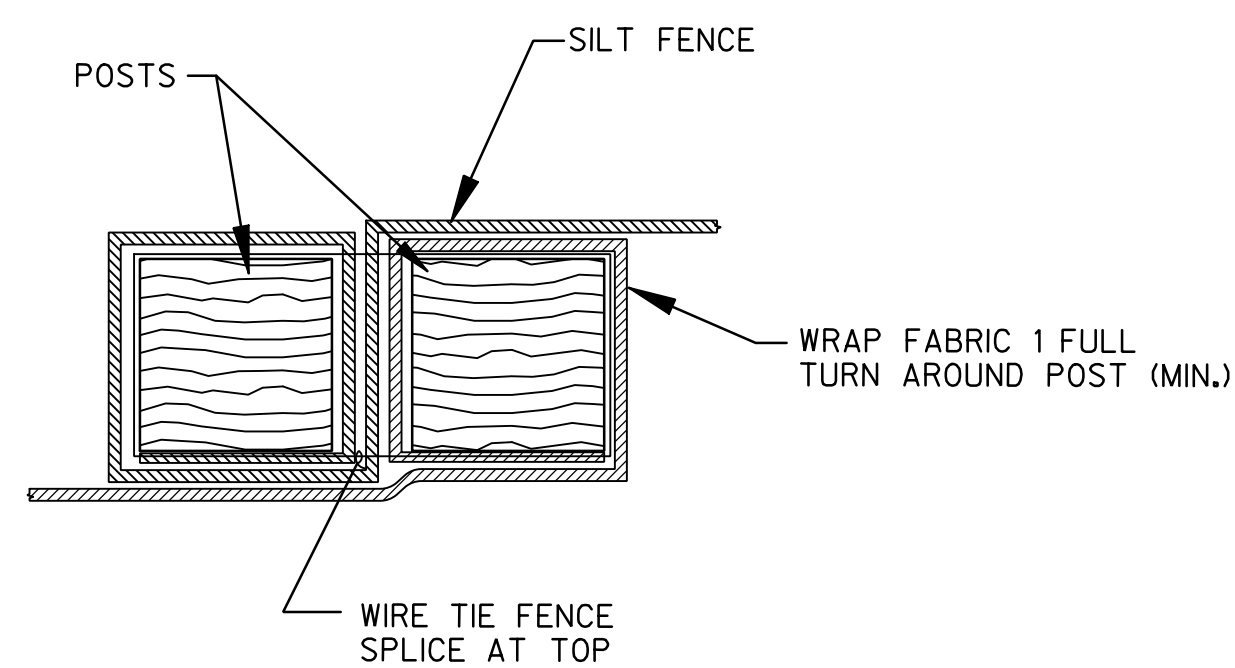
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Sheet No.

C2.02



ISOMETRIC VIEW

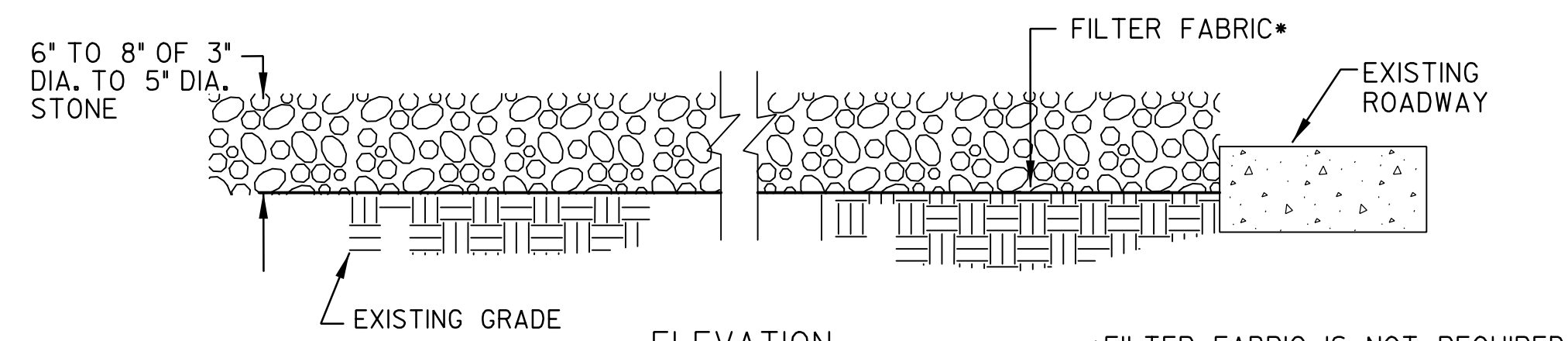


FENCE SPICED DETAIL
PLAN VIEW

SILT FENCE GENERAL NOTES:

1. THE BOTTOM OF THE SILT FENCE SHALL BE SET IN ANCHOR TRENCH PER THE DETAIL. WHERE THE SILT FENCE CANNOT BE ANCHORED IN A TRENCH (E.G. PAVEMENT), SILT FENCE SHALL BE ANCHORED DOWN WITH WASHED GRAVEL.
2. AT SPLICES IN THE SILT FENCE, THE SILT FENCE SHALL BE WRAPPED AROUND EACH END POST, ONE FULL TURN, POSTS DRIVEN ADJACENT TO EACH OTHER WITH THE TOPS OF THE POSTS SECURED TIGHTLY TOGETHER WITH WIRE TO PREVENT SEDIMENT FLOWING THROUGH THE SPICED JOINT.
3. SILT FENCE SHALL BE SECURELY FASTENED TO EACH SUPPORT POST.
4. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 1/3 THE HEIGHT OF THE SILT FENCE OR AS NECESSARY TO MAINTAIN THE SILT FENCE IN GOOD OPERATING ORDER. THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
5. SILT FENCE AND OTHER SEDIMENT CONTROLS SHALL BE MAINTAINED PER THE REQUIREMENTS OF THE PERMIT AND IT SHALL BE REMOVED AS REQUIRED BY THE PERMIT AT COMPLETION.

SILT FENCE DETAIL
N.T.S

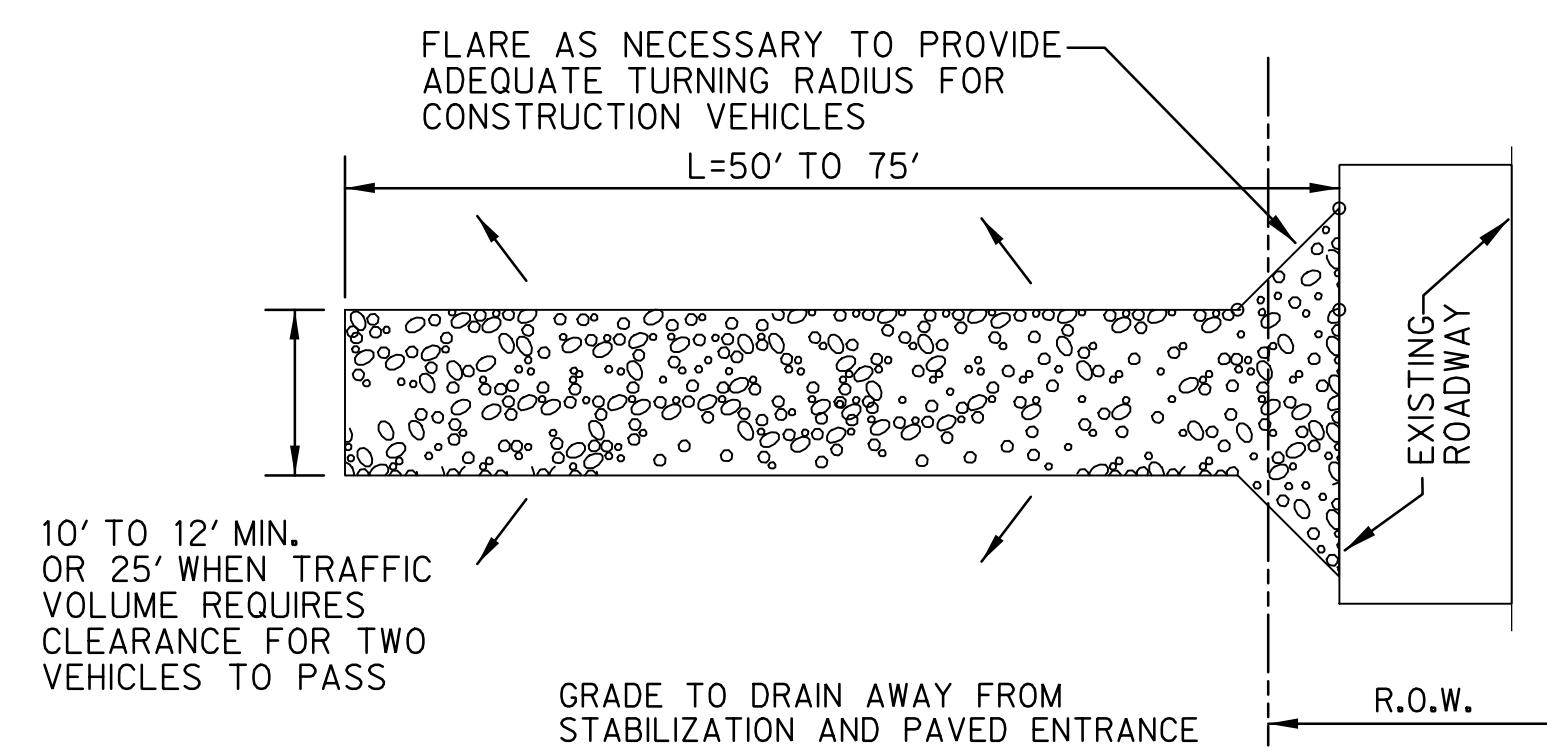


ELEVATION

MINIMUM FILTER FABRIC SPECS.

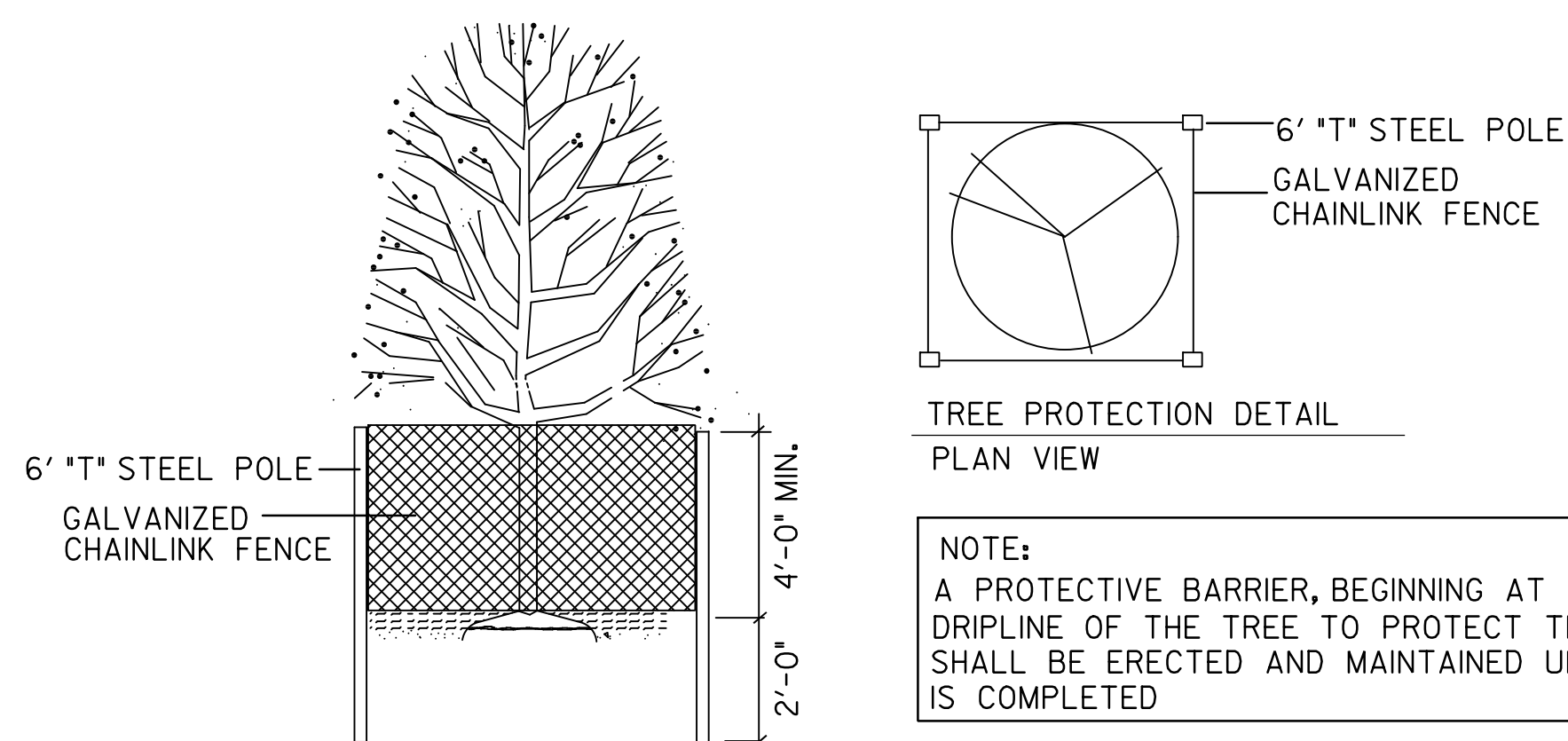
GRAB TENSILE STRENGTH	205 LBS. (ASTM D1682)
ELONGATION AT FAILURE	60% (ASTM D1682)
MULLEN BURST STRENGTH	255 LBS. (ASTM D3768)
PUNCTURE STRENGTH	80 LBS. (ASTM D751) (MODIFIED)
EQUIVALENT OPENING SIZE (EOS)	SIZE 40-80, (US. STD. SIEVE) (CW-02215)

*FILTER FABRIC IS NOT REQUIRED UNLESS A STABLE ENTRANCE CANNOT BE MAINTAINED WITH STONE ALONE.



PLAN VIEW

STABILIZED CONSTRUCTION ENTRANCE
N.T.S

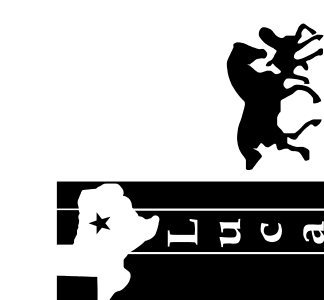


TREE PROTECTION DETAIL
PLAN VIEW

TREE PROTECTION DETAIL
N.T.S

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LUCAS, TEXAS



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James S. R. Gaertner 100431
NAME P.E. NO.
DATE 4/11/2014
TYPE FIRM # F-312

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DETAILS

C2.03
Sheet Number

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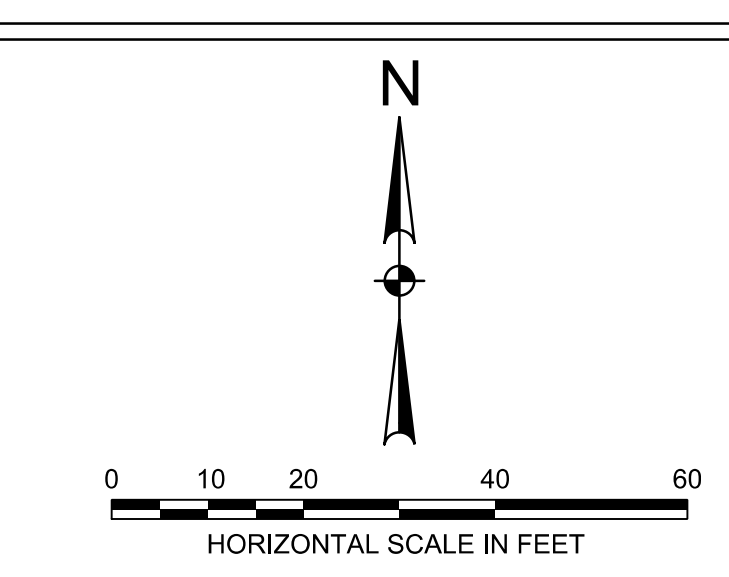
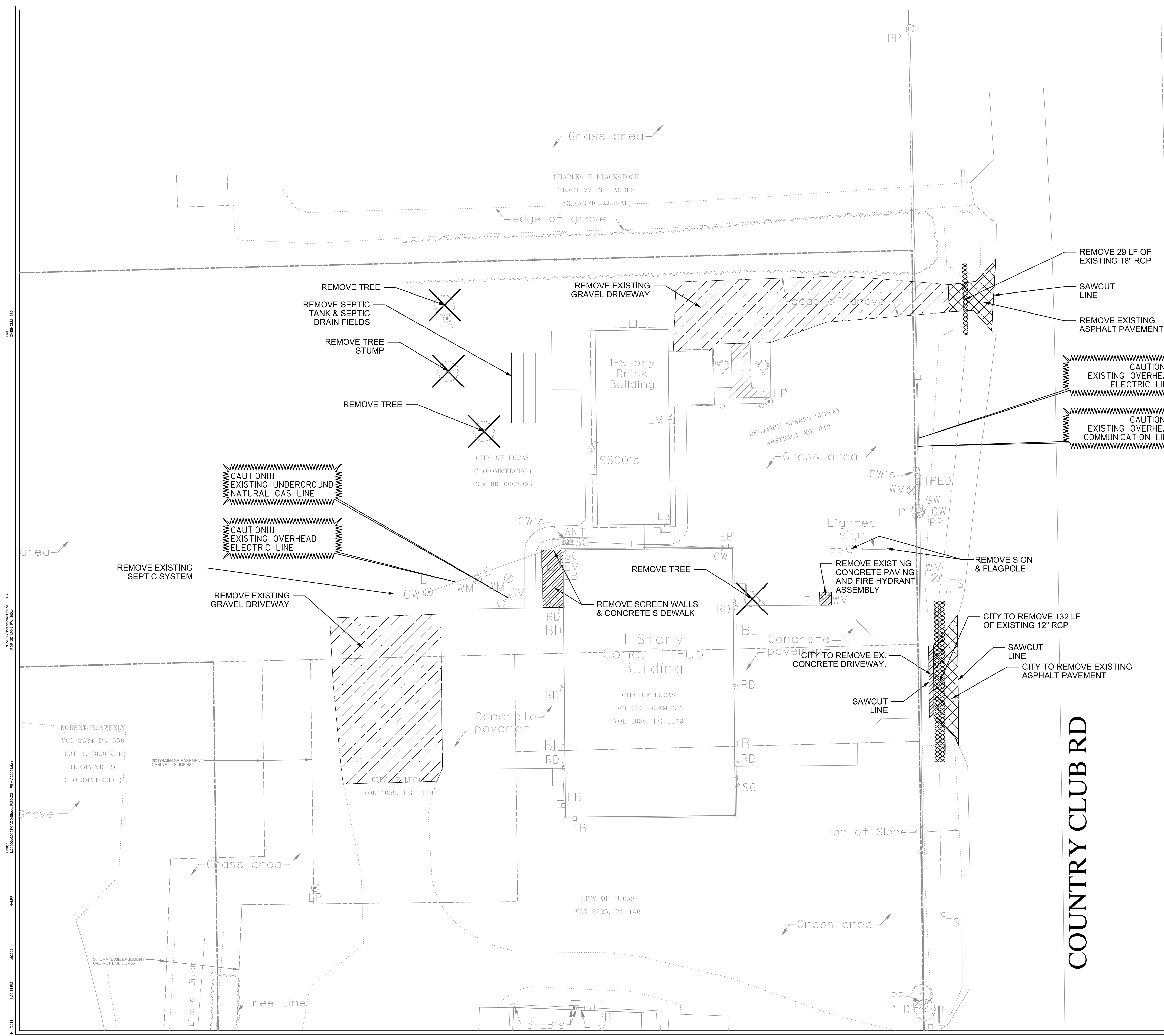
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Sheet No.

C2.03



CAUTION!!!
EXISTING UTILITIES IN THE AREA. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTACT AFFECTED UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION IN THIS AREA. (1-800-DIG-TESS)

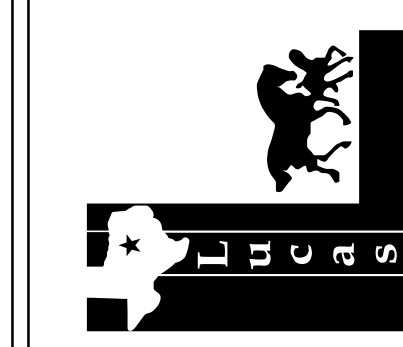
CAUTION!!!
UNDERGROUND AND OVERHEAD UTILITIES IN VICINITY. CONTRACTOR SHALL LOCATE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF CONSTRUCTION PRIOR TO COMMENCING WORK.

DEMOLITION LEGEND

- ASPHALT PAVEMENT TO BE SAWCUT AND REMOVED
- CONCRETE PAVEMENT TO BE SAWCUT AND REMOVED
- GRAVEL DRIVEWAY TO BE REMOVED
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- SAWCUT LINE
- STORM DRAIN TO BE REMOVED
- EXISTING TREE TO BE PROTECTED AND REMAIN IN PLACE
- EXISTING TREE TO BE REMOVED

- NOTES:**
1. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 2. FRANCHISE UTILITIES TO BE RELOCATED BY OTHERS AS REQUIRED
 3. REFER TO TRAFFIC CONTROL PLAN FOR CONSTRUCTION SEQUENCE
 4. REFER TO GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION.
 5. REFER TO PAVING PLAN FOR PROPOSED PAVING LIMITS
 6. DEMOLITION PLAN ELEMENTS AND QUANTITIES ARE APPROXIMATE AND ARE INTENDED TO PROVIDE GUIDANCE TO THE CONTRACTOR. DEMOLITION WORK SHALL BE INCLUDED IN THE ROADWAY PREPARATION BID ITEM. ADDITIONAL DEMOLITION MAY BE REQUIRED AS NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT. THIS ADDITIONAL WORK SHALL BE SUBSIDIARY TO THE ROADWAY PREPARATION BID ITEM.
 7. CONTRACTOR TO MEET WITH CITY TO DETERMINE TREES TO BE PROTECTED AND TREES TO BE REMOVED
 8. SAWCUT SIDEWALK TO NEAREST DUMMY JOINT.

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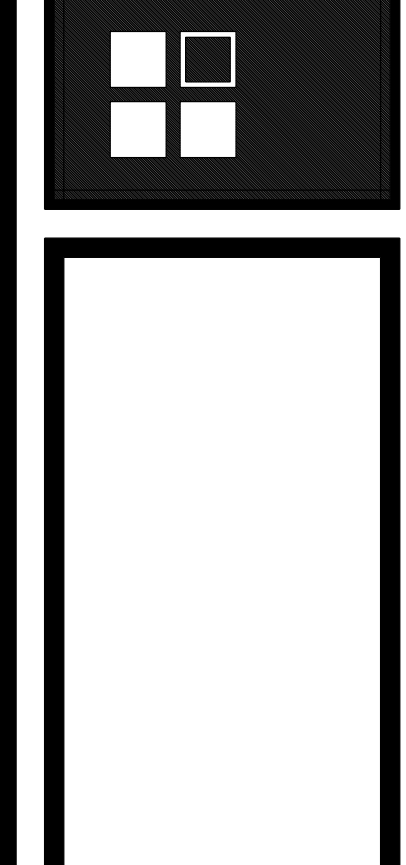
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Sheet Number	C2.11

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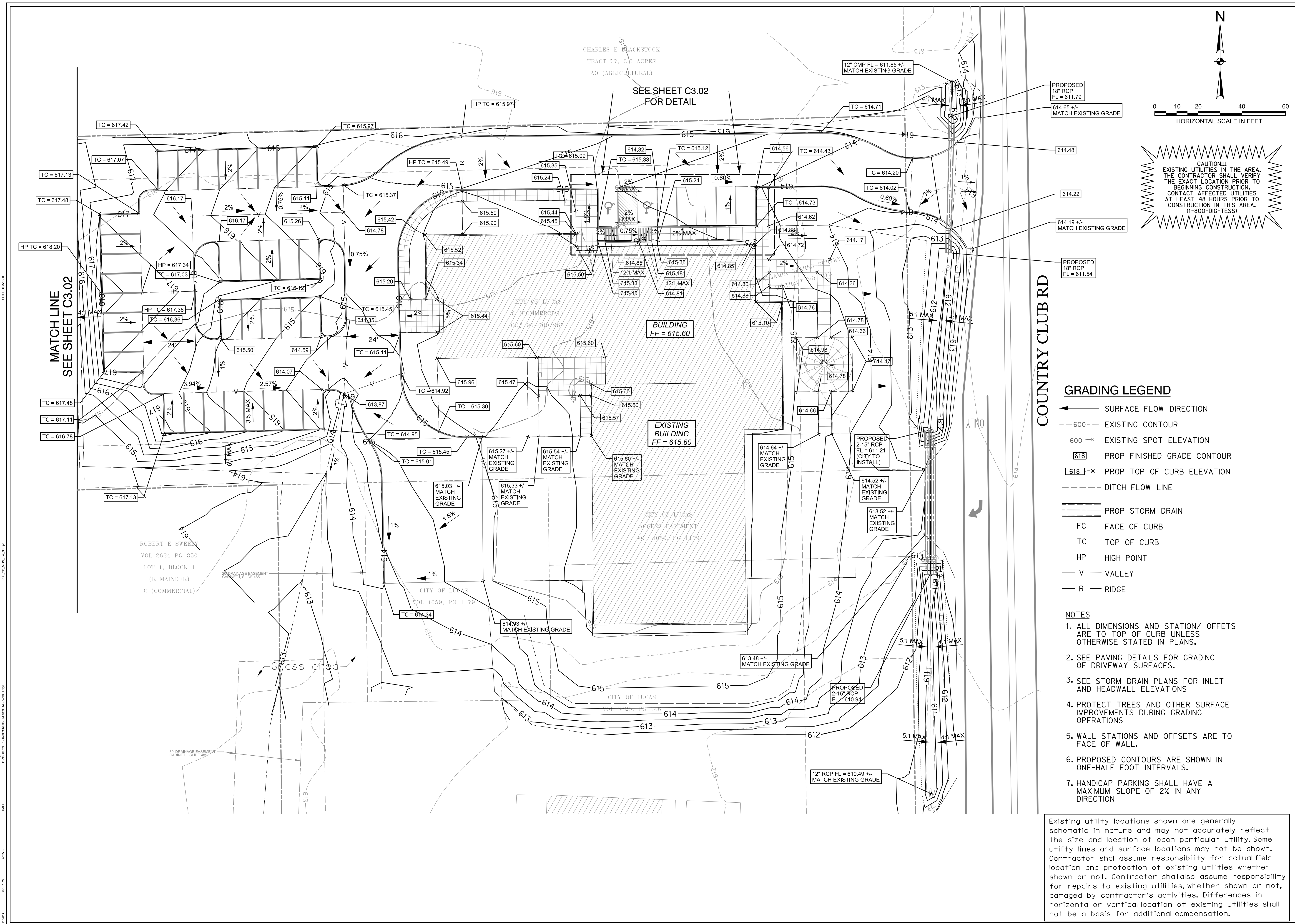
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Sheet No.
C2.11



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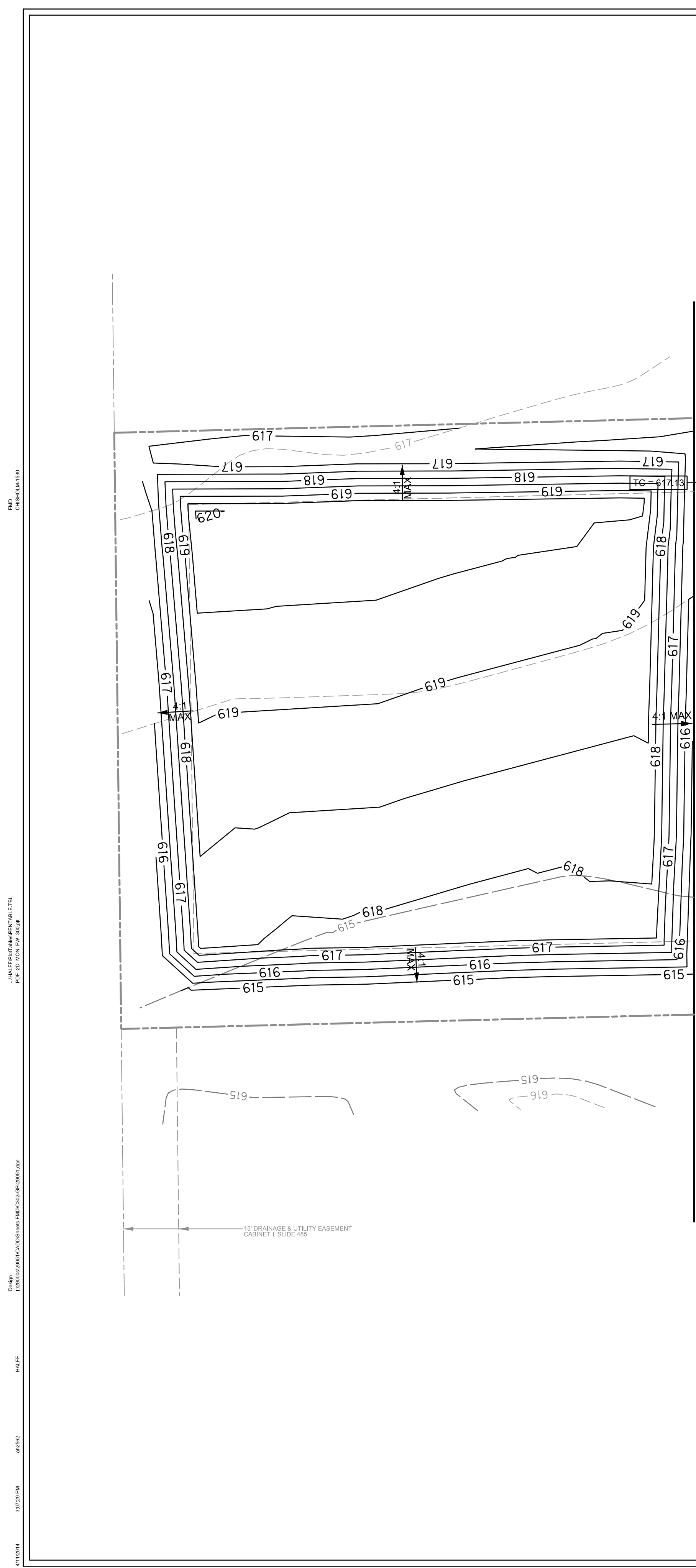
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GRADING PLAN
C3.01
Sheet Number

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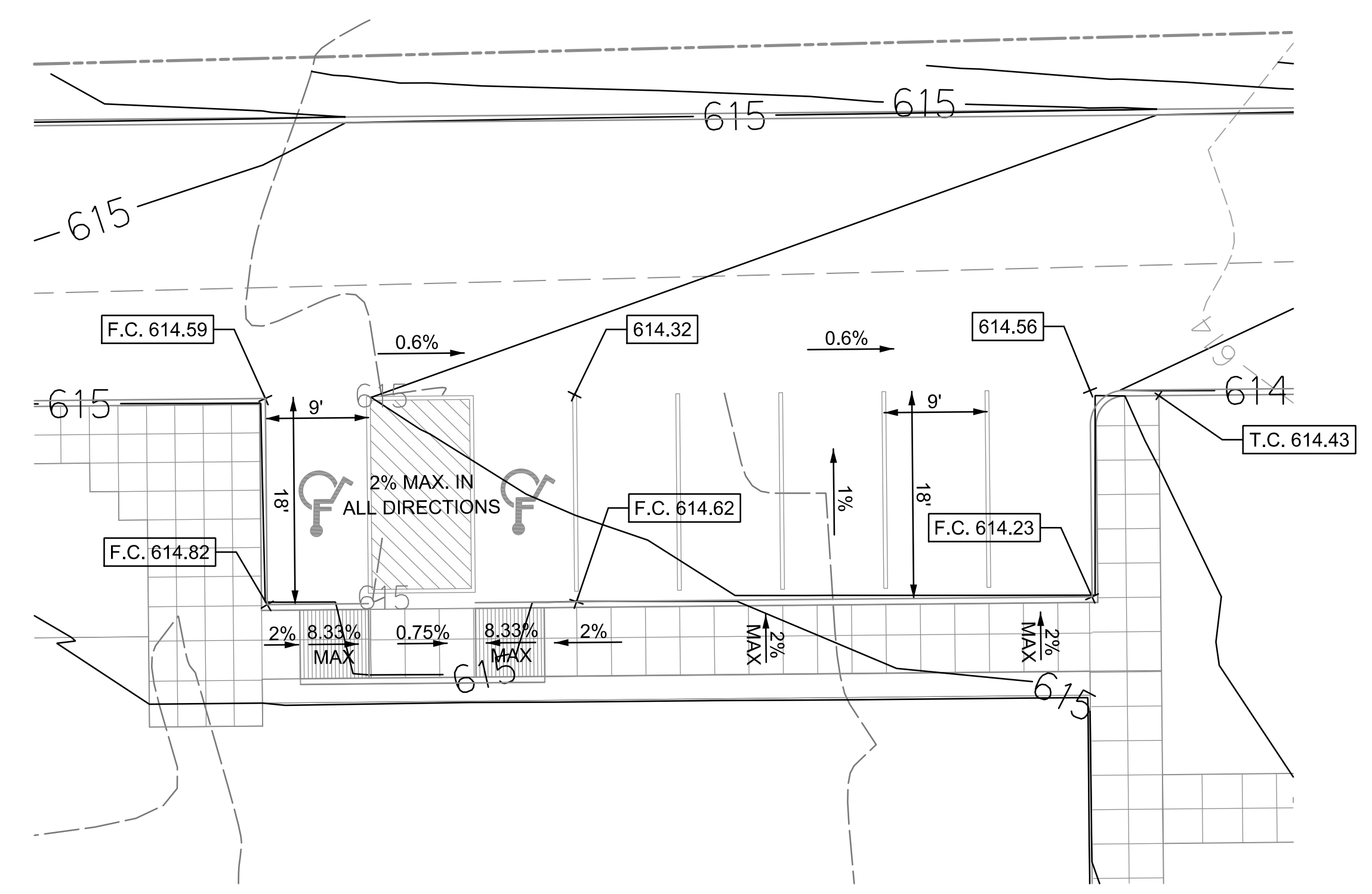
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Job No.
1215
Sheet No.
C3.01

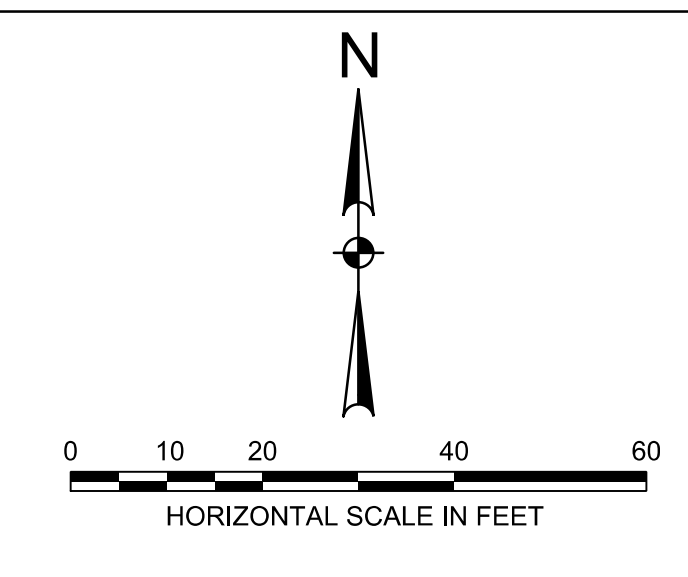


MATCH LINE
SEE SHEET C3.01



HANDICAP AND GENERAL PARKING
SCALE: 1"=40'

- NOTES**
1. T.C. = TOP OF CURB
 2. F.C. = FACE OF CURB
 3. HANDICAP SPACE AND REGULAR PARKING SPACES MEASURE 9' X 18'



GRADING LEGEND

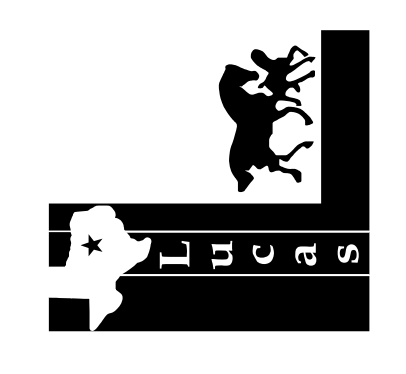
- > SURFACE FLOW DIRECTION
- 600- EXISTING CONTOUR
- 600-x EXISTING SPOT ELEVATION
- 618- PROP FINISHED GRADE CONTOUR
- 618-x PROP TOP OF CURB ELEVATION
- - - DITCH FLOW LINE
- - - PROP STORM DRAIN
- FC FACE OF CURB
- TC TOP OF CURB
- HP HIGH POINT
- V VALLEY
- R RIDGE

NOTES

1. ALL DIMENSIONS AND STATION/ OFFSETS ARE TO TOP OF CURB UNLESS OTHERWISE STATED IN PLANS.
2. SEE PAVING DETAILS FOR GRADING OF DRIVEWAY SURFACES.
3. SEE STORM DRAIN PLANS FOR INLET AND HEADWALL ELEVATIONS
4. PROTECT TREES AND OTHER SURFACE IMPROVEMENTS DURING GRADING OPERATIONS
5. WALL STATIONS AND OFFSETS ARE TO FACE OF WALL.
6. PROPOSED CONTOURS ARE SHOWN IN ONE-HALF FOOT INTERVALS.
7. HANDICAP PARKING SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION

Existing utility locations shown are generally schematic in nature and may not accurately reflect the size and location of each particular utility. Some utility lines and surface locations may not be shown. Contractor shall assume responsibility for actual field location and protection of existing utilities whether shown or not. Contractor shall also assume responsibility for repairs to existing utilities, whether shown or not, damaged by contractor's activities. Differences in horizontal or vertical location of existing utilities shall not be a basis for additional compensation.

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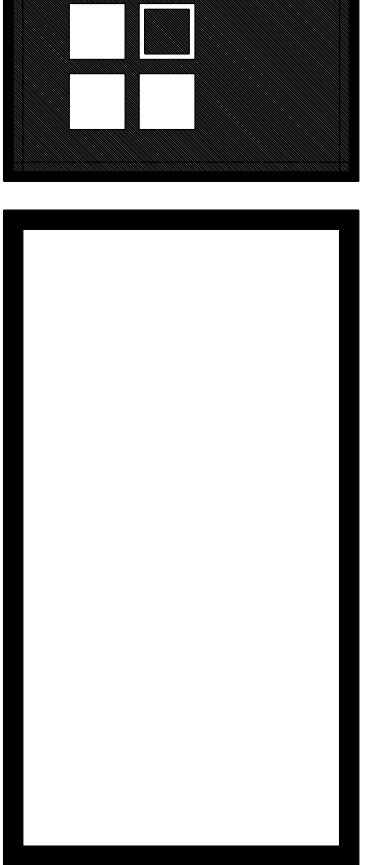
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GRADING PLAN
C3.02
Sheet Number

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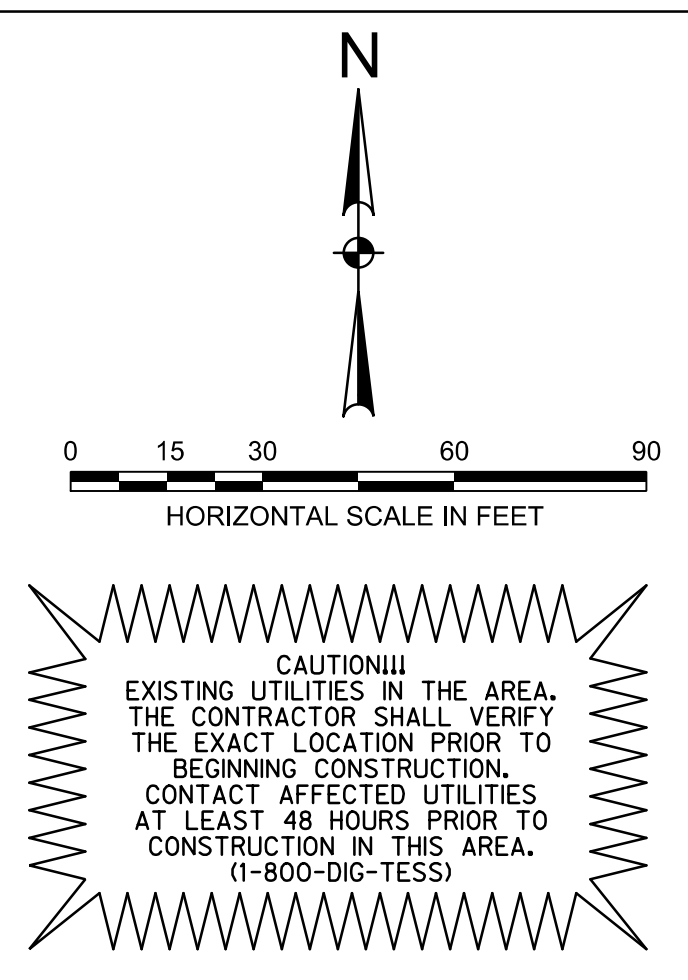
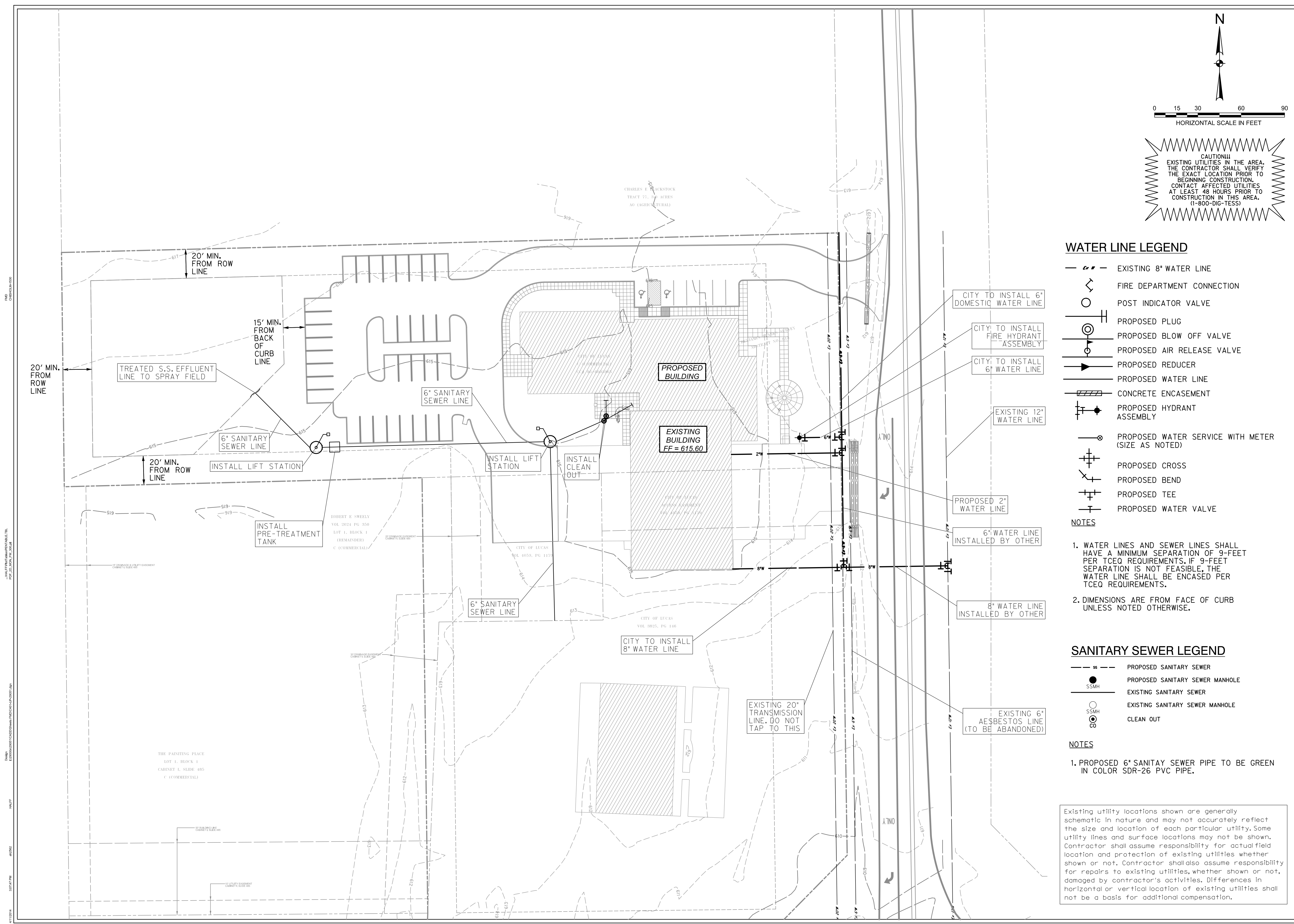
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Job No.
1215

Sheet No.
C3.02



CAUTION!
EXISTING UTILITIES IN THE AREA.
THE CONTRACTOR SHALL VERIFY
THE EXACT LOCATION PRIOR TO
BEGINNING CONSTRUCTION.
CONTACT AFFECTED UTILITIES
AT LEAST 48 HOURS PRIOR TO
CONSTRUCTION IN THIS AREA.
(1-800-DIG-TESS)

WATER LINE LEGEND

- EXISTING 8" WATER LINE
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- PROPOSED PLUG
- PROPOSED BLOW OFF VALVE
- PROPOSED AIR RELEASE VALVE
- PROPOSED REDUCER
- PROPOSED WATER LINE
- CONCRETE ENCASEMENT
- PROPOSED HYDRANT ASSEMBLY
- PROPOSED WATER SERVICE WITH METER (SIZE AS NOTED)
- PROPOSED CROSS
- PROPOSED BEND
- PROPOSED TEE
- PROPOSED WATER VALVE

NOTES

1. WATER LINES AND SEWER LINES SHALL HAVE A MINIMUM SEPARATION OF 9- FEET PER TCEO REQUIREMENTS. IF 9- FEET SEPARATION IS NOT FEASIBLE, THE WATER LINE SHALL BE ENCASED PER TCEO REQUIREMENTS.
2. DIMENSIONS ARE FROM FACE OF CURB UNLESS NOTED OTHERWISE.

SANITARY SEWER LEGEND

- PROPOSED SANITARY SEWER
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- CLEAN OUT

NOTES

1. PROPOSED 6" SANITARY SEWER PIPE TO BE GREEN IN COLOR SDR-26 PVC PIPE.

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WATER AND SANITARY SEWER PLAN
C4.01
Sheet Number

W LUCAS RD

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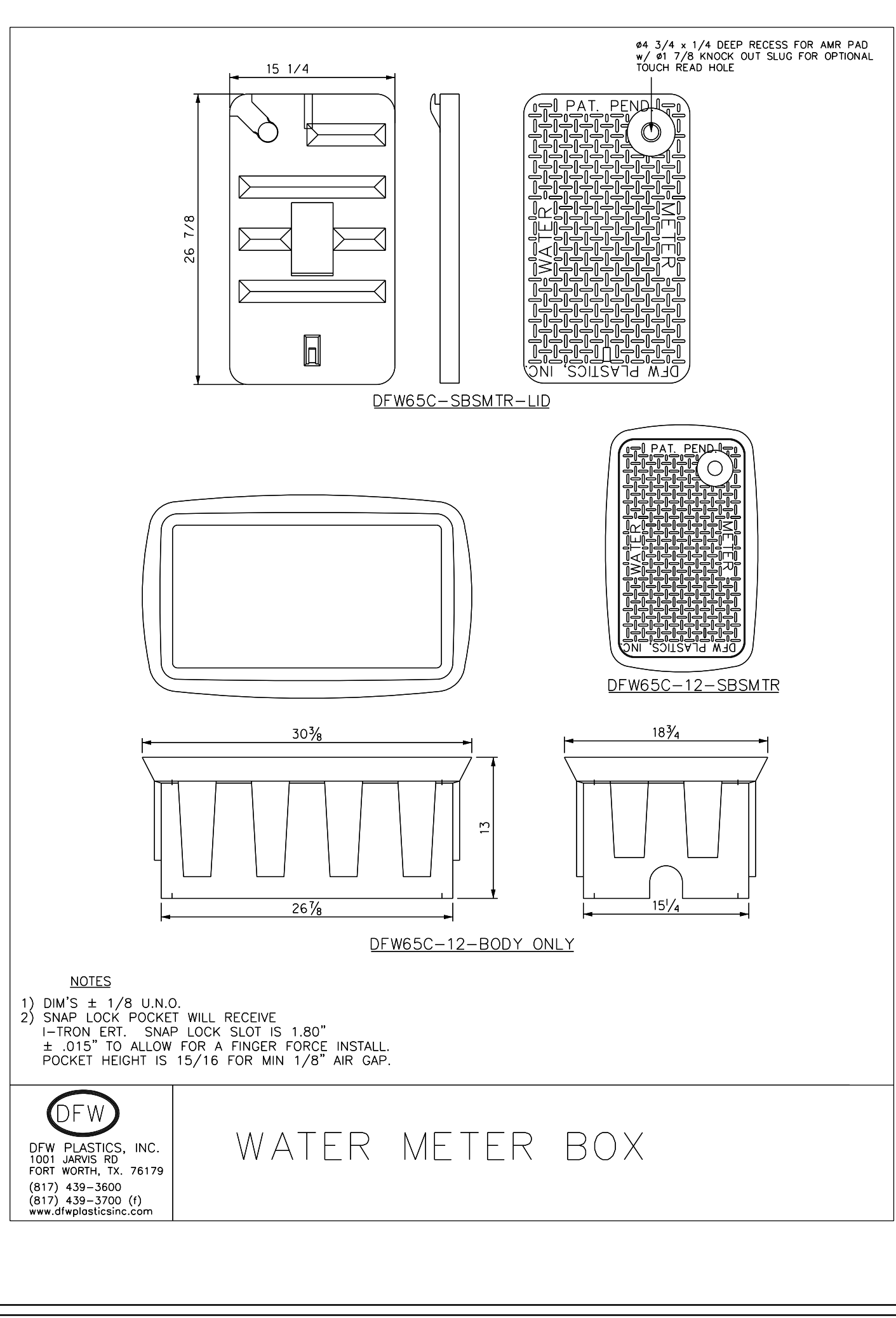
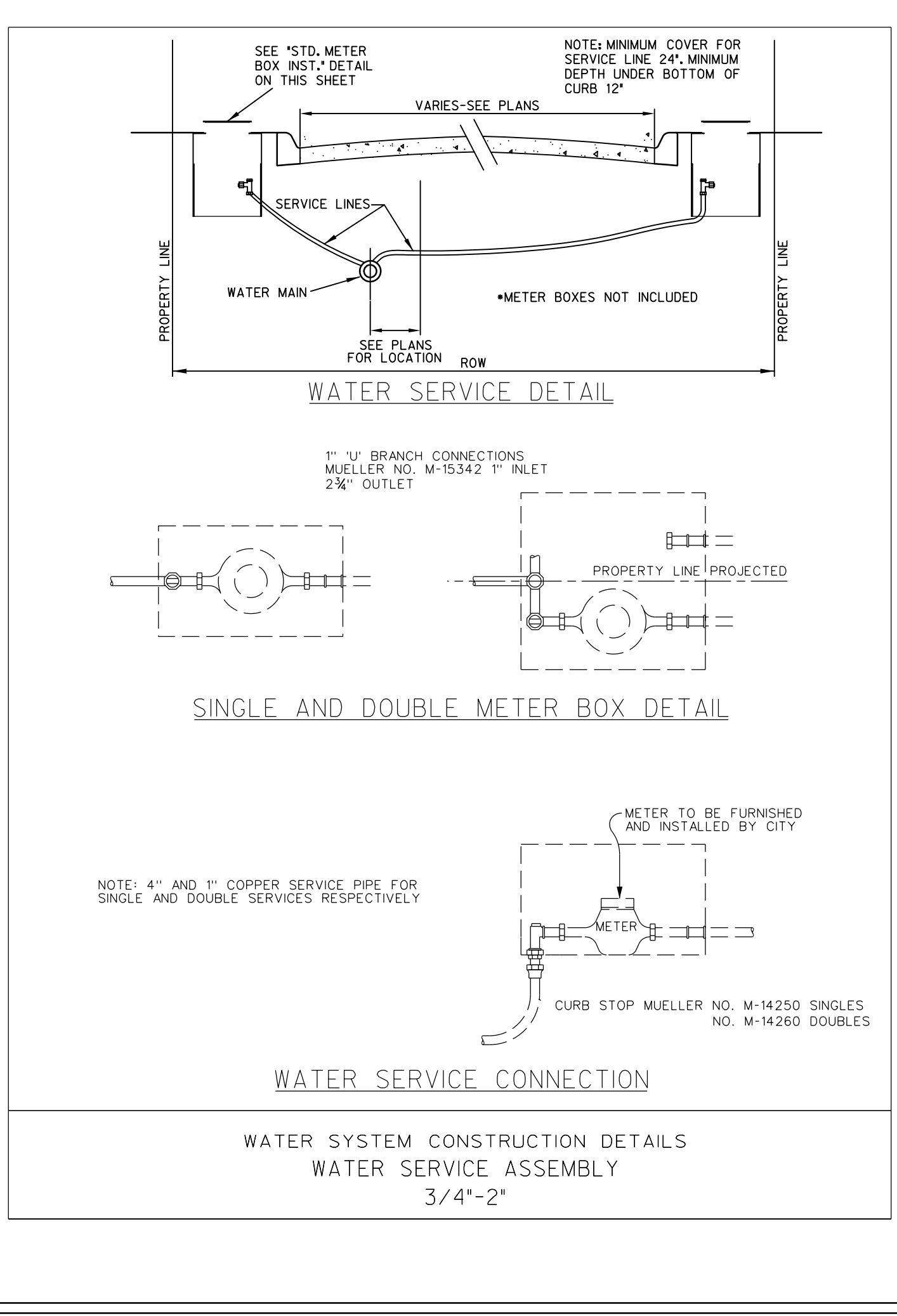
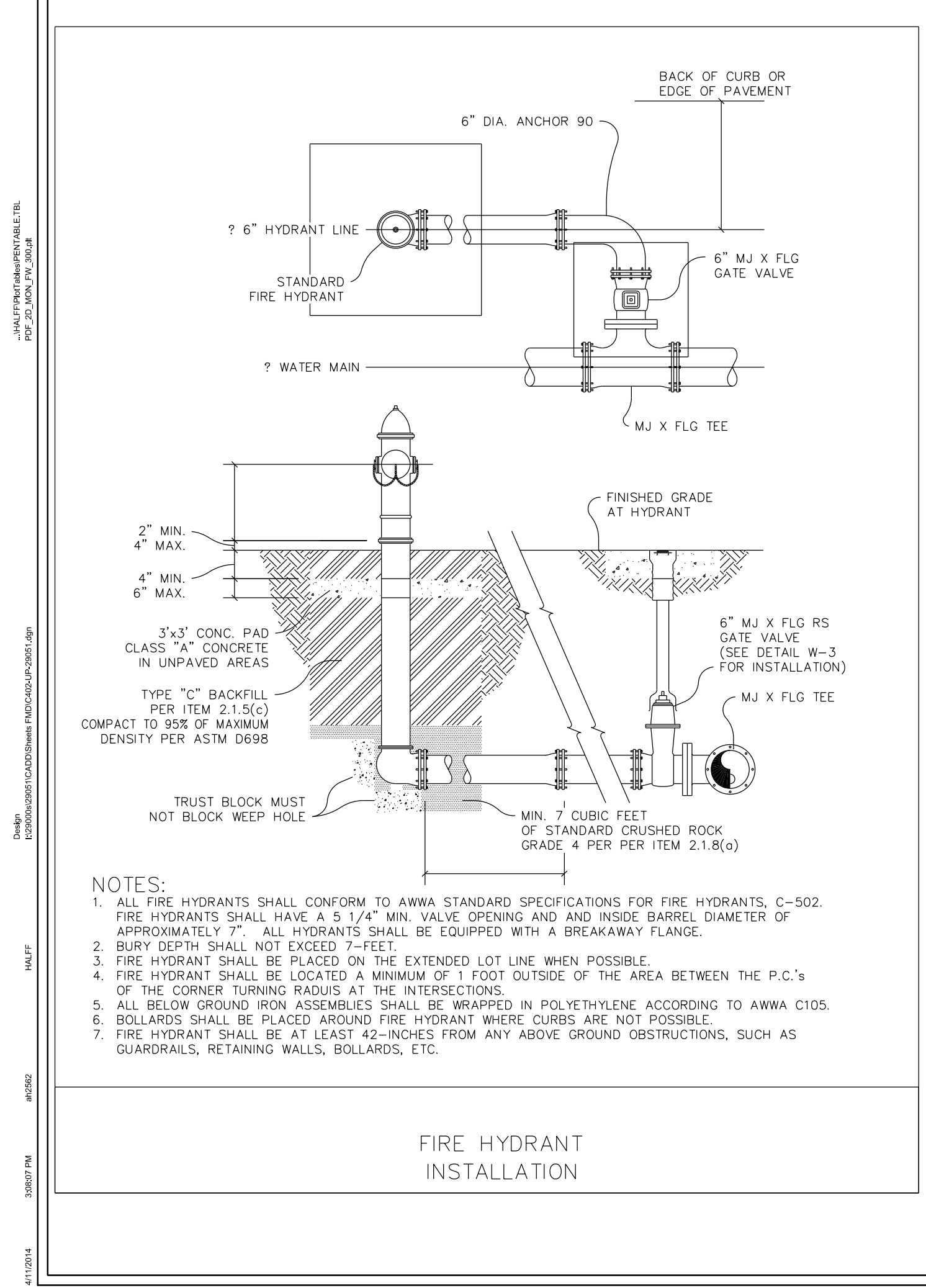
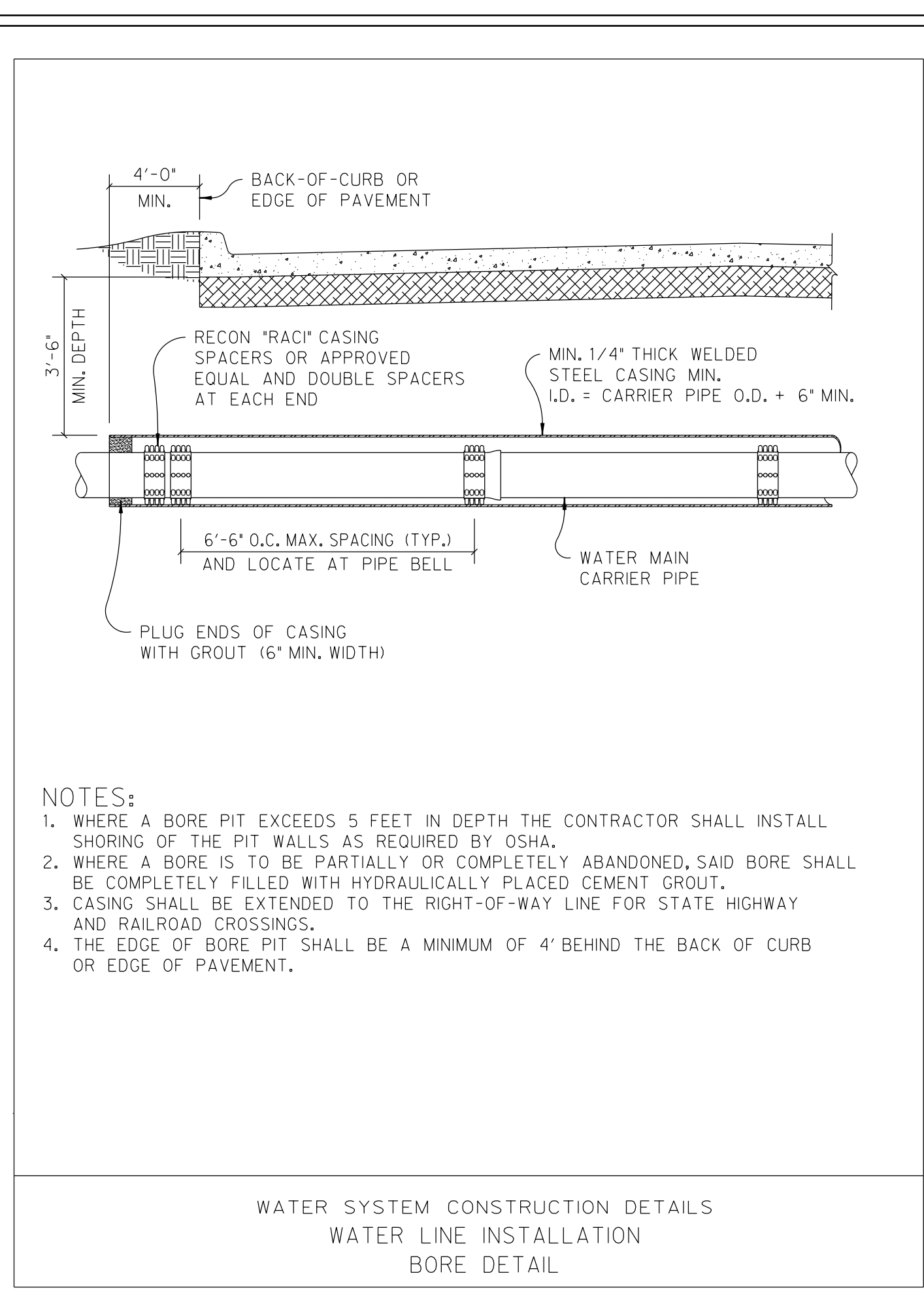
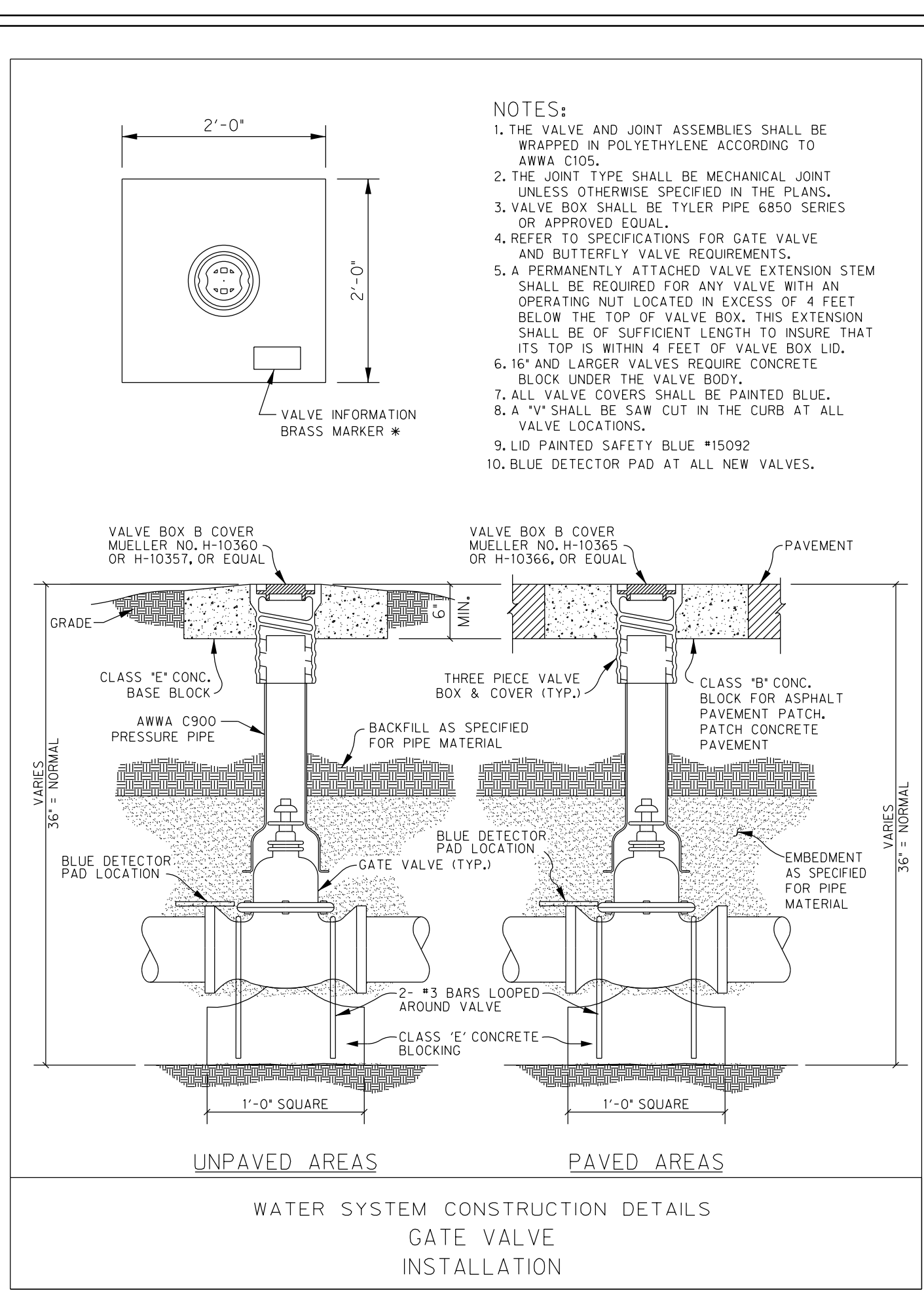
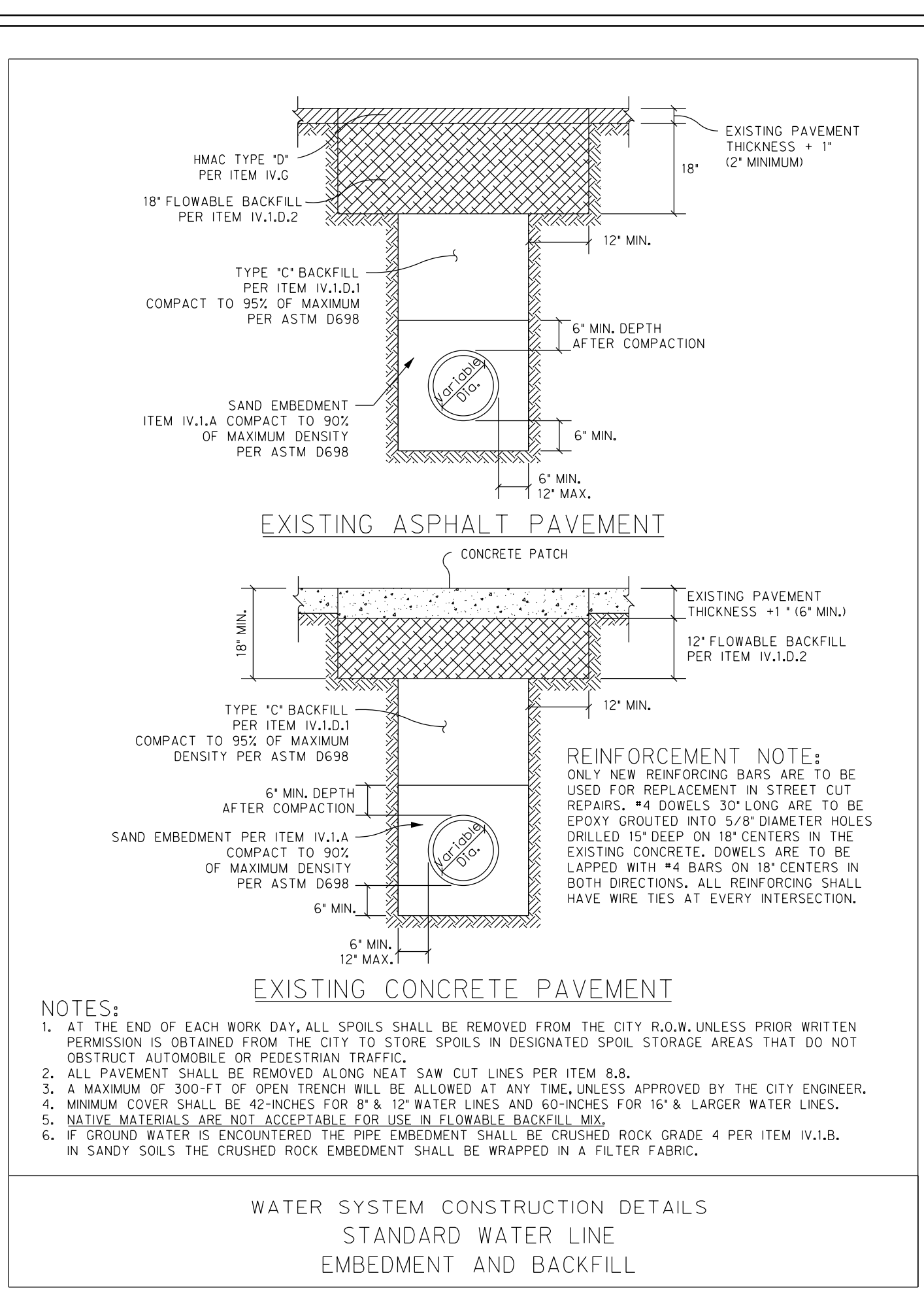
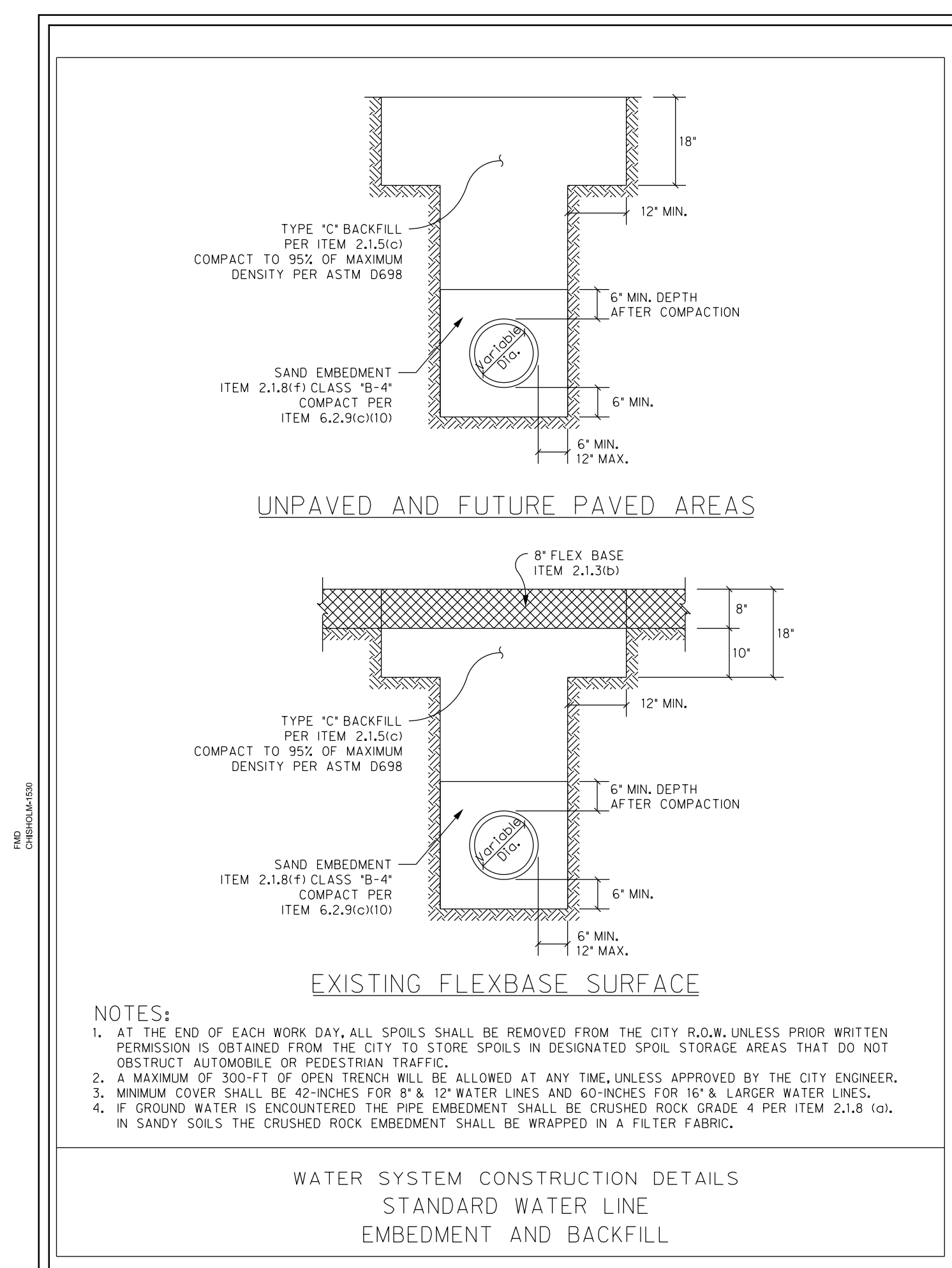
LUCAS CENTRAL FIRE STATION
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Job No.

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Sheet No.
C4.01



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FLOWER WOOD, TEXAS 75026-8609
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NAME P.E. NO.
DATE 4/11/2014
TYPE FIRM # F-312

Project No.: 28051
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Scale: AS NOTED
Sheet Title
WATERLINE DETAILS
(SHEET 1 OF 2)

C4.02
Sheet Number

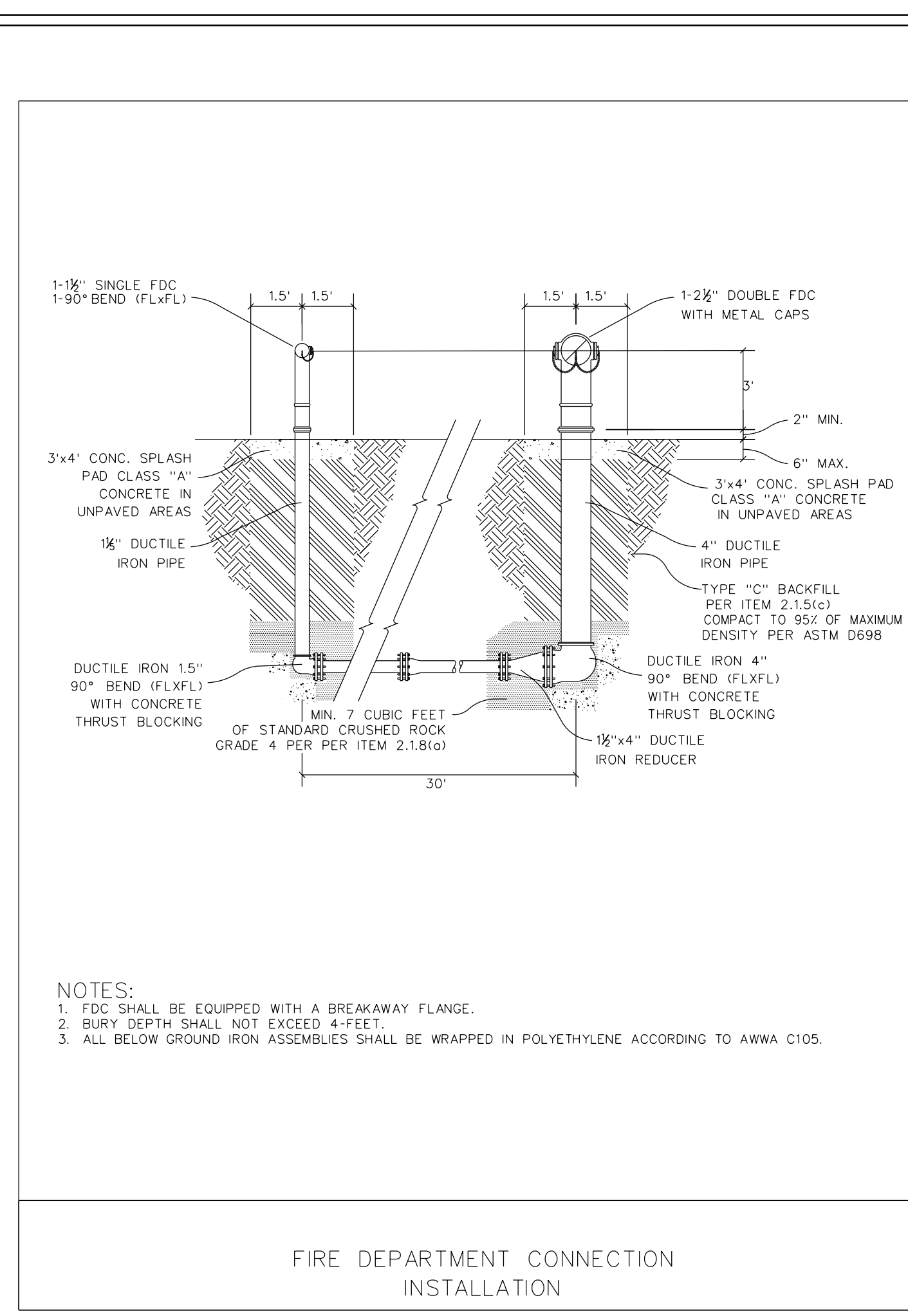
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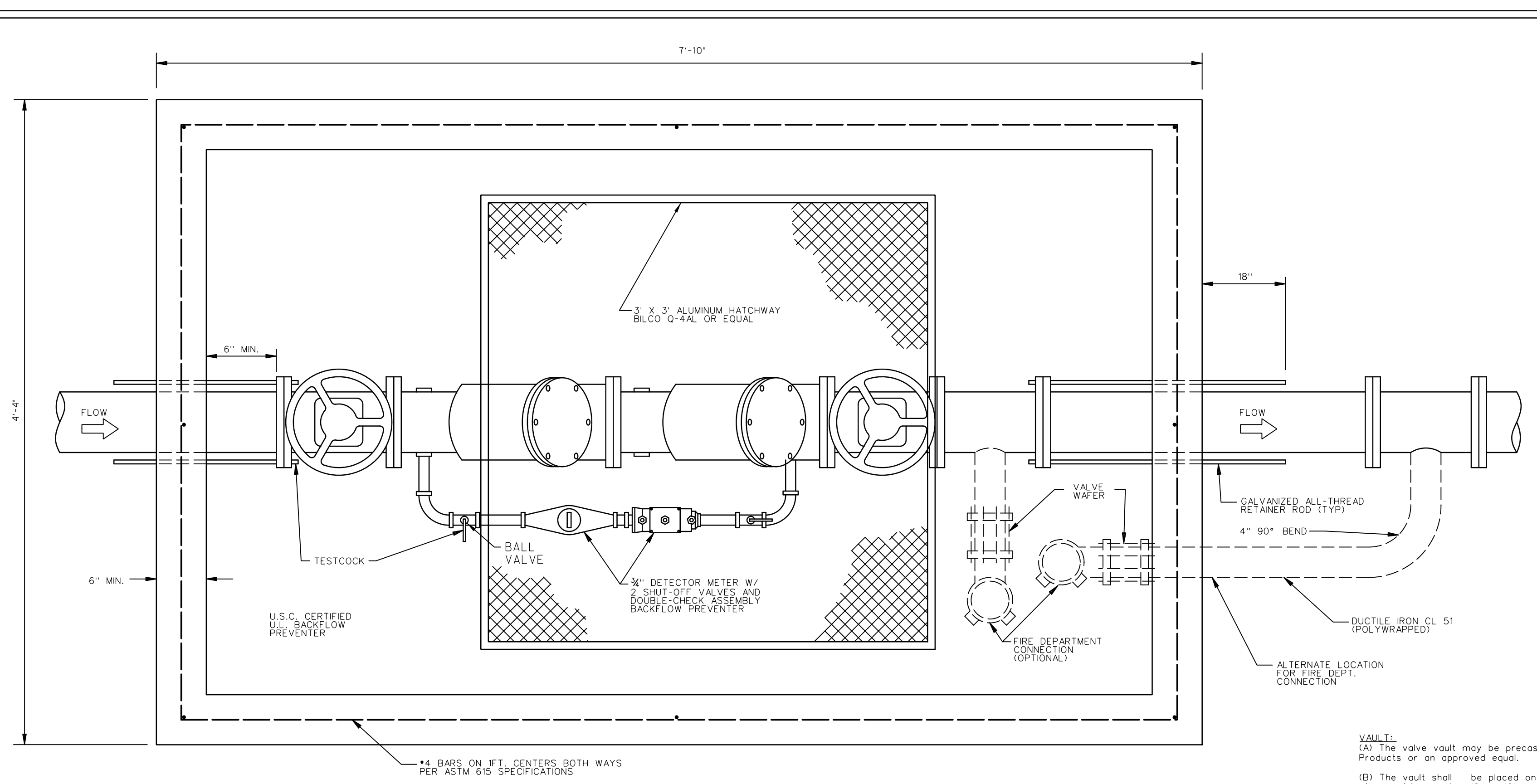
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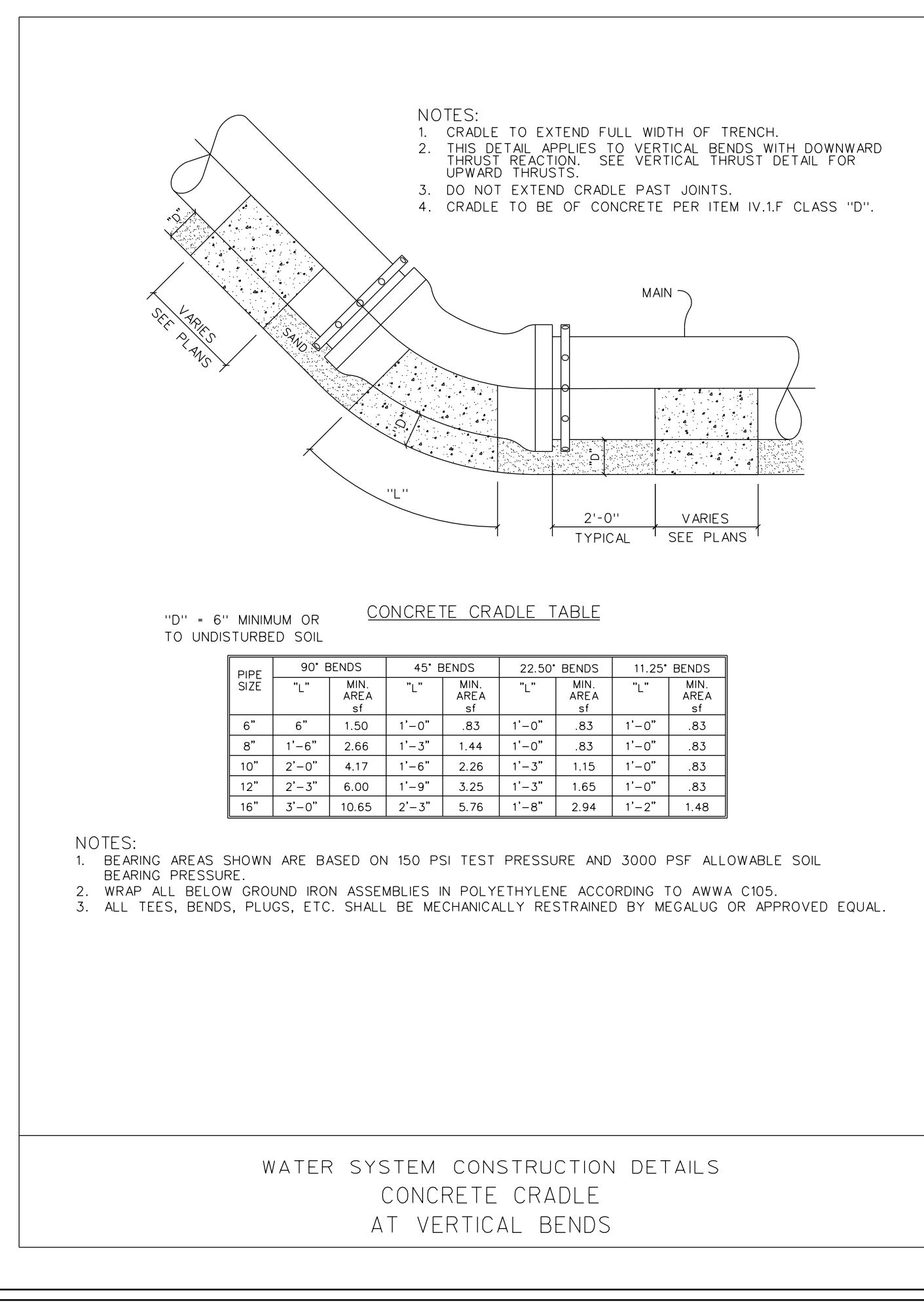
NOTES:
 1. FDC SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE.
 2. BURY DEPTH SHALL NOT EXCEED 4 FEET.
 3. ALL BELOW GROUND IRON ASSEMBLIES SHALL BE WRAPPED IN POLYETHYLENE ACCORDING TO AWWA C105.

FIRE DEPARTMENT CONNECTION INSTALLATION



WATER VAULT PLAN VIEW
N.T.S.

VAULT:
 (A) The vault shall be precast as per details of Dalworth Quikset or Brooks Products or an approved equal.
 (B) The vault shall be placed on 8-inches crushed limestone and the vault shall have a sump with a minimum of a 12" x 12" grate in the bottom of the vault for drain purposes.
 (C) Concrete shall be minimum 6.5 sacks, with 4200 P.S.I. at 28 days.
 (D) Unit is to be of monolithic construction at floor and first stage of wall with sectional frame.
 (E) Reinforcement shall be Grade 60 steel Rebar conforming to ASTM A-615 on required centers or equal.
 (F) Hatchway shall be 1/4-inch Aluminum Diamond Plate Cover with extruded aluminum frame. Hatch to be furnished with 316 stainless steel snap lock and brass hinges.

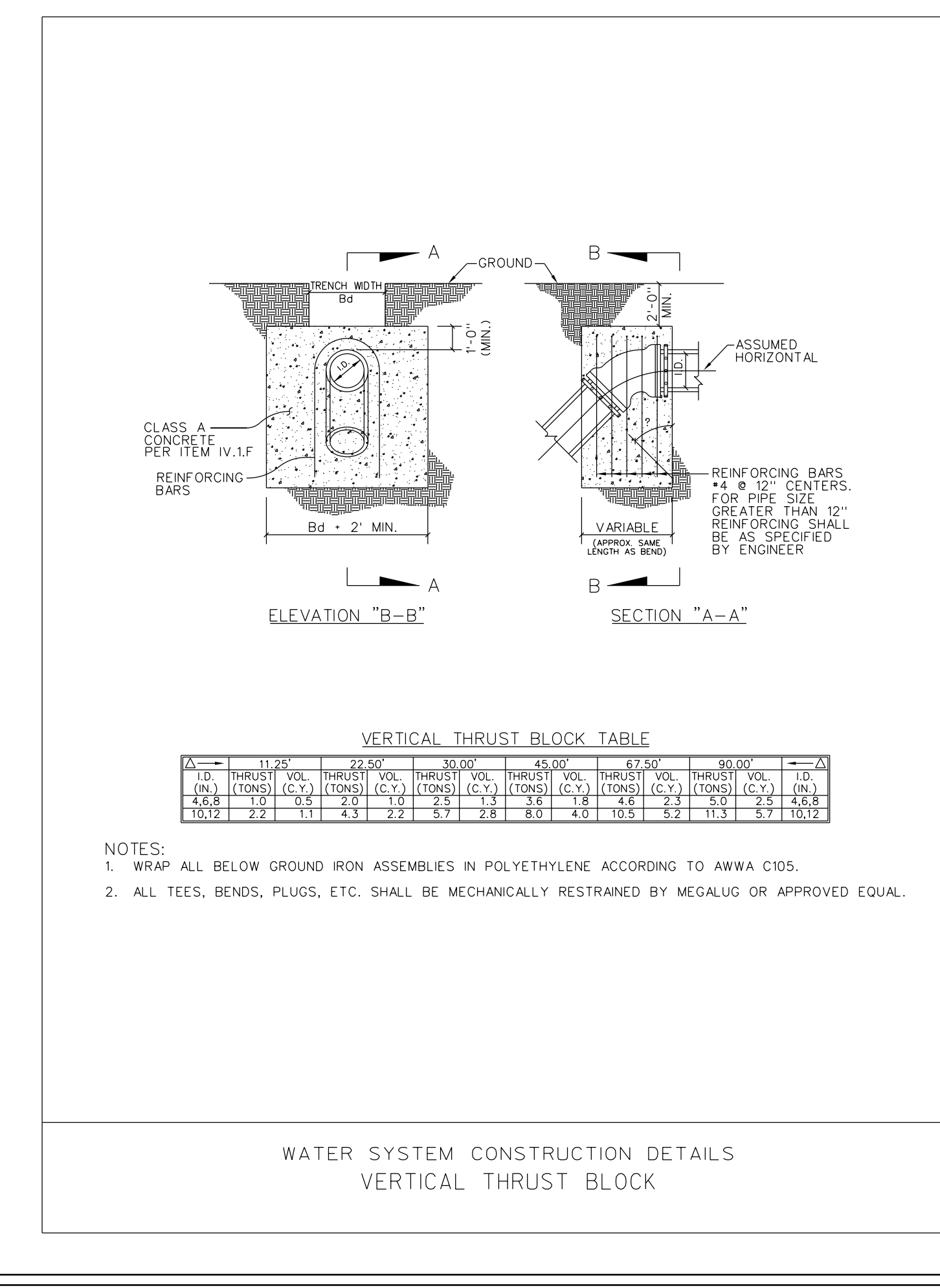


CONCRETE CRADLE TABLE

PIPE SIZE	90° BENDS		45° BENDS		22.50° BENDS		11.25° BENDS	
	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA
6"	1.50	1.40	.83	1.40	.83	1.40	.83	1.40
8"	1.84	1.73	1.44	1.70	.83	1.70	.83	1.70
10"	4.17	1.84	2.26	1.70	1.15	1.70	.83	1.70
12"	2.37	6.00	1.91	3.25	1.65	1.70	.83	1.70
16"	3.07	10.65	2.37	5.78	1.87	2.84	1.27	1.48

NOTES:
 1. BEARING AREAS SHOWN ARE BASED ON 150 PSI TEST PRESSURE AND 3000 PSF ALLOWABLE SOIL BEARING PRESSURE.
 2. WRAP ALL BELOW GROUND IRON ASSEMBLIES IN POLYETHYLENE ACCORDING TO AWWA C105.
 3. ALL TEES, BENDS, PLUGS, ETC. SHALL BE MECHANICALLY RESTRAINED BY MEGALUG OR APPROVED EQUAL.

WATER SYSTEM CONSTRUCTION DETAILS
CONCRETE CRADLE
AT VERTICAL BENDS

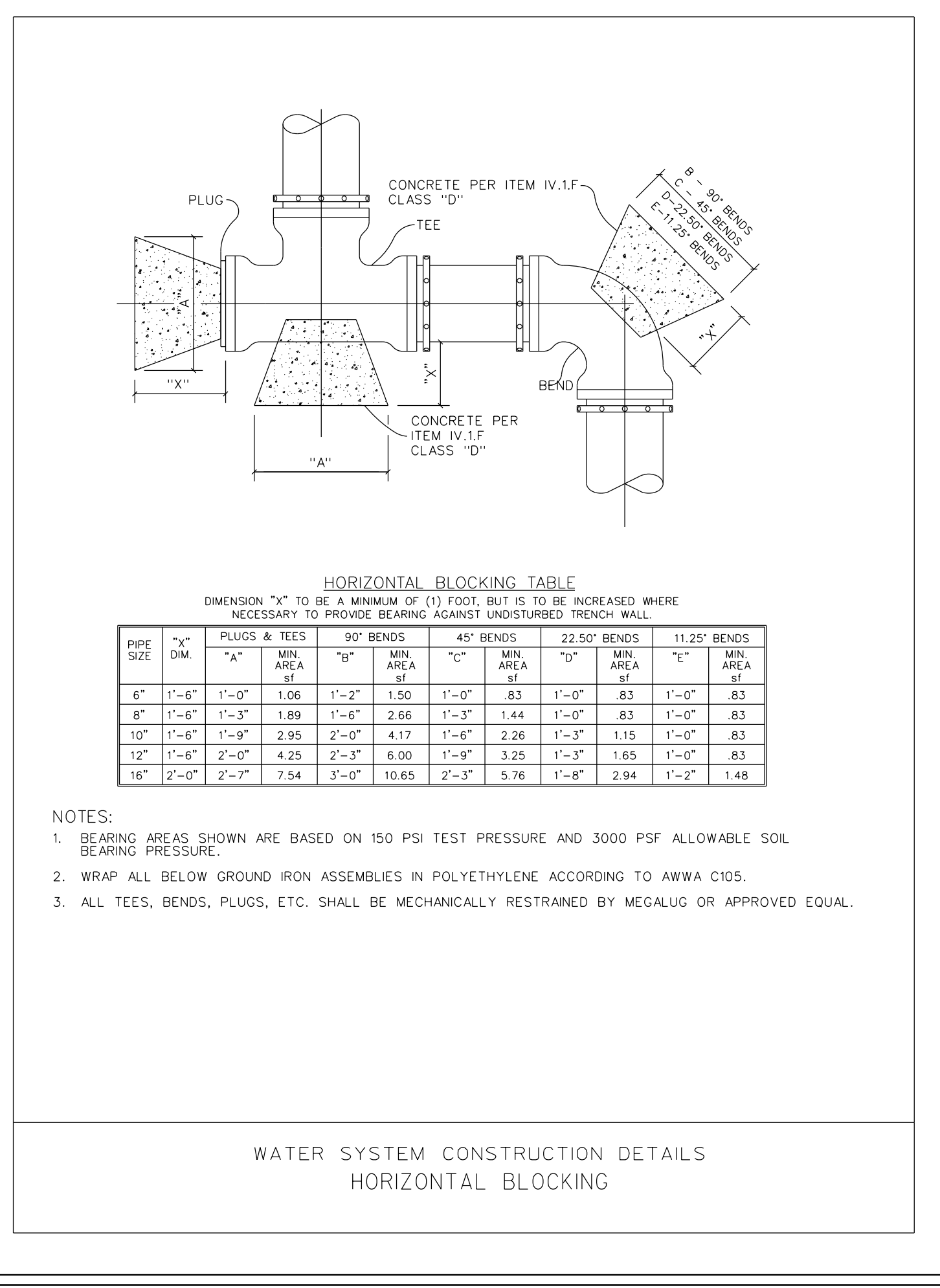


VERTICAL THRUST BLOCK TABLE

PIPE SIZE	11.25°		22.50°		30.00°		35.00°		45.00°		60.00°	
	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	
6"	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	
8"	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	
10"	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	
12"	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	
16"	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	

NOTES:
 1. WRAP ALL BELOW GROUND IRON ASSEMBLIES IN POLYETHYLENE ACCORDING TO AWWA C105.
 2. ALL TEES, BENDS, PLUGS, ETC. SHALL BE MECHANICALLY RESTRAINED BY MEGALUG OR APPROVED EQUAL.

WATER SYSTEM CONSTRUCTION DETAILS
VERTICAL THRUST BLOCK



HORIZONTAL BLOCKING TABLE

PIPE SIZE	PLUGS & TEES		90° BENDS		45° BENDS		22.50° BENDS		11.25° BENDS	
	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA	MIN. AREA
6"	1.06	1.27	1.50	1.07	.83	1.07	.83	1.07	.83	1.07
8"	1.88	1.87	2.66	1.37	1.44	1.07	.83	1.07	.83	1.07
10"	1.99	2.95	2.07	4.17	1.67	2.26	1.57	1.15	1.07	.83
12"	1.87	2.07	4.25	2.37	6.00	1.97	3.25	1.65	1.07	.83
16"	2.07	2.07	7.54	2.07	10.83	2.37	5.76	1.87	2.94	1.27

NOTES:
 1. BEARING AREAS SHOWN ARE BASED ON 150 PSI TEST PRESSURE AND 3000 PSF ALLOWABLE SOIL BEARING PRESSURE.
 2. WRAP ALL BELOW GROUND IRON ASSEMBLIES IN POLYETHYLENE ACCORDING TO AWWA C105.
 3. ALL TEES, BENDS, PLUGS, ETC. SHALL BE MECHANICALLY RESTRAINED BY MEGALUG OR APPROVED EQUAL.

WATER SYSTEM CONSTRUCTION DETAILS
HORIZONTAL BLOCKING

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LUCAS, TEXAS
FLOWER WOUND, TEXAS 75028-8629
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DATE 4/11/2014
TYPE FIRM # F-312

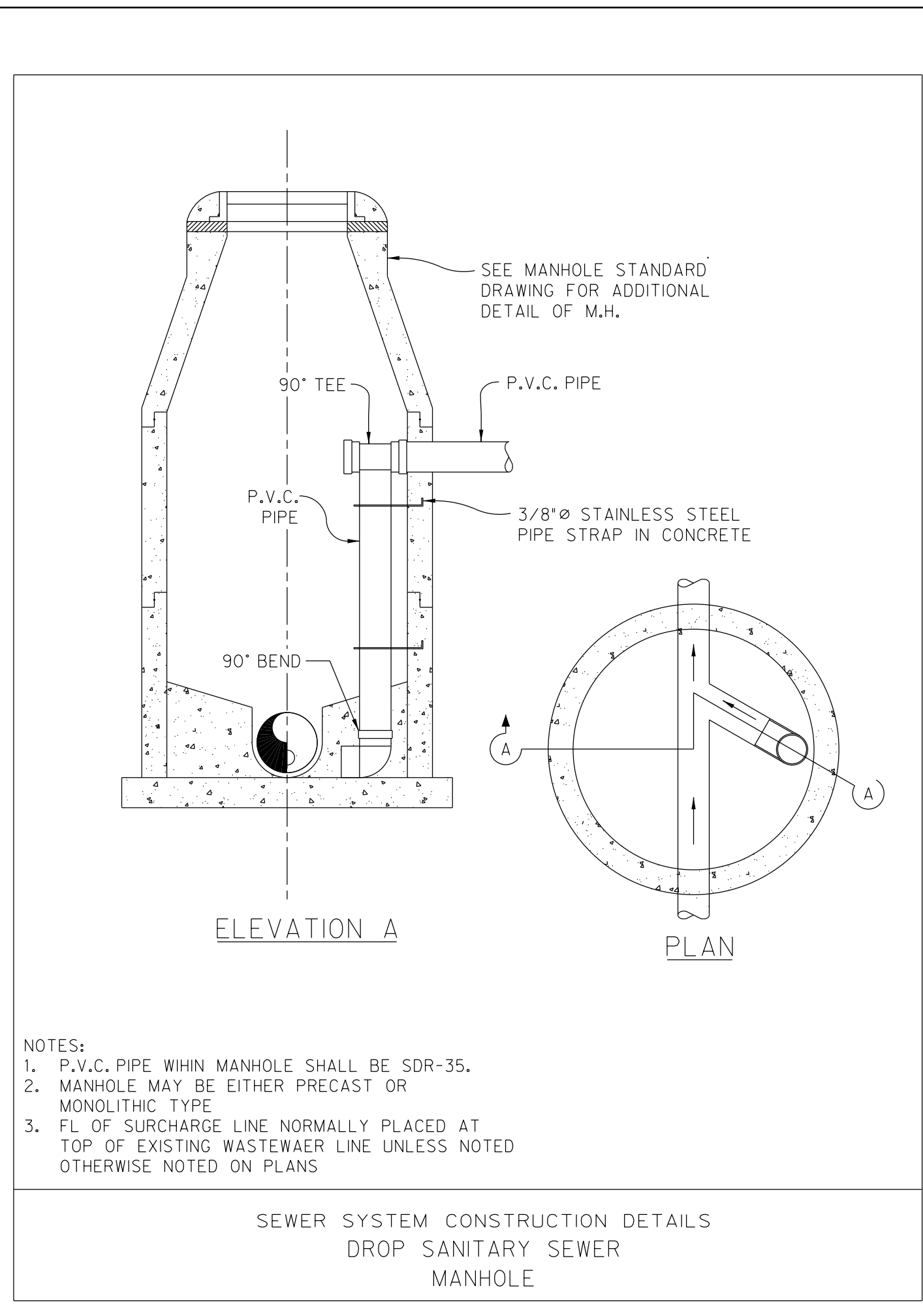
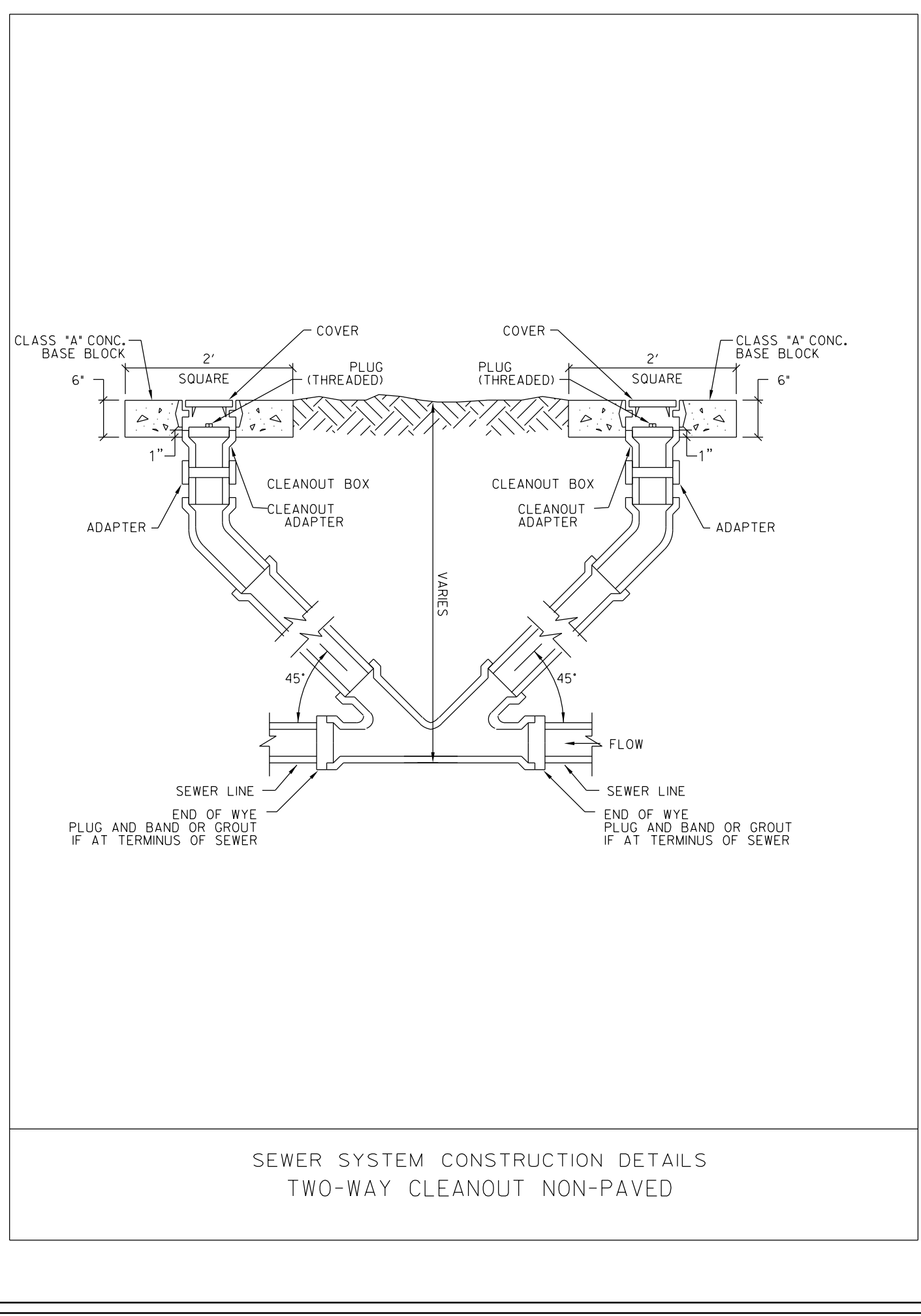
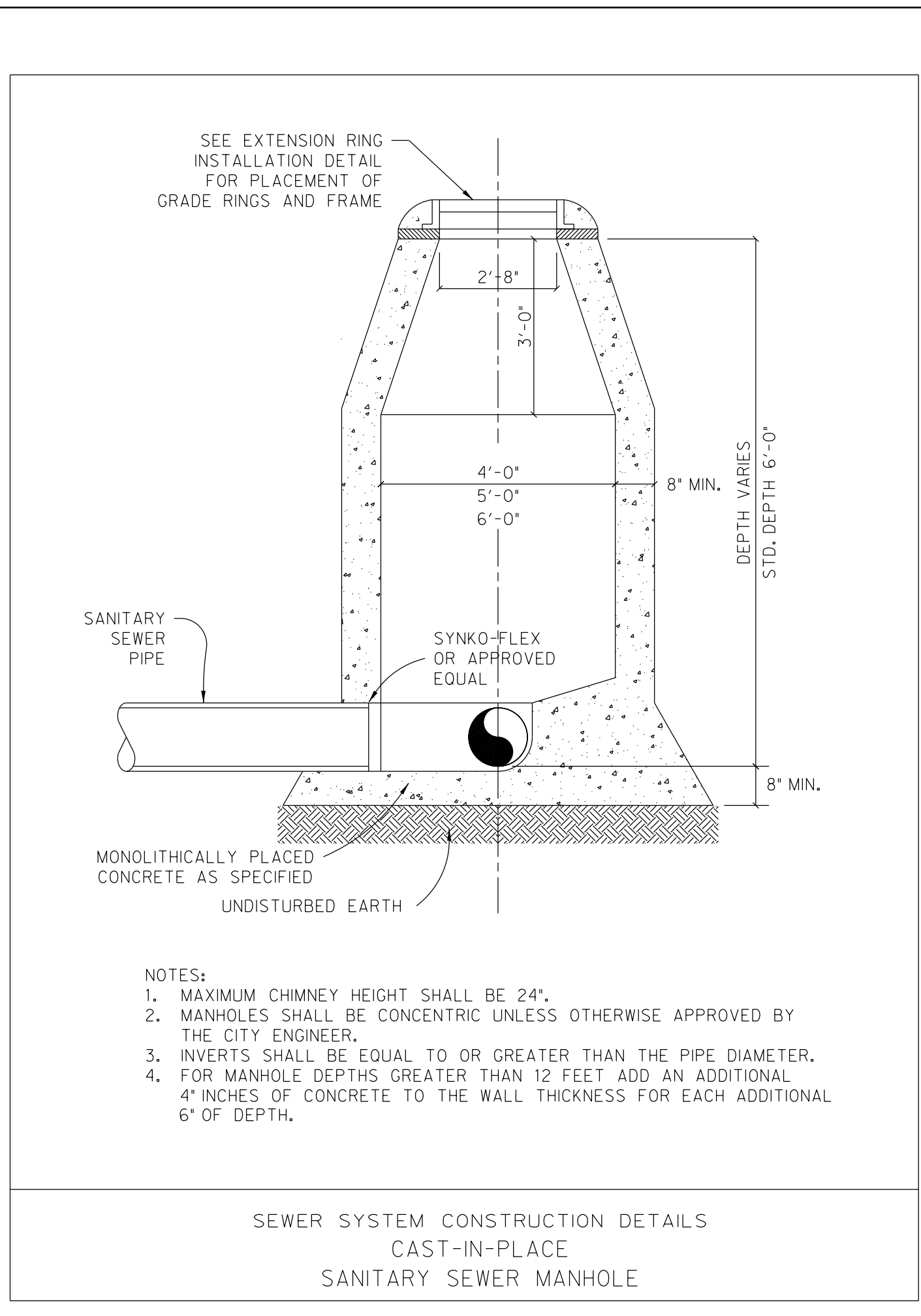
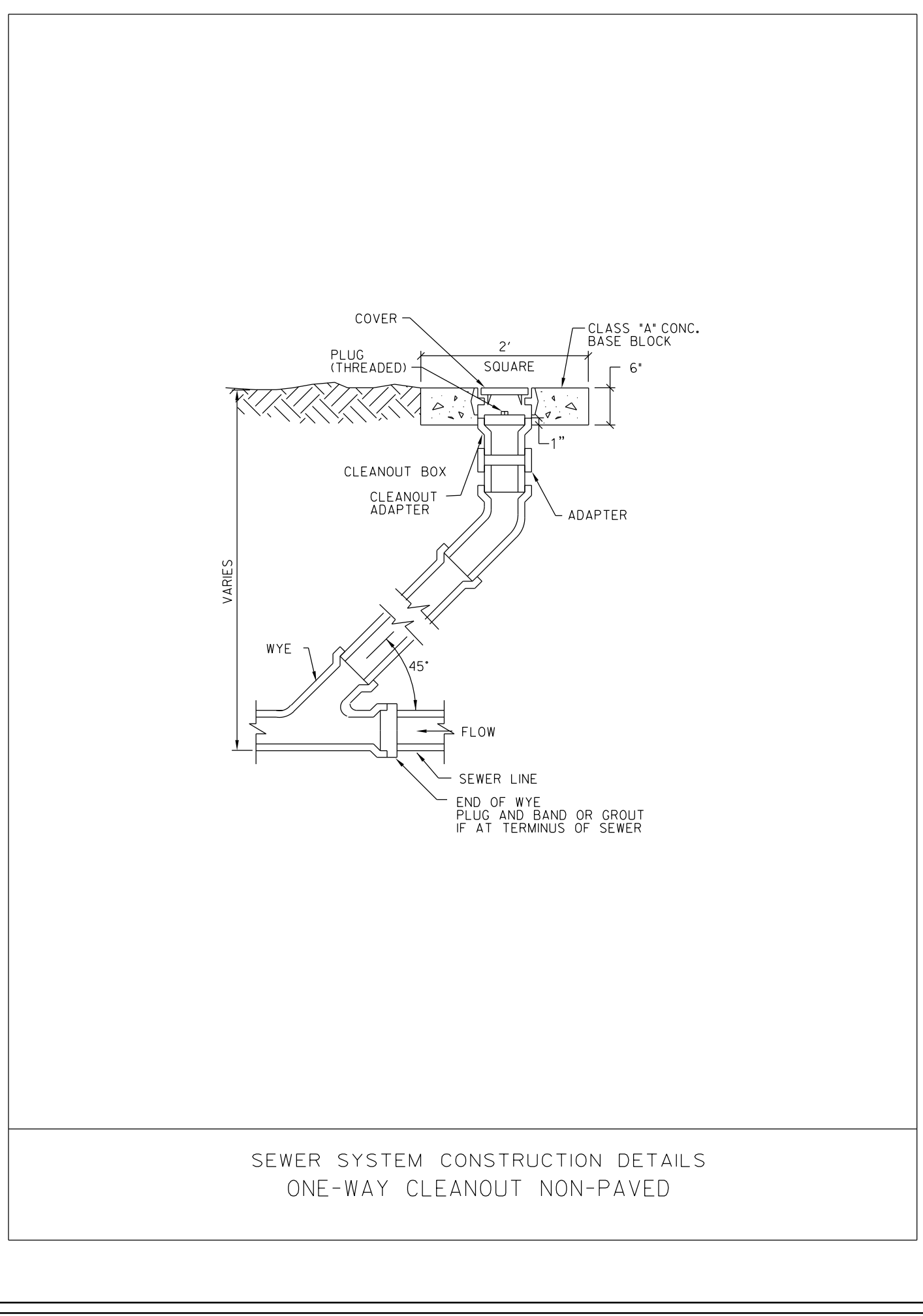
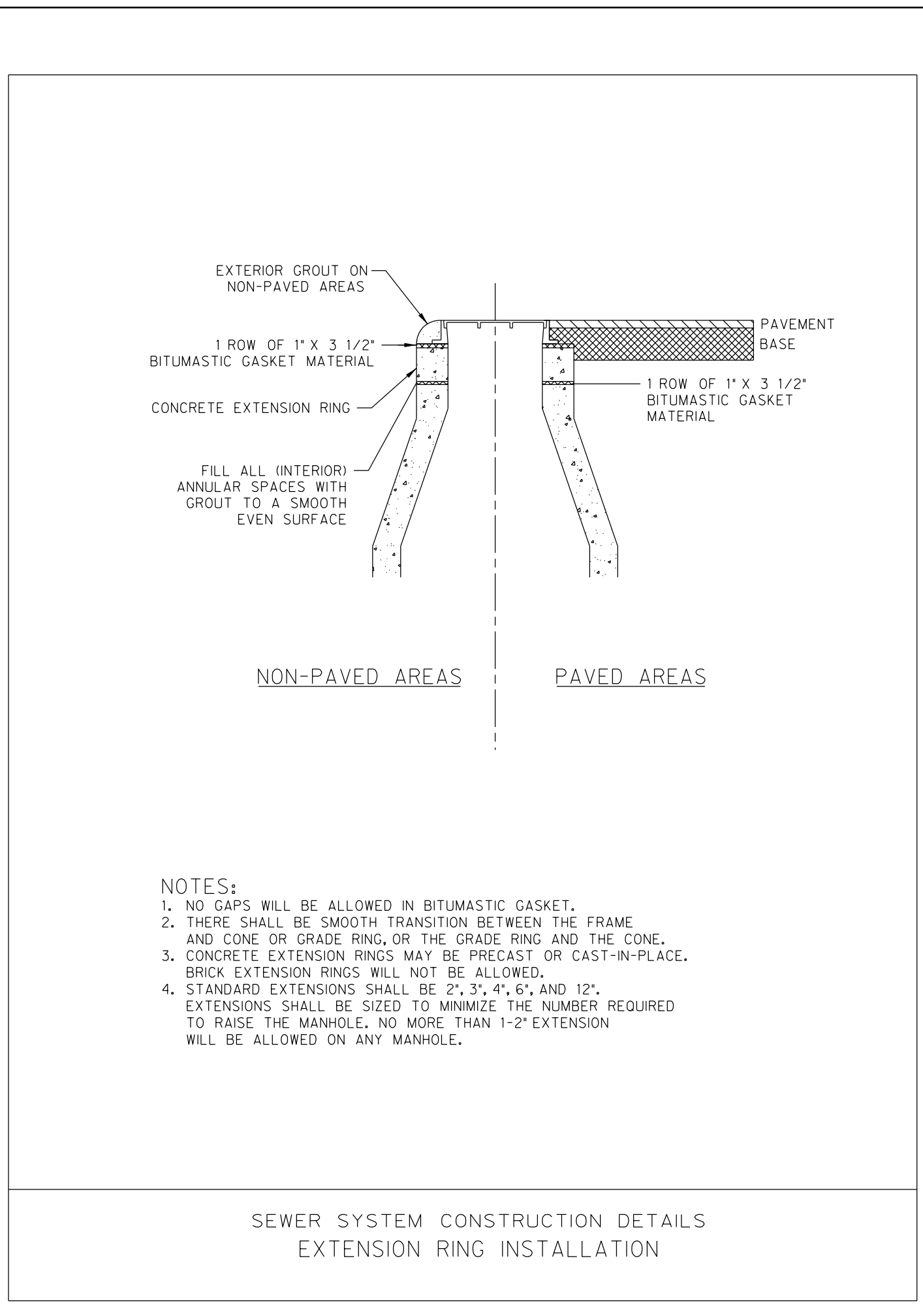
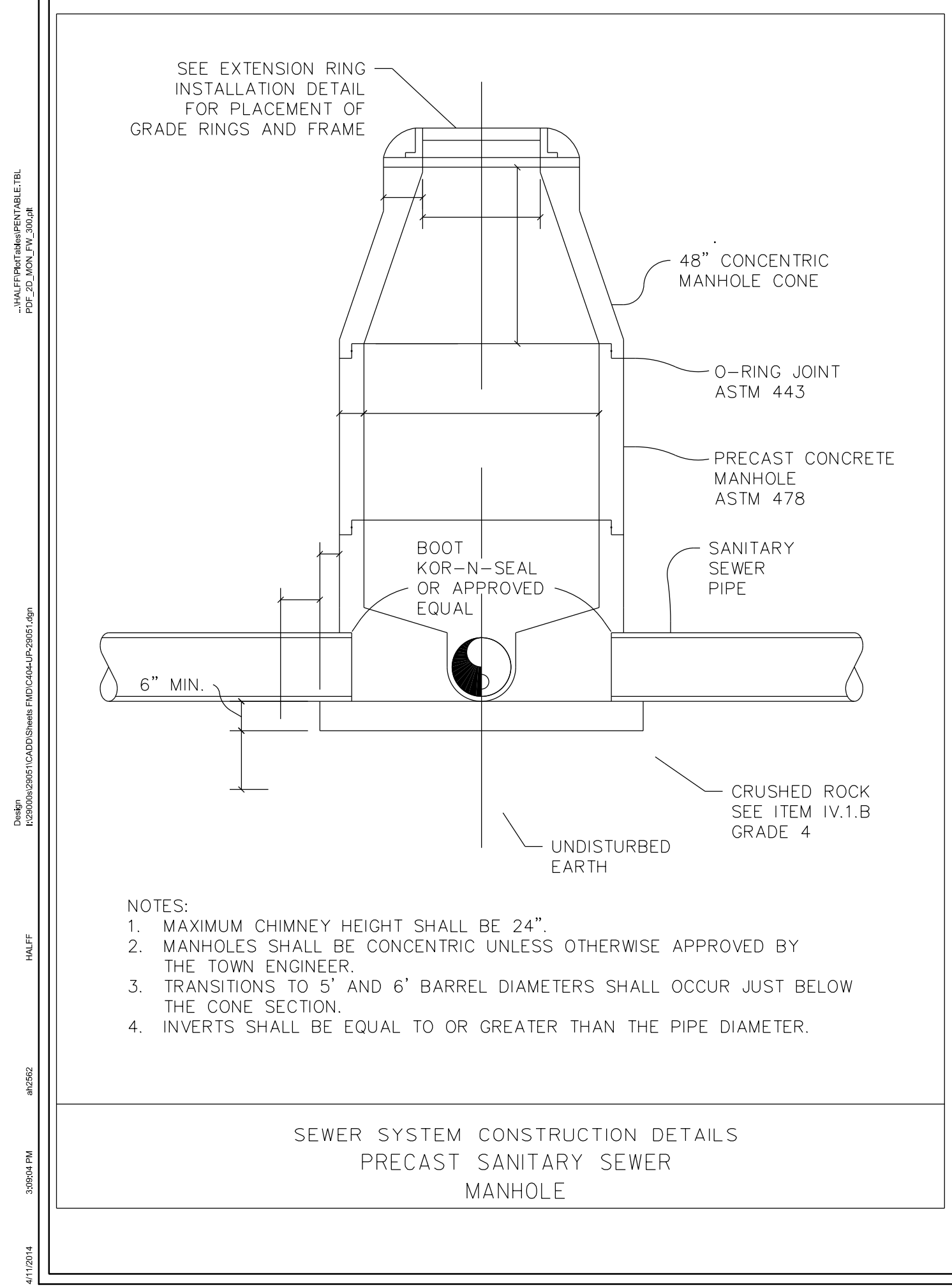
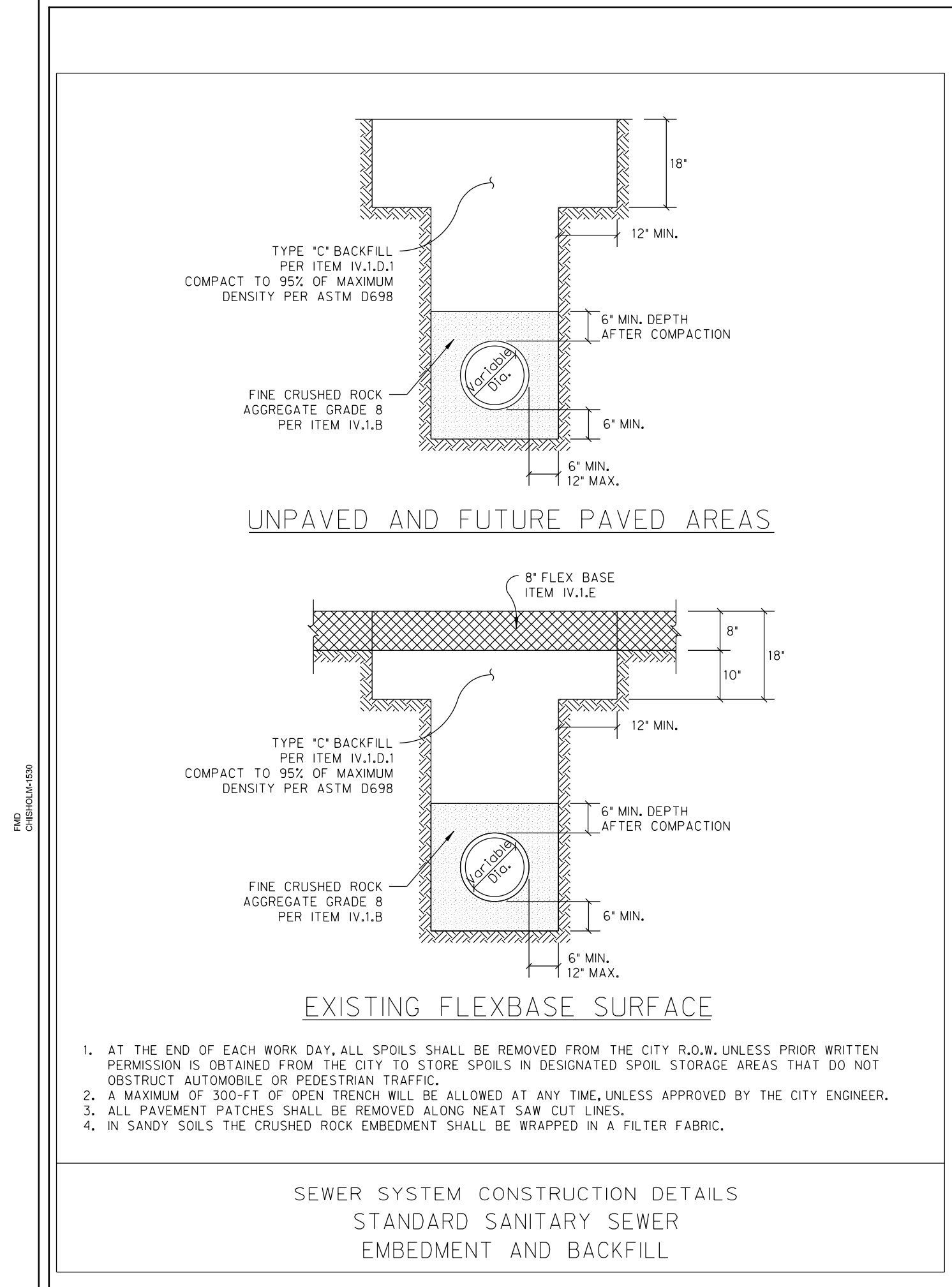
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C4.03
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Sheet No.
C4.03



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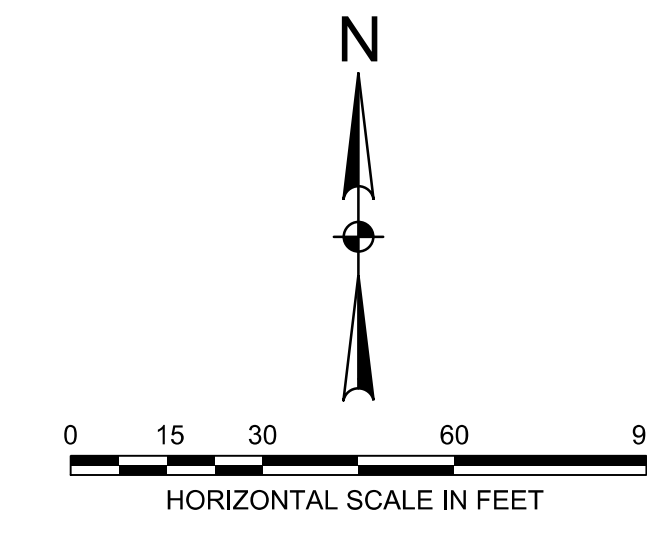
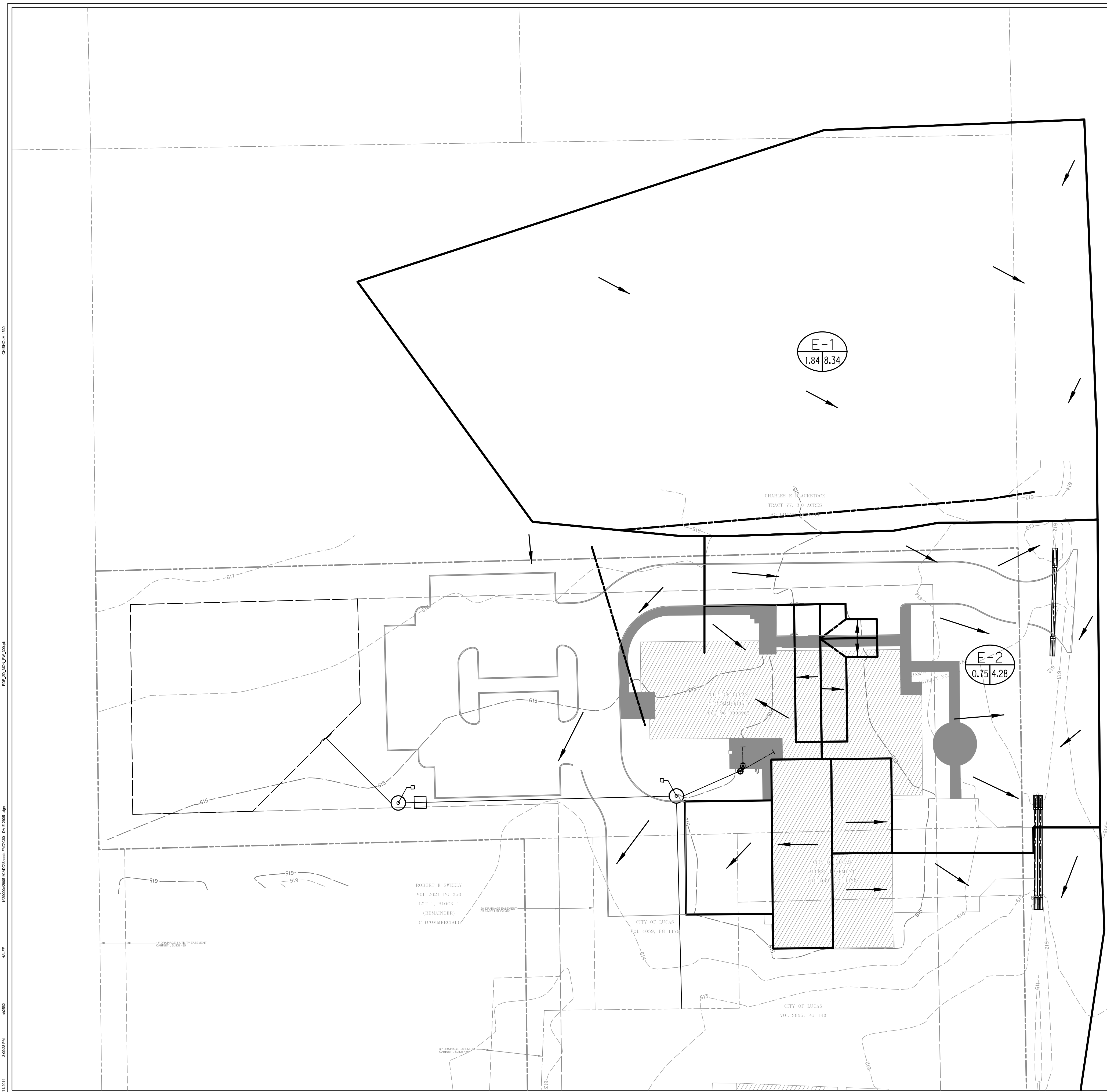
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DETAILS**
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 Sheet No.
C4.04



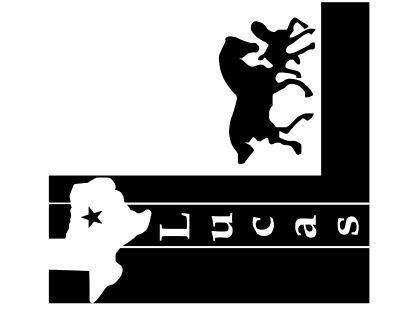
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- DRAINAGE AREA
- - - DRAINAGE SUB AREA
- - - RIGHT-OF-WAY LINE
- DIRECTION OF FLOW
- 500 PROPOSED CONTOUR
- 500 EXISTING CONTOUR
- A1 DRAINAGE AREA
- 2.92 AC AREA, AC

NOTES:

1. DRAINAGE AREAS DELINIATED FROM 2-FOOT CONTOURS GENERATED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) FROM LIDAR DATA COLLECTED BETWEEN JANUARY AND MARCH 2007. VERTICAL DATUM IS NAVD 88.

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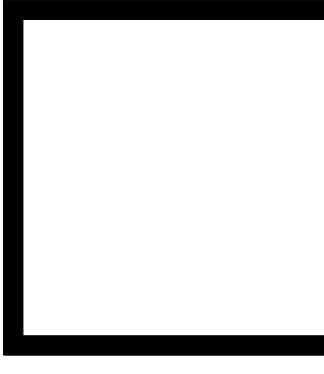
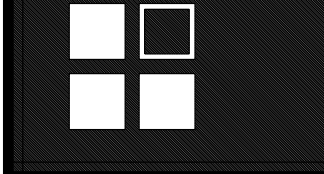
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Sheet Title
EXISTING DRAINAGE AREA MAP
C6.01
Sheet Number

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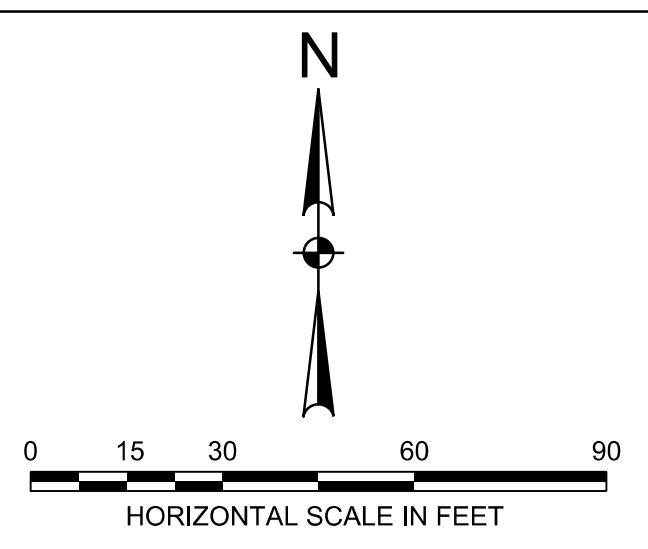
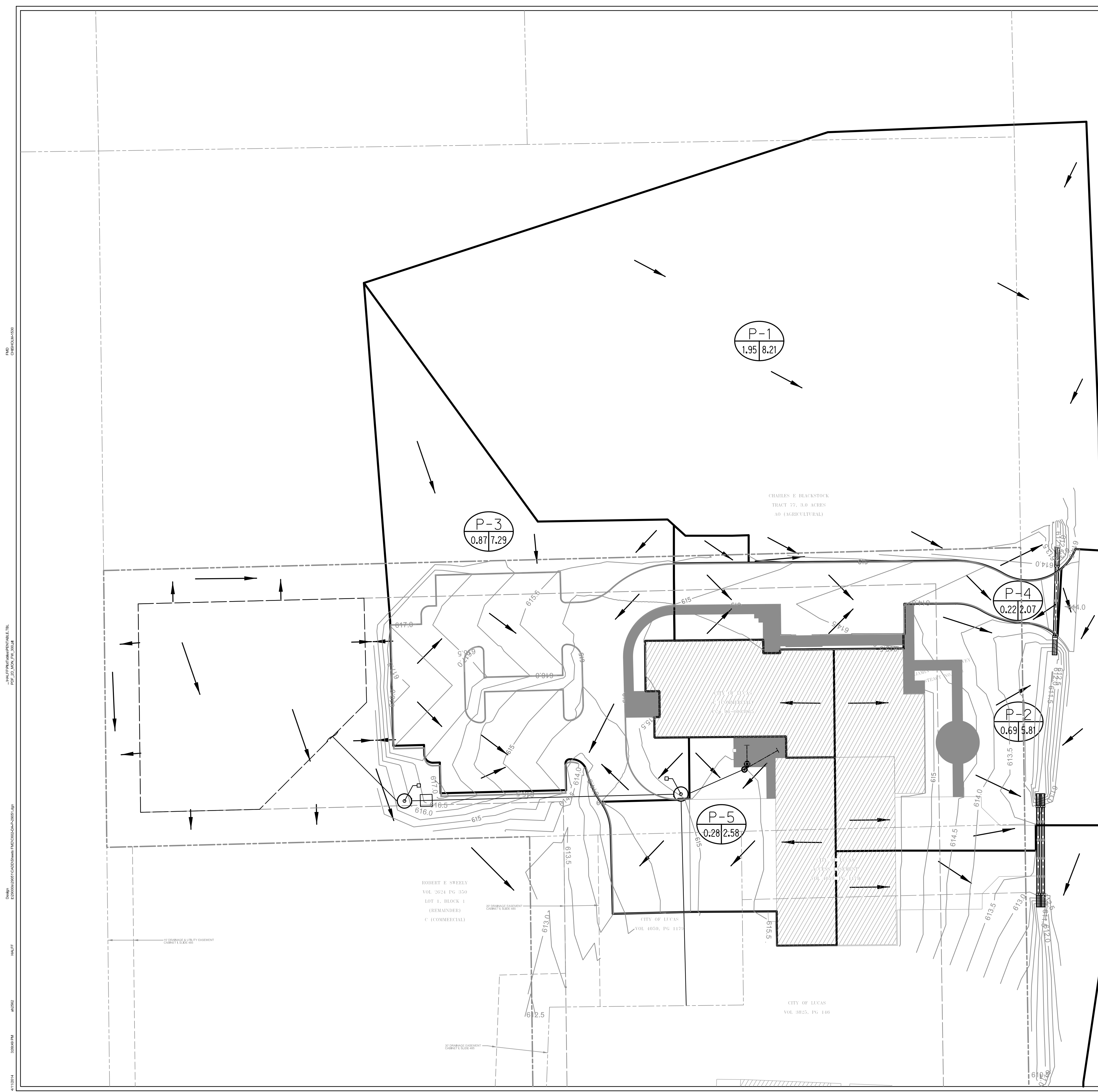
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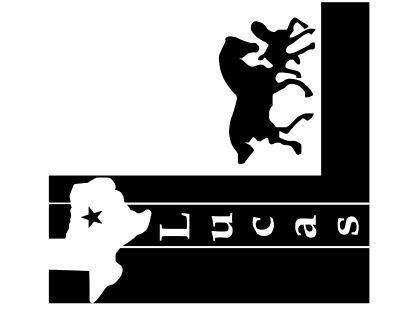
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- DRAINAGE AREA
- DRAINAGE SUB AREA
- RIGHT-OF-WAY LINE
- DIRECTION OF FLOW
- PROPOSED CONTOUR
- EXISTING CONTOUR
- DRAINAGE AREA AREA, AC

NOTES:

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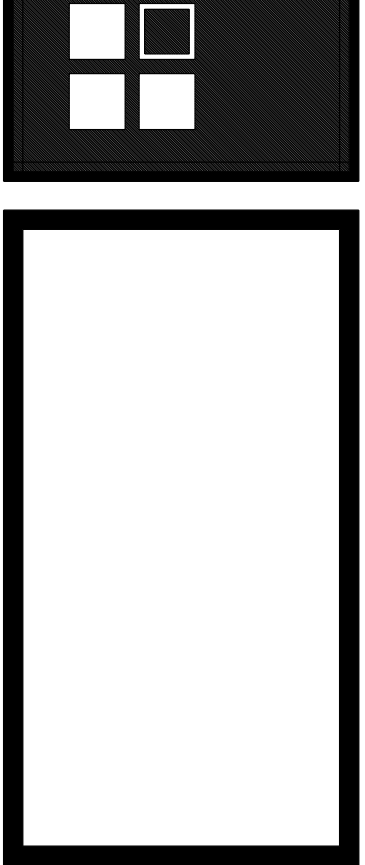
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Sheet Number

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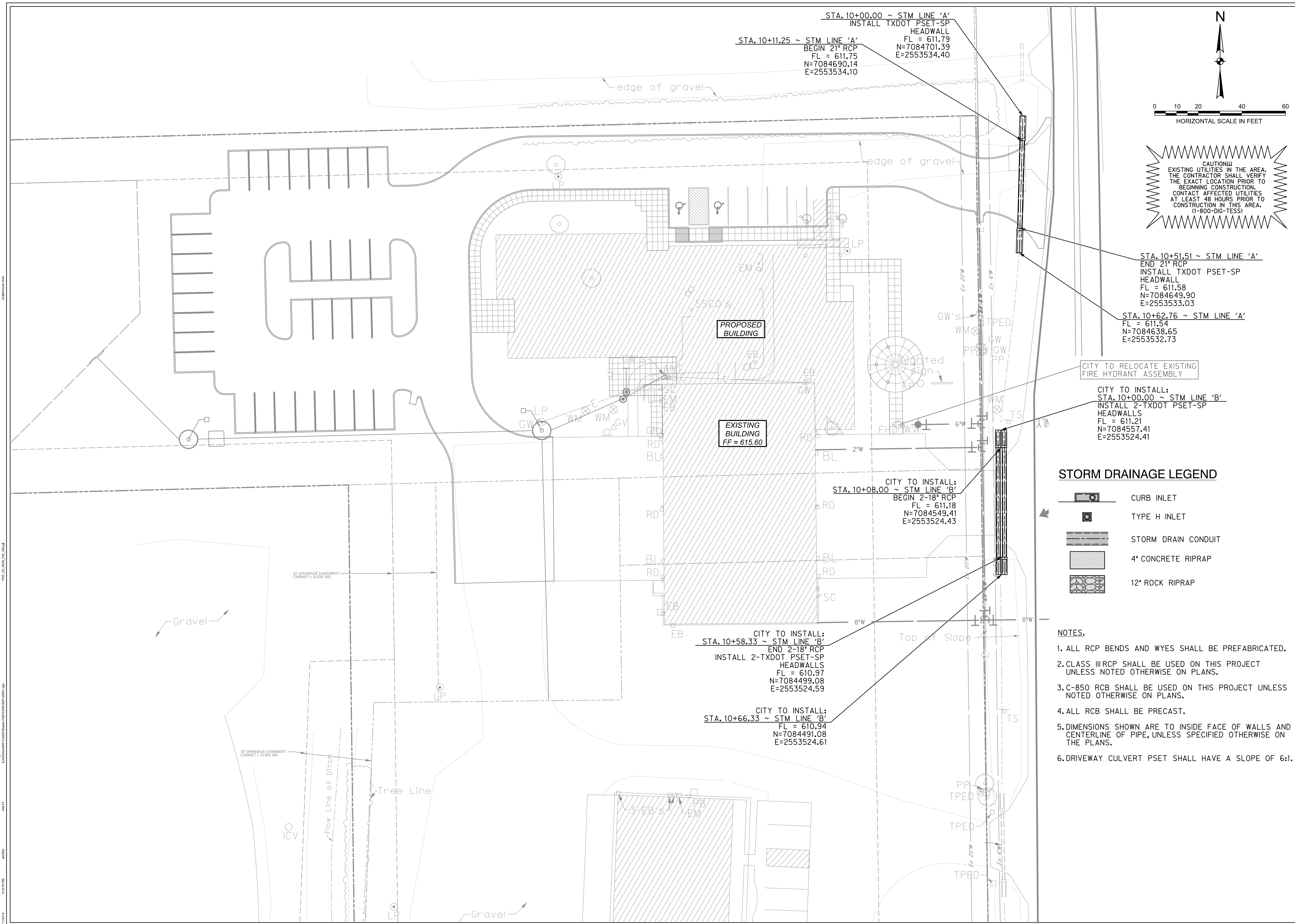
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Sheet Title	STORM DRAIN PLAN
Sheet Number	C6.05

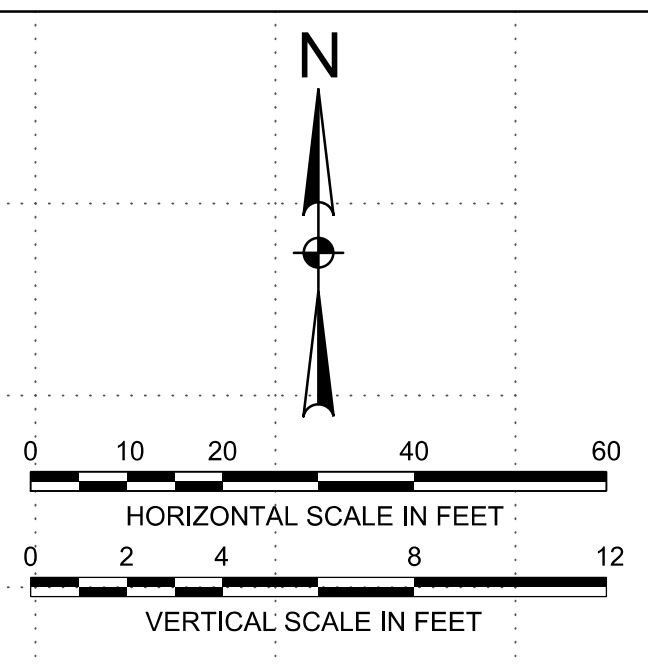
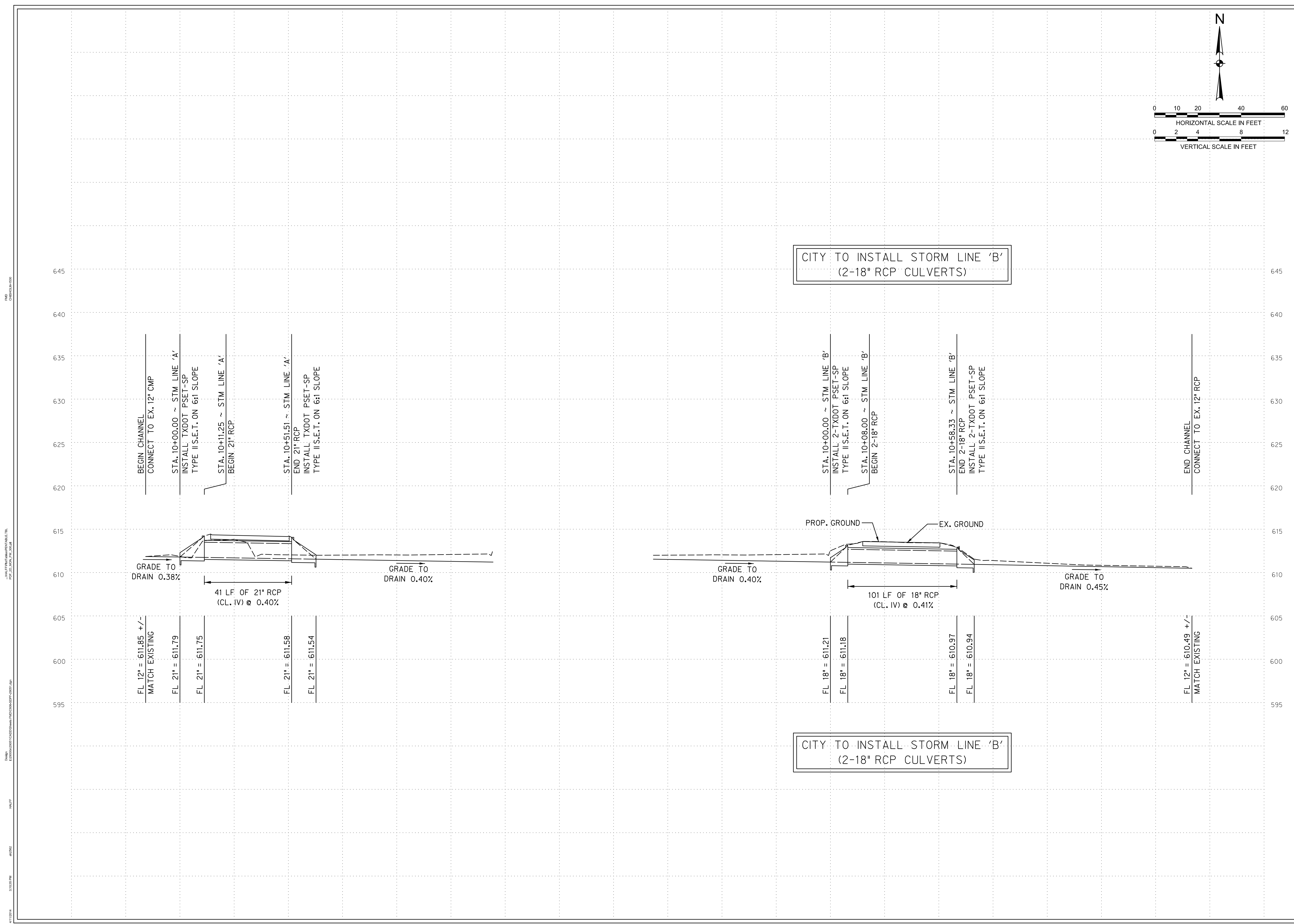
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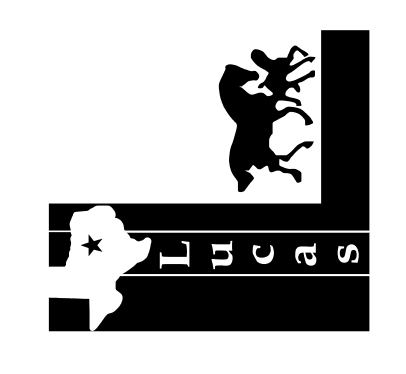
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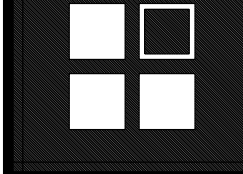
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 Sheet Title
STORM DRAIN PROFILES

C6.06
 Sheet Number

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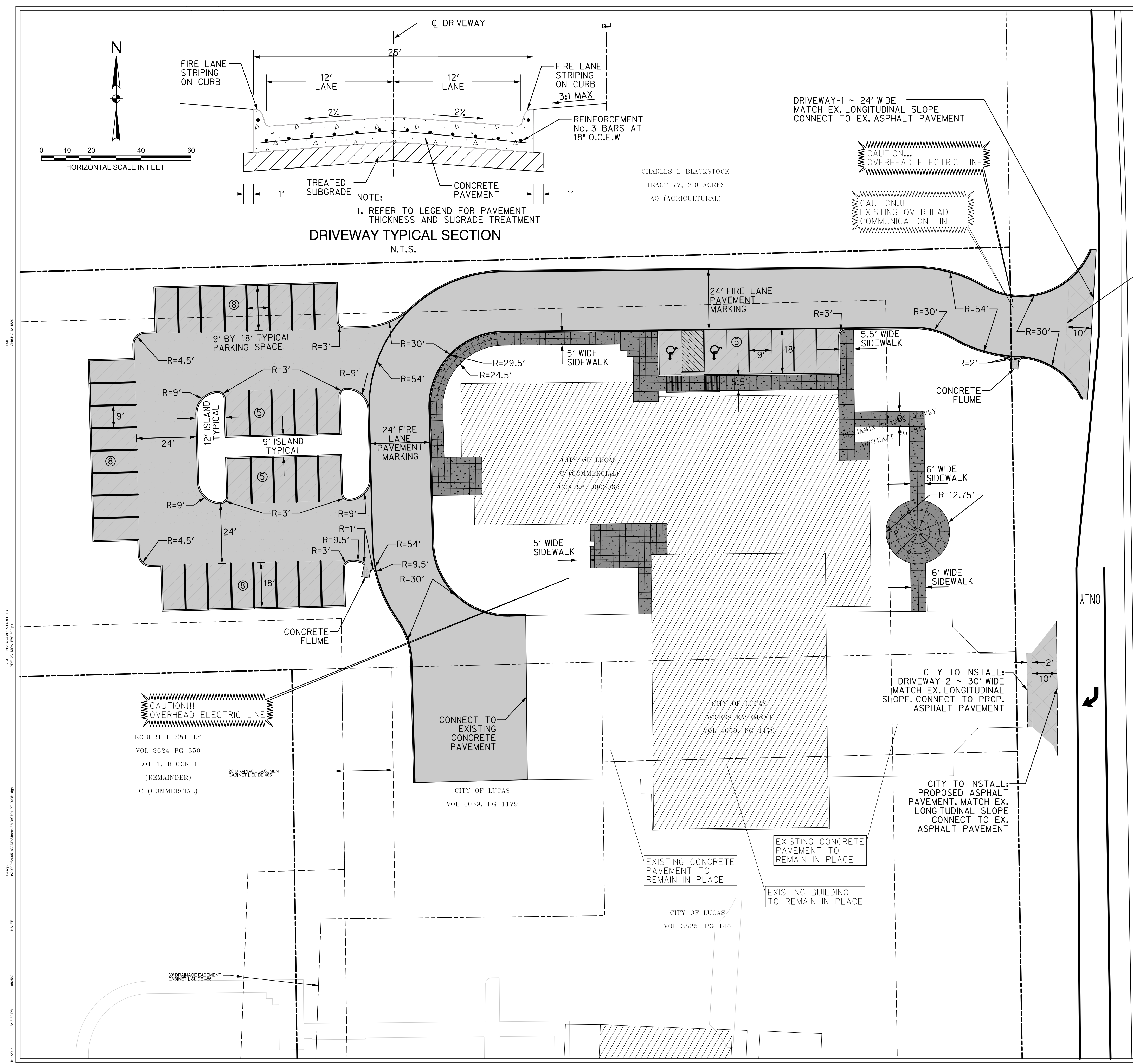
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PAVING LEGEND

- PROPOSED REINFORCED 7" THICK CONCRETE FIRELANE WITH 6" TREATED SUBGRADE
- PROPOSED REINFORCED 6" THICK CONCRETE DRIVEWAY WITH 6" TREATED SUBGRADE
- PROPOSED REINFORCED 5" THICK CONCRETE DRIVEWAY WITH 6" TREATED SUBGRADE
- PROPOSED ASPHALT PAVEMENT TYPE 'D' (2") TOP COURSE & TYPE 'B' (5") BASE COURSE WITH 6" TREATED SUBGRADE
- PROPOSED CONCRETE SIDEWALK
- 4" CONCRETE RIPRAP

- NOTES:**
1. ALL DIMENSIONS AND STATION/OFFSETS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED ON PLANS.
 2. REFER TO GRADING SHEETS FOR ADDITIONAL GRADING INFORMATION.
 3. REFER TO WATER AND SANITARY SEWER PLAN FOR UTILITY INFORMATION.
 4. FIRE APPARATUS ACCESS SHALL BE ALL-WEATHER CONCRETE AND A MINIMUM OF 80,000 POUNDS GVW.
 5. INSIDE FIRE LANE RADIUS SHALL BE 30-FOOT MINIMUM AND OUTSIDE FIRE LANE RADIUS SHALL BE 54-FOOT MINIMUM PER THE 2009 I.F.C. SECTION 503.2.4.
 6. CONTRACTOR SHALL CONSTRUCT THE PAVEMENT AND SUBGRADE PER GEOTECH REPORT "LUCAS CENTRAL FIRE STATION REPORT NO. G132036 DATED DECEMBER 18, 2013 PREPARED BY ALPHA TESTING, INC."
 7. CONCRETE PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,600 PSI AT 28 DAY WITH NO. 3 BARS AT 18-INCH O.C.E.W. REINFORCING.
 8. PAVEMENT SUBGRADE SHALL BE TREATED WITH 7% HYDRATED LIME (32 LBS/SY). ON-SITE SAMPLING AND LAB TESTING WILL BE REQUIRED FOR ACTUAL LIME APPLICATION.
 9. THE FLOOD ZONE DESIGNATION OF THE PROPERTY IS ZONE "X" (NON SHADED) ACCORDING TO COLLIN COUNTY, TEXAS AND INCORPORATED AREAS FLOOD INSURANCE RATE MAP, PANEL NUMBER 48085C0405J, DATED JUNE 2, 2009, AS PUBLISHED BY THE FEDERAL MANAGEMENT AGENCY. ZONE "X" NON SHADED IS DEFINED AS "AREAS OUTSIDE OF THE 500-YEAR FLOOD."

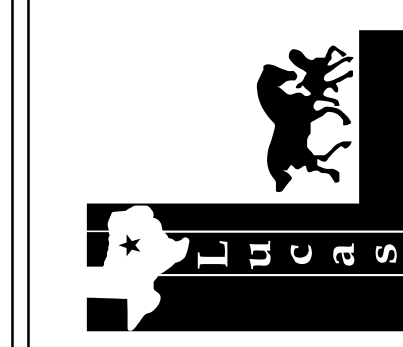
Existing utility locations shown are generally schematic in nature and may not accurately reflect the size and location of each particular utility. Some utility lines and surface locations may not be shown. Contractor shall assume responsibility for actual field location and protection of existing utilities whether shown or not. Contractor shall also assume responsibility for repairs to existing utilities, whether shown or not, damaged by contractor's activities. Differences in horizontal or vertical location of existing utilities shall not be a basis for additional compensation.

SITE DATA SUMMARY CHART

NAME	LUCAS FIRE STATION	
ADDRESS	165 COUNTRY CLUB RD. LUCAS, TX 75002	
COUNTY	COLLIN COUNTY	
ZONING	C	COMMERCIAL
CURRENT LAND USE	OFFICE BUILDING	
PROPOSED LAND USE	OFFICE BUILDING	
CURRENT NUMBER OF LOTS	1	
PROPOSED NUMBER OF LOTS	1	
LOT (ACRES)	4.1	
LOT (SQ. FT.)	178,978	

	PERCENT (%)	SQ. FT.
EXISTING BUILDING COVERAGE	8.3	14,935
PROPOSED BUILDING COVERAGE	12.4	22,140
IMPERVIOUS COVERAGE	35.7	63,960
PERVIOUS COVERAGE	64.3	115,018
	PROVIDED	REQUIRED
REGULAR PARKING SPACES	38	32
HANDICAP PARKING	2	2

**CITY OF LUCAS
FIRE STATION
LUCAS, TEXAS**



HALFF
LUCAS, TEXAS (940) 785-8800
FLOWER WOOD, TEXAS (817) 252-8800
FAX (972) 896-0842

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James S. R. Gaertner 100431
NAME P.E. NO.
DATE 4/11/2014
TYPE FIRM # F-312

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Checked By: JSRG
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Sheet Title
PAVING PLAN
C7.01
Sheet Number

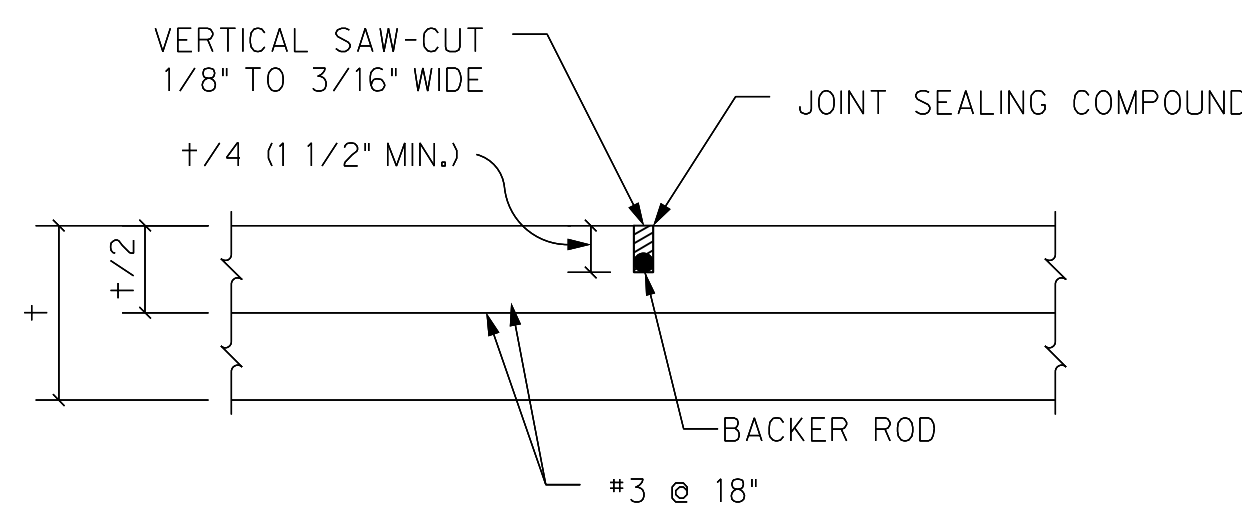
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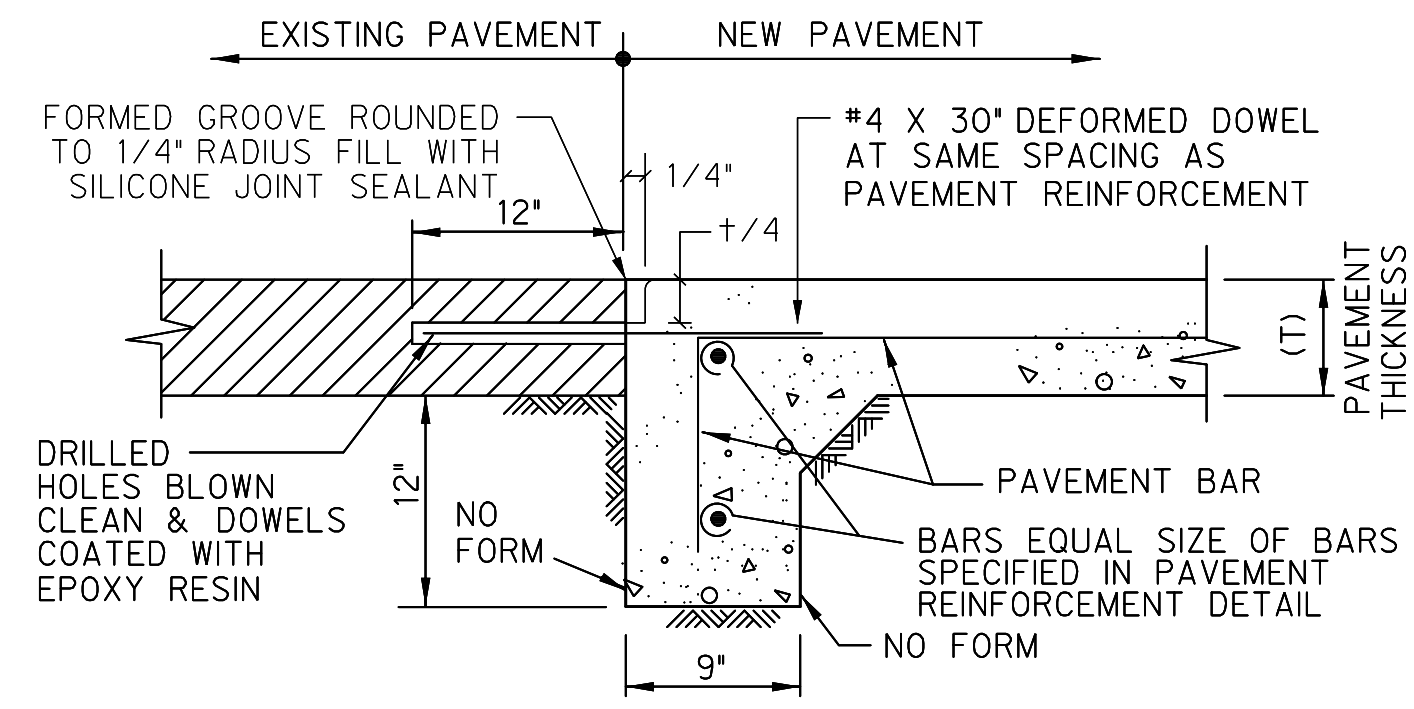
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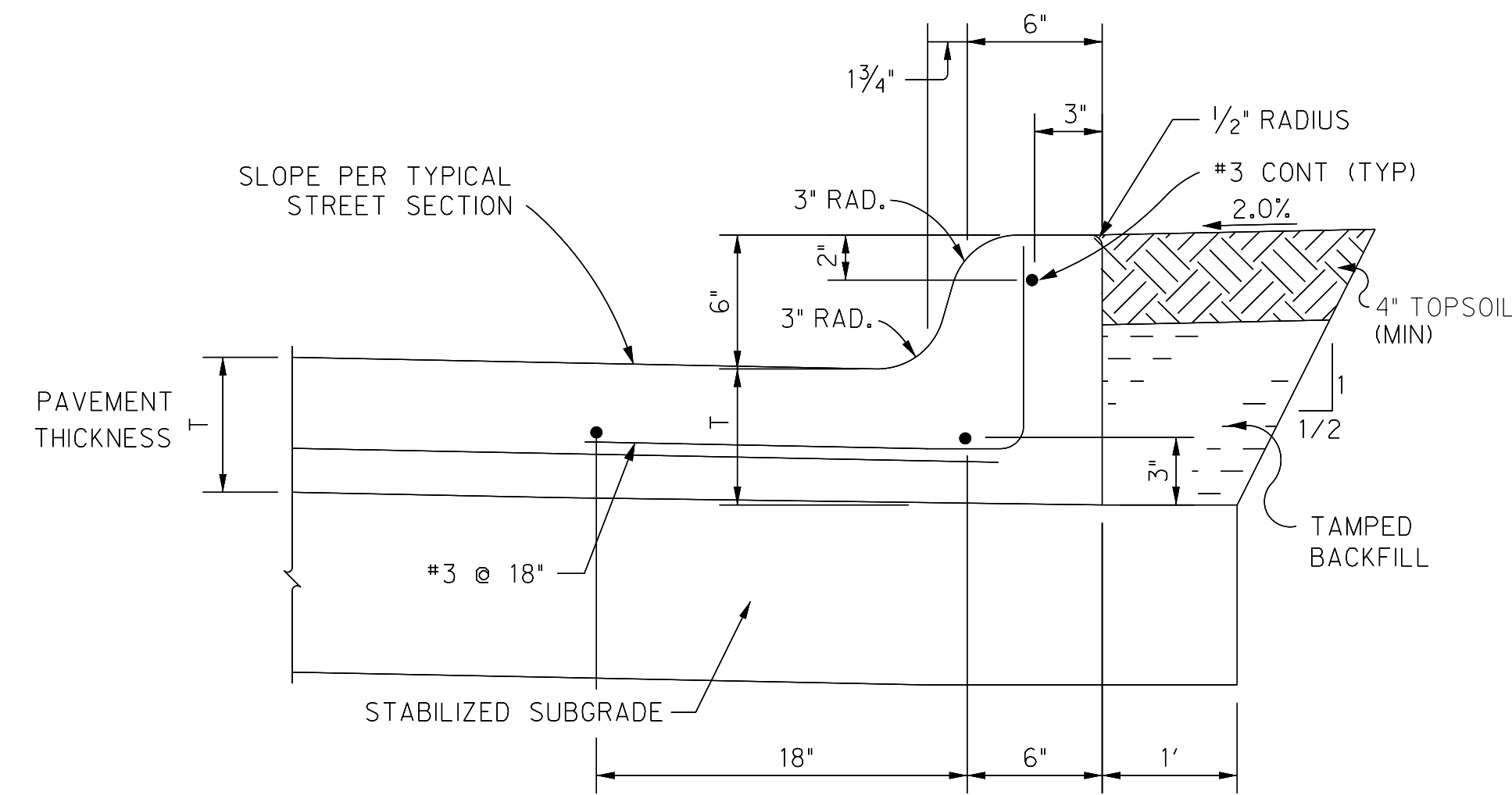
SAW JOINT
N.T.S.

- NOTES:
1. ALL DOWEL BARS SHALL BE INSTALLED PERPENDICULAR TO JOINT @ 18" SPACING.
 2. SILICONE JOINT SEALANT SHALL BE DOW CORNING 890 SL, OR APPROVED EQUAL. HOT Poured RUBBER NOT PERMITTED IN LIEU OF SILICONE JOINT SEALANT.
 3. TOP OF CUT SHALL BE CHAMFERED @ 45° ANGLE, MINIMUM OF 1/4" DEEP.



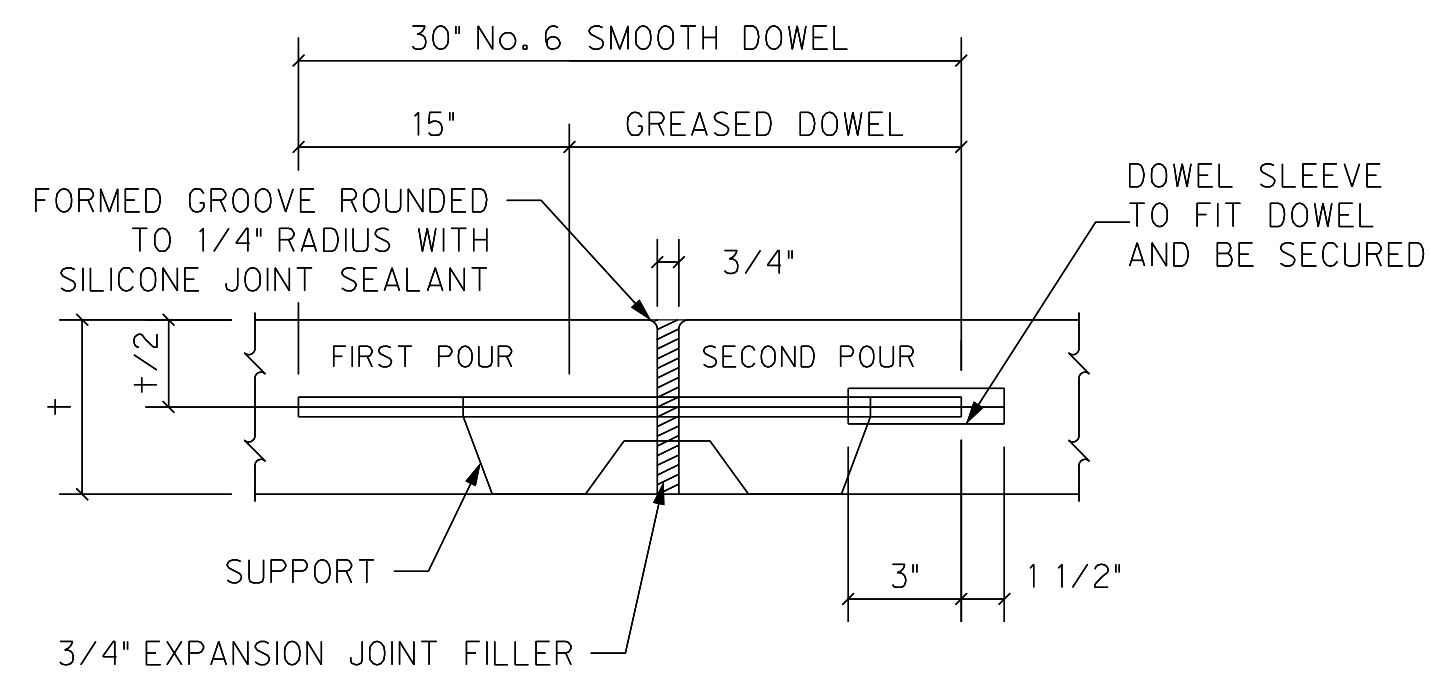
PAVEMENT HEADER AT EXISTING PAVEMENT
N.T.S.

NOTE:
ELIMINATE DEFORMED DOWEL WHERE EXISTING PAVEMENT SECTION IS ASPHALT.



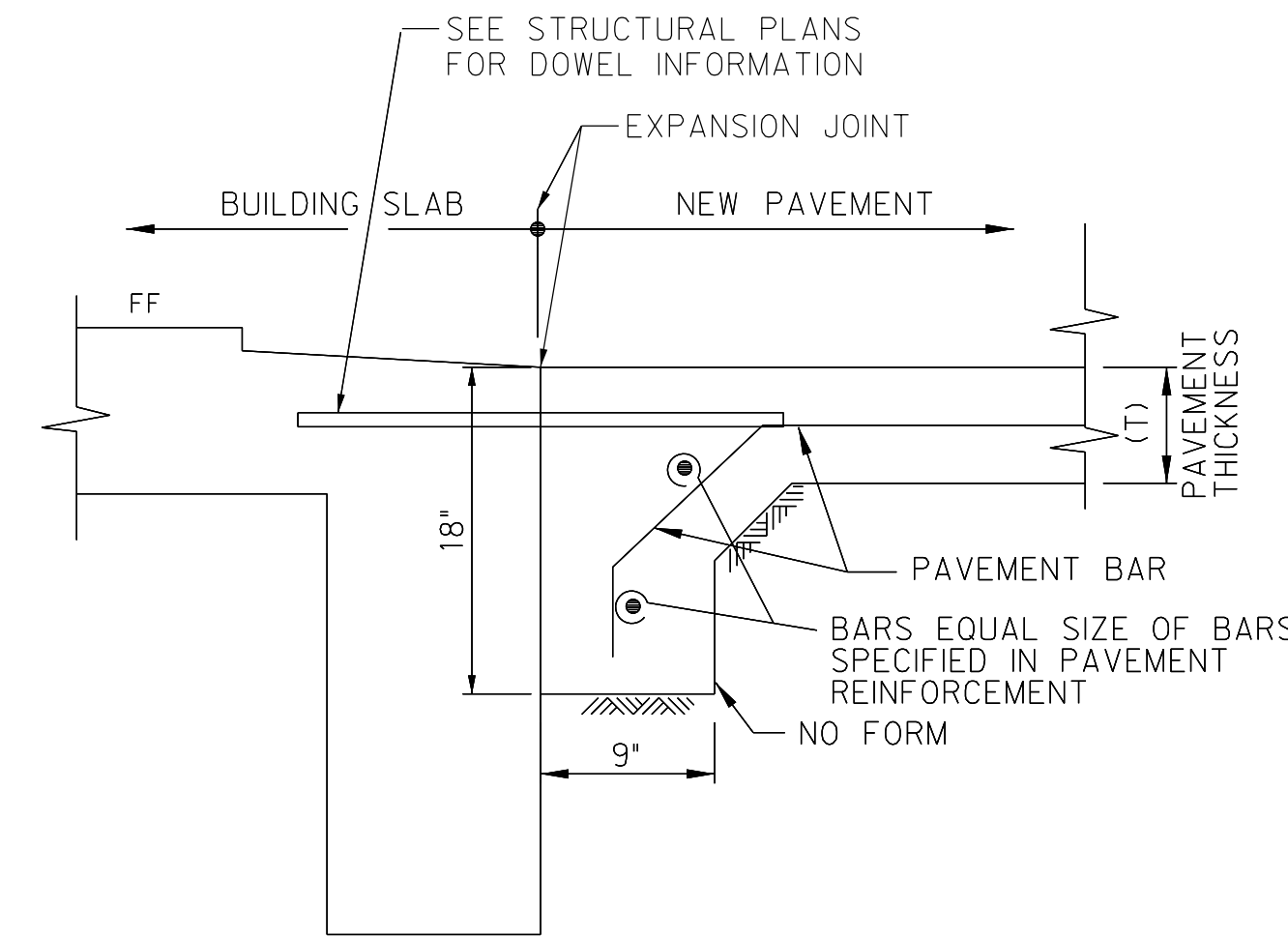
STANDARD CURB AND GUTTER
N.T.S.

NOTE:
AT THE CONTRACTORS OPTION THE VERTICAL AND LONGITUDINAL REINFORCEMENT IN THE 6" CURB SECTION MAY BE OMITTED WHEN CURB IS PLACED BY MEANS OF A SLIP FORM PAVER. CURB STEEL SHALL REMAIN IN PLACE FOR HAND PLACEMENT OF CURB SECTION.

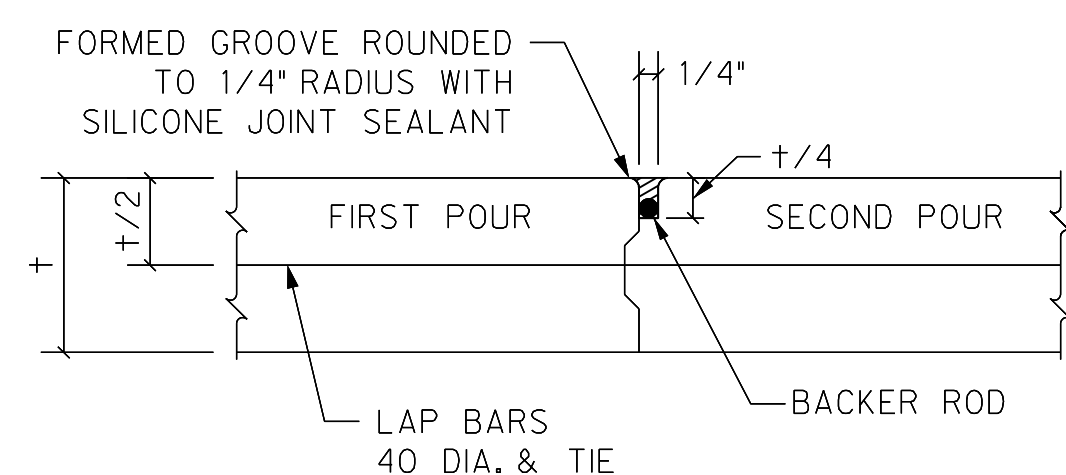


EXPANSION JOINT
N.T.S.

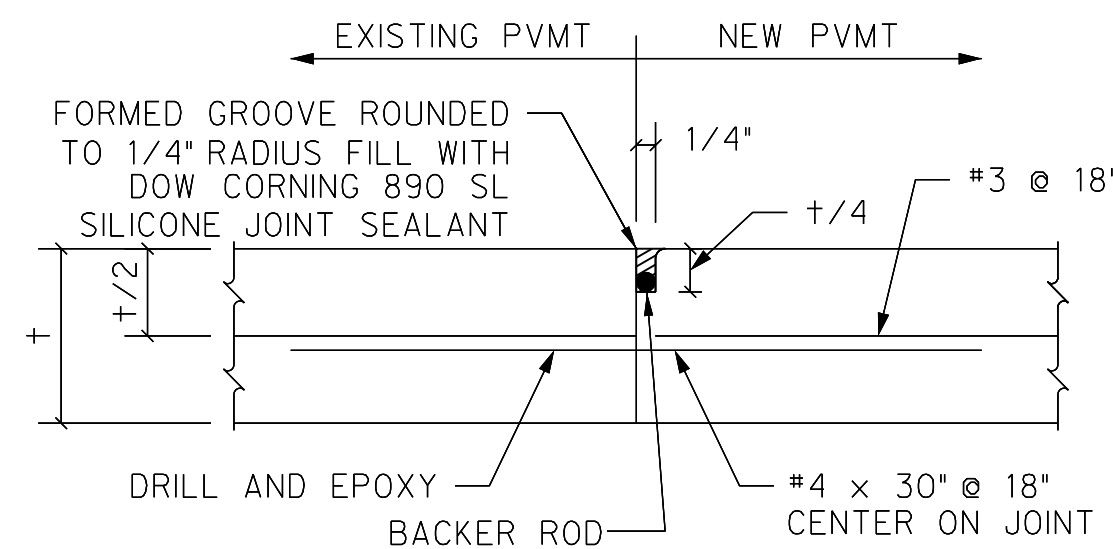
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HEADER AT PROPOSED BUILDING SLAB
N.T.S.

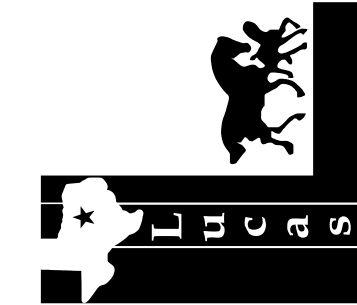


CONSTRUCTION JOINT
N.T.S.



SAWED CONSTRUCTION JOINT
N.T.S.

CITY OF LUCAS
FIRE STATION
LUCAS, TEXAS



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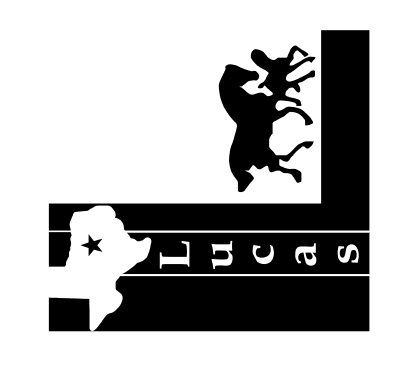
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Sheet No.
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CITY OF LUCAS
FIRE STATION
LUCAS, TEXAS



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FLOWER WOOD, TEXAS 75028-8629
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SIDEWALK DETAILS

Sheet Number
C7.03

PEDESTRIAN FACILITIES
GENERAL NOTES

- ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
- LANDINGS SHALL BE 5'x5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
- MANEUVERING SPACE AT THE BOTTOM OF CURB RAMP SHALL BE A MINIMUM OF 4'x4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
- MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%.
- CURB RAMP WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED. OTHERWISE, PROVIDE FLARED SIDES.
- ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC 68.102.
- CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, CURB RAMP SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
- EXISTING FEATURES THAT COMPLY WITH TAS MAY REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS.
- HANDRAILS ARE NOT REQUIRED ON CURB RAMP. PROVIDE CURB RAMP WHEREVER ON ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
- CURB RAMP AND LANDINGS SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH NCTCOG ITEM 8.3.
- SEPARATE CURB RAMP AND LANDINGS FROM ADJACENT SIDEWALK AND ANY OTHER ELEMENTS WITH PREMOLD OR BOARD JOINT OF 3/4" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMP CONNECTS TO THE STREET.
- CURBS SHOWN ON SHEET 1 WITHIN THE LIMITS OF PAVEMENT ARE CONSIDERED PART OF THE CURB RAMP FOR PAYMENT, WHETHER IT IS CONCRETE CURB, GUTTER, OR COMBINED CURB AND GUTTER.
- CURB RAMP SHALL BE MIN 6" THICK CONCRETE PAVEMENT. SIDEWALK LUG IS REQUIRED AT STREET CONNECTION.

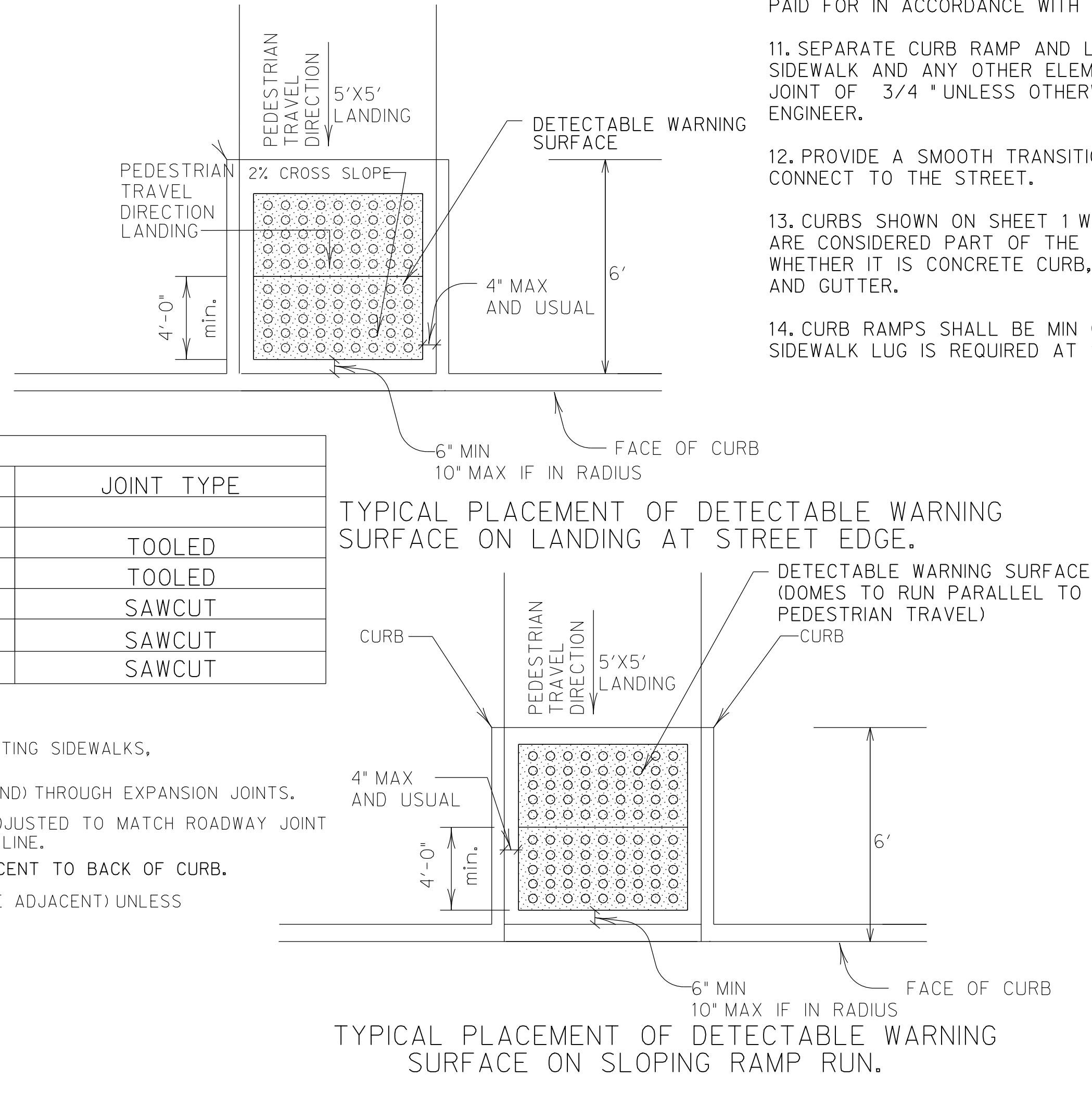
GENERAL NOTES FOR
DETECTABLE WARNINGS

- CURB RAMP MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES. SEE PRODUCT REQUIREMENTS THIS SHEET.
- DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
- ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
- SHADED AREAS ON THIS SHEET INDICATE THE APPROXIMATE LOCATION FOR THE DETECTABLE WARNING SURFACE FOR EACH CURB RAMP TYPE.
- DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 48" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, FOR RAMP THAT ARE 48" LONG OR LONGER AND SHALL COVER THE FALL DEPTH OF THE RAMP IF SHORTER THAN 48" AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
- DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 10" FROM THE EXTENSION OF THE FACE OF CURB. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.

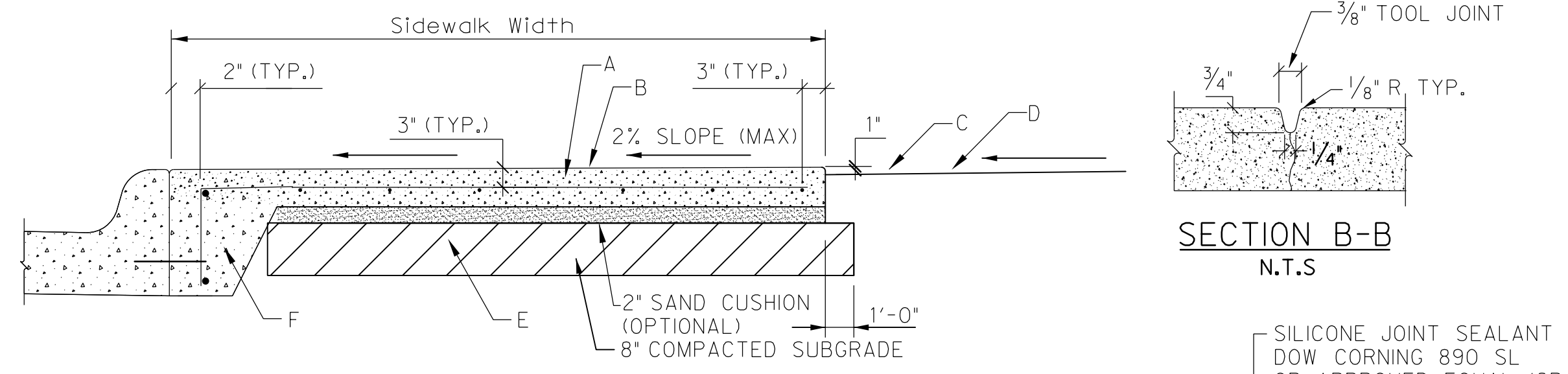
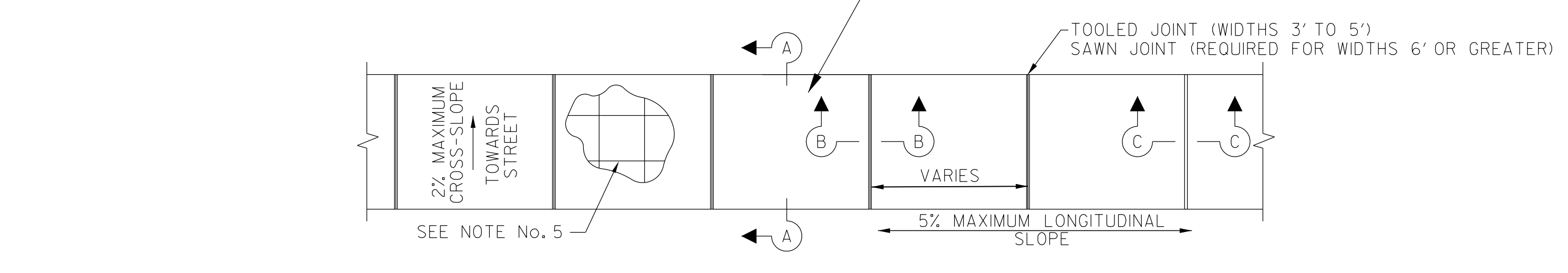
GENERAL NOTES (DETECTABLE WARNINGS)

BARRIER FREE RAMP DETECTABLE WARNING TILES SHALL BE CAST IN PLACE COLONIAL RED COLOR OR APPROVED EQUAL.

DETECTABLE WARNINGS



WHERE CURB INLETS OCCUR WITHIN THE PROPOSED SIDEWALK, GAPS SHALL NOT BE GREATER THAN 1/2-INCH AND INLET TOPS SHALL BE LEVEL WITH SIDEWALK TO 1/4-INCH MAXIMUM.

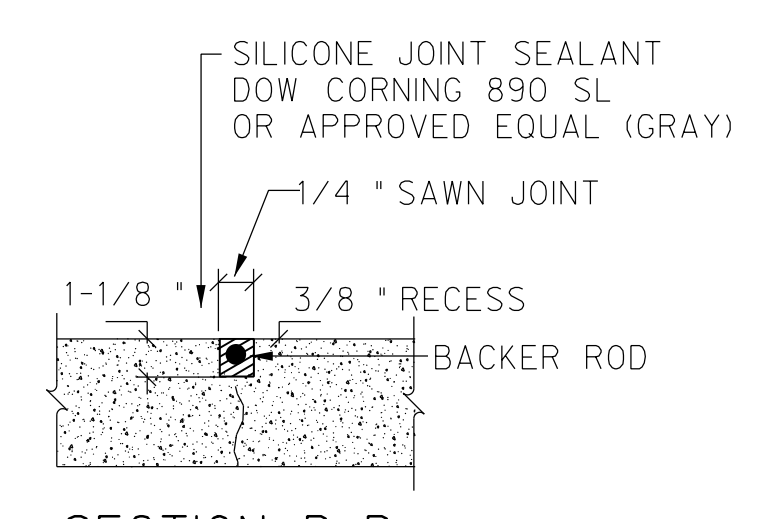


CONCRETE SIDEWALK
SECTION A-A
N.T.S.

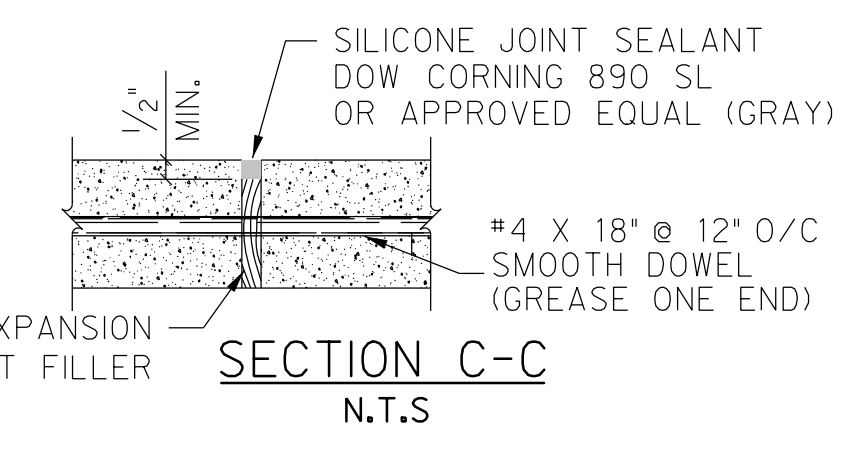
- A. 3000 PSI CONCRETE PAVEMENT (NCTCOG CLASS E) FOR 4" THICKNESS. 3600 PSI CONCRETE PAVEMENT (NCTCOG CLASS C) FOR 5.5" THICKNESS.
- B. HEAVY BROOM FINISH.
- C. RESEED ALL DISTURBED AREA WITH APPROPRIATE SEASONAL GRASS.
- D. FINISH GRADE.
- E. COMPACT SUBGRADE TO 95% STANDARD PROCTOR DENSITY AT OR ABOVE OPTIMUM MOISTURE CONTENT.
- F. MONOLITHIC SIDEWALK LUG REQUIRED WHEN WALK IS CONSTRUCTED ADJACENT TO THE BACK OF CURB. REFER TO SECTION A-A.

EXPANSION JOINT NOTES:

- LOCATE DOWELED EXPANSION JOINTS AS SCHEDULED.
- USE #4 SMOOTH DOWEL 1'-6" LONG & LUBRICATED ON ONE END, AT 12'-0" O.C. WITH CAP.
- FILL DOWELED EXPANSION JOINTS WITH PREMOLDED BITUMINUS EXPANSION JOINT FILLER. INSTALL EXPANSION JOINT MATERIAL 1/2" BELOW FINISHED GRADE OF TRAIL.



SECTION B-B
N.T.S.



SECTION C-C
N.T.S.

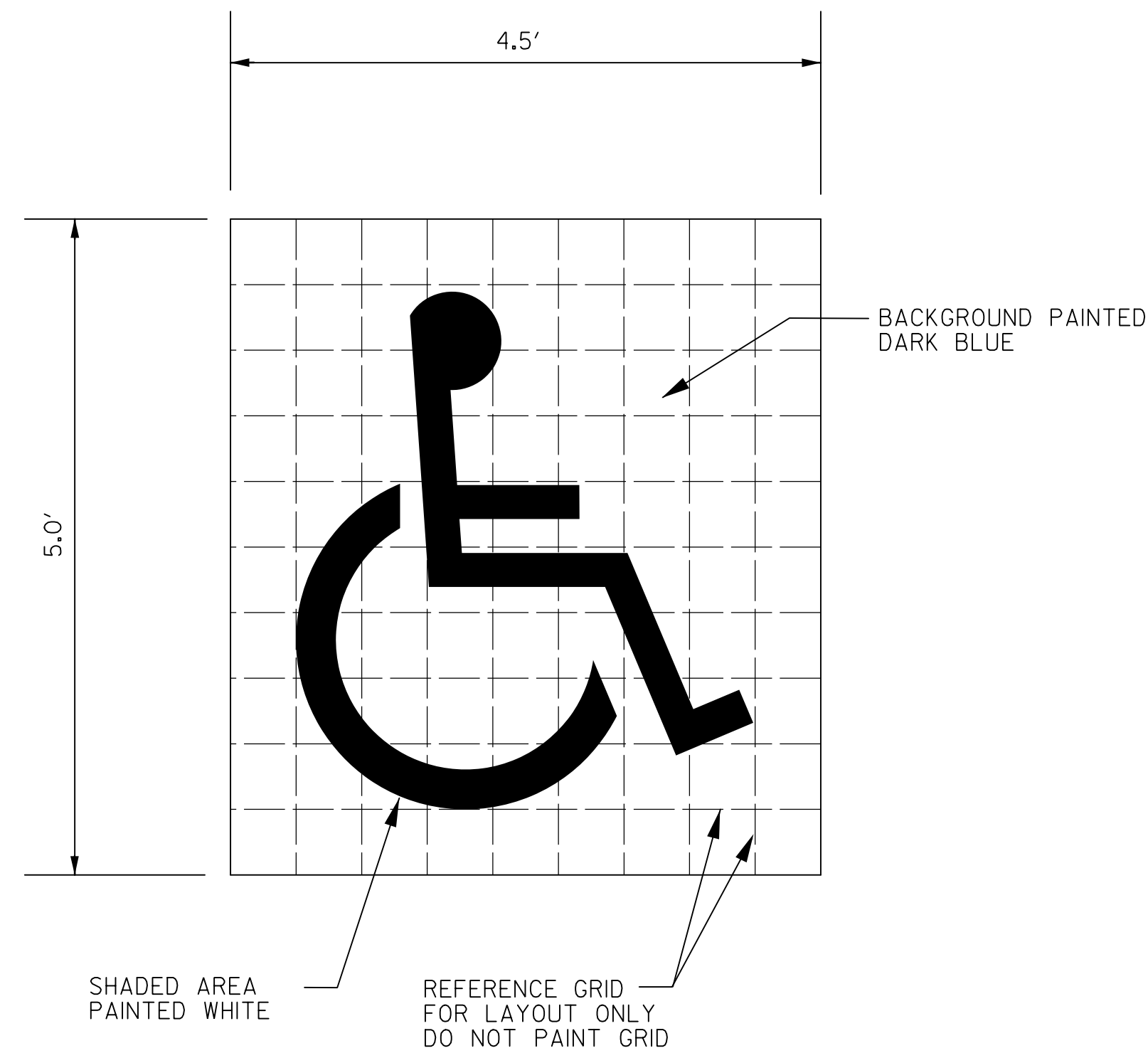
Sidewalk Joint Spacing and Thickness Schedule

Width (ft)	Sawn Joint Spacing (ft)	Expansion Joint Spacing (ft)	Pavement Thickness (in)	CONC. PSI (MIN)	JOINT TYPE
4	5	25	4	3000	TOOLED
5	5	25	4	3000	TOOLED
6	6	30	4	3000	SAWCUT
8	8	48	5.5	3600	SAWCUT
10	10	50	5.5	3600	SAWCUT

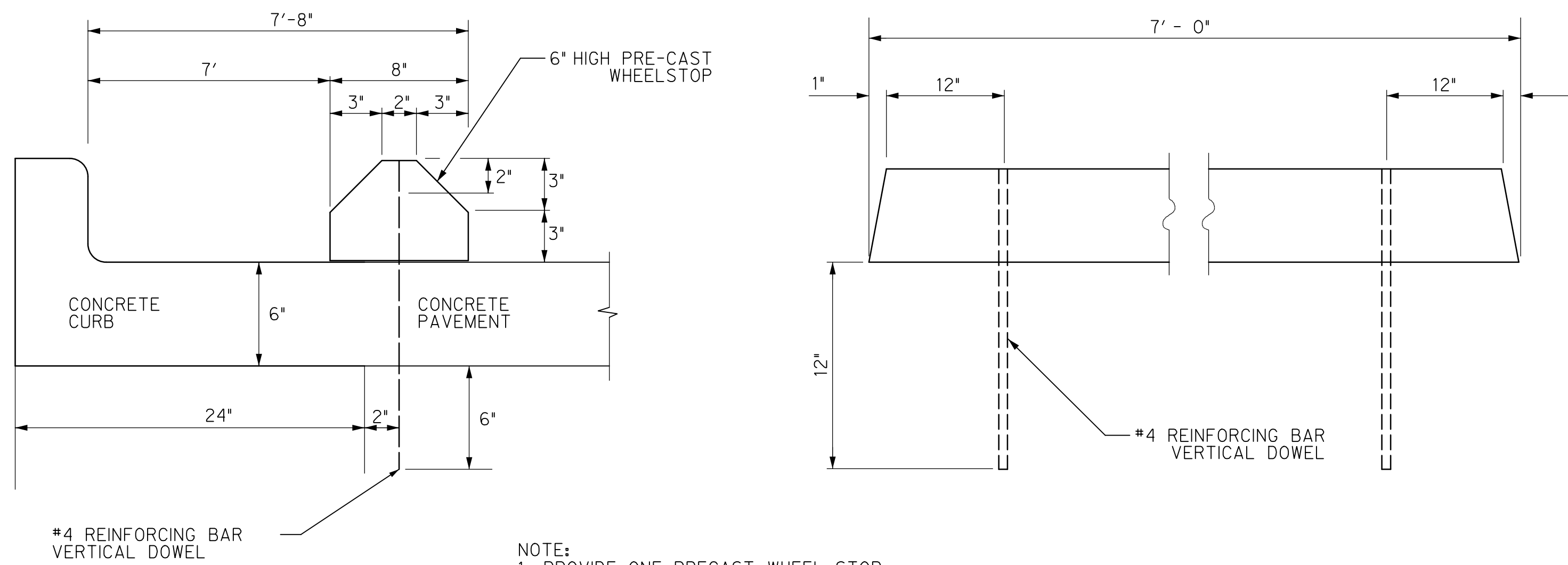
SIDEWALK GENERAL NOTES

- GRADE SIDEWALK AS INDICATED ON THE GRADING PLAN SHEETS.
- SAWN/TOOLED JOINTS SHALL BE SPACED AS SCHEDULED.
- EXPANSION JOINTS SHALL BE SPACED AS SCHEDULED.
- THE MATERIALS AND WORKMANSHIP FOR CONCRETE PAVING SHALL BE IN ACCORDANCE WITH N.C.T.C.O.G. SPECIFICATIONS AS MODIFIED BY THE CITY OF LUCAS.
- REINFORCEMENT TO BE #3 BARS AT 18" C-C MAX. (BOTH WAYS)
- DOWEL WITH #4 BARS AT 18" C-C WHEN CONNECTING TO EXISTING SIDEWALKS, DRIVEWAYS, CURBS AND GUTTER.
- INSTALL #4 X 18" SMOOTH DOWELS @ 12" O.C. (GREASE ONE END) THROUGH EXPANSION JOINTS.
- EXPANSION AND TOOLED/SAWN JOINTS IN WALK SHALL BE ADJUSTED TO MATCH ROADWAY JOINT ALIGNMENT WITH WHEN WALK IS PLACED ADJACENT TO CURB LINE.
- SIDEWALK LUG SHALL BE USED WHEN WALK IS PLACED ADJACENT TO BACK OF CURB.
- SIDEWALK EDGE SHALL BE 4'-6" FROM BACK OF CURB (WHERE ADJACENT) UNLESS OTHERWISE SPECIFIED ON PLANS.

CONCRETE SIDEWALK DETAIL

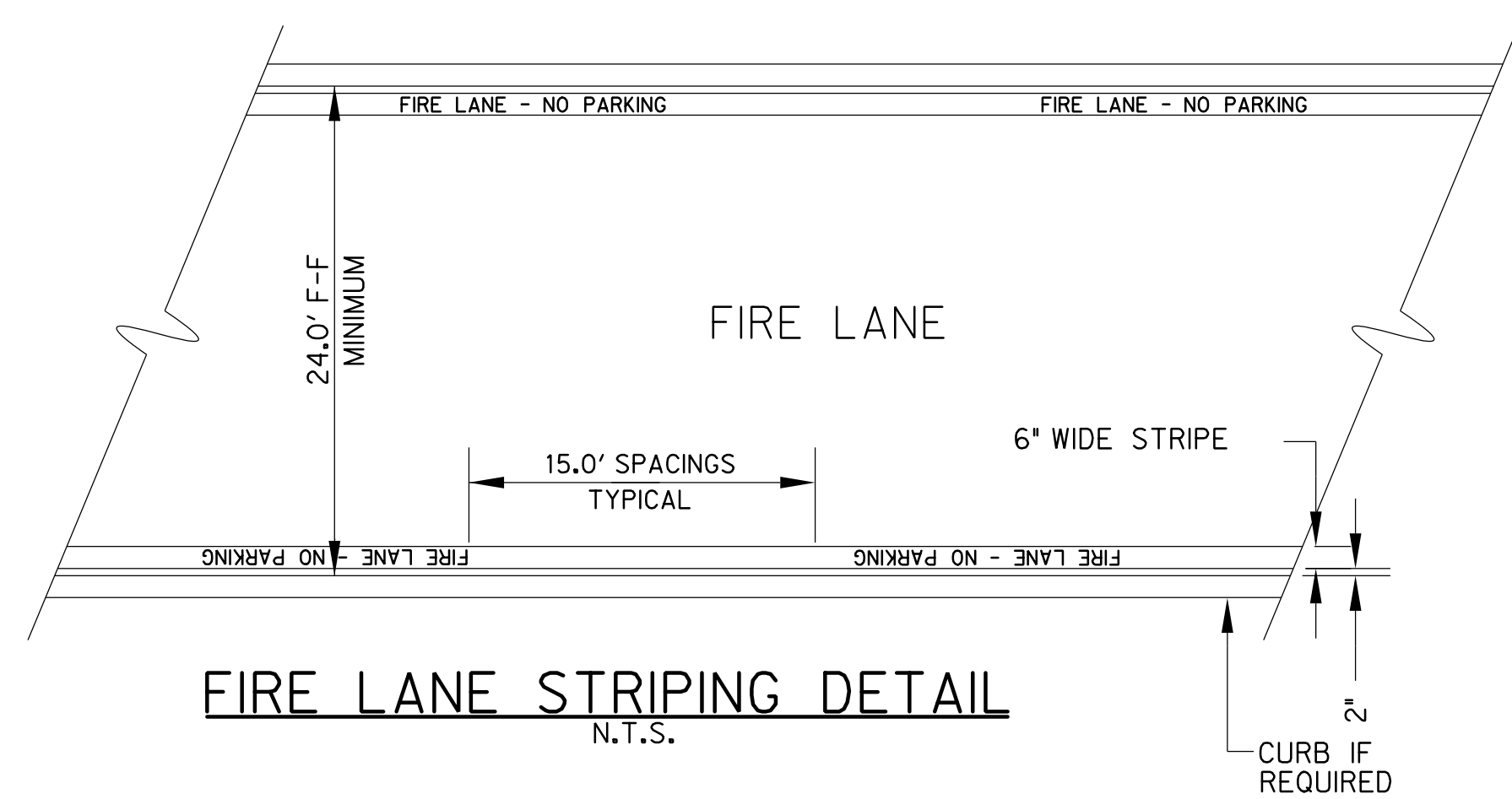


H.C. PARKING SYMBOL
N.T.S.



NOTE:
1. PROVIDE ONE PRECAST WHEEL STOP PER HANDICAP PARKING SPACE AS INDICATED ON SITE PLAN
2. WHEEL STOP SHALL BE ATTACHED SECURELY TO THE CONCRETE PAVEMENT W/ EPOXY ADHESIVE AND DOWELS AS INDICATED.

PRECAST CONC. WHEELSTOP
N.T.S.

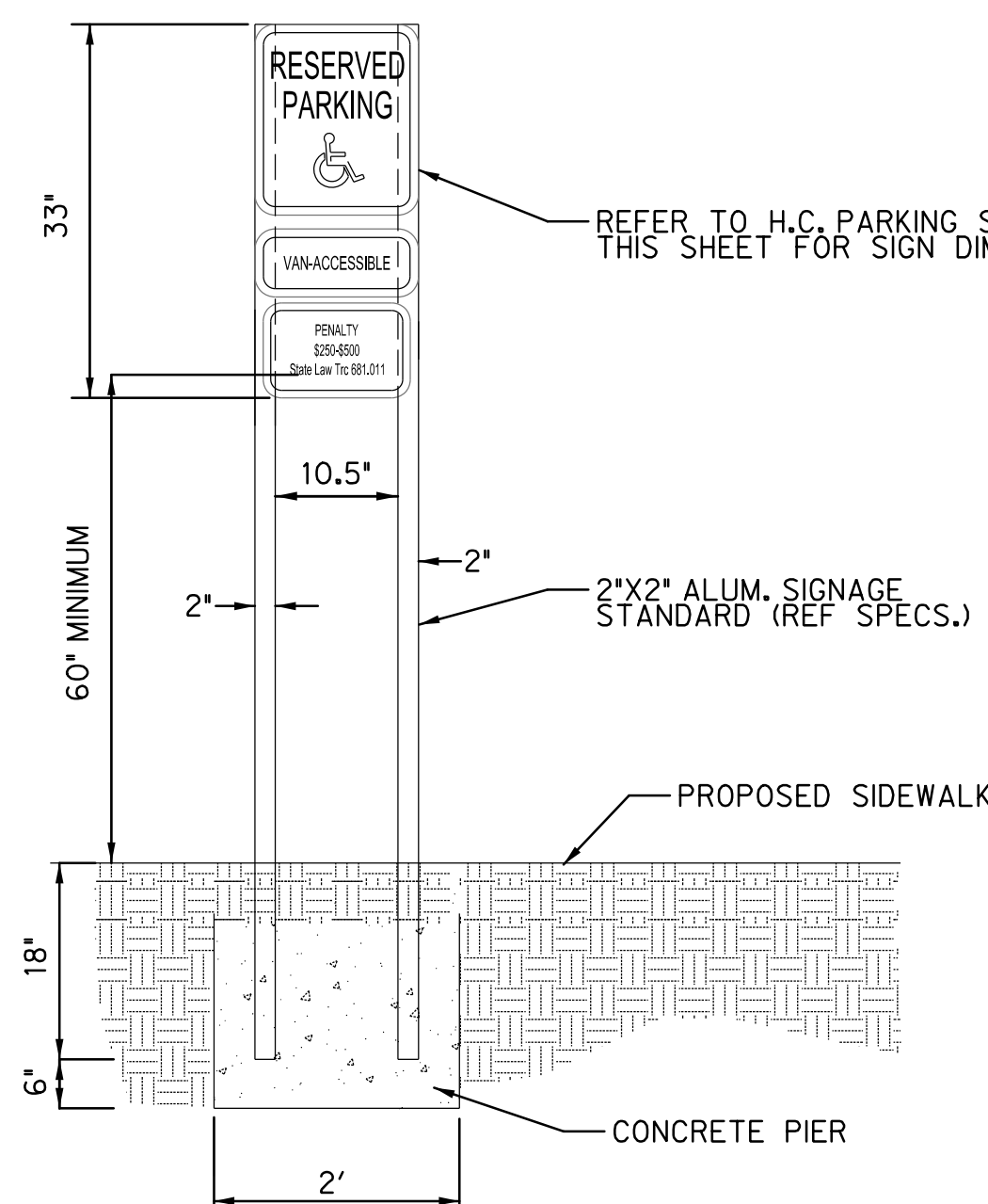


FIRE LANE STRIPING DETAIL
N.T.S.

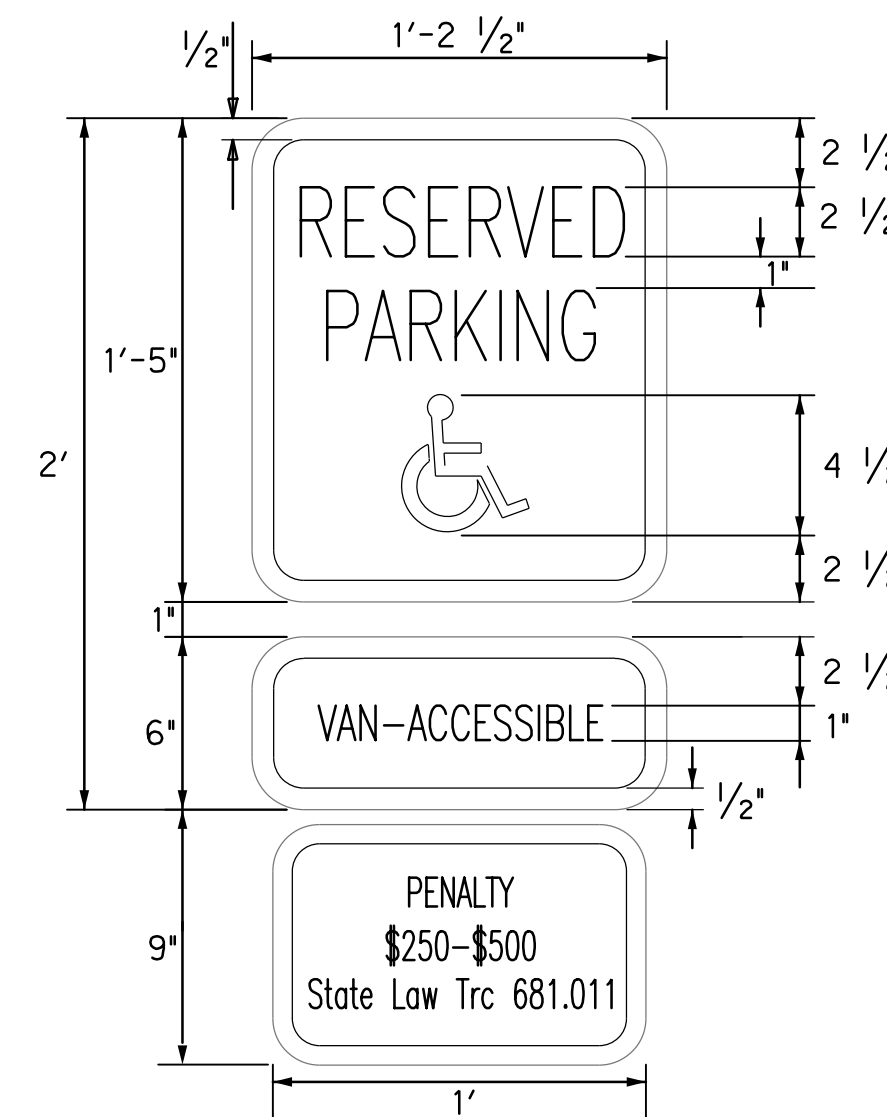
STRIPING DETAILS AND SPECIFICATIONS

- A. PAINT:
1. STRIPE SHALL BE SIX(6) INCHES WIDE PAINTED WITH AN EXTERIOR ACRYLIC LATEX PAINT. COLOR SHALL BE "TRAFFIC RED" GILDDEN NO. 63251 OR EQUAL.
 2. LETTERS SHALL BE FOUR(4) INCHES HIGH PAINTED WITH AN EXTERIOR ACRYLIC PAINT. COLOR SHALL BE "TRAFFIC WHITE" GILDDEN NO. 563245 OR EQUAL.
- B. APPLICATION:
1. STRIPE MAY BE BRUSHED OR SPRAYED, ONE COAT TO FINISH.
 2. LETTERS SHALL BE STENCIL FORMED, BRUSH APPLIED AND SPACED AS DETAILED ON THIS SHEET.
- C. IF FIRELANE STRIPING RUNS ALONGSIDE CURB, ENTIRE CURB MUST BE PAINTED AND LETTERED.

DIMENSIONS TYP. BOTH SIDES



H.C. PARKING SIGN
N.T.S.



COLORS:
LEGEND BORDER & SYMBOL - BLUE
BACKGROUND - WHITE

- NOTE:
1. VAN ACCESSIBLE SIGN REQUIRED
 2. SIGN MUST BE MINIMUM HIGH INTENSITY PRISMATIC SHEETING.
 3. NOTICE OF PENALTY SHALL BE SET OUT IN A SEPARATE SIGN, (12" WIDE x 9" HIGH) LOCATED IMMEDIATELY BENEATH THE SIGN THAT DEPICTS THE WHEEL CHAIR WITH THE LANGUAGE STATED ON THE SIGN.

CITY OF LUCAS
FIRE STATION
LUCAS, TEXAS



HALFF
ARCHITECTS
LUCAS, TEXAS
FLOWER WOUND, TEXAS 75028-8609
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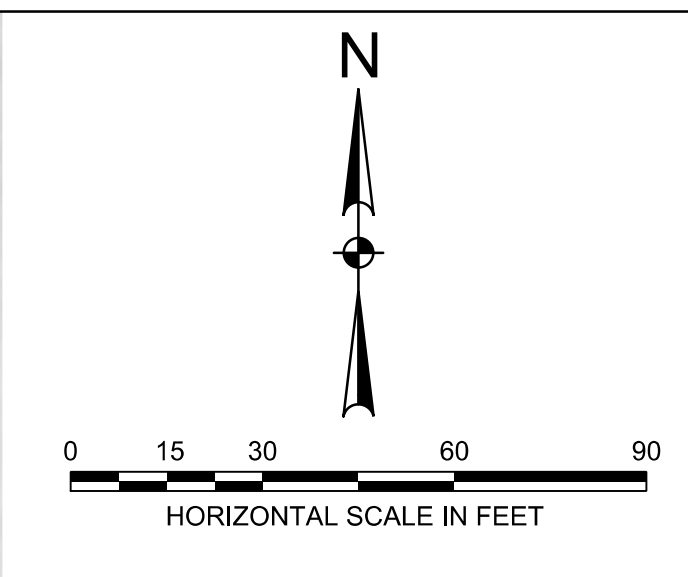
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Job No.
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Original Issue Date: 01/21/2014
Revisions:



LEGEND:

- TRAFFIC FLOW DIRECTION
- TYPE III BARRICADE
- TEMPORARY TRAFFIC CONTROL BARRIER
- TEMPORARY TRAFFIC CONTROL SIGN

NOTES

1. TRAFFIC CONTROL PLAN SHALL CONFORM TO TMUTCD (LATEST EDITION).
2. CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AT ALL TIMES.
3. SPEED LIMIT ON COUNTRY CLUB ROAD AND WEST LUCAS ROAD IS 50 MPH.

CITY OF LUCAS
FIRE STATION
LUCAS, TEXAS

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INC.
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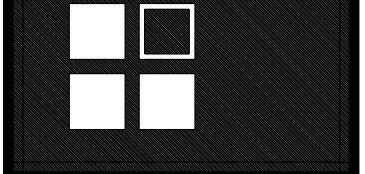
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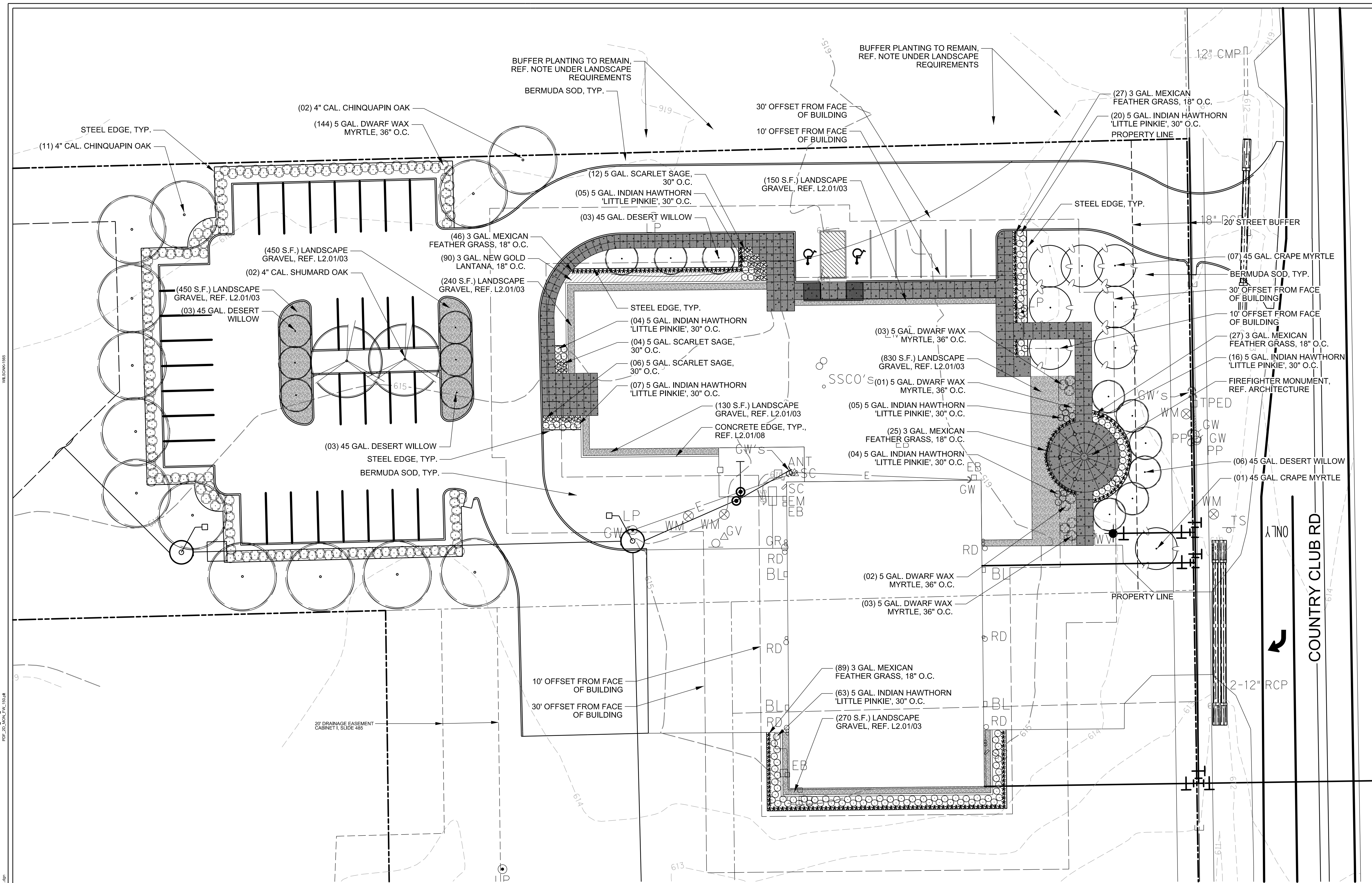


Job No.

1215

Sheet No.

C8.01



PLANT SCHEDULE

QUANTITY	COMMON NAME	SCIENTIFIC NAME	SIZE	HEIGHT	SPREAD	SPACING	GENERAL NOTES
TREES							
2	Shumard Oak	<i>Quercus shumardii</i>	4"	16'-18'	8'-10'	AS SHOWN	Nursery Grown, Full, Healthy, Well Formed, Straight Trunk
13	Chinquapin Oak	<i>Quercus muhlenbergii</i>	4"	16'-18'	8'-10'	AS SHOWN	Nursery Grown, Full, Healthy, Well Formed, Straight Trunk
15	Desert Willow	<i>Chilopsis linearis</i>	45 GAL.	10'-12'	5'-7'	AS SHOWN	Nursery Grown, Full, Healthy, Well Formed, 3 to 5 Canes
8	Crape Myrtle	<i>Lagerstroemia indica 'Natchez'</i>	45 GAL.	10'-12'	5'-7'	AS SHOWN	Nursery Grown, Full, Healthy, Well Formed, 3 to 5 Canes
SHRUBS							
153	Dwarf Wax Myrtle	<i>Myrica Pusilla</i>	5 GAL.	20"-24"	20"-24"	36" O.C.	Nursery Grown, Full, Healthy, Well Formed
124	Little Pinkie Indian Hawthorn	<i>Raphiolepis indica 'Little Pinkie'</i>	5 GAL.	18"-22"	18"-22"	30" O.C.	Nursery Grown, Full, Healthy, Well Formed
22	Scarlet Sage	<i>Salvia coccinea</i>	5 GAL.	18"-22"	18"-22"	30" O.C.	Nursery Grown, Full, Healthy, Well Formed
PERENNIALS AND GRASSES							
214	Mexican Feather Grass	<i>Stipa tenuissima</i>	3 GAL.	12"-18"	12"-18"	18" O.C.	Nursery Grown, Full, Healthy, Well Formed
90	New Gold Lantana	<i>Lantana 'New Gold'</i>	3 GAL.	12"-18"	12"-18"	18" O.C.	Nursery Grown, Full, Healthy, Well Formed
SOD GRASSES AND SEED							
	Bermuda Sod	<i>Cynodon dactylon</i>	SOD				Sold Sod, Full, Healthy, Weed Free
LANDSCAPE MATERIAL							
2730 SF	Landscape Gravel						Apache Brown Gravel, 1"-2" Diameter

CITY OF LUCAS

LANDSCAPE REQUIREMENTS	REQUIRED	PROVIDED
SITE AREA	87,094 SF	
LANDSCAPE AREA: 15% OF GROSS SITE AREA	13,064 SF	46,015 SF
STREET BUFFER (134 LF)		
TREES: 1 SHADE TREE PER 20 LF	7	14**
SHRUBS: 8 SHRUBS PER 20 LF	54	54
PARKING LOT PERIMETER (360 LF)		
TREES: 1 SHADE TREE PER 20 LF	18	***
SHRUBS: 8 SHRUBS PER 20 LF	144	144
PARKING LOT INTERIOR (41 SPACES)		
INTERIOR LANDSCAPE AREA: 5% OF TOTAL PARKING AREA (10,265 SF TOTAL)	650 SF	1,270 SF
TREES: 1 SHADE TREE PER 10 SPACES	5	5
PARKING LOT SCREENING FROM ADJACENT ROADS	YES	YES
*BUFFER ADJACENT TO RESIDENTIAL	YES	YES

NOTE: BUFFER PLANT MATERIAL IS PROVIDED THROUGH PRESERVATION OF EXISTING LIVING SCREEN ALONG NORTH PROPERTY LINE. BUFFER PLANTINGS SHALL BE REPLACED AT THE CITY'S DISCRETION IF DAMAGED OR DESTROYED DURING CONSTRUCTION.

**ORNAMENTAL TREES PROVIDED

***FEWER TREES PROVIDED DUE TO LIMITED AVAILABLE LANDSCAPE AREA

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL ABOVE GROUND AND UNDERGROUND UTILITIES. EXTREME CAUTION SHOULD BE EXERCISED WHEN EXCAVATING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AND SUBSEQUENT REPAIR TO ANY EXISTING UTILITIES.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL RECEIVE BERMUDA GRASS SOD UNLESS OTHERWISE NOTED.
- ALL PLANTING AREAS SHALL BE 3' MIN. AWAY FROM BUILDING FOUNDATION.
- ALL TREES SHALL BE PLANTED 30' MIN. AWAY FROM BUILDING FOUNDATION.
- ALL TREES SHALL BE LOCATED NO CLOSER THAN 5' FROM THE CENTER LINE OF ALL UNDERGROUND UTILITIES.
- ALL PLANTING BEDS ADJACENT TO THE BUILDING SHALL RECEIVE GRAVEL MULCH. ALL PLANTING BEDS AROUND THE PARKING LOT SHALL RECEIVE HARDWOOD MULCH.

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Revision No.	Date	Description

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JONATHAN H. WEST 2639
NAME R.L.A. NO.
DATE 04-04-2014
TBPE FIRM # F-312

Project No.: 29051
Issued: JANUARY 2014
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Checked By: KMW/JHW
Scale: AS NOTED
Sheet Title

LANDSCAPE PLAN
L1.01
Sheet Number

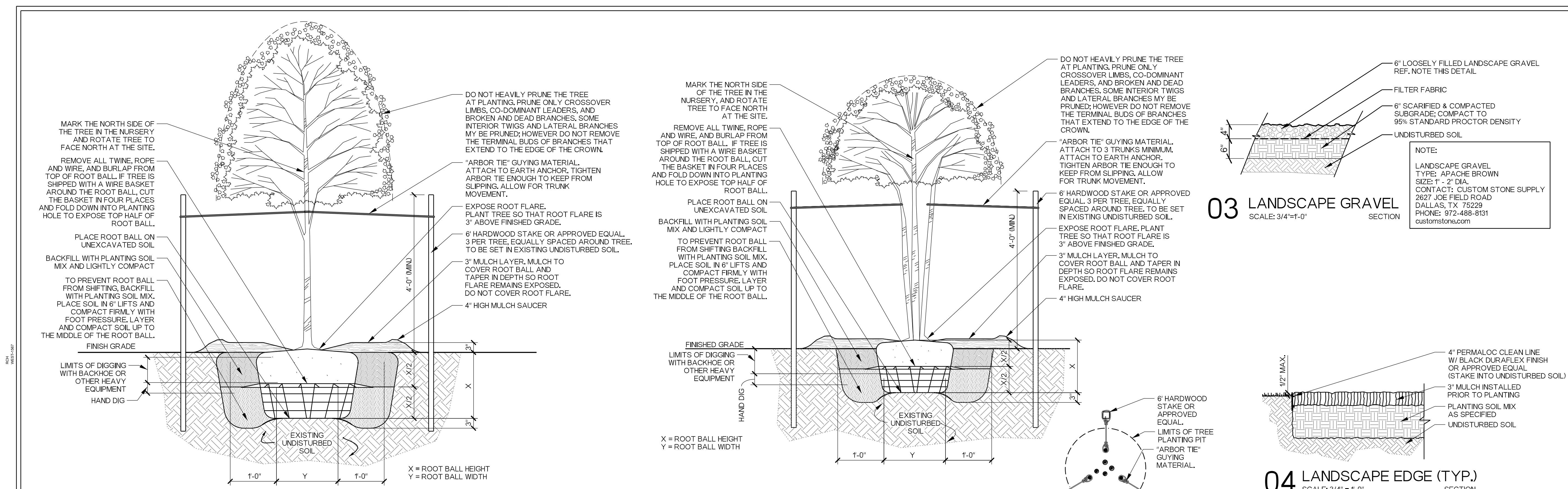
Original Issue Date: 01/21/2014
Revisions:

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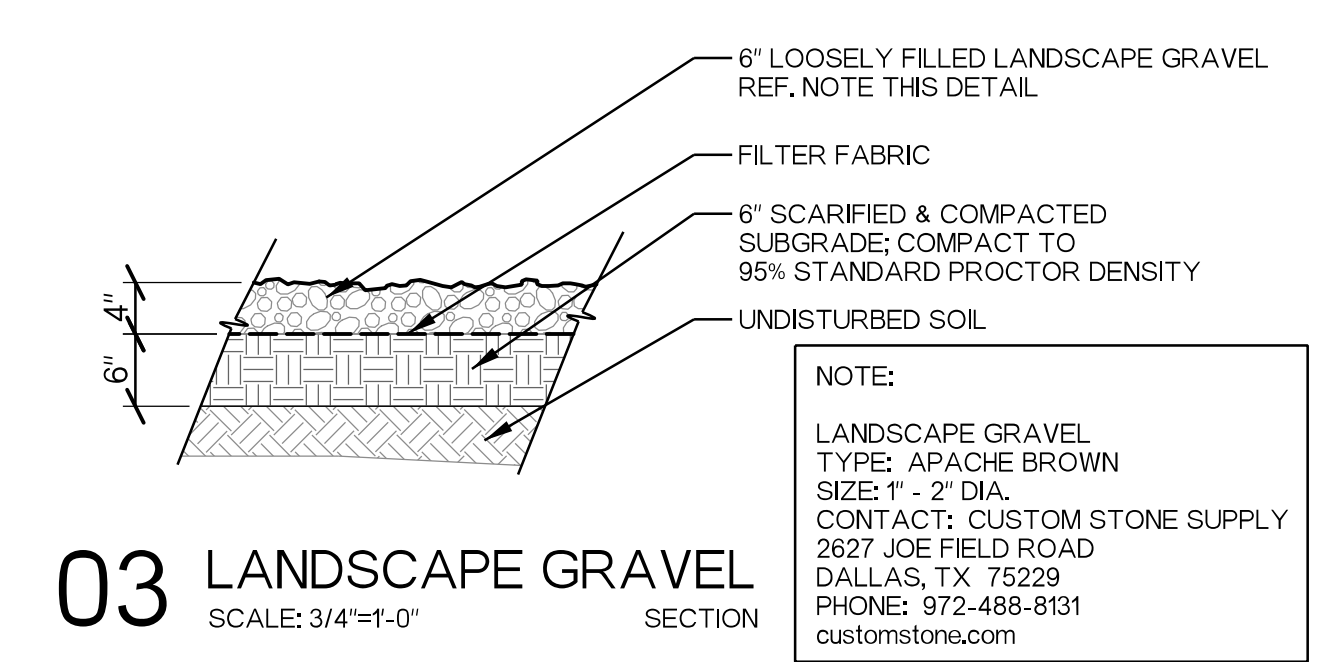
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1215

Sheet No.
L1.01

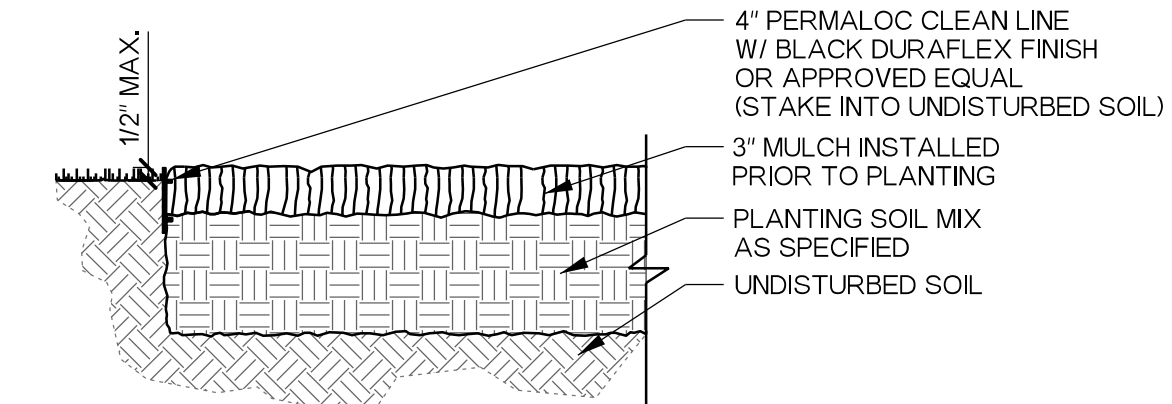


01 SINGLE-TRUNK TREE WITH STAKES
SCALE: 3/4"=1'-0"

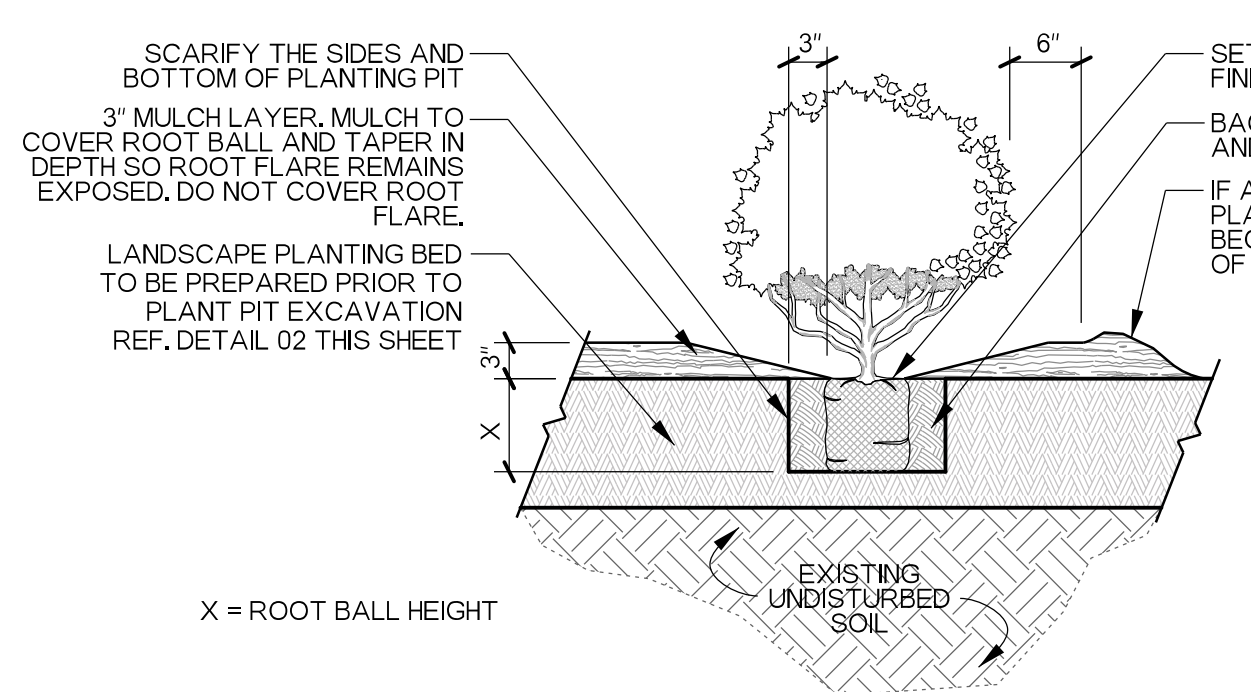
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SCALE: 3/4"=1'-0"



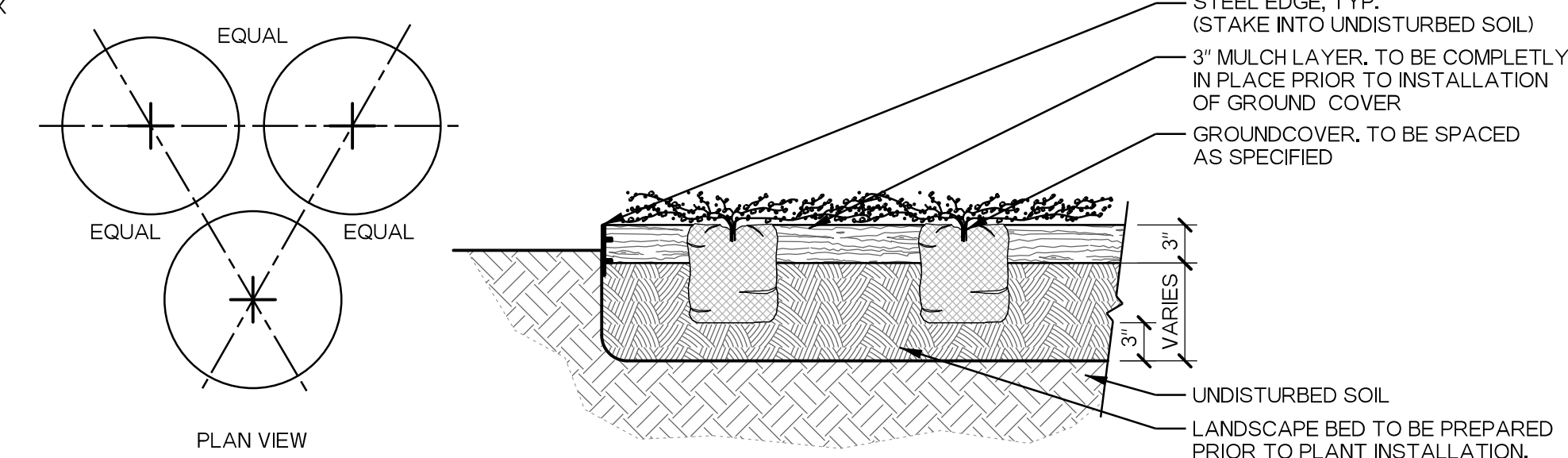
03 LANDSCAPE GRAVEL
SCALE: 3/4"=1'-0" SECTION



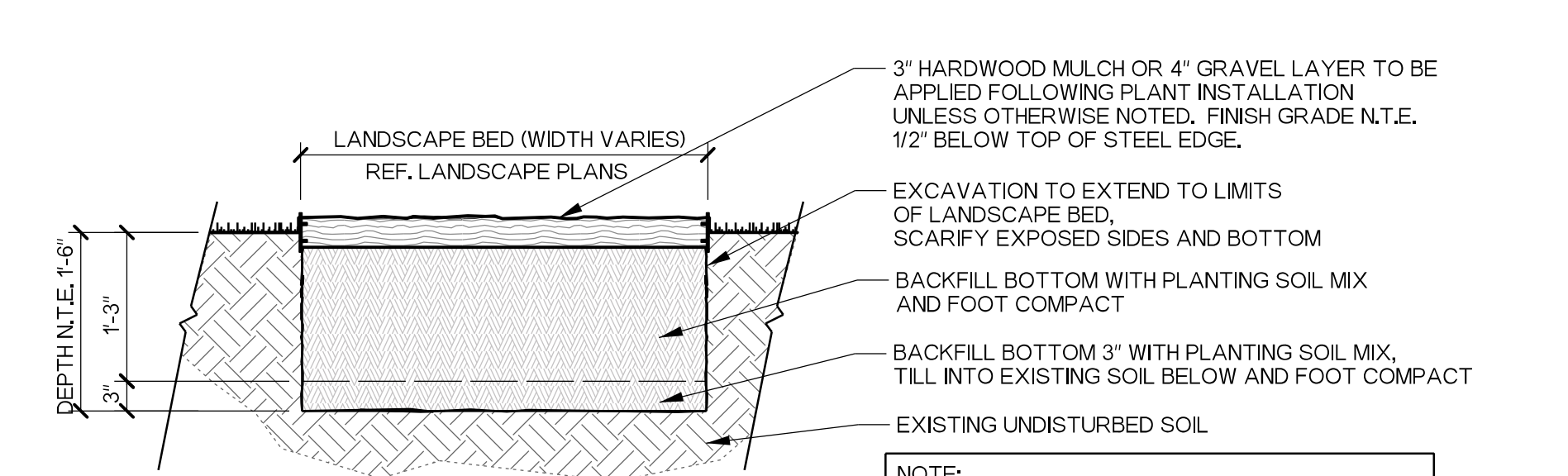
04 LANDSCAPE EDGE (TYP.)
SCALE: 3/4"=1'-0" SECTION



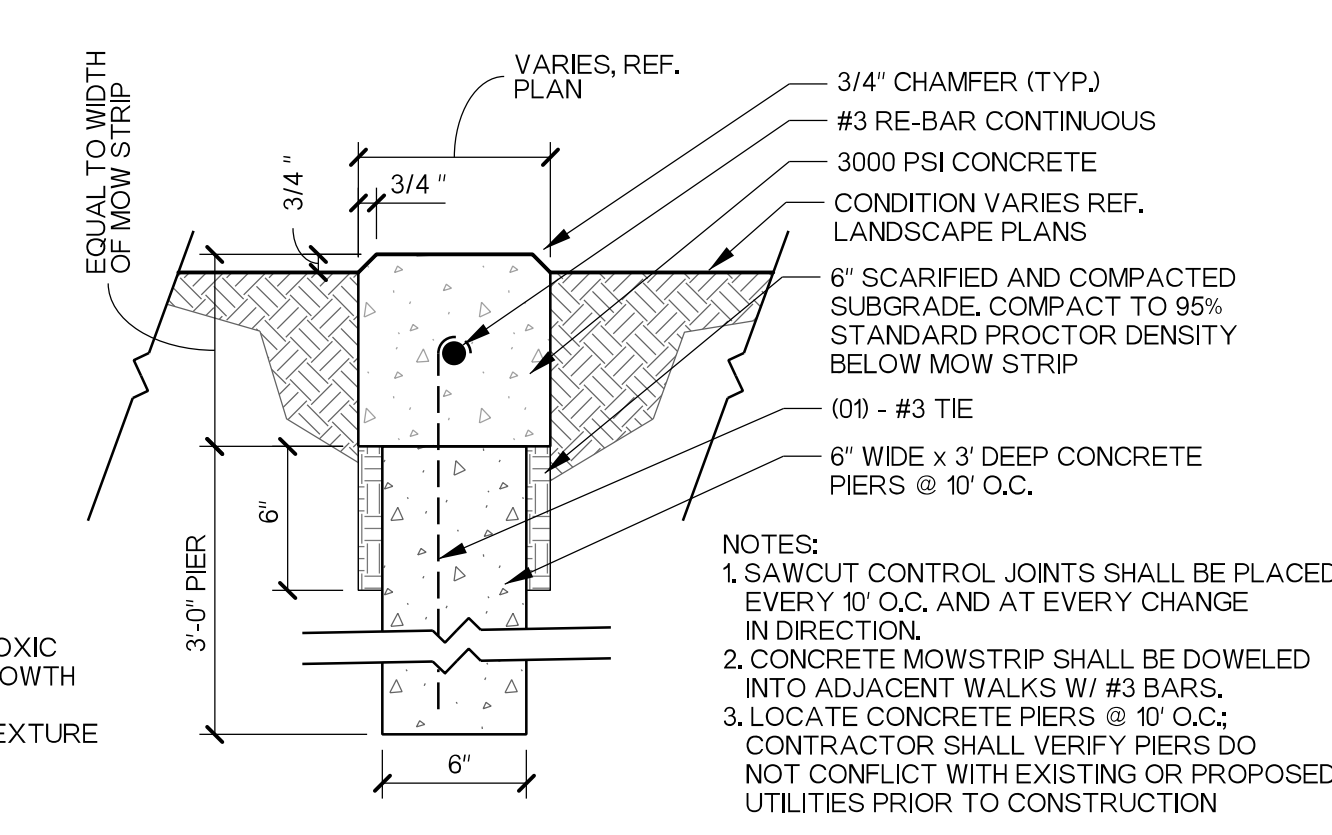
05 SHRUB PLANTING DETAIL
SCALE: 3/4"=1'-0" SECTION



06 GROUNDCOVER PLANTING DETAIL
SCALE: 1/2"=1'-0" SECTION



07 LANDSCAPE BED PREPARATION
SCALE: 3/4"=1'-0" SECTION



08 8" CONCRETE EDGE
SCALE: 1/2"=1'-0" SECTION

PLANTING SPECIFICATIONS

PREPARATION
LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CORRECT LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO THE INSTALLATION OF ANY PLANT MATERIALS.

PLANT LOCATIONS
REFER TO PLANTING PLAN FOR PLANTING LOCATION AND PLANT MATERIAL. LEGEND FOR SPECIFICATIONS. MATERIAL LOCATION TO BE STAKED IN THE FIELD AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.

GRADING AND DRAINAGE
Halt Associates, Inc. ASSUMES NO RESPONSIBILITY FOR FAILURE OF ANY HARDSCAPE AMENITY SUCH AS WALKS, ENTRANCES TO STRUCTURES, AND PLANTER BEDS FORMED OR ENCLOSED BY EDGING AND FLAT WORK WHICH DO NOT DRAIN DUE TO IMPROPER SET UP OF ELEVATIONS DURING CONSTRUCTION. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING, AND VERIFYING THAT WATER DRAINS AWAY FROM BUILDING.

COORDINATION
LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTORS ON SITE AS REQUIRED TO ACCOMPLISH ALL PLANTING OPERATIONS.

MAINTENANCE
LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANTING BEDS IN A WEED AND DEBRIS FREE CONDITION AND SHALL ACCOMPLISH WATERING BY HAND AS DEEMED NECESSARY UNTIL SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL MAINTAIN ALL WORK FOR A PERIOD OF 30 DAYS AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE.

VERIFICATION
LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL QUANTITIES PER DRAWINGS AND SPECIFICATION BY LANDSCAPE ARCHITECT. PLANT QUANTITIES HAVE BEEN PROVIDED AS A CONVENIENCE ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE. LANDSCAPE ARCHITECT TO BE NOTIFIED IF DISCREPANCIES OCCUR. OTHERWISE, THE CONTRACTOR IS TO BID THEIR OWN VERIFIED QUANTITIES PER LANDSCAPE PLAN.

PLANTING BEDS
ALL BED AREAS ARE TO BE LEFT 3" ABOVE FINISHED GRADE OF ADJACENT PAVEMENT TO INCLUDE 3" OF MULCH AFTER COMPACTION AND SETTLEMENT. ALL BED AREAS SHALL BE ROTOTILLED TO A DEPTH OF 6", ADDING PREPARED SOIL MIXTURE AS REQUIRED.

MULCH
AFTER SETTLEMENT AND COMPACTION ALL PLANTING BEDS SHALL RECEIVE A MINIMUM 3" LAYER OF MULCH. ALL AREAS DISTURBED BY PLANTING OPERATIONS SHALL BE FINE GRADED AND RE-SEEDED.

PLANT MATERIAL STANDARDS
ALL PLANT MATERIAL SHALL CONFORM TO THE SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE "AMERICAN STANDARD FOR NURSERY STOCK", LATEST EDITION. ALL PLANTING SHALL BE IN ACCORDANCE WITH STANDARD AMERICAN ASSOCIATION OF NURSERYMEN PROCEDURES AND SPECIFICATIONS. LANDSCAPE ARCHITECT SHALL APPROVE ANY PLANT SUBSTITUTION.

PRUNING
ALL TREES ARE TO BE PRUNED AT TIME OF INSTALLATION TO REMOVE DEAD AND UNSIGHTLY LIMBS. ALL TREES ARE TO MATCH IN HEIGHT, SPREAD, AND CLEAR TRUNK, AND SHALL HAVE STRAIGHT TRUNKS.

TREE SUPPORT
TREES SHALL BE SUPPORTED WITH THE APPROVED METHOD FOR A PERIOD OF ONE YEAR AT WHICH TIME THE OWNER SHALL DETERMINE IF REMOVAL IS NECESSARY.

WARRANTY
ALL PLANT MATERIAL TO BE GUARANTEED FOR A PERIOD OF ONE-YEAR FROM SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER.

IRRIGATION SYSTEM
IRRIGATION CONTRACTOR TO INSTALL NEW IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE FOR AFFECTED TURF AND BED AREAS.

PLANTING SOIL MIXTURE
50% SAND AND SOIL MIX (SEE DESCRIPTION BELOW)
50% BALANCED COMPOST (SEE DESCRIPTION BELOW)

SAND AND SOIL MIX DESCRIPTION:
SHARP SAND; SAND EXCAVATED FROM A MINIMUM OF 20 FEET BELOW GROUND LEVEL. SCREENED NATIVE SOIL; WELL ADAPTED NATIVE SOIL FROM SOURCES A MAXIMUM DISTANCE OF 200 METERS FROM THE PROJECT SITE.

BALANCED COMPOST DESCRIPTION:
WELL-COMPOSTED, MANUFACTURED SOIL BLENDS STABLE AND WEED-FREE ORGANIC MATTER PH RANGE OF 6.5 TO 8.
MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT
100 PERCENT PASSING THROUGH 1/8" INCH SIEVE
SOLUBLE SALT CONTENT OF 5 TO 10 DECISEMENS/M
NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. PURELY EXCAVATED SOIL WILL NOT BE PERMITTED.
COMPOST CAN HAVE MATERIALS AS FOLLOWS:
1. WOOD DERIVATIVES: DECOMPOSED, NITROGEN-TREATED SAWDUST, GROUND BARK, OR WOOD WASTE OF UNIFORM TEXTURE AND FREE OF CHIPS, STONES, STICKS, SOIL, OR TOXIC MATERIAL.
2. MANURE: EITHER TREATED OR UNTREATED, PALLETS OR CONSTRUCTION WASTE WILL NOT BE PERMITTED AS A WOOD DERIVATIVE.
3. SEWAGE, SLUDGE, AND RAW MANURE WILL NOT BE PERMITTED.
4. LUMBER, EITHER TREATED OR UNTREATED, PALLETS OR CONSTRUCTION WASTE WILL NOT BE PERMITTED AS A WOOD DERIVATIVE.
5. MANURE: WELL-ROTTED, UNLEACHED, STABLE OR CATTLE MANURE CONTAINING NOT MORE THAN 25 PERCENT BY VOLUME OF STRAW, SAWDUST, OR OTHER BEDDING MATERIALS; FREE OF TOXIC SUBSTANCES, STONES, STICKS, SOIL, WEED SEED, DEBRIS, AND MATERIAL HARMFUL TO PLANT GROWTH.
6. SEWAGE, SLUDGE, AND RAW MANURE WILL NOT BE PERMITTED.
7. LANDSCAPE TRIMMINGS: DECOMPOSED GRASS, LEAVES, WOOD CHIPS, OR BRUSH OF UNIFORM TEXTURE AND FREE OF STICKS, STONES, OR TOXIC MATERIAL.
8. ADDITIONAL REQUIREMENTS:
a. DEVELOPED USING AN EXTENSIVE AEROBIC COMPOSTING PROCESS.
b. SCHEDULED TURNS WITH A MINIMUM OF 5 TURNS.
c. COMPLETELY COMPOSTED FOR A MINIMUM OF 6-12 MONTHS
d. ACHIEVES A SOLVITA COMPOST MATURITY INDEX VALUE OF 7 OR HIGHER
e. MEET OR EXCEED THE TIME AND TEMPERATURE STANDARDS SET IN T.A.C. CHAPTER 332, SUBCHAPTER B, PART 23 AS REQUIRED BY THE TCEQ/TMRC
f. MEET FEDERAL SPECIFICATION UNDER GUIDELINES OF 40 CFR, PART 503, STANDARDS FOR CLASS A BIOSOLIDS.
g. HAVE A HIGH CONCENTRATION OF AEROBIC COMPOSTED ORGANIC MATTER AS DETERMINED BY ASTM D-5268 AT 824 F.

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DATE 04-04-2014
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Project No.: 29051
Issued: 4/4/2014
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Sheet Title: LANDSCAPE DETAILS
Sheet Number: L2.01

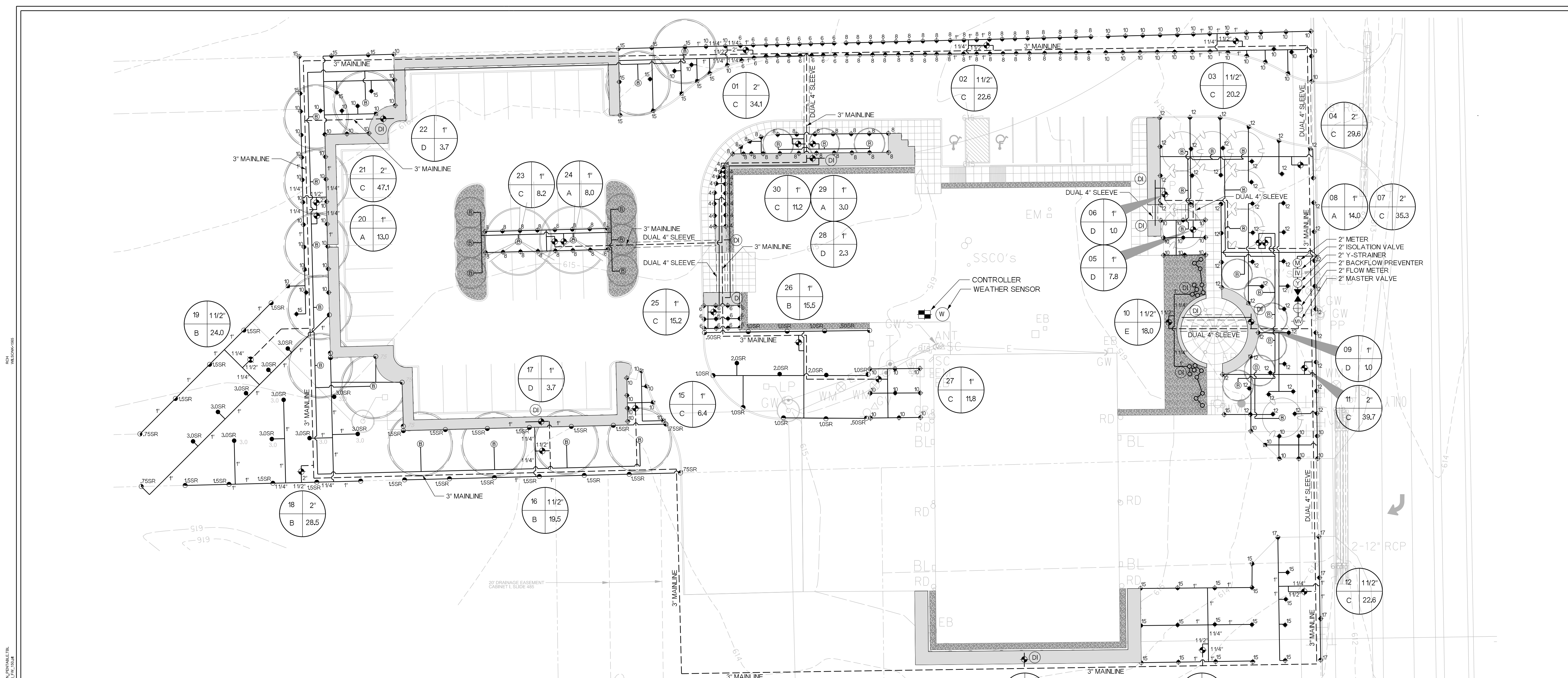
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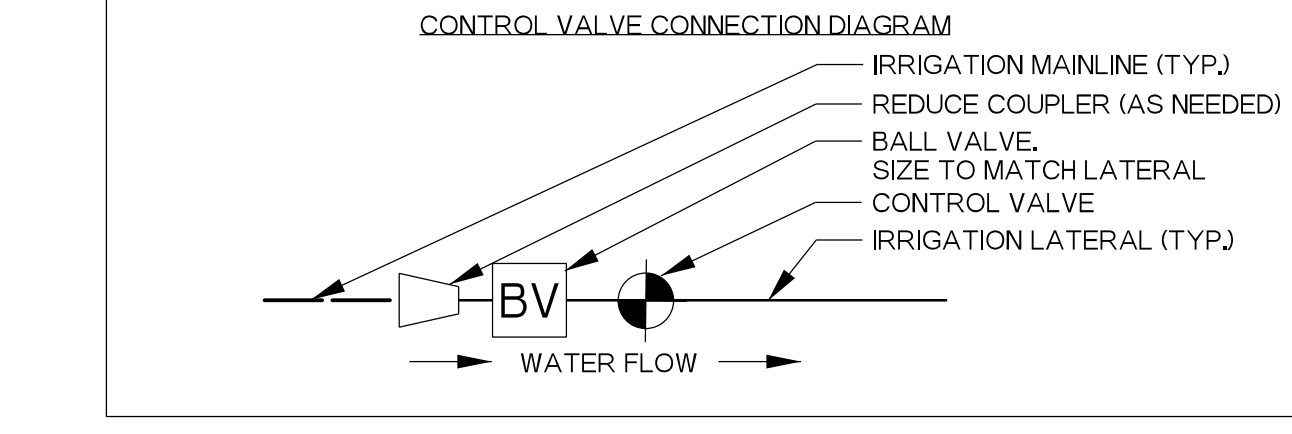
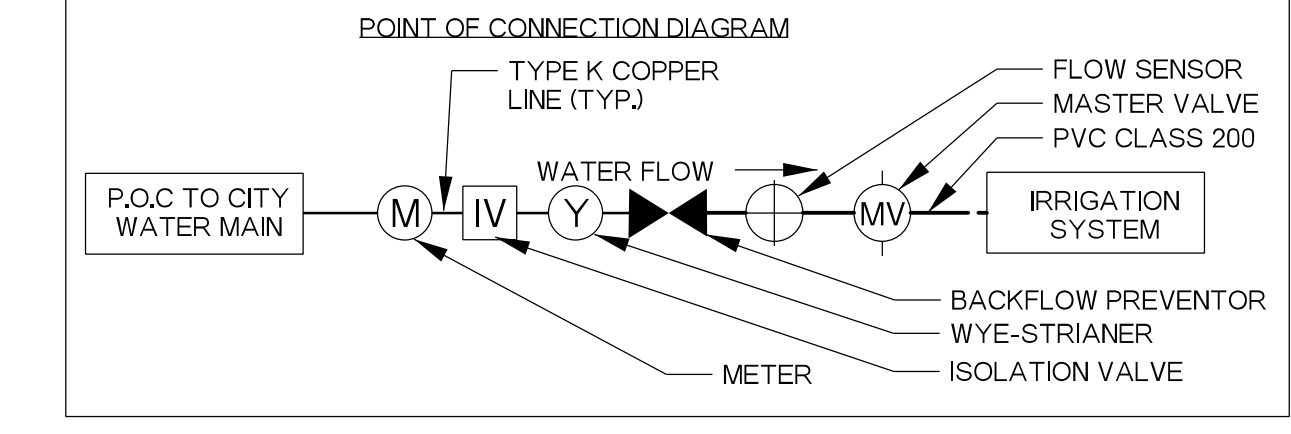
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Job No. 1215

Sheet No. L2.01

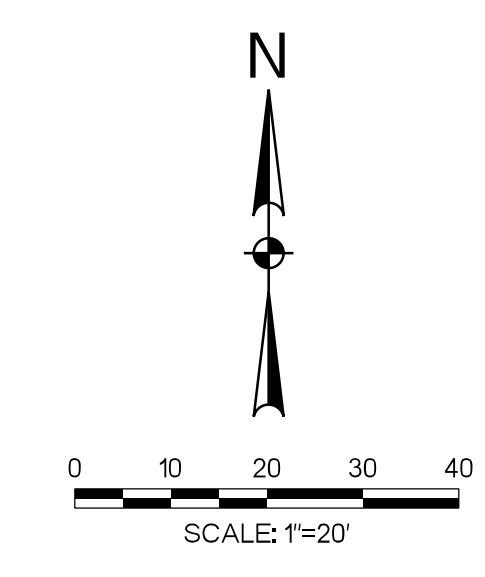


SYMBOL	DESCRIPTION	SPECIFICATIONS	SYMBOL	DESCRIPTION	SPECIFICATIONS	SYMBOL	DESCRIPTION	SPECIFICATIONS
	TYPE 'A' TREE BUBBLERS	MANUFACTURER: HUNTER HEAD: PROS-06-CV NOZZLE: MSBN-50H MIN HEAD PRESSURE: 30 PSI		WEATHER SENSOR	MANUFACTURER: HUNTER MODEL: SOLAR SYNC-SEN		LINE FLUSH VALVE	MANUFACTURER: NETAFIM NOTE: INSTALL AT LOWEST POINT IN EACH ZONE. INSTALL 2 IN EACH DRIP BED, AND 1 FOR EACH TREE.
	TYPE 'B' ROTOR	MANUFACTURER: HUNTER HEAD: 1-20 BLUE STANDARD NOZZLE NOZZLE: Q = 2.0, H = 4.0, F = 8.0 RADIUS: REF PLAN MIN HEAD PRESSURE: 30 PSI		METER	MANUFACTURER: PER CITY REQUIREMENTS SIZE: 2"		DRIP OPERATION INDICATOR	MANUFACTURER: RAINBIRD MODEL: YER-POP OPERATION INDICATOR, XP-1200X NOTE: INSTALL ONE (1) IN EACH BED. TIGHTEN THROW SCREW ALL THE WAY DOWN FOR ZERO FLOW.
	TYPE 'C' SPRAY	MANUFACTURER: HUNTER HEAD: PROS-06-CV NOZZLES: REF PLAN MIN HEAD PRESSURE: 30 PSI		ISOLATION VALVE	MANUFACTURER: NIBCO MODEL: T-585-70 SIZE: 2"		LATERAL PIPING	SIZE: 1" UNLESS NOTE OTHERWISE TYPE: SDR 21 PVC CLASS 200 PIPE
	TYPE 'D' SHRUB BED DRIP IRRIGATION	MANUFACTURER: NETAFIM TECHLINE: TLD3-12 INLET PRESSURE: 15 PSI INST ALL PRESSURE REGULATOR KIT LVCZ10075-HF		Y-STRAINER	MANUFACTURER: WILKINS MODEL: SXL SIZE: 2"		MAIN LINE PIPING	SIZE: 3" TYPE: SDR 21 PVC CLASS 200 PIPE
	TYPE 'E' SHRUB IRRIGATION DRIP RING	MANUFACTURER: NETAFIM TECHLINE: TLD3-12 INLET PRESSURE: 15 PSI INST ALL PRESSURE REGULATOR KIT LVCZ10075-HF		DOUBLE CHECK VALVE ASSEMBLY	MANUFACTURER: FEBCO MODEL: SERIES 850 SIZE: 1 1/2"		DUAL PIPE SLEEVE	SIZE: 4" TYPE: PVC SCHEDULE 40 PLASTIC PIPE WATER LINE AND CONTROL WIRING SHALL BE LOCATED IN SEPARATE SLEEVES.
	CONTROLLER	MANUFACTURER: HUNTER MODEL: I-CORE WITH METAL PEDESTAL		FLOW SENSOR	MANUFACTURER: HUNTER MODEL: FLOW-CLK, FCT-300 SIZE: 2"		VALVE INDICATOR	
				MASTER VALVE	MANUFACTURER: HUNTER MODEL: ICV SIZE: 2"		STATION NO. VALVE SIZE	
				REMOTE CONTROL VALVE	MANUFACTURER: HUNTER MODEL: ICV SIZE: PER PLAN INSTALL WITH HUNTER, ICD-100 DECODER		IRRIGATION TYPE	
				UTILITY BALL VALVE	MANUFACTURER: SPEARS TYPE: PVC, THREADED SIZE: 2"			

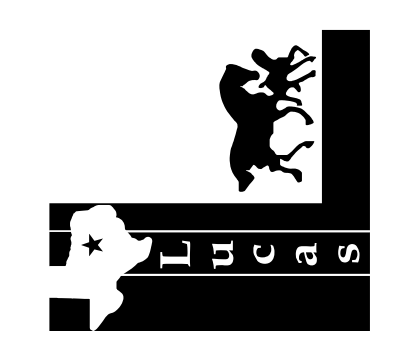


NOTES:

- IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. PIPE, VALVE AND IRRIGATION SYSTEM COMPONENT LOCATIONS MAY BE SHOWN IN PAVED AREAS FOR DESIGN CLARIFICATION. ALL SYSTEM COMPONENTS WILL BE IN TURF OR LANDSCAPED AREAS WHERE POSSIBLE. ADJUST LOCATION OF ALL COMPONENTS TO COMPENSATE FOR FINAL SITE CONDITIONS AND PROVIDE OPTIMAL WATER COVERAGE, AVOID DAMAGE TO EXISTING OR PROPOSED IMPROVEMENTS ON PROJECT SITE. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSTALLING A COMPLETE IRRIGATION SYSTEM.
- IRRIGATION CONTRACTOR TO COORDINATE PLACEMENT OF ALL REQUIRED SLEEVES UNDER PAVING.
- ALL CONTROL WIRING TO BE BURIED UNDER OR ALONG SIDE OF MAIN LINE IN TRENCHES, TRENCHES FOR MAIN LINE TO BE A MINIMUM DEPTH OF 8" BELOW FINISHED GRADE. TRENCHES FOR LATERAL LINES TO BE A MINIMUM DEPTH OF 12" BELOW GRADE.
- SYSTEM PRESSURE IS BASED ON A STATIC PRESSURE OF 65.00 PSI WITH A DESIGN PRESSURE OF 65.00 AT THE POINT OF CONNECTION TO THE WATER LINE. CONTRACTOR SHALL TEST AVAILABLE PRESSURE AND SUBMIT RESULTS TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK. IN NO CASE SHALL CONTRACTOR COMMENCE WITH CONSTRUCTION IF MEASURED PRESSURE AT POINT OF CONNECTION IS LESS THAN REQUIRED SYSTEM PRESSURE. FAILURE TO CONTACT THE OWNER'S REPRESENTATIVE SHOULD A DISCREPANCY OCCUR, WILL RESULT IN THE CONTRACTOR MAKING NECESSARY CHANGES TO THE IRRIGATION SYSTEM TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE LOCAL CODES AND REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UNDERGROUND UTILITIES OR OBSTACLES. CONTRACTOR SHALL REPAIR ALL DAMAGE RESULTING FROM HIS OPERATIONS, AT NO COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PLANT MATERIAL DUE TO SYSTEM FAILURE OR INFERIOR WORKMANSHIP DURING THE INSTALLATION OF PLANTS AND MAINTENANCE PERIOD.
- THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ELECTRICAL CONNECTION FOR CONTROLLERS. THIS SHALL INCLUDE ALL NECESSARY FUSE BOXES OR OTHER ELECTRICAL OPERATIONALS.
- THE IRRIGATION CONTRACTOR SHALL COORDINATE OPERATIONAL REQUIREMENTS OF THE IRRIGATION SYSTEM WITH THE OWNER.



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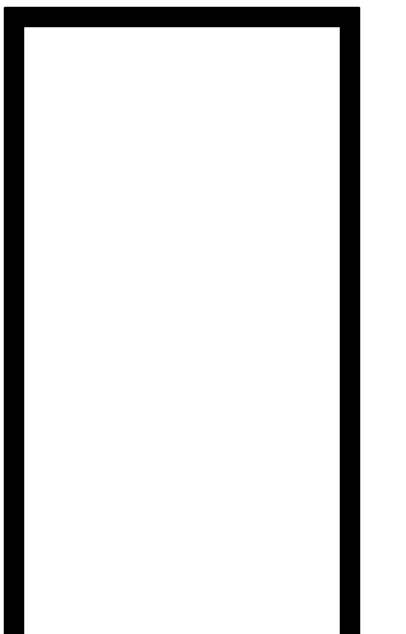
KIRK M. WILSON 18011
NAME L.L. NO.
DATE 4/9/2014

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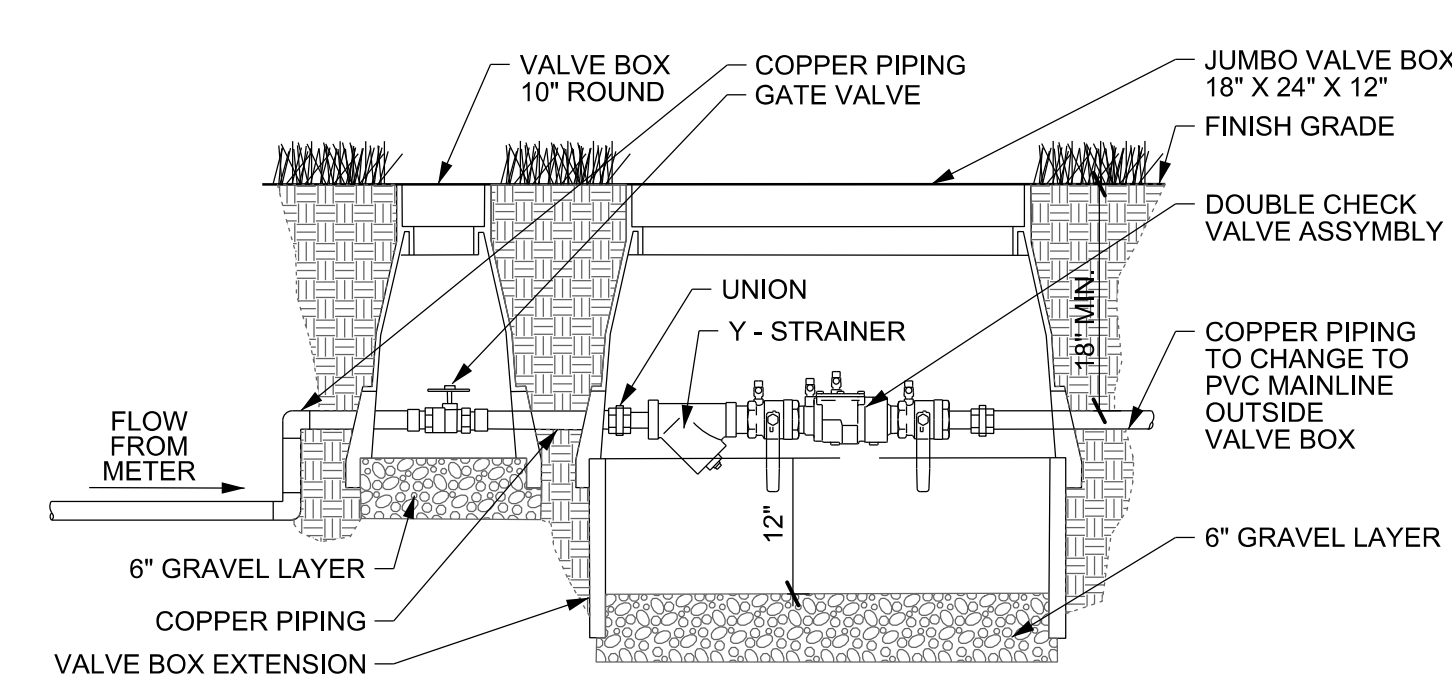
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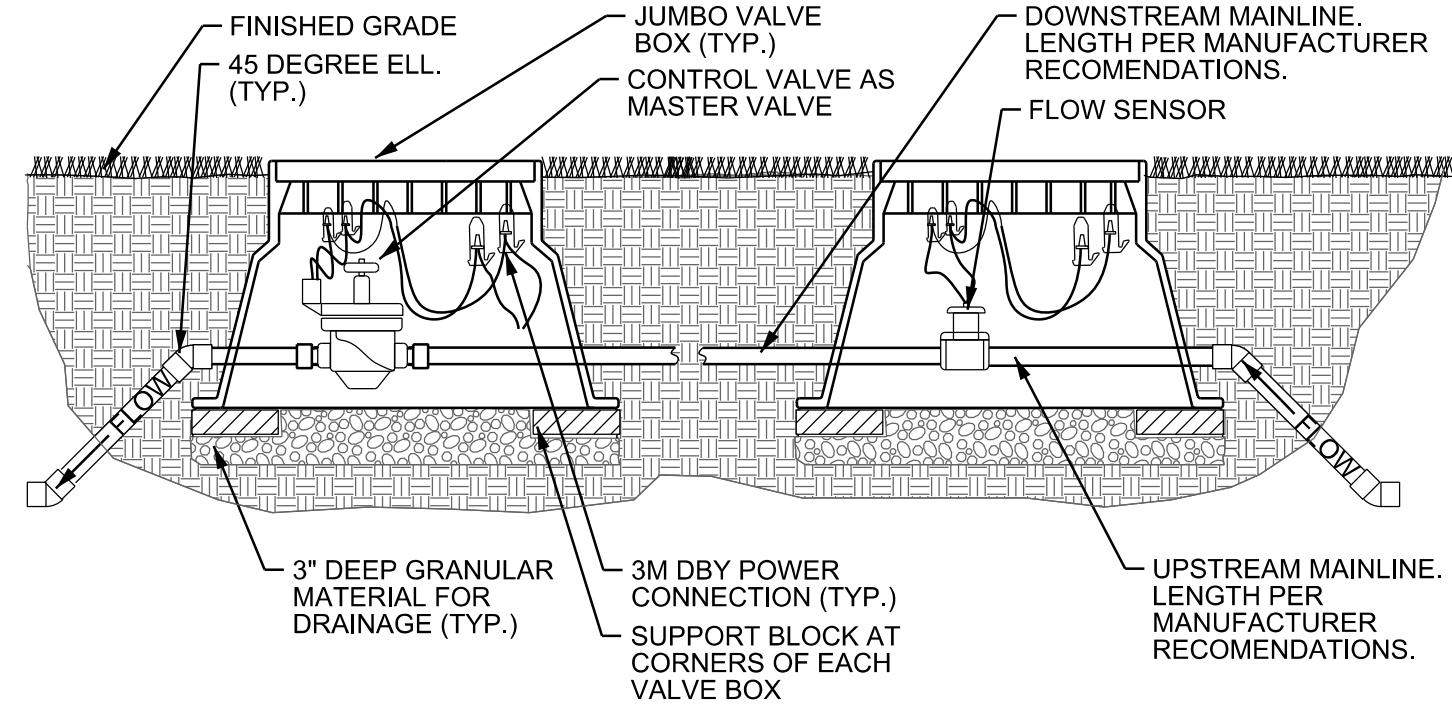


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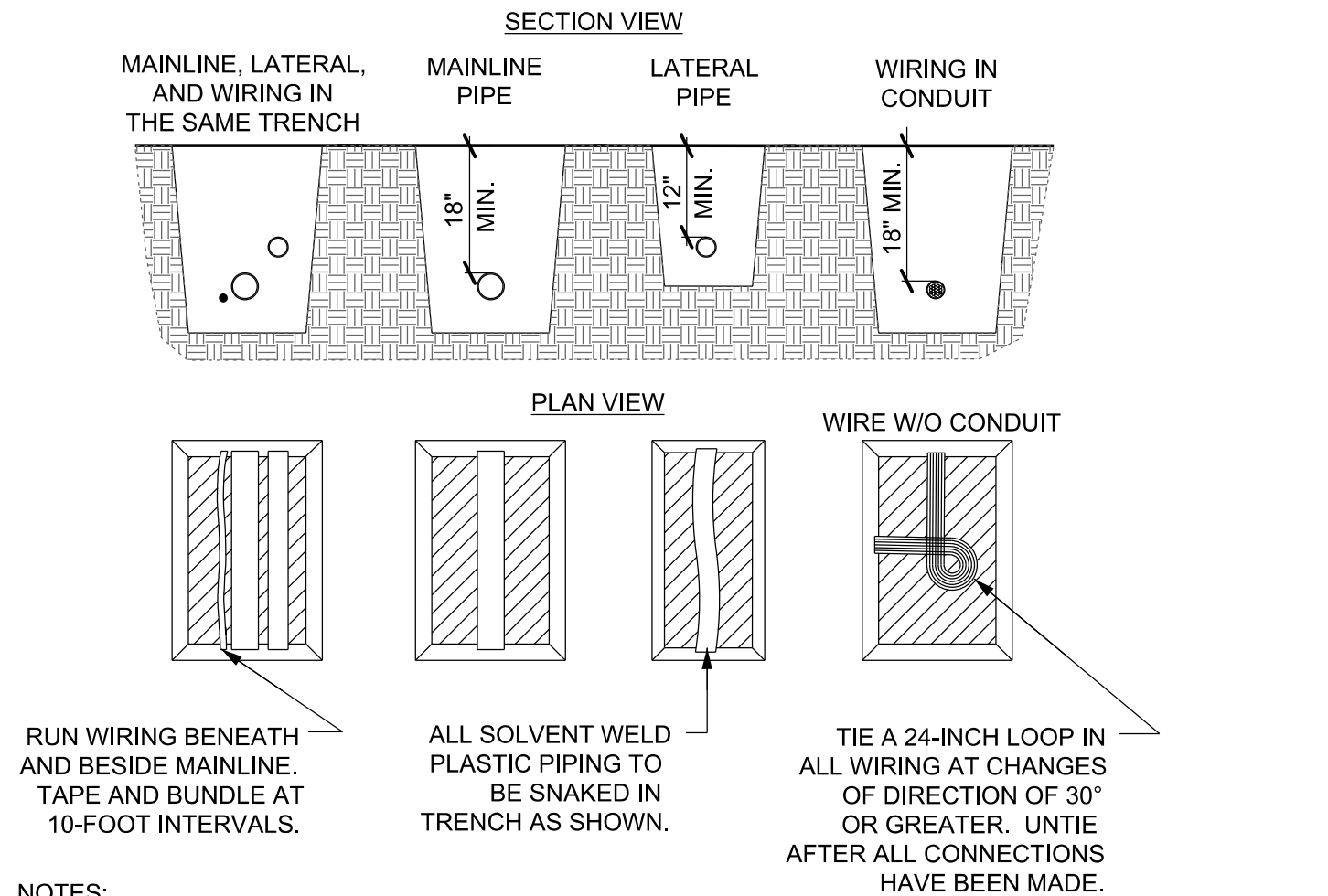
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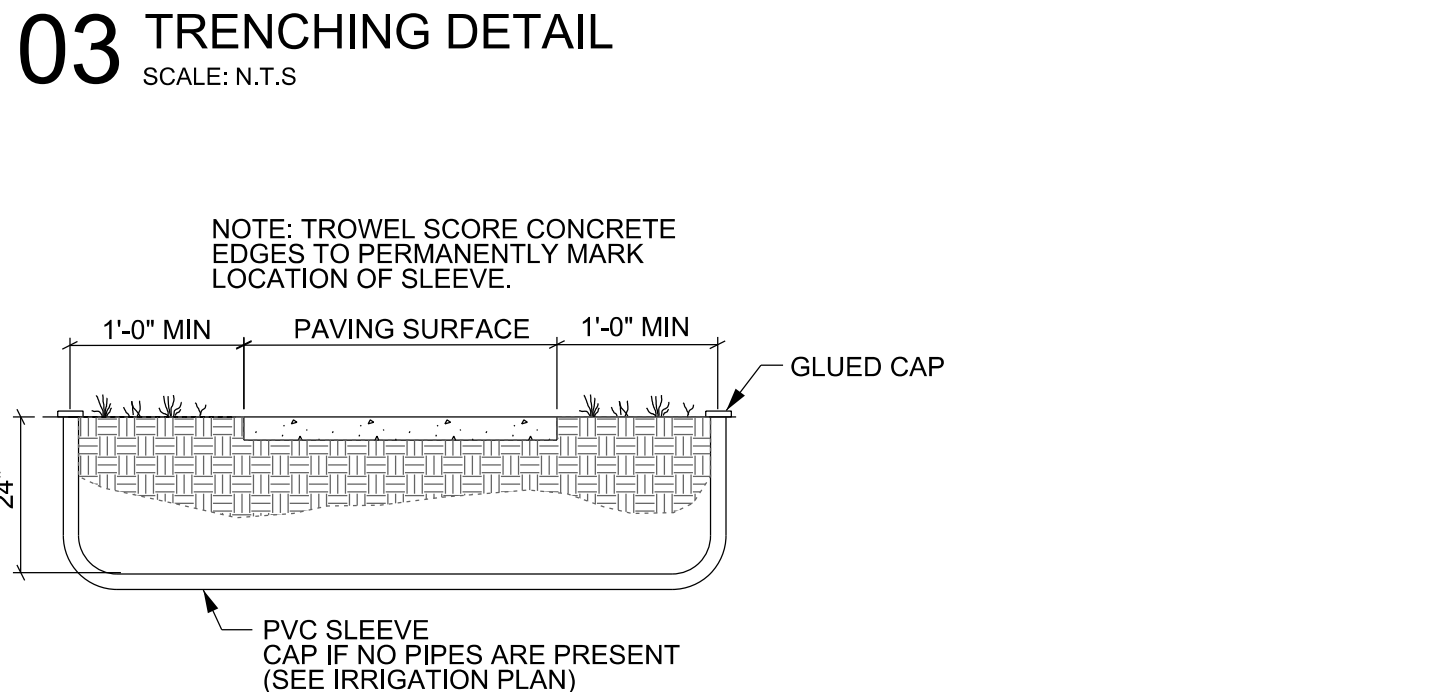
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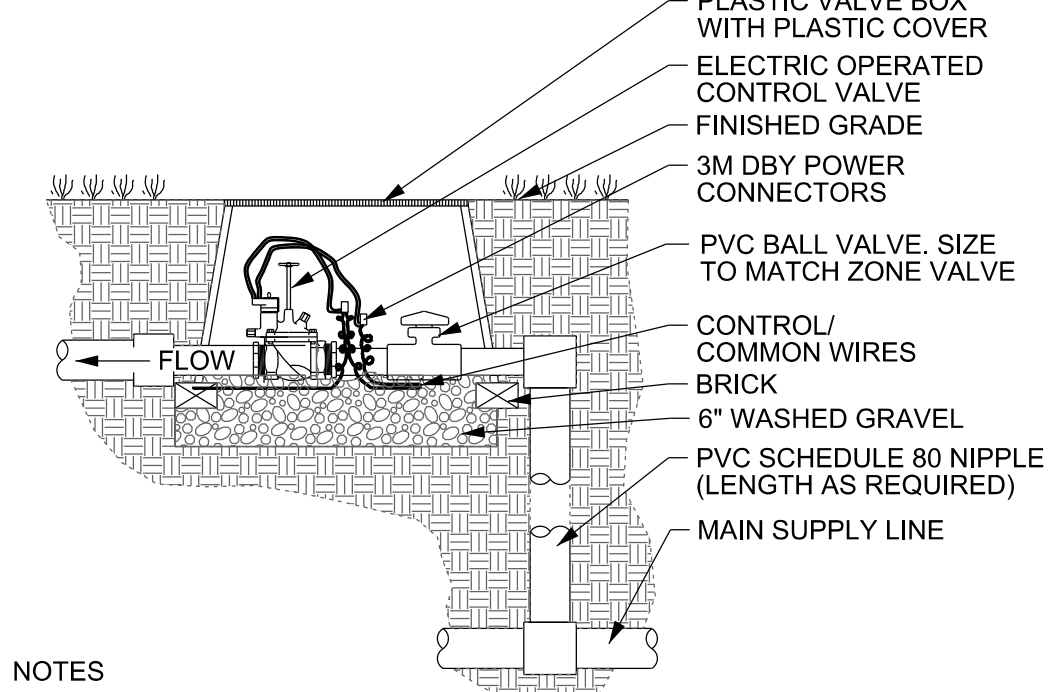
02 MASTER VALVE & FLOW METER DETAIL
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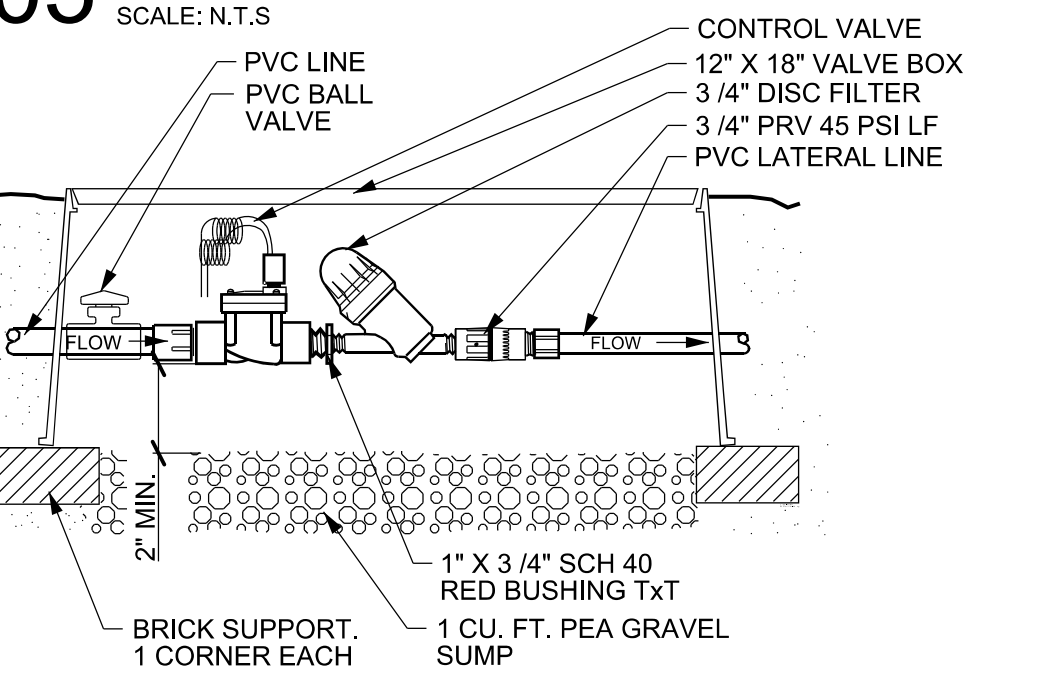
03 TRENCHING DETAIL
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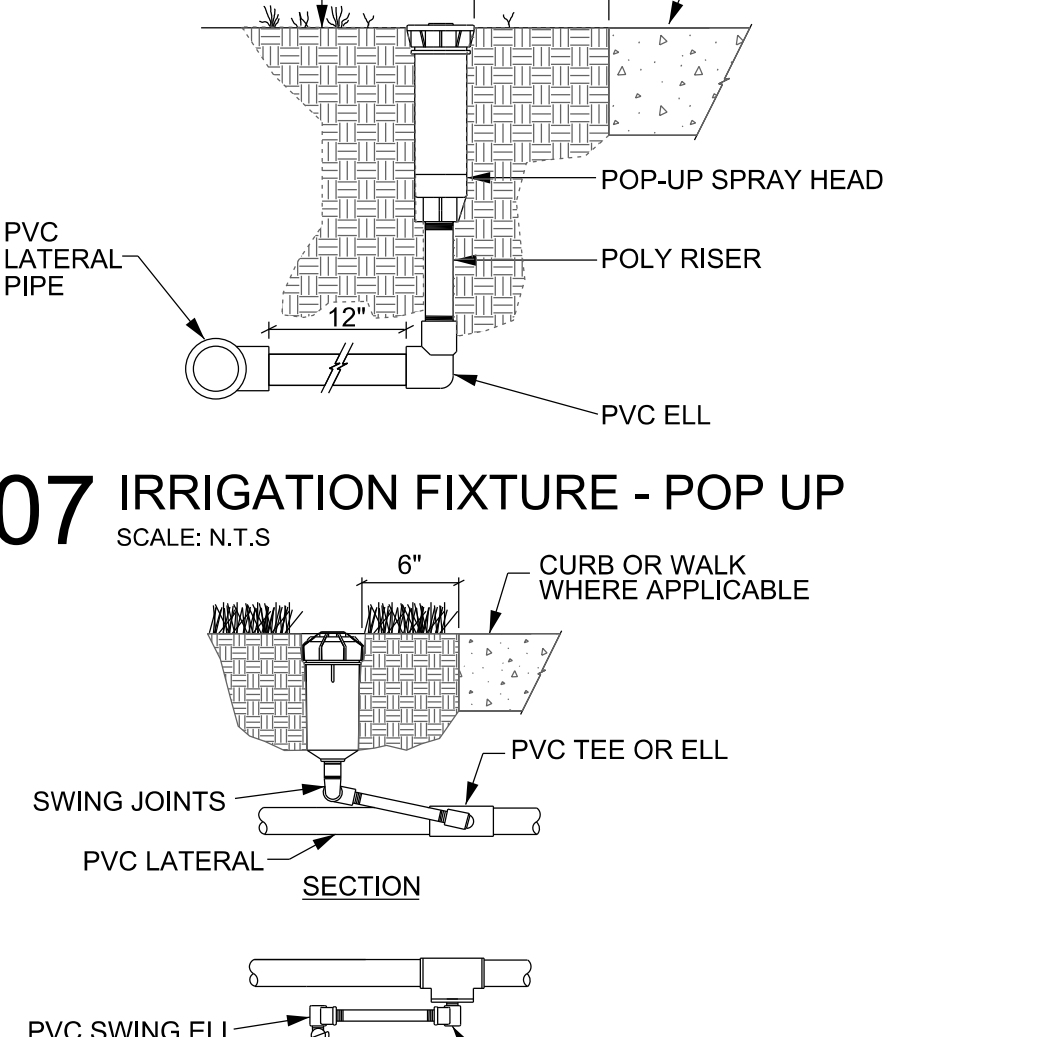
04 IRRIGATION SLEEVE DETAIL
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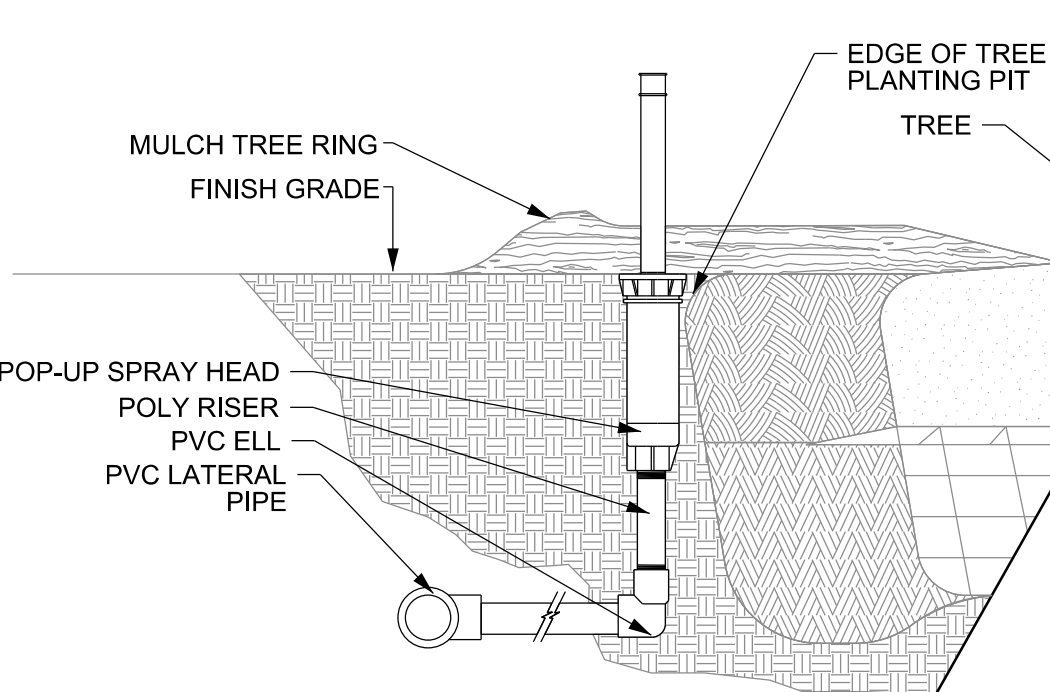
05 CONTROL VALVE DETAIL
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06 CONTROL VALVE WITH VOLUM CONTROL VALVE
SCALE: N.T.S.



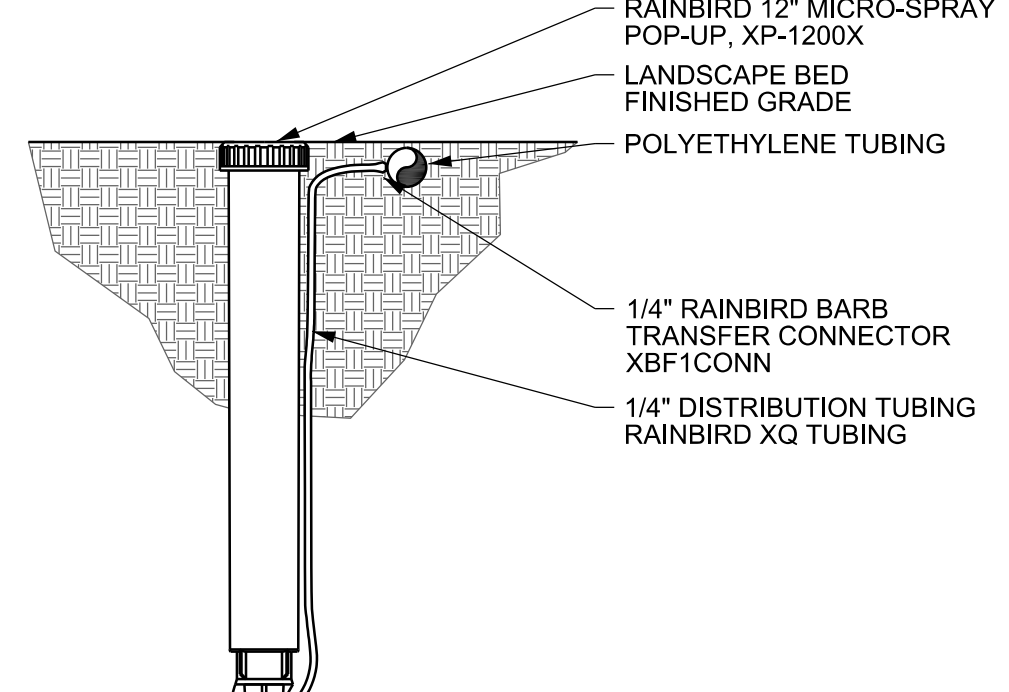
07 IRRIGATION FIXTURE - POP UP
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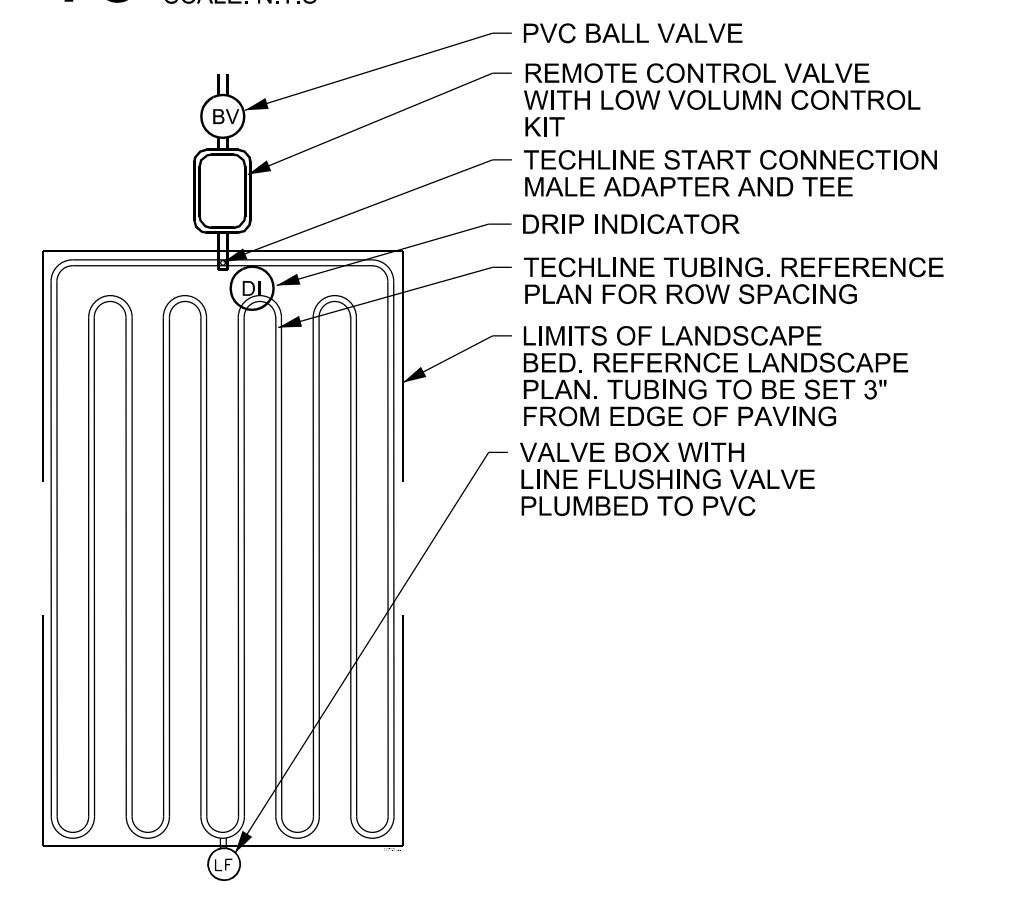
08 IRRIGATION FIXTURE - ROTOR HEAD
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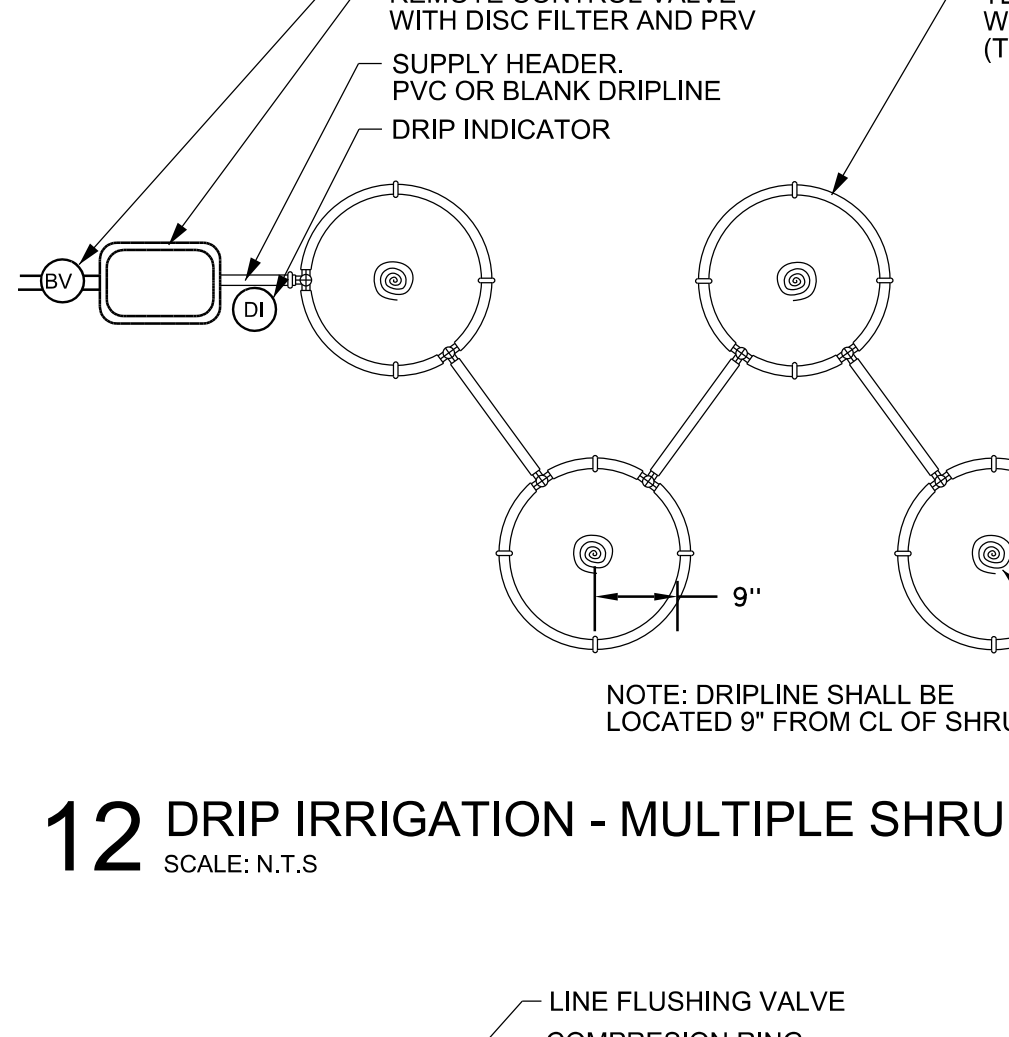
09 IRRIGATION FIXTURE - TREE BUBBLER
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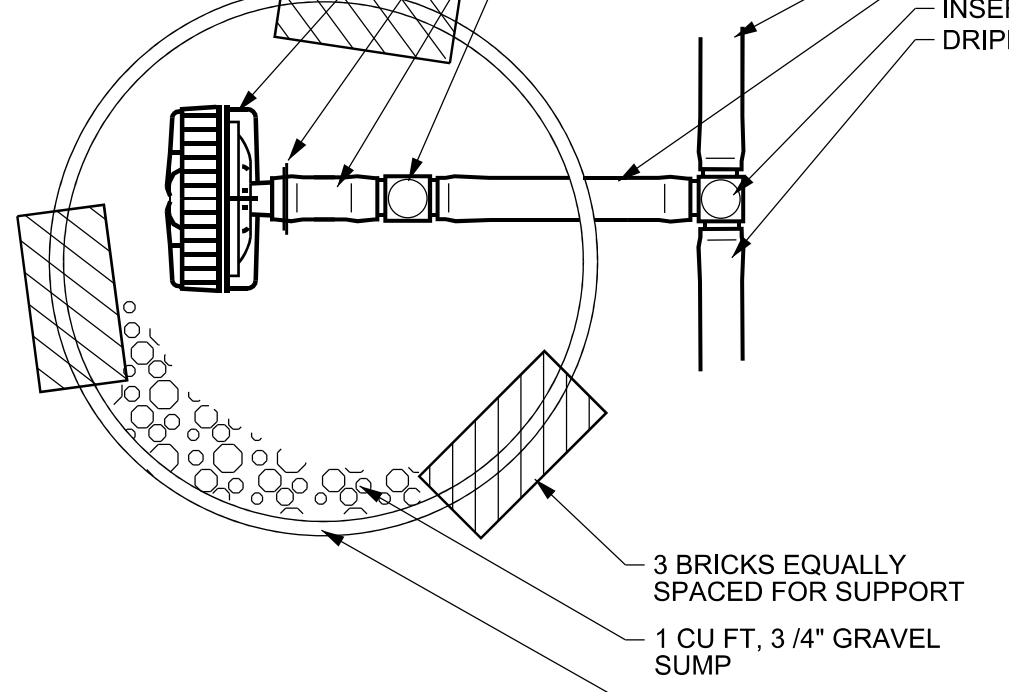
10 DRIP OPERATION INDICATOR
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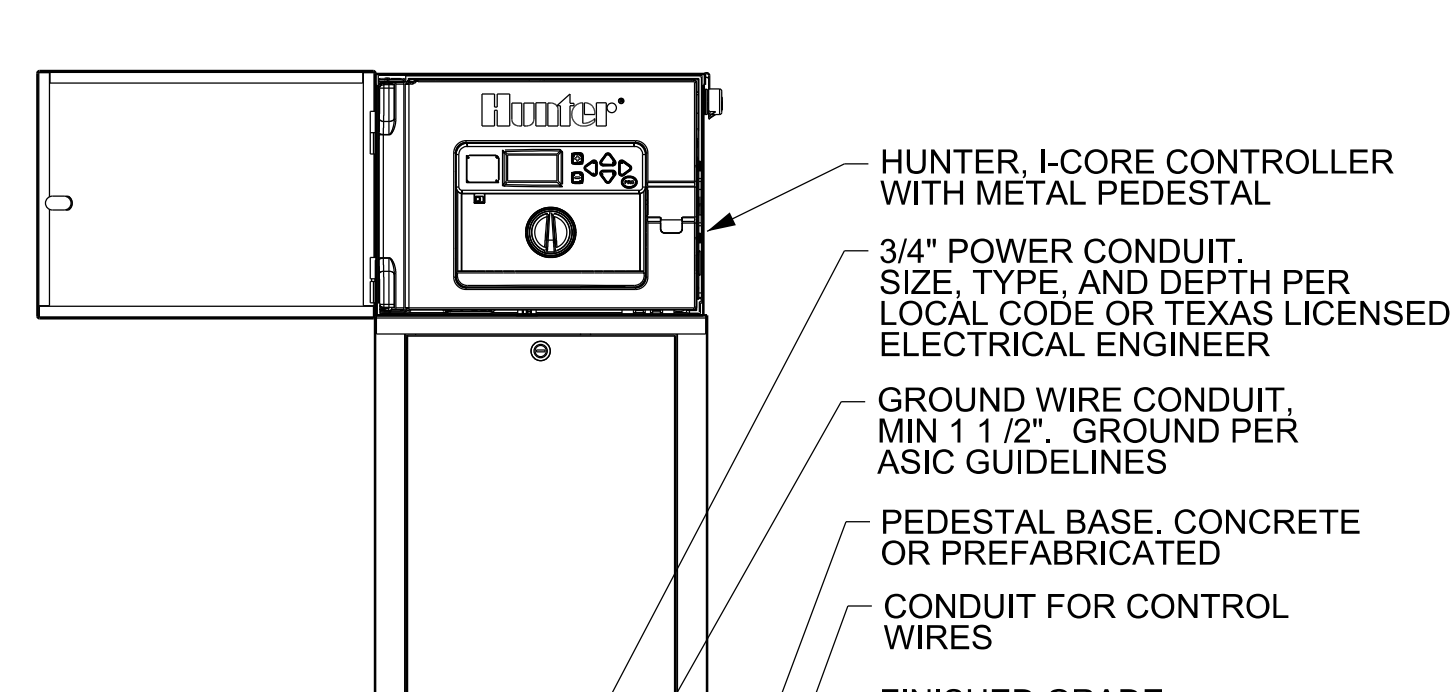
11 IRRIGATION - LANDSCAPE BEDS
SCALE: N.T.S.



12 DRIP IRRIGATION - MULTIPLE SHRUBS
SCALE: N.T.S.



13 LINE FLUSHING VALVE
SCALE: N.T.S.



14 IRRIGATION CONTROLLER
SCALE: N.T.S.

NOTES:
1. ALL WIRE TO BE INSTALLED PER LOCAL CODE.
2. TAPE AND BUNDLE WIRE EVERY TEN FEET.
3. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND 1/2\"/>

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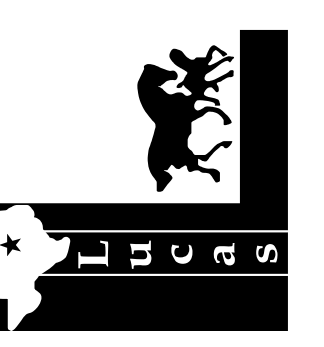
NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCHED.40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. ALL PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18\"/>

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CITY OF LUCAS
FIRE STATION
LUCAS, TEXAS



HALFF
ARCHITECTS
500 N. Central Expressway Suite 300
Lucas, Texas 75004
P: 972.466.0667
F: 972.466.0668

Revision No.	Date	Description

PRELIMINARY
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KIRK M. WILSON 1801
NAME L.L. NO.
DATE 4/9/2014

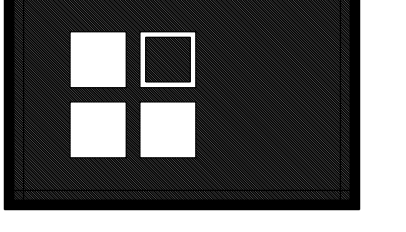
Project No.: 29051
Issued: JANUARY 2014
Drawn By: SMR
Checked By: KMM/JHW
Scale: AS NOTED
Sheet Title
LANDSCAPE DETAILS

L2.01
Sheet Number

Original Issue Date: 01/21/2014
Revisions:

LUCAS CENTRAL FIRE STATION
165 COUNTRY CLUB RD | LUCAS, TX 75002

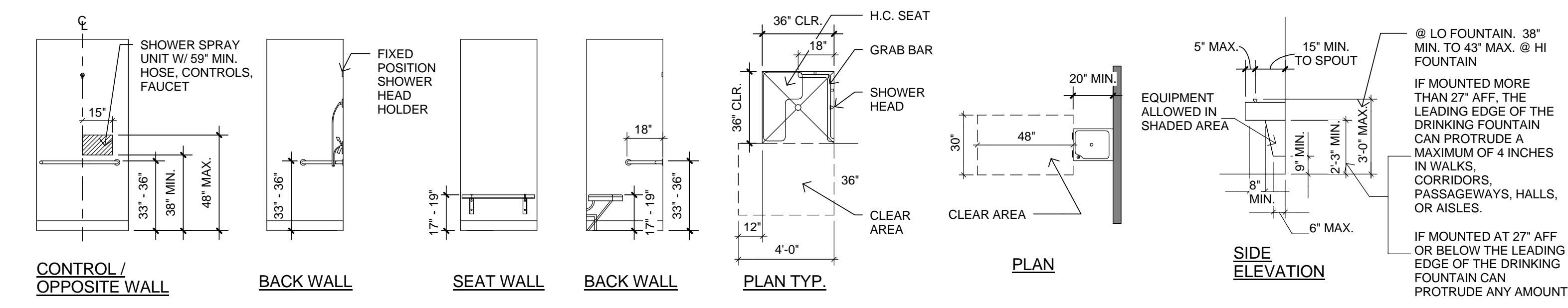
WINGTON HOOKER JEFFERY P.C.
ARCHITECTS
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Job No.
1215

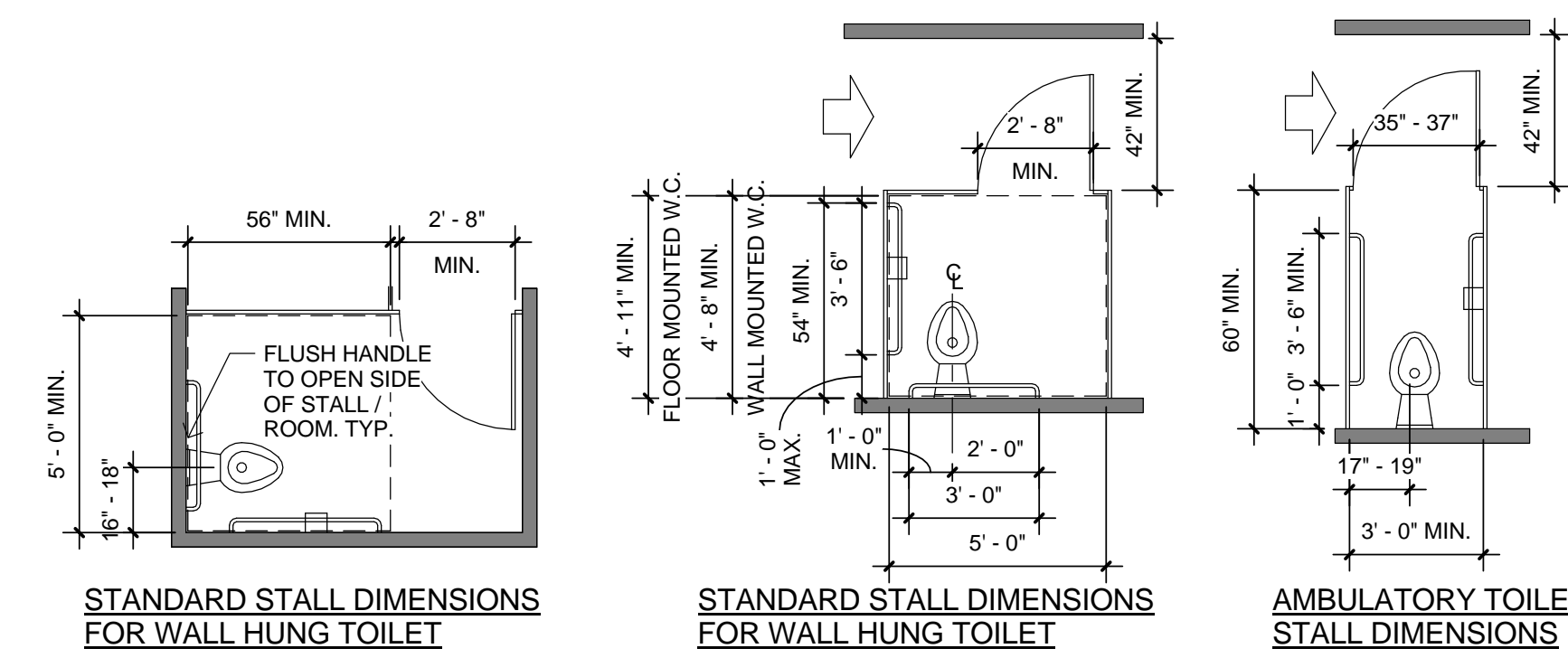
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IR1.02

ACCESSIBLE AND STANDARD DIMENSIONS LEGEND

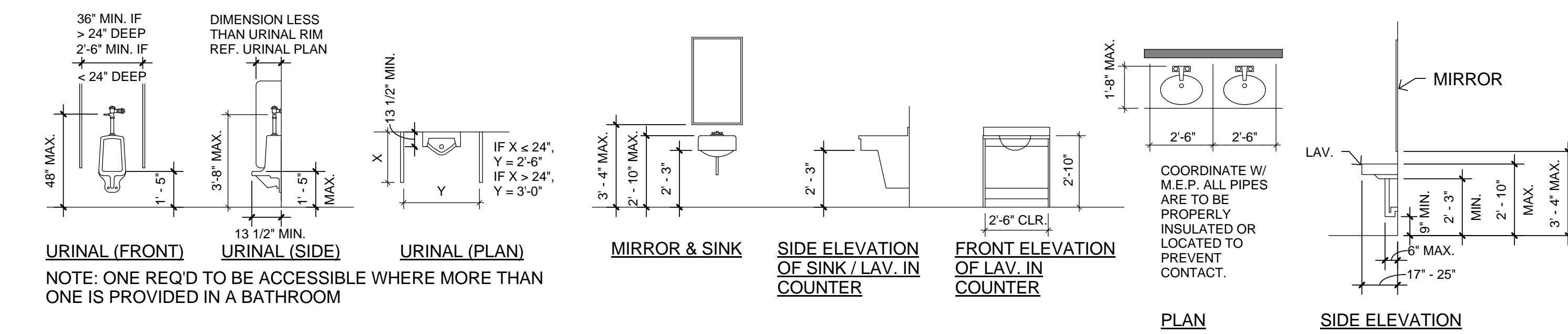


TRANSFER TYPE SHOWERS

NOTE: SHOWER HEAD AND CONTROLS @ H.C. SHOWERS MUST BE @ OPPOSITE SIDE WALL FROM H.C. SHOWER SEAT

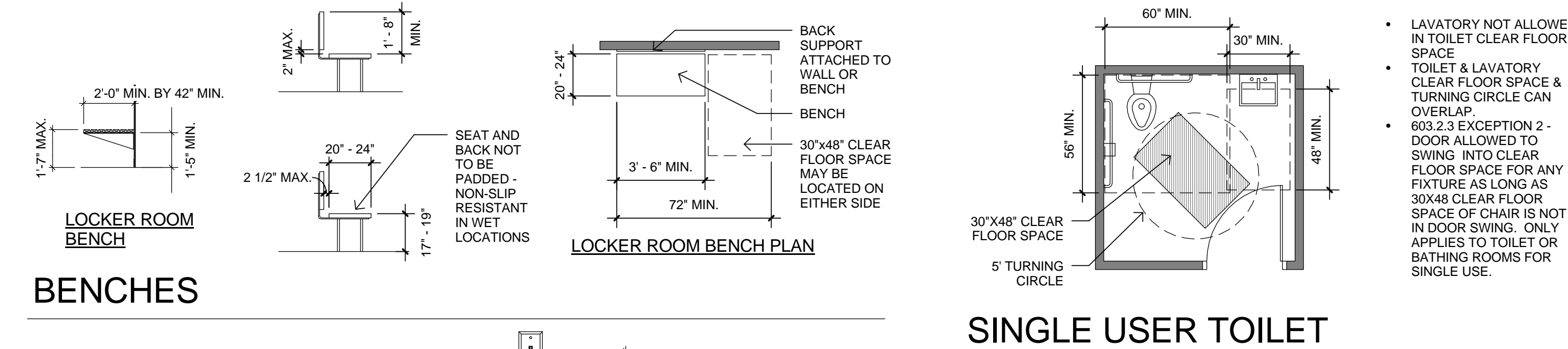


WATER CLOSETS

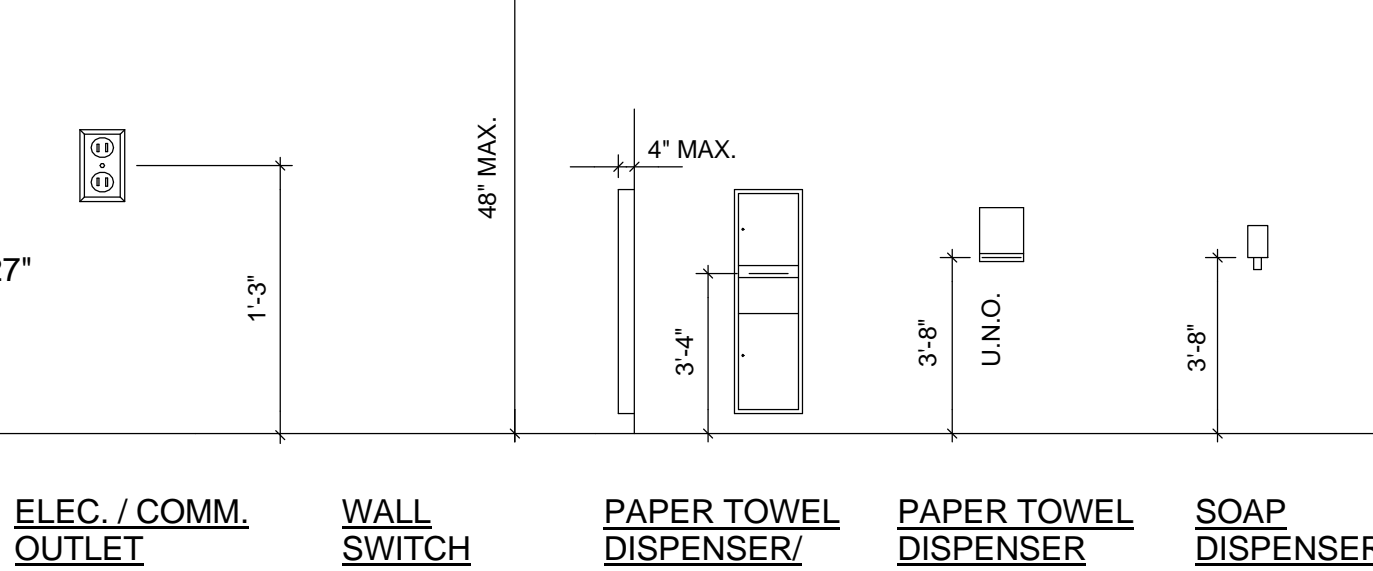


URINALS

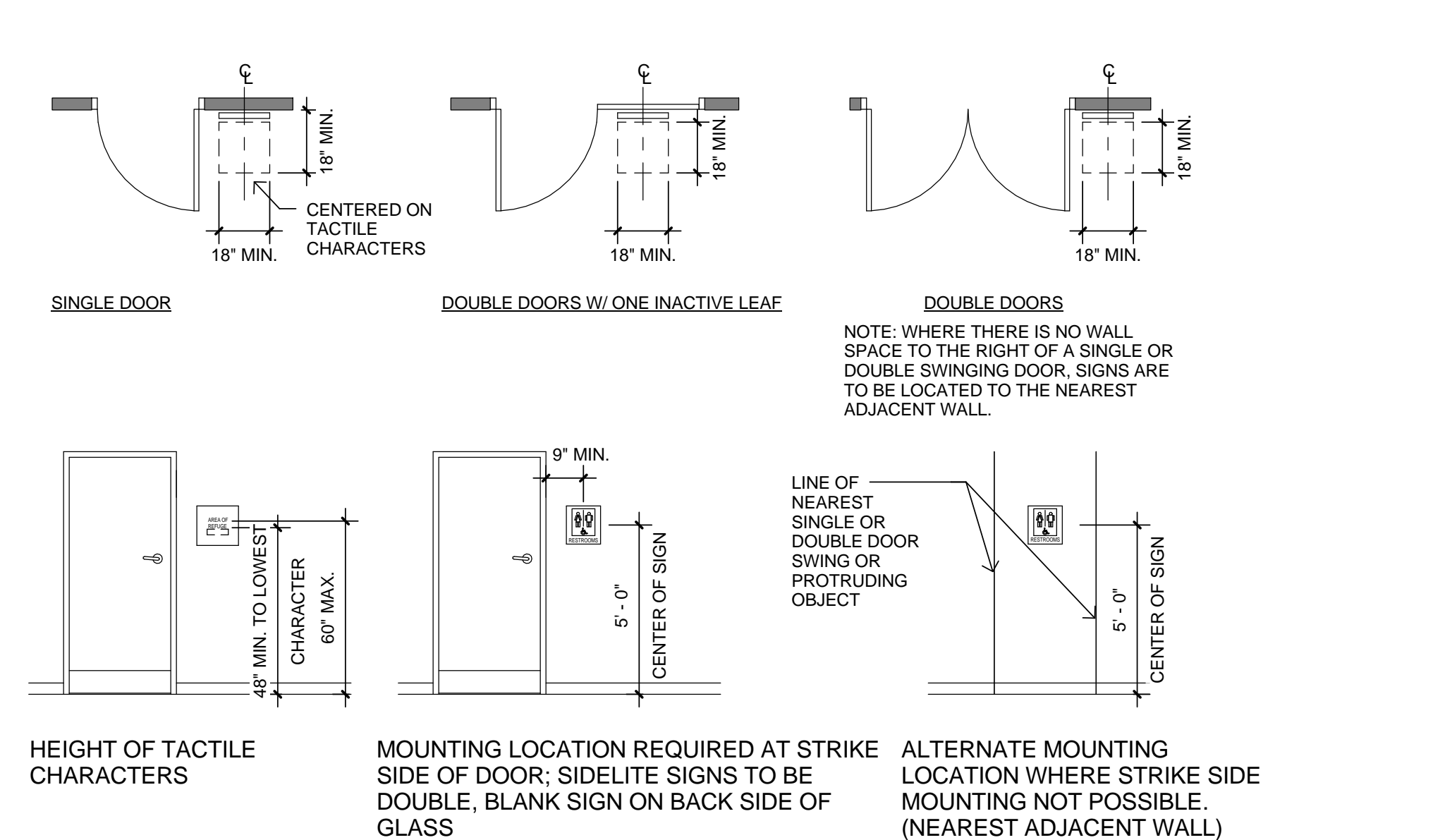
SINKS & LAVATORIES



PROTRUDING OBJECTS

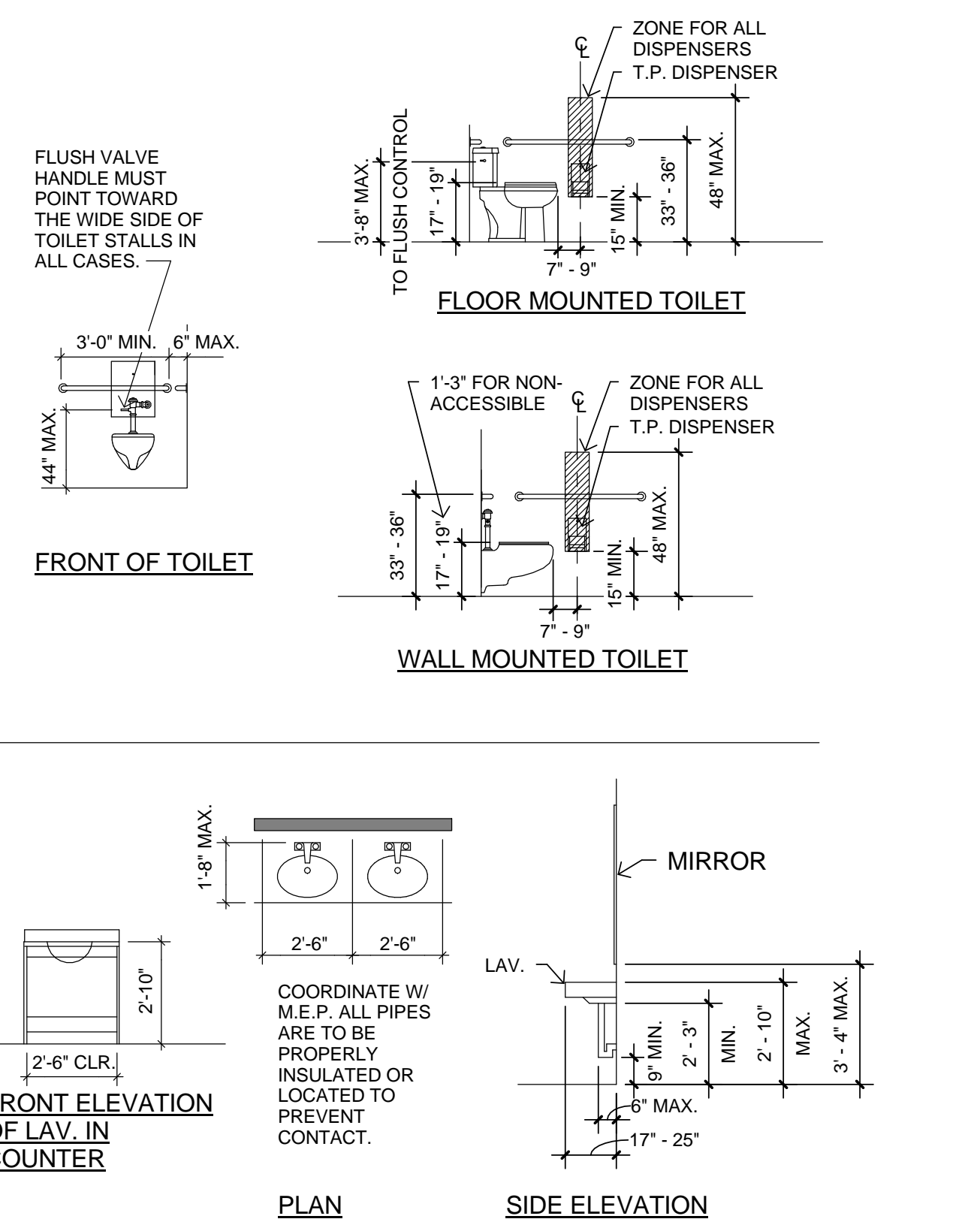


MOUNTING HEIGHTS

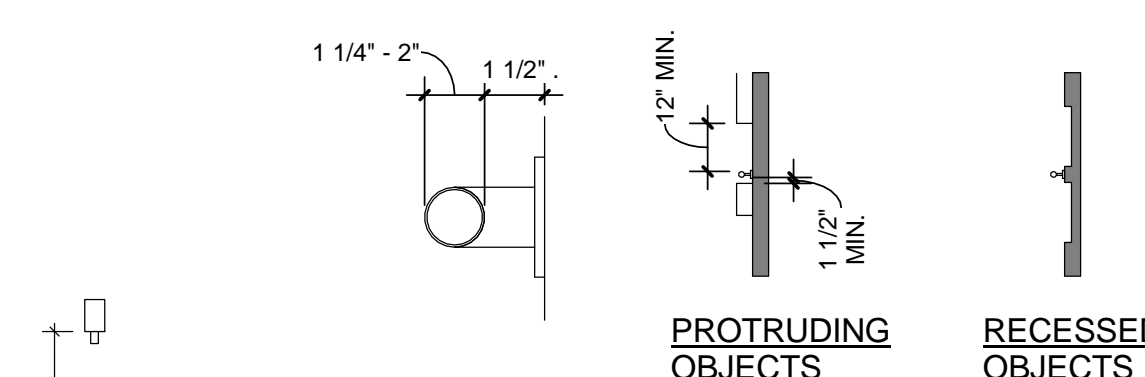


SIGNAGE MOUNTING HEIGHTS

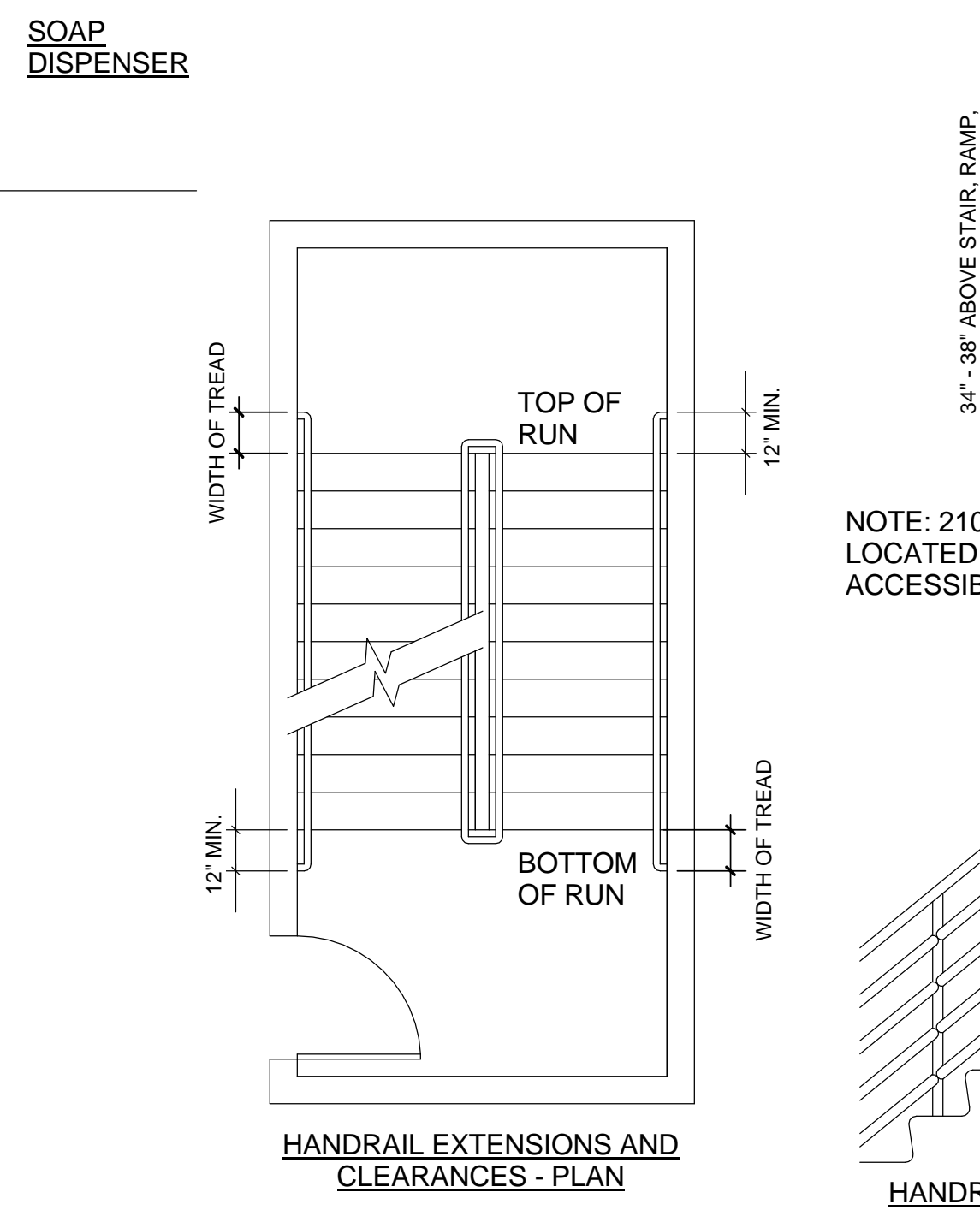
HI/LO DRINKING FOUNTAINS



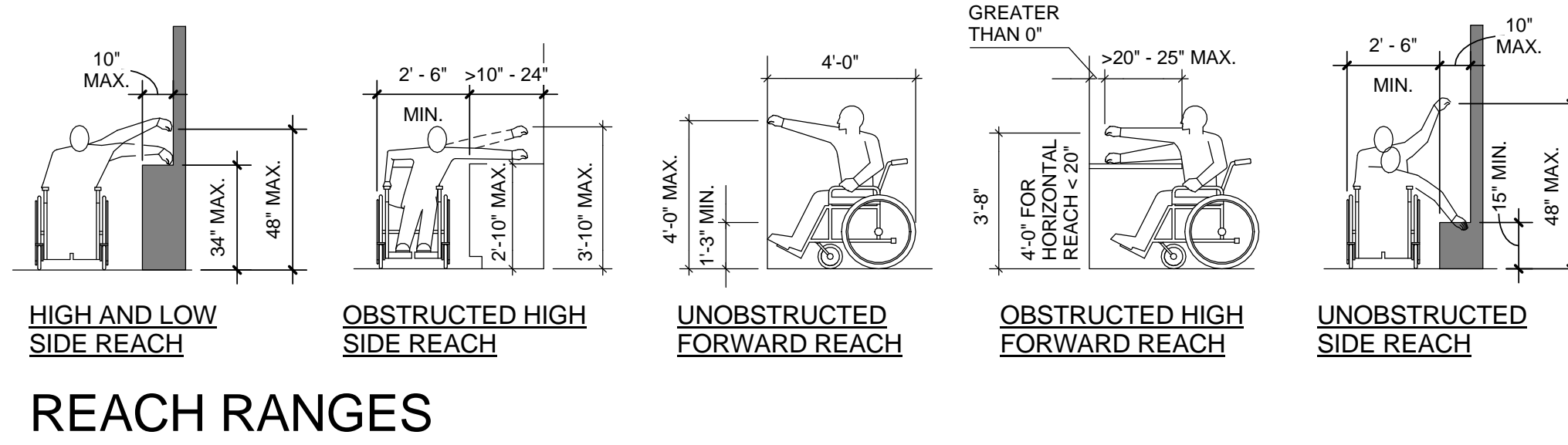
SINGLE USER TOILET



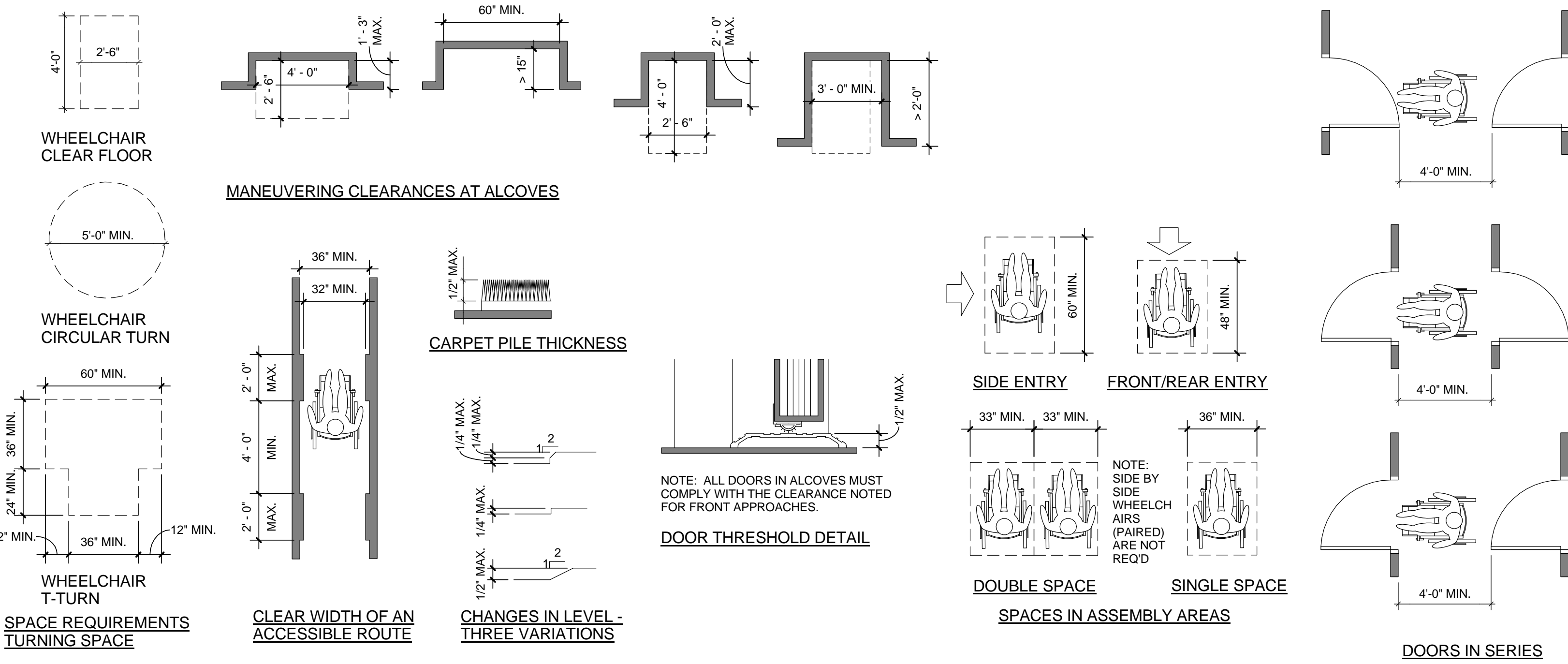
GRAB BARS



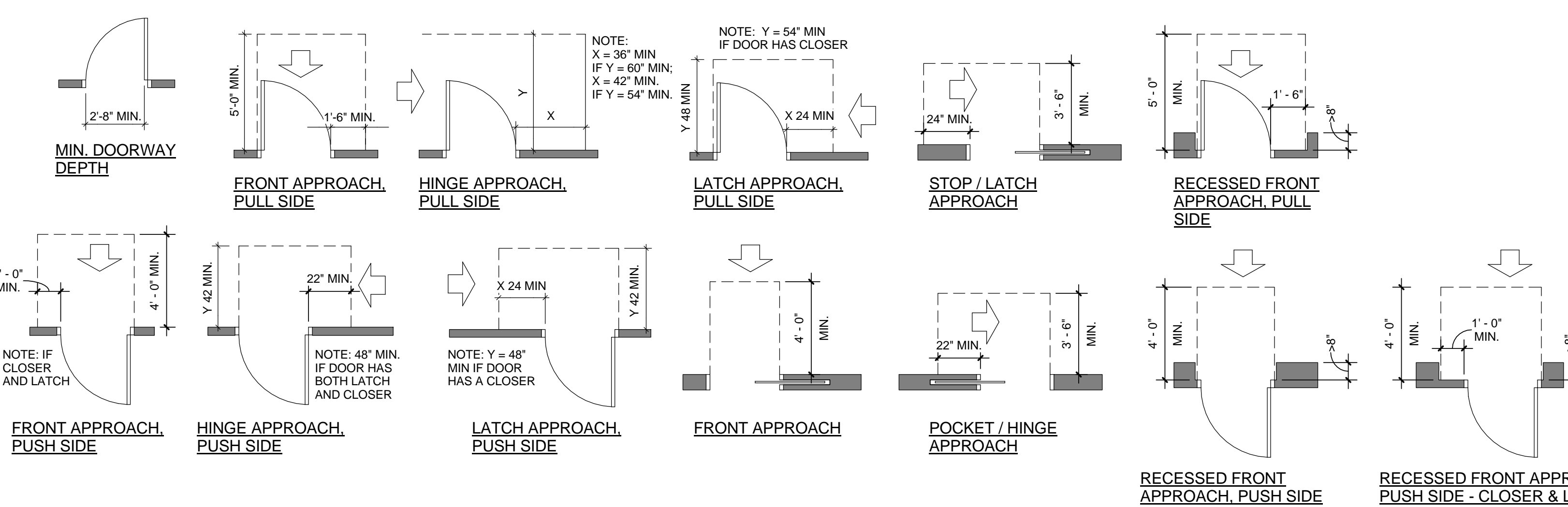
STAIR & RAMP REQUIREMENTS



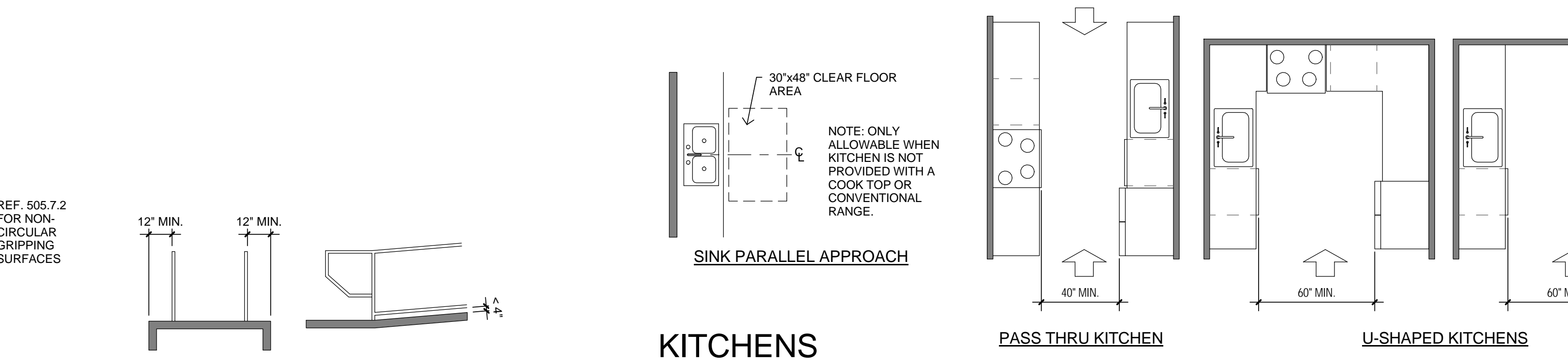
REACH RANGES



ACCESSIBLE ROUTE



DOOR CLEARANCES



KITCHENS

ACCESSIBILITY GENERAL NOTES

1. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND THE INFORMATION GIVEN ON THIS SHEET.
2. DO NOT SCALE THESE DRAWINGS.
3. DIMENSIONS INDICATED ARE THE MINIMUM CLEAR DIMENSIONS REQUIRED BY THE TEXAS ACCESSIBILITY STANDARDS (T.A.S.) 2012 EDITION. THE CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF BUILDING ELEMENTS TO ASSURE THAT DIMENSIONS SHOWN ARE PROVIDED.
4. NOT ALL CONDITIONS SHOWN ON THIS SHEET MAY BE REQUIRED BY THIS PROJECT. COMPARE THE REQUIREMENTS OF THE ARCHITECTURAL DRAWINGS WITH THIS SHEET FOR RELEVANCE OF INFORMATION.
5. REFERENCE ACCESSIBLE DIMENSIONS LEGEND FOR ACCESSIBLE MOUNTING HEIGHTS OF ALL FIXTURES & ACCESSORIES LOCATED THROUGHOUT CONTRACT DOCUMENTS.
6. DIMENSIONS SHOWN ON INTERIOR ELEVATIONS AT WALLS ARE TO THE FINISHED SURFACE
7. ALL EXPOSED PIPE UNDER SINKS ARE TO BE WRAPPED OR PROTECTED
8. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40" MAX. ABOVE THE FINISH FLOOR. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM OF THE REFLECTING SURFACE 35" MAX. ABOVE THE FINISH FLOOR.
9. PROVIDE WOOD BLOCKING AS NEEDED TO SECURE GRAB BARS AND SHOWER SEATS TO STUD FRAMING WALLS.

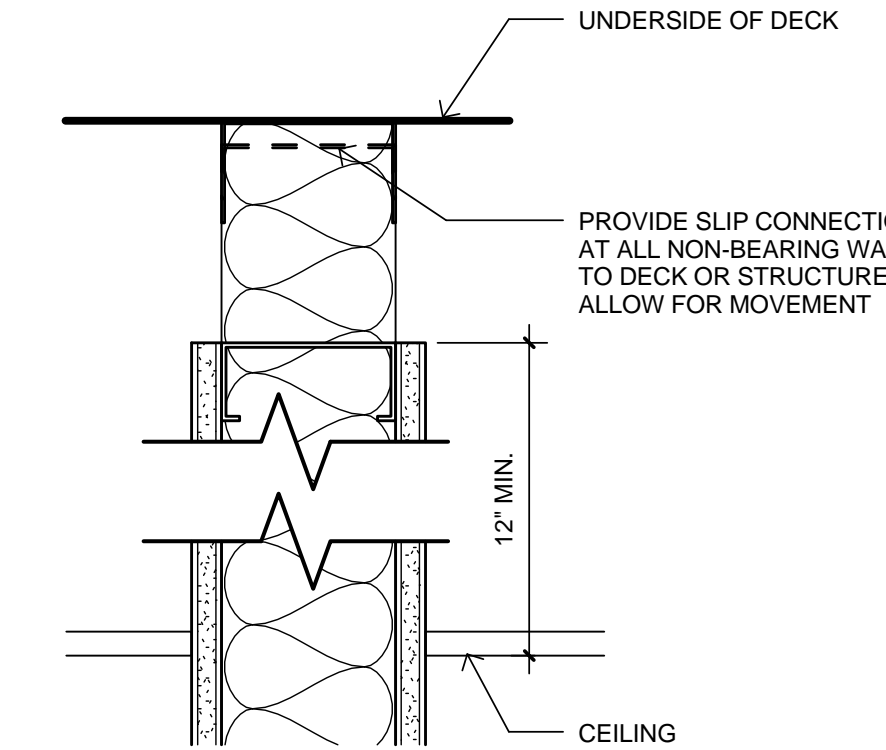
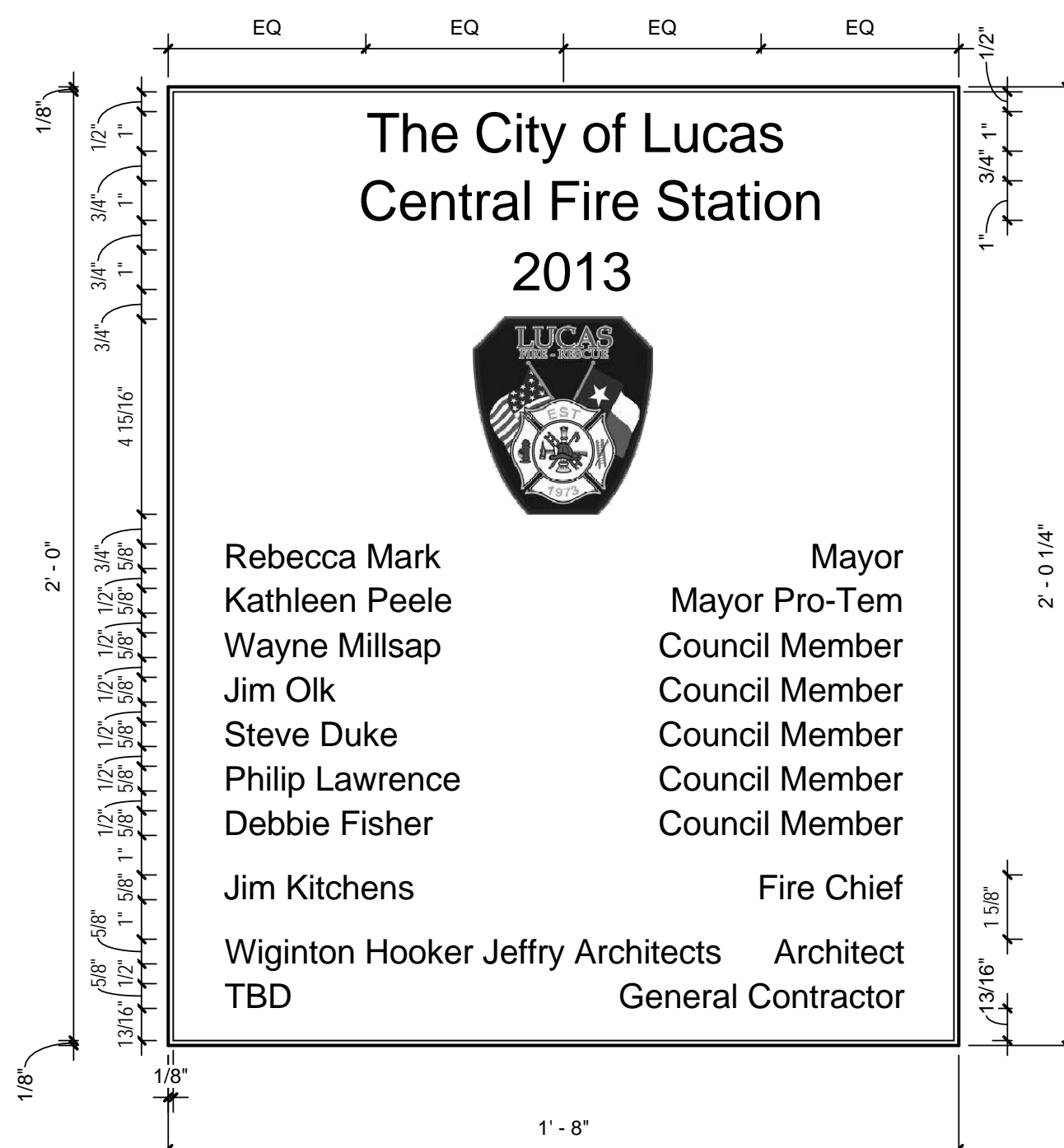
ABBREVIATIONS (ARCHITECTURAL ONLY)

Table of abbreviations for architectural elements including A/C, ACT, AD, ADS, ADD, ADDL, ADJ, AFF, AGGR, ALT, ALLUM, AMT, ANCH, ANOD, APPROX, ARCH, ARF, ASPH, ASST, ATS, AUTO, AUX, AV, AVG, BAL, BB, BAC, BD, BLDG, BLK, BM, BMT, BSM, CAB, CABIN, C.C., C.CTV, CENL, CER, CG, CHAN, CHKBD, CL, CLG, CLR, CMT, CMU, CNTR, COL, COMB, COMP, CONC, COND, CONF, CONN, CONST, CONT, CONTR, CORR, CPT, CSWK, CT, CU, D, D.A.F.S., DBL, DE, DEG, DEMO, DEPT, DET, DF, DIA, DIAG, DIM, DIV, D.V., D.U., DWL, DWR, EA, EB, EJC, ELEV, ENAM, EMER, ENCL, ENGR, ENTR, EPFL, EPNT, EQ, EQUIP, ES, EST, ETC, EWC, EXAM, EXC, EXH, EXP, EXT, FA, FAB, FD, FV, FDC, FDN, FDR, FDI, FDCV, FE, FEB, FEC, FEH, FHC, FHEC, FN, FL, FLASH, FLEK, FLR, FLUOR, FLM(G), FP, FRM(G), FRT, FS, FT, FTG, FURR, FXD, GA, GALV, GB, GC, GEN, GL, GLAM, GND, GWB, GYP, HA, HB, HC, H.C.S.O., HCW, HC WTR, HDBD, HDCP, HDR, HDWD, HDWR, HG(T)(HT), HM, HR, HS, HSKG, HTR, HVAC, A/C, HWY, ID, IG, IMP, IN, INCAND, INCL, IND, INFO.

GENERAL NOTES

- 1. ALL WORK RELATING TO THIS CONSTRUCTION SHALL COMPLY WITH U.S. DEPARTMENT OF LABOR, THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS AND ALL RELATED BUILDING CODES AND ORDINANCES.
2. DO NOT SCALE THE DOCUMENTS.
3. ALL DIMENSIONS ARE TO BE FIELD VERIFIED AND BACK CHECKED FOR CORRECTNESS. IF ANY DEVIATIONS OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.
4. THE GENERAL CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS ON SITE PRIOR TO THE BEGINNING OF THE WORK AND ADVISE THE ARCHITECT OF ANY AND ALL DISCREPANCIES.
5. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DETAILS, AND NOTES FOR INFORMATION REGARDING THE SCOPE OF THE WORK INTENDED PRIOR TO PROCEEDING WITH THE WORK.
6. THE GENERAL CONTRACTOR SHALL COORDINATE ALL BUILDING MANAGEMENT SYSTEMS, SECURITY SYSTEMS, AND LOCKING HARDWARE WITH THE OWNER PRIOR TO INSTALLATION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL MECHANICAL, ELECTRICAL, AND PLUMBING PENETRATIONS REQUIRED BY THE WORK WHETHER EXPLICITLY NOTED IN THE DOCUMENTS OR NOT.
8. ALL WOOD INDICATED IN THESE DOCUMENTS IS TO BE TREATED FOR FIRE RETARDANCY UNLESS NOTED OTHERWISE.
9. FIRE SPRINKLER HEAD LOCATIONS ARE TO BE COORDINATED WITH LIGHTING, HVAC, AND BE CENTER BOTH WAYS IN CEILING TILES, GYP. BD, REVEALS, AND CEILING, ETC.
10. THE COMPLETE SPRINKLER SYSTEM IS NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR IS ADVISED THAT SPECIAL CARE MUST BE TAKEN IN LAYING OUT THE SPRINKLER SYSTEM FOR A NEAT, ORDERLY, AND AESTHETICALLY APPROPRIATE LAYOUT. ARCHITECT'S DECISIONS SHALL BE FINAL. IN AESTHETIC JUDGEMENT WITH RESPECT TO THE LOCATION OF HEADS, ADDITIONAL HEADS SHALL BE ADDED BY THE CONTRACTOR AS MAY BE REQUIRED TO SATISFY THE ARCHITECT'S AESTHETIC JUDGEMENT. ARCHITECT'S REVIEW OF HEAD LOCATIONS WILL OCCUR DURING THE SHOP DRAWINGS STAGE.
11. THE CONTRACTOR SHALL REVIEW THE CIVIL DOCUMENTS, THE SOIL REPORT, AND THESE DOCUMENTS (ALL IN THEIR ENTIRETY) TO ENSURE THAT ALL REQUIRED EARTHWORK, PAVING, CURB, AND STRUCTURAL SLAB WORK IS FULLY COVERED IN THE SCOPE OF THE CONTRACTOR'S BID. THE CONTRACTOR SHALL FULLY COORDINATE ALL OF THE ABOVE REFERENCED WORK WITH THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND CIVIL ENGINEER TO INSURE THAT ALL WORK IS FULLY COORDINATED AND COMPLETE.
12. ALL MATERIALS SHALL BE INSTALLED ACCORDING TO INDUSTRY STANDARDS, ALL AGENCIES OR 'STANDARD' RECOMMENDATIONS REFERENCED IN THE SPECIFICATIONS, OR MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES, WHICH EVER IS THE MOST STRINGENT, IN ORDER TO PROVIDE A COMPLETE AND HIGH QUALITY PROJECT.
13. THE CONTRACTOR REPRESENTS AND WARRANTS THAT IT HAS EXAMINED THE PLANS, DRAWINGS, SPECIFICATIONS, AND ALL CONSTRUCTION CRITERIA OF THE OWNER AND IS SATISFIED THAT THE INFORMATION CONTAINED HEREIN IS SUFFICIENT TO FULLY AND COMPLETELY CONSTRUCT THE PROJECT.
14. IN THE EVENT OF A CONFLICT WITHIN THE CONSTRUCTION DOCUMENTS, THE MORE EXPENSIVE, GREATER QUALITY, AND LARGER SCOPE SHALL GOVERN.
15. ALL ELECTRICAL, TELEPHONE, AND OTHER OUTLET LOCATIONS ARE TO BE COORDINATED WITH THE OWNER AND THE INTERIOR ELEVATIONS PRIOR TO INSTALLATION OF THE OUTLETS OR MILLWORK/CASEWORK.
16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY WOOD AND METAL BLOCKING IN WALLS/PARTITIONS FOR THE MOUNTING OF EQUIPMENT, ACCESSORIES, CASEWORK, RAILS, ETC. THAT ARE PROVIDED BY THE CONTRACTOR AND ITEMS THAT ARE PROVIDED BY THE OWNER OR ONE OF THE OWNER'S VENDORS.
17. NO EXPOSED CONDUIT WILL BE ALLOWED.

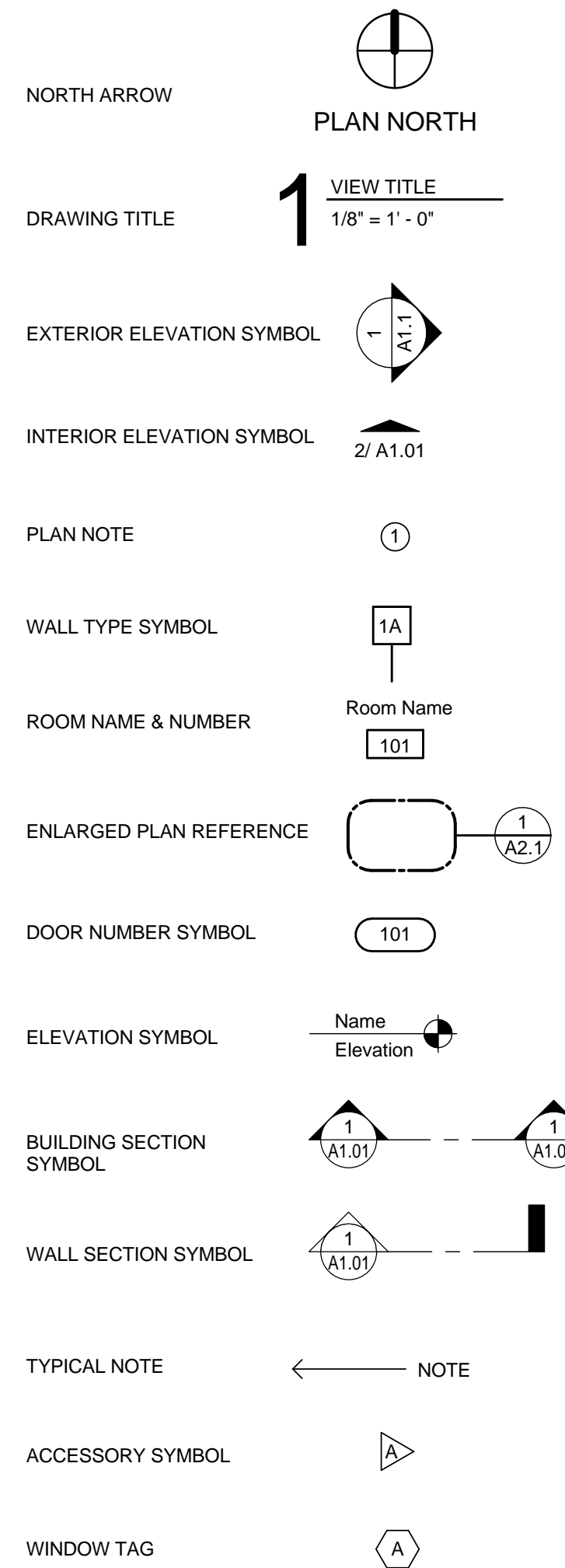
DEDICATION PLAQUE



1 PARTITION HEAD CONDITION
3' = 1'-0"

CAST ALUMINUM PLAQUE, SINGLE LINE BORDER, LEATHERETTE BACKGROUND AND BLACK ENAMEL FINISH. ALL RAISED SURFACES TO HAVE SATIN FINISH. PLAQUE TO HAVE CONCEALED FASTENERS. ALL TEXT TO BE OPTIMA.

SYMBOLS



CODE SUMMARY

CODES:
2003 INTERNATIONAL BUILDING CODE
2003 INTERNATIONAL PLUMBING CODE
2003 INTERNATIONAL MECHANICAL CODE
2003 INTERNATIONAL FUEL GAS CODE
2003 INTERNATIONAL ENERGY CONSERVATION CODE
2003 INTERNATIONAL FIRE CODE
2006 NATIONAL ELECTRICAL CODE

OTHER REGULATIONS AND STANDARDS:
AMERICANS WITH DISABILITIES ACT, TITLE II
TEXAS ACCESSIBILITY STANDARD OF THE ARCHITECTURAL BARRIERS ACT
ILLUMINATING ENGINEERING SOCIETY DESIGN GUIDELINES

CLASSIFICATION (302.1):
BUSINESS GROUP B

ALLOWABLE HEIGHT AND BUILDING AREA (TABLE 503):
TYPE V-B CONSTRUCTION
GROUP B - 2 STORIES, 40 FEET, 9,000 SF PER FLOOR

AUTOMATIC SPRINKLER SYSTEM INCREASE (604.2):
ENTIRE BUILDING FULLY SPRINKLERED PER SECTION 903.1.1 AND NFPA 13
INCREASE MAXIMUM HEIGHT BY 20' AND INCREASE THE NUMBER OF STORIES BY ONE.
GROUP B - 3 STORIES, 60 FEET

AREA MODIFICATIONS (606):
AREA INCREASES DUE TO AUTOMATIC SPRINKLER PROTECTION

AUTOMATIC SPRINKLER SYSTEM INCREASE = AREA CAN BE INCREASED BY AN ADDITIONAL 200% FOR SINGLE-STORY BUILDINGS

ALLOWABLE AREA PER FLOOR = TABULAR AREA + (TABULAR AREA X SPRINKLER INCREASE / 100)
ALLOWABLE AREA PER FLOOR = 9,771 + (9,771 X 200/100) = 29,313 SF PER FLOOR

ACTUAL AREAS:
GROUP B - FIRST FLOOR: 9,771 SF

FIRE-RESISTIVE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 602):
5 FEET = 1 HOUR
6 FEET TO < 10 FEET = 1 HOUR
10 FEET OR GREATER = 0 HOURS

ALLOWABLE AREA OF WALL OPENINGS (TABLE 704.8):
ALL EXTERIOR WALL OPENINGS ARE PERMITTED TO BE UNPROTECTED BECAUSE THE FIRE SEPARATION DISTANCE EXCEEDS 30 FEET.
PARAPETS ARE NOT REQUIRED (704-11, EXCEPTION 1).

CONCEALED SPACES (717):
DRAFTSTOPPING IS NOT REQUIRED IN FULLY SPRINKLERED BUILDINGS (717.4.3 EXCEPTION 2).

AUTOMATIC SPRINKLER SYSTEM (903):
SPRINKLER SYSTEM SHALL CONFORM TO REQUIREMENTS OF NFPA 13 (903.3.1.1).

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT (TABLE 1004.1.1):
BUSINESS AREAS: 100 GROSS SF/OCCUPANT

EGRESS WIDTH, WITH SPRINKLER SYSTEM (1005):
STARWAYS: 0.2 INCHES/OCCUPANT
OTHER: 0.15 INCHES/OCCUPANT

DOORS (1005.2):
DOORS OPENING INTO THE PATH OF EGRESS TRAVEL SHALL NOT REDUCE THE REQUIRED WIDTH TO LESS THAN ONE HALF DURING THE SWING AND SHALL NOT PROJECT MORE THAN 7 INCHES WHEN FULLY OPEN.

COMMON PATH OF EGRESS TRAVEL (1014.3):
GROUP B FULLY SPRINKLERED: 100 FEET MAXIMUM

SPACES WITH ONE MEANS OF EGRESS (TABLE 1015.1):
GROUP B: 50 OCCUPANTS MAXIMUM

WHERE TWO EXITS ARE REQUIRED, THE DOORS SHALL BE PLACED A DISTANCE APART EQUAL TO AND NOT LESS THAN ONE HALF THE LENGTH OF THE MAXIMUM DIAGONAL OF THE AREA SERVED (1015.2.1).

EXIT TRAVEL DISTANCE IN SPRINKLERED BUILDING (1016.1):
GROUP B: 300 FEET

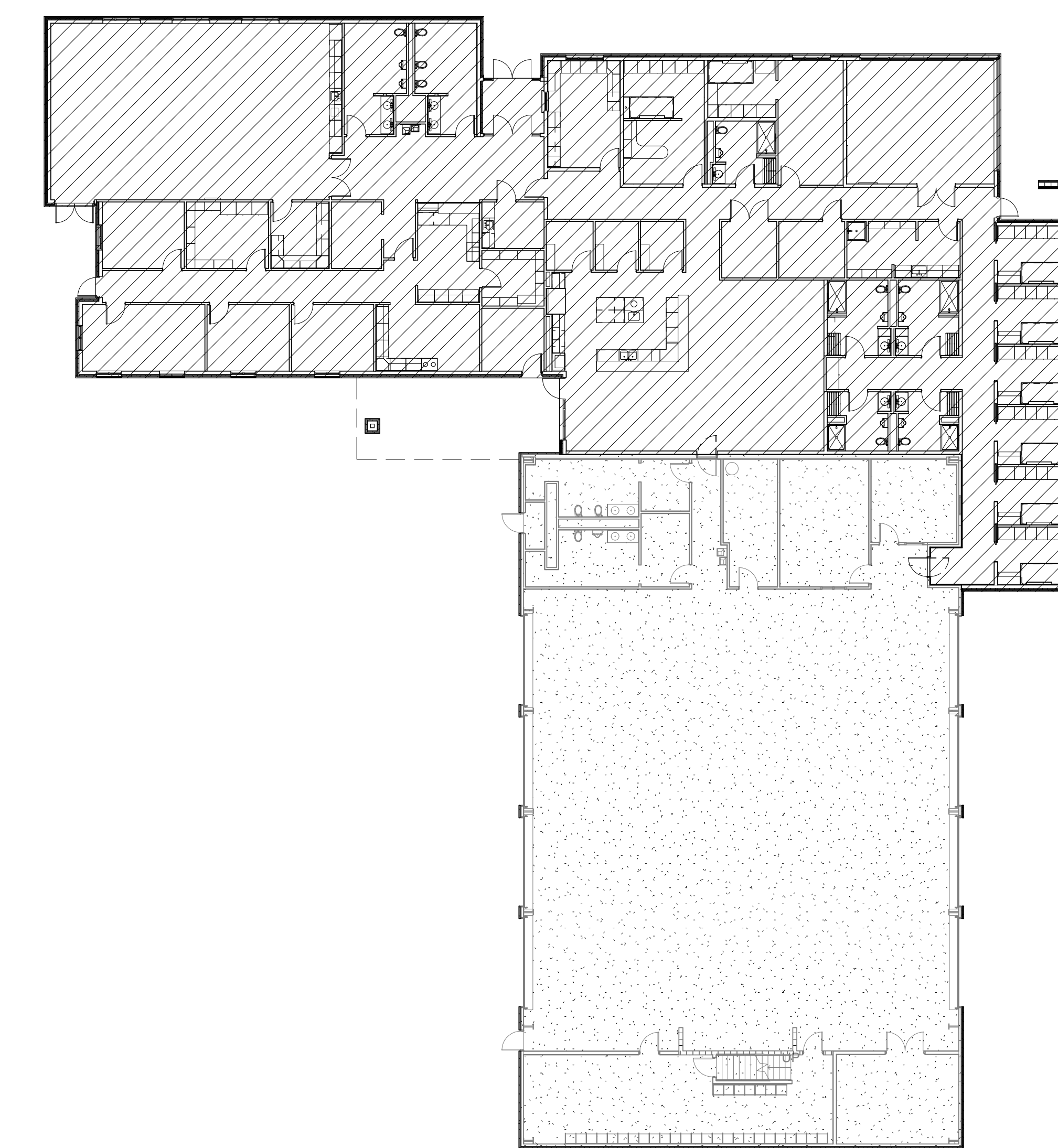
CORRIDOR FIRE RESISTANCE RATING, WITH SPRINKLERS (TABLE 1017.1):
BUILDINGS
GROUP B: 0 HOURS

ALLOWABLE AREA PER FLOOR = TABULAR AREA + (TABULAR AREA X SPRINKLER INCREASE / 100)
ALLOWABLE AREA PER FLOOR = 9,771 + (9,771 X 200/100) = 29,313 SF PER FLOOR

ACTUAL AREAS:
GROUP B - FIRST FLOOR: 9,771 SF

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2 FIRST FLOOR CODE PLAN
1/16" = 1'-0"

Vertical strip on the right edge containing project information: Original Issue Date: 04/04/14, Revisions: (empty), Job No. 1215, Sheet No. A0.2, WIGINTON HOOKER JEFFREY P.C. ARCHITECTS, 500 N. Central Expressway, Suite 300, Plano, Texas 75074, P: 972.465.0507, F: 972.656.0506.

Original Issue Date: 04/04/14
Revisions:

LUCAS CENTRAL FS
165 COUNTRY CLUB ROAD LUCAS, TX 75002

WIGINTON HOOKER JEFFREY P.C.
ARCHITECTS
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NOTE:
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NOT INTENDED FOR BIDDING. PERMIT CONTRACTOR TO VERIFY (APPROVED):
ANTHONY JEFFREY
TEXAS REGISTRATION NO. 12901

Job No.
1215

Sheet No.
A1.1
FLOOR PLAN

ACCESSORIES LEGEND - DENOTED BY "△"		
MARK	ITEM	NOTE
A	PAPER TOWEL DISPENSER/WASTE RECEPTACLE	
B	SOAP DISPENSER (WALL MOUNT)	
C	TOILET TISSUE DISPENSER	
D	MIRROR (PLATE GLASS)	
E	TOILET GRAB BARS (PROVIDE 36" & 42")	
F	DEDICATION PLAQUE	
H	SHOWER CURTAIN ROD	
M	CORNER GUARD	
N	COFFEE MAKER	
P	SANITARY NAPKIN DISPOSAL (SURFACE MOUNTED)	

PLAN NOTES - DENOTED BY "○"

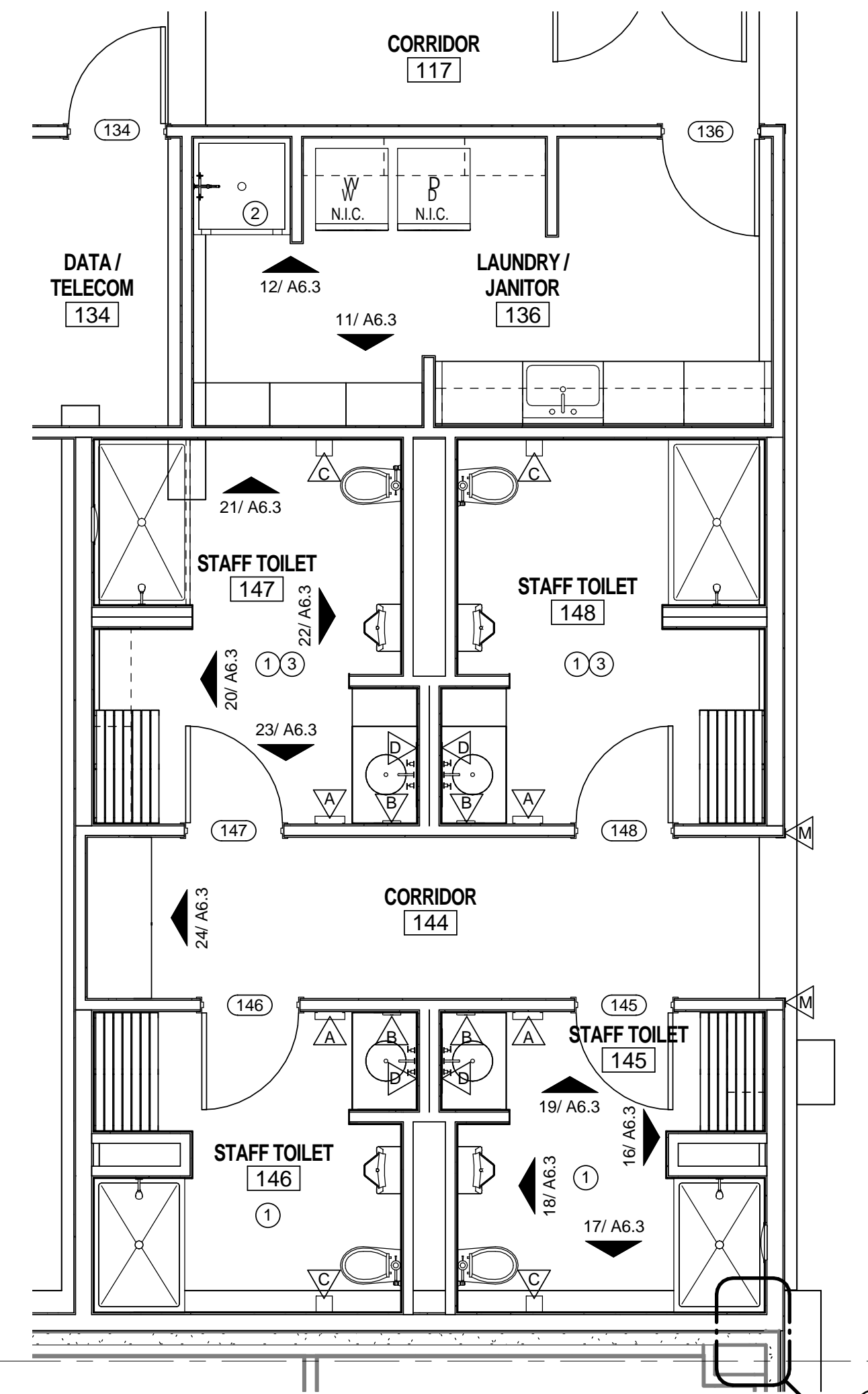
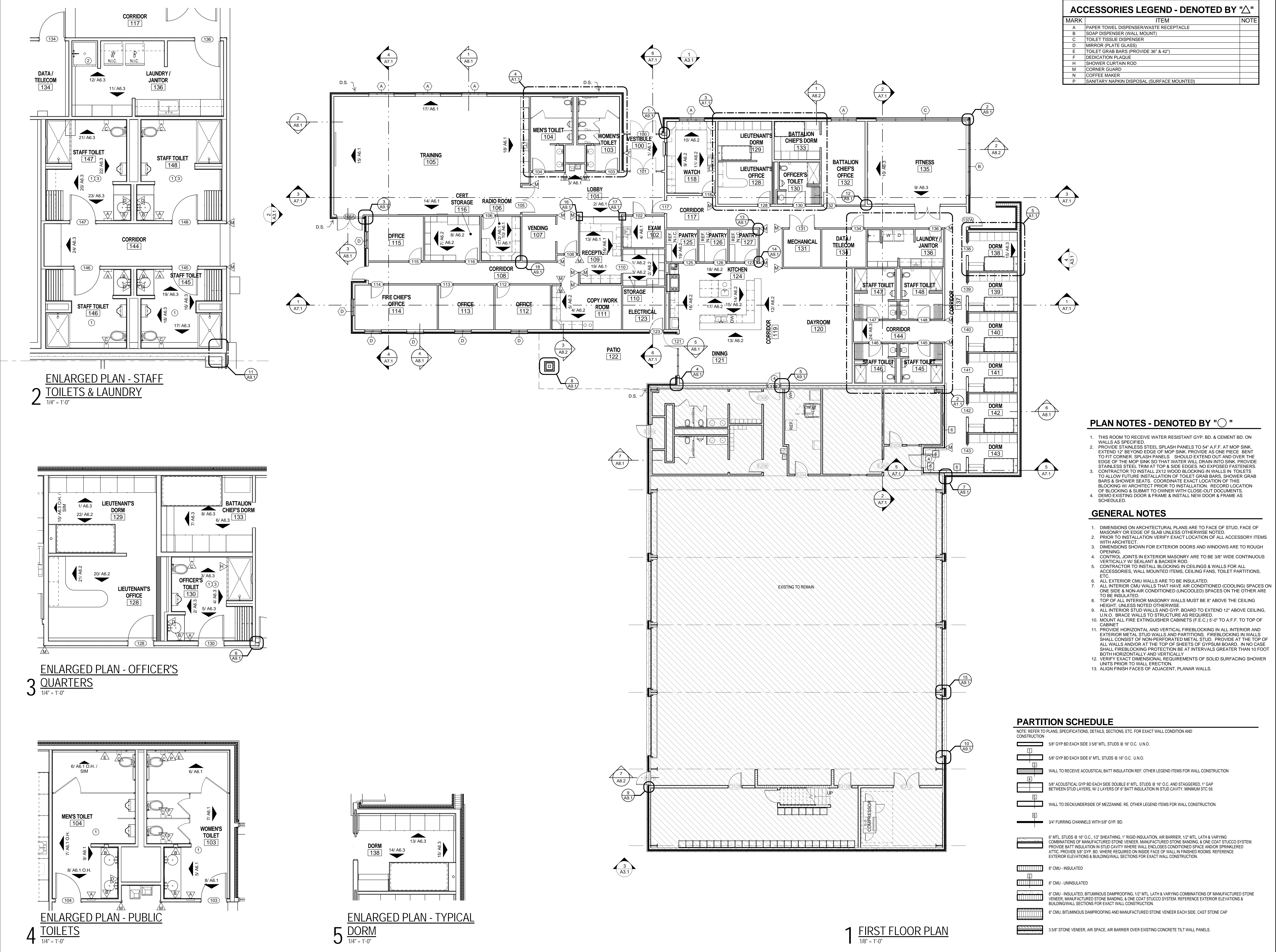
1. THIS ROOM TO RECEIVE WATER RESISTANT GYP. BD. & CEMENT BD. ON WALLS AS SPECIFIED.
2. PROVIDE STAINLESS STEEL SPLASH PANELS TO 54" A.F.F. AT MOP SINK. EXTEND 12" BEYOND EDGE OF MOP SINK. PROVIDE AS ONE PIECE. BENT TO FIT CORNER. SPLASH PANELS SHOULD EXTEND OUT AND OVER THE EDGE OF THE MOP SINK SO THAT WATER WILL DRAIN INTO SINK. PROVIDE STAINLESS STEEL TRIM AT TOP & SIDE EDGES. NO EXPOSED FASTENERS.
3. CONTRACTOR TO INSTALL 2X12 WOOD BLOCKING IN WALLS IN TOILETS TO ALLOW FUTURE INSTALLATION OF TOILET GRAB BARS. SHOWER GRAB BARS & SHOWER SEATS. COORDINATE EXACT LOCATION OF THIS BLOCKING W/ ARCHITECT PRIOR TO INSTALLATION. RECORD LOCATION OF BLOCKING & SUBMIT TO OWNER WITH CLOSE-OUT DOCUMENTS.
4. DEMO EXISTING DOOR & FRAME & INSTALL NEW DOOR & FRAME AS SCHEDULED.

GENERAL NOTES

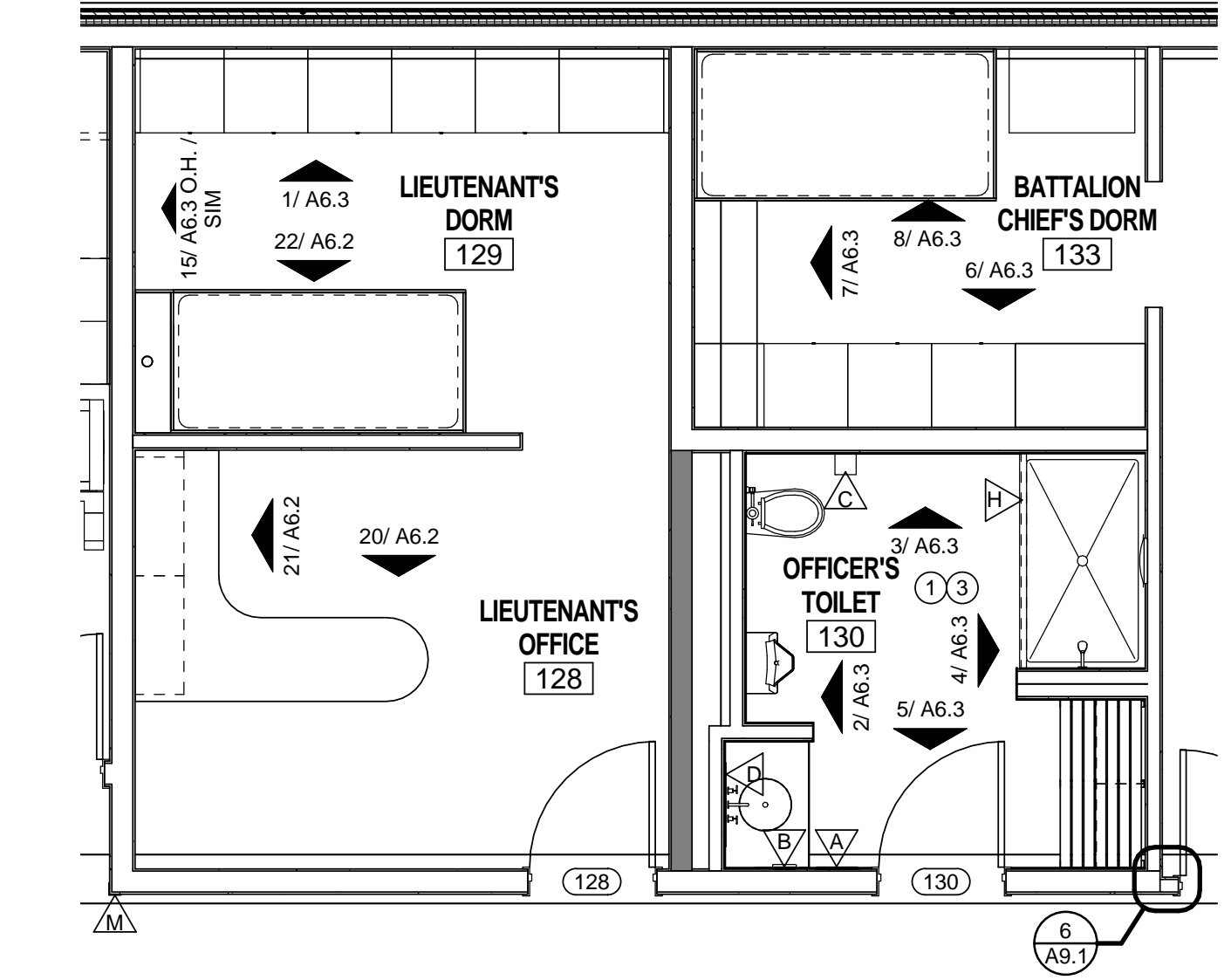
1. DIMENSIONS ON ARCHITECTURAL PLANS ARE TO FACE OF STUD, FACE OF MASONRY OR EDGE OF SLAB UNLESS OTHERWISE NOTED.
2. PRIOR TO INSTALLATION VERIFY EXACT LOCATION OF ALL ACCESSORY ITEMS WITH ARCHITECT.
3. DIMENSIONS SHOWN FOR EXTERIOR DOORS AND WINDOWS ARE TO ROUGH OPENING.
4. CONTROL JOINTS IN EXTERIOR MASONRY ARE TO BE 3/8" WIDE CONTINUOUS VERTICALLY W/ SEALANT & BACKER ROD.
5. CONTRACTOR TO INSTALL BLOCKING IN CEILINGS & WALLS FOR ALL ACCESSORIES. WALL MOUNTED ITEMS, CEILING FANS, TOILET PARTITIONS, ETC.
6. ALL EXTERIOR CMU WALLS ARE TO BE INSULATED.
7. ALL INTERIOR CMU WALLS THAT HAVE AIR CONDITIONED (COOLING) SPACES ON ONE SIDE & NON-AIR CONDITIONED (UNCOOLED) SPACES ON THE OTHER ARE TO BE INSULATED.
8. TOP OF ALL INTERIOR MASONRY WALLS MUST BE 8" ABOVE THE CEILING HEIGHT, UNLESS NOTED OTHERWISE.
9. ALL INTERIOR STUD WALLS AND GYP. BOARD TO EXTEND 12" ABOVE CEILING, U.N.O. BRACE WALLS TO STRUCTURE AS REQUIRED.
10. MOUNT ALL FIRE EXTINGUISHER CABINETS (F.E.C.) 5'-0" TO A.F.F. TO TOP OF CABINET.
11. PROVIDE HORIZONTAL AND VERTICAL FIREBLOCKING IN ALL INTERIOR AND EXTERIOR METAL STUD WALLS AND PARTITIONS. FIREBLOCKING IN WALLS SHALL CONSIST OF NON-PERFORATED METAL STUD. PROVIDE AT THE TOP OF ALL WALLS AND/OR AT THE TOP OF SHEETS OF GYPSUM BOARD. IN NO CASE SHALL FIREBLOCKING PROTECTION BE AT INTERVALS GREATER THAN 10 FOOT BOTH HORIZONTALLY AND VERTICALLY.
12. VERIFY EXACT DIMENSIONAL REQUIREMENTS OF SOLID SURFACING SHOWER UNITS PRIOR TO WALL ERECTION.
13. ALIGN FINISH FACES OF ADJACENT, PLANAR WALLS.

PARTITION SCHEDULE

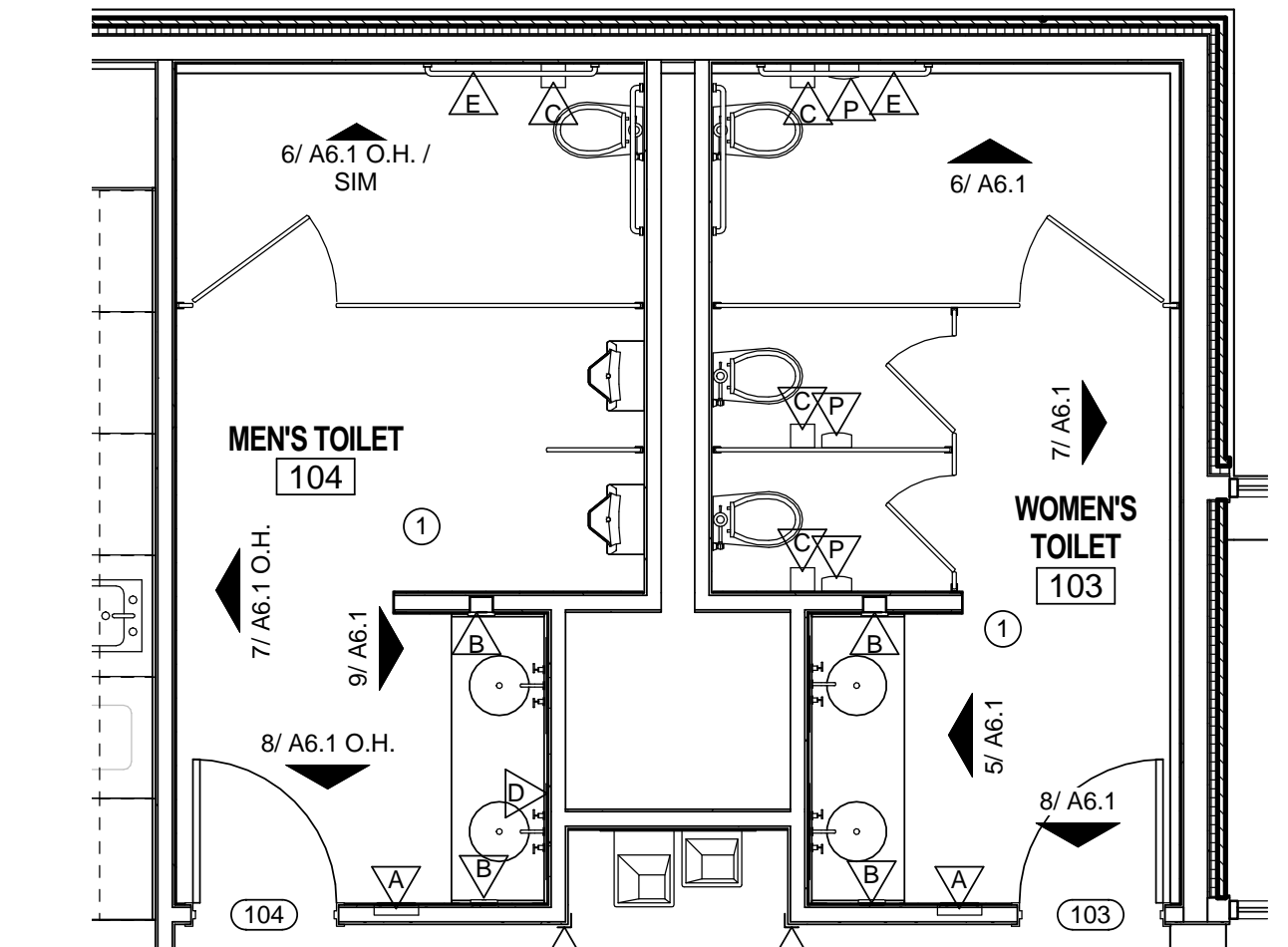
- NOTE: REFER TO PLANS, SPECIFICATIONS, DETAILS, SECTIONS, ETC. FOR EXACT WALL CONDITION AND CONSTRUCTION.
- 1 5/8" GYP BD EACH SIDE 3 5/8" MTL STUDS @ 16" O.C. U.N.O.
 - 2 5/8" GYP BD EACH SIDE 6" MTL STUDS @ 16" O.C. U.N.O.
 - 3 WALL TO RECEIVE ACOUSTICAL BATT INSULATION REF. OTHER LEGEND ITEMS FOR WALL CONSTRUCTION.
 - 4 5/8" ACOUSTICAL GYP BD EACH SIDE DOUBLE 6" MTL STUDS @ 16" O.C. AND STAGGERED. 1" GAP BETWEEN STUD LAYERS. W/ 2 LAYERS OF 6" BATT INSULATION IN STUD CAVITY. MINIMUM STC 58.
 - 5 WALL TO DECK/UNDERSIDE OF MEZZANINE. RE. OTHER LEGEND ITEMS FOR WALL CONSTRUCTION.
 - 6 3/4" FURRING CHANNELS WITH 5/8" GYP. BD.
 - 7 6" MTL STUDS @ 16" O.C., 1/2" SHEATHING, 1" RIGID INSULATION, AIR BARRIER, 1/2" MTL LATH & VARYING COMBINATIONS OF MANUFACTURED STONE VENEER, MANUFACTURED STONE BANDING, & ONE COAT STUCCO SYSTEM. PROVIDE BATT INSULATION IN STUD CAVITY WHERE WALL ENCLOSES CONDITIONED SPACE AND/OR SPRINKLERED ATTIC. PROVIDE 5/8" GYP. BD. WHERE REQUIRED ON INSIDE FACE OF WALL IN FINISHED ROOMS. REFERENCE EXTERIOR ELEVATIONS & BUILDING WALL SECTIONS FOR EXACT WALL CONSTRUCTION.
 - 8 6" CMU - INSULATED
 - 9 6" CMU - UNINSULATED
 - 10 6" CMU - INSULATED, BITUMINOUS DAMPROOFING, 1/2" MTL LATH & VARYING COMBINATIONS OF MANUFACTURED STONE VENEER, MANUFACTURED STONE BANDING, & ONE COAT STUCCO SYSTEM. REFERENCE EXTERIOR ELEVATIONS & BUILDING WALL SECTIONS FOR EXACT WALL CONSTRUCTION.
 - 11 6" CMU, BITUMINOUS DAMPROOFING AND MANUFACTURED STONE VENEER EACH SIDE. CAST STONE CAP
 - 12 3 5/8" STONE VENEER, AIR SPACE, AIR BARRIER OVER EXISTING CONCRETE TILT WALL PANELS.



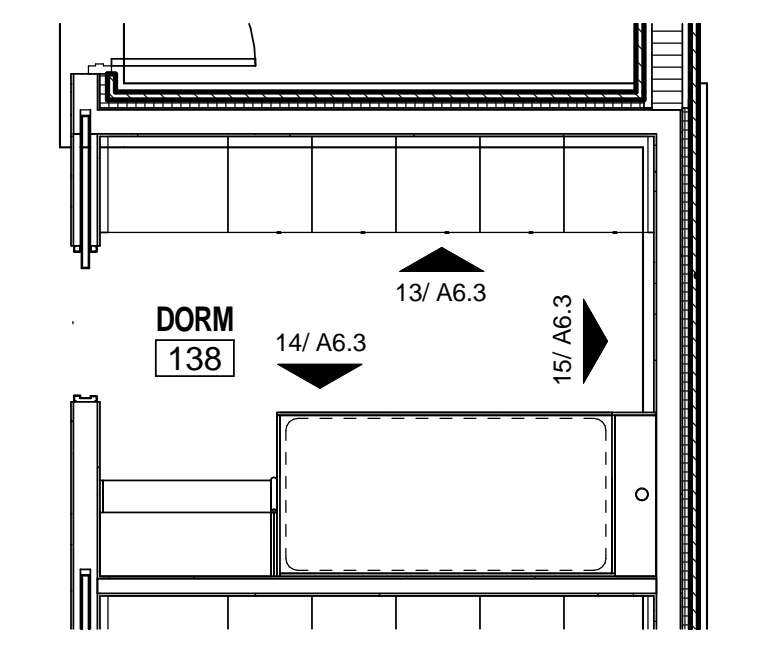
2 ENLARGED PLAN - STAFF TOILETS & LAUNDRY
1/4" = 1'-0"



3 ENLARGED PLAN - OFFICER'S QUARTERS
1/4" = 1'-0"

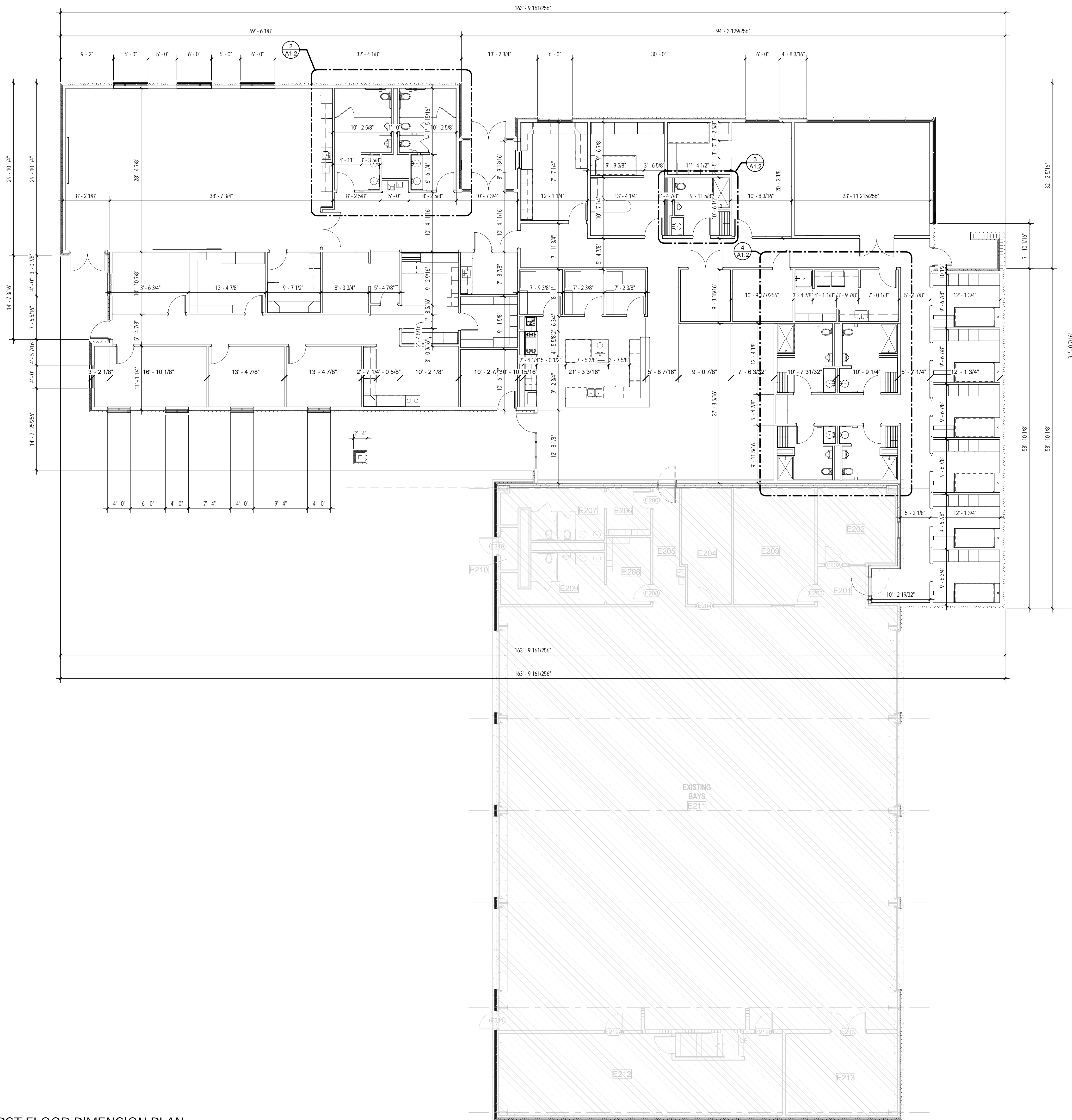


4 ENLARGED PLAN - PUBLIC TOILETS
1/4" = 1'-0"



5 ENLARGED PLAN - TYPICAL DORM
1/4" = 1'-0"

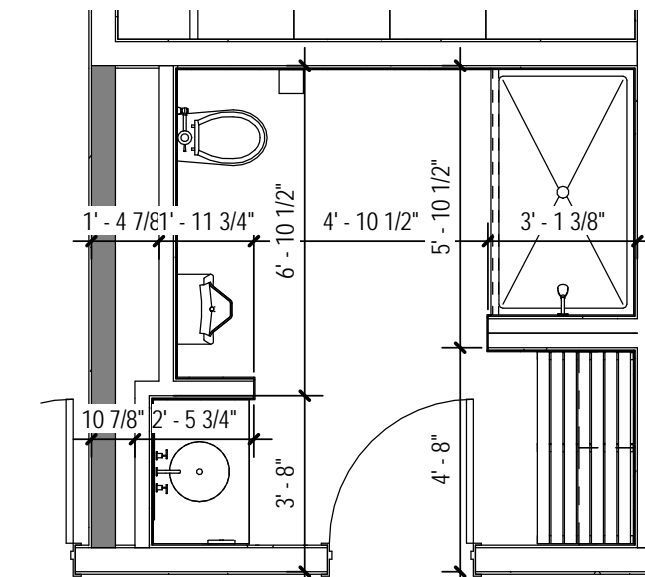
1 FIRST FLOOR PLAN
1/8" = 1'-0"



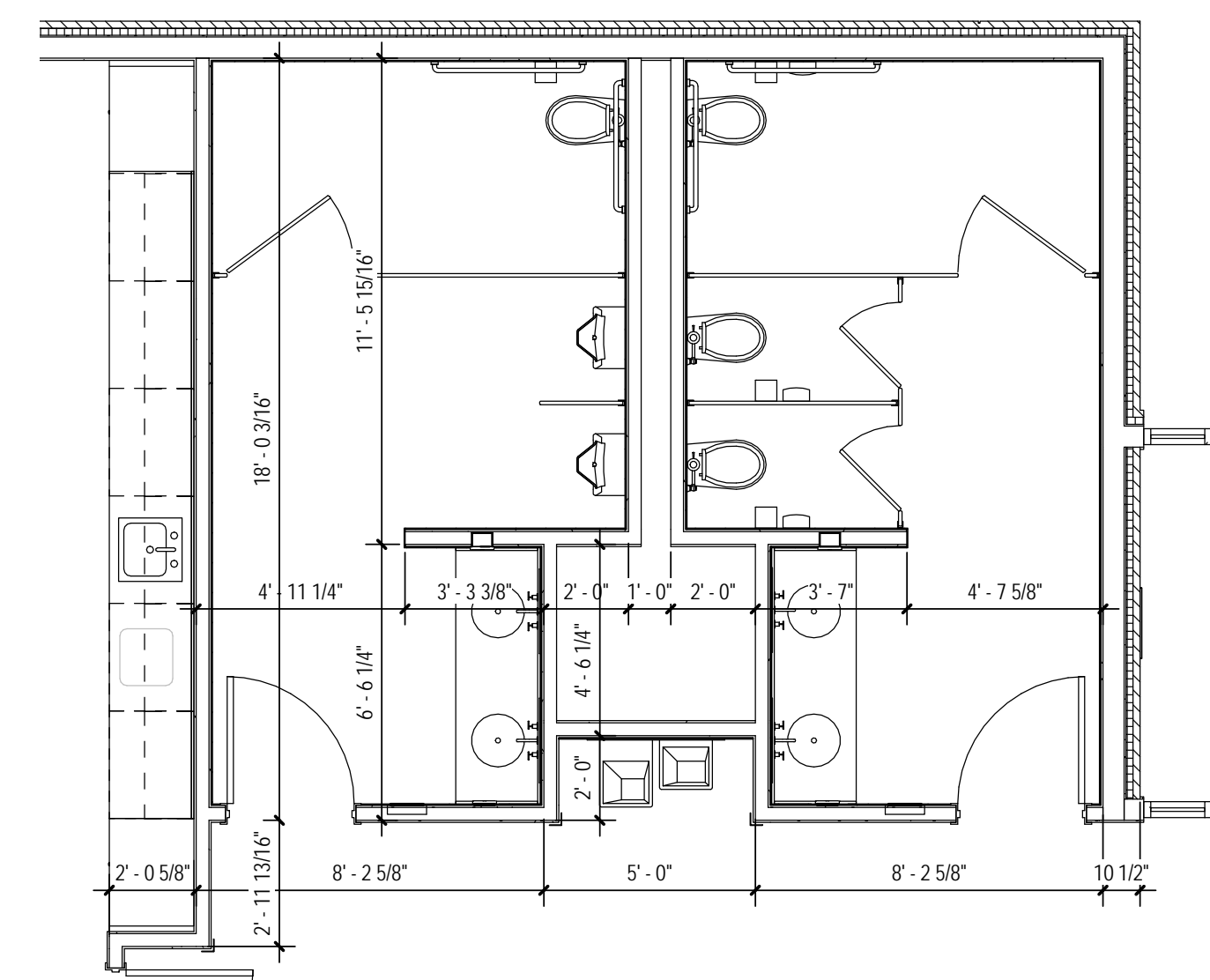
1 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"

GENERAL NOTES

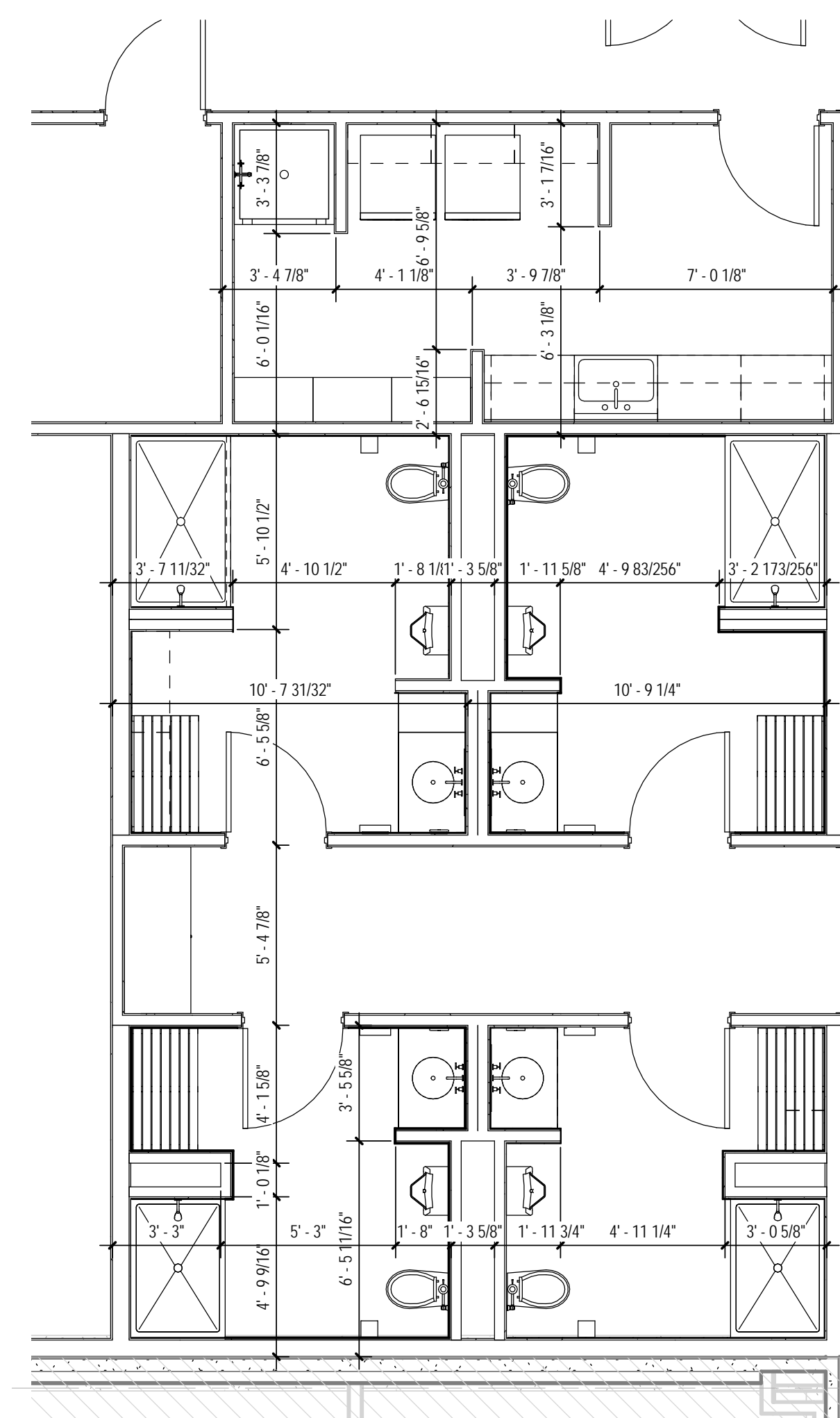
1. DIMENSIONS ON ARCHITECTURAL PLANS ARE TO FACE OF STUD, FACE OF MASONRY OR EDGE OF SLAB UNLESS OTHERWISE NOTED.
2. PRIOR TO INSTALLATION VERIFY EXACT LOCATION OF ALL ACCESSORY ITEMS WITH ARCHITECT.
3. DIMENSIONS SHOWN FOR EXTERIOR DOORS AND WINDOWS ARE TO ROUGH OPENING.
4. CONTROL JOINTS IN EXTERIOR MASONRY ARE TO BE 3/8" WIDE CONTINUOUS VERTICALLY W/ SEALANT & BACKER ROD.
5. CONTRACTOR TO INSTALL BLOCKING IN CEILINGS & WALLS FOR ALL ACCESSORIES, WALL MOUNTED ITEMS, CEILING FANS, TOILET PARTITIONS, ETC.
6. ALL EXTERIOR CMU WALLS ARE TO BE INSULATED.
7. ALL EXTERIOR CMU WALLS THAT HAVE AIR CONDITIONED (COOLING) SPACES ON ONE SIDE & NON-AIR CONDITIONED (UNCOOLED) SPACES ON THE OTHER ARE TO BE INSULATED.
8. TOP OF ALL INTERIOR MASONRY WALLS MUST BE 8" ABOVE THE CEILING HEIGHT, UNLESS NOTED OTHERWISE.
9. ALL INTERIOR STUD WALLS AND GYP. BOARD TO EXTEND 12" ABOVE CEILING, U.A.O. BRACE WALLS TO STRUCTURE AS REQUIRED.
10. MOUNT ALL FIRE EXTINGUISHER CABINETS (F.E.C.) 5'-0" TO A.F.F. TO TOP OF CABINET.
11. PROVIDE HORIZONTAL AND VERTICAL FIREBLOCKING IN ALL INTERIOR AND EXTERIOR METAL STUD WALLS AND PARTITIONS. FIREBLOCKING IN WALLS SHALL CONSIST OF NON-PERFORATED METAL STUD. PROVIDE AT THE TOP OF ALL WALLS AND/OR AT THE TOP OF SHEETS OF GYPSUM BOARD. IN NO CASE SHALL FIREBLOCKING PROTECTION BE AT INTERVALS GREATER THAN 10 FOOT BOTH HORIZONTALLY AND VERTICALLY.
12. VERIFY EXACT DIMENSIONAL REQUIREMENTS OF SOLID SURFACING SHOWER UNITS PRIOR TO WALL ERECTION.
13. ALIGN FINISH FACES OF ADJACENT, PLANAR WALLS.



3 ENLARGED DIMENSION PLAN
1/4" = 1'-0"



2 ENLARGED DIMENSION PLAN
1/4" = 1'-0"

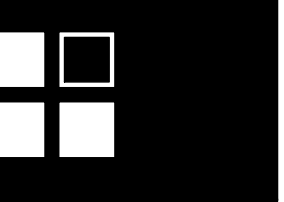


4 ENLARGED DIMENSION PLAN
1/4" = 1'-0"

Original Issue Date: 04/04/14
Revisions:

LUCAS CENTRAL FS
165 COUNTRY CLUB ROAD LUCAS, TX 75002

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ANTHONY JEFFREY
TEXAS REGISTRATION NO. 12901
DATE:

Job No.
1215

Sheet No.
A1.2
DIMENSION PLAN



FINISH MATERIAL LEGEND						
CODE	MATERIAL	MANUFACTURER	STYLE	COLOR/FINISH	SIZE	COMMENTS
Walls						
PT-2	PORCELAIN TILE TYPE 2	DALTILE	TIMBER GLEN RUSTIC	HEATH P613	4"x24"	
PT-3	PORCELAIN TILE TYPE 3	DALTILE	CITY VIEW	SKYLINE GRAY CY02	12"x12"	
PT-4	PORCELAIN TILE TYPE 4	DALTILE	TBD	TBD	MOSAIC	
Generic Models						
AP-1	ACOUSTIC PANEL	MAHARAM	MESSENGER	CLOUD		
Furniture						
WD-1	WOOD VENEER & SOLID WOOD		RED OAK	STAIN TO MATCH ARCHITECTS SAMPLE		
Floors						
HC	HARDENED CONCRETE			HARDENED CONCRETE		
B-0	NO BASE - METAL EDGE COVE TRIM		SCHULTER			
PC-1	POLISHED CONCRETE		TBD	NATURAL GRAY		
PT-1	PORCELAIN TILE TYPE 1	DALTILE	CITY VIEW	VILLAGE CAFE CY07	12"x24"	2
RB-1	RUBBER TILE TYPE 1			COLOR/FINISH		
RF-1	RUBBER FLOOR TYPE 1			COLOR/FINISH		
Casework						
PL-1	PLASTIC LAMINATE TYPE 1					
SSF-1	SOLID SURFACE TYPE 1			COLOR/FINISH		
WD-1	WOOD VENEER & SOLID WOOD		RED OAK	STAIN TO MATCH ARCHITECTS SAMPLE		

GENERAL FINISH NOTES

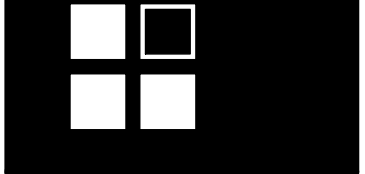
1. PT-1 FIELD TILE IN CORRIDORS TO BE FULL SIZE TILES IN WIDTH. PT-2 BORDER MAY BE CUT IN WIDTH AS REQUIRED.
2. ALL FLOOR MATERIAL TRANSITIONS ARE TO OCCUR AT THE CENTERLINE OF DOOR.
3. REFER TO SPECIFICATIONS FOR WALL AND CEILING TEXTURES.
4. WALLS & CEILING OF KITCHEN TO BE SEMI-GLOSS FINISH.
5. REFER TO OTHER PORTIONS OF THE CONTRACT DOCUMENTS FOR OTHER MATERIALS/PRODUCTS NOT INCLUDED IN THE FINISH MATERIAL LEGEND.
6. CUT TILES TO 4" HEIGHT FOR BASE. ALIGN BASE JOINTS WITH ADJACENT FLOOR TILE JOINTS.

1 FINISH PLAN
1/8" = 1'-0"

50% CD
Original Issue Date: 04/04/14
Revisions:

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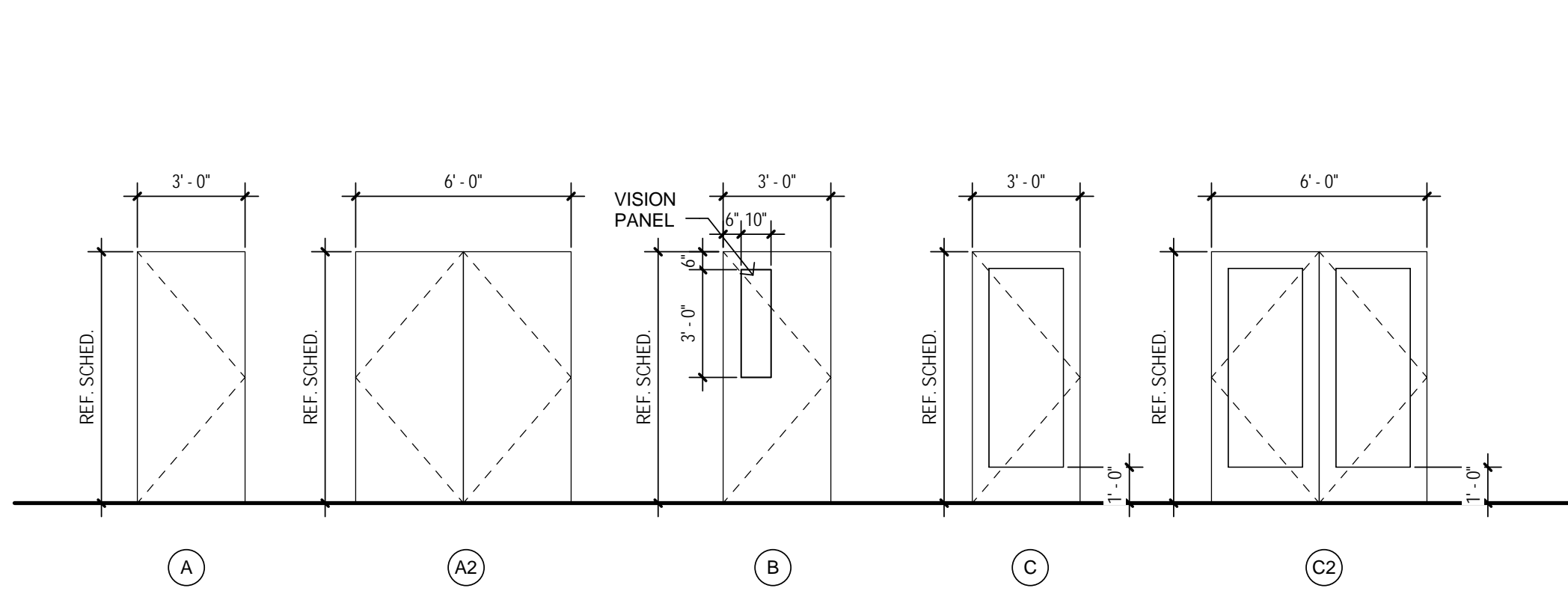


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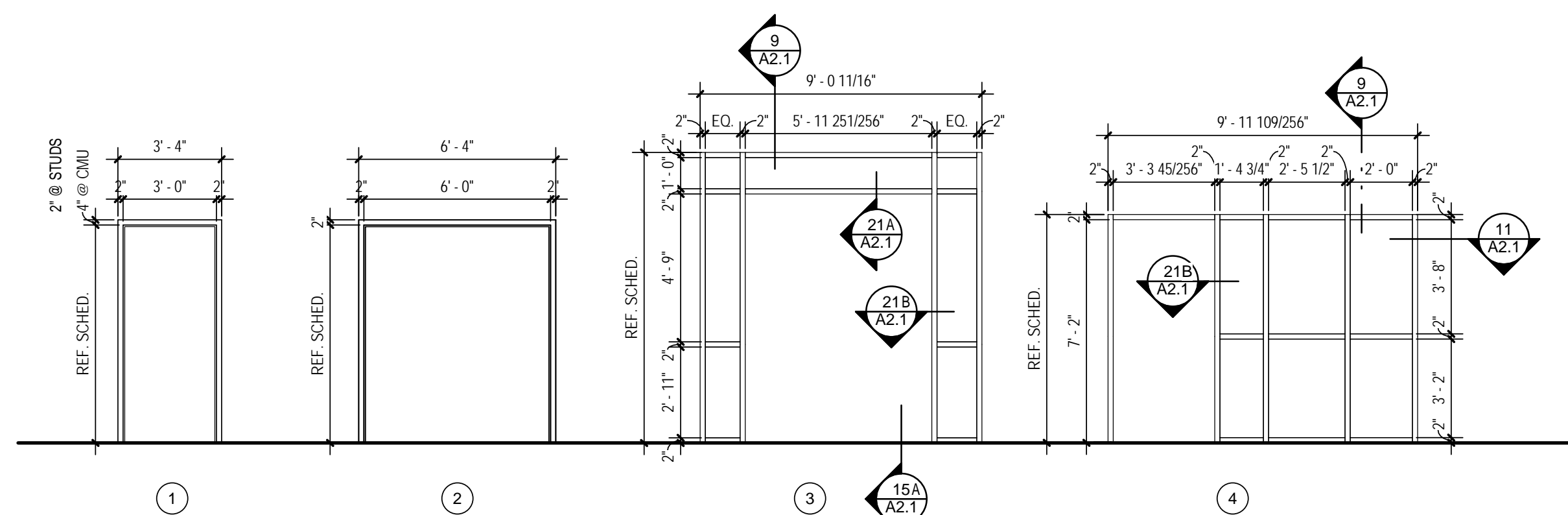
NOT INTENDED FOR BIDDING. PERMIT OR CONSTRUCTION NOT APPROVED.
ANTHONY JEFFERY
TEXAS REGISTRATION NO. 12911
DATE:

Job No.
1215

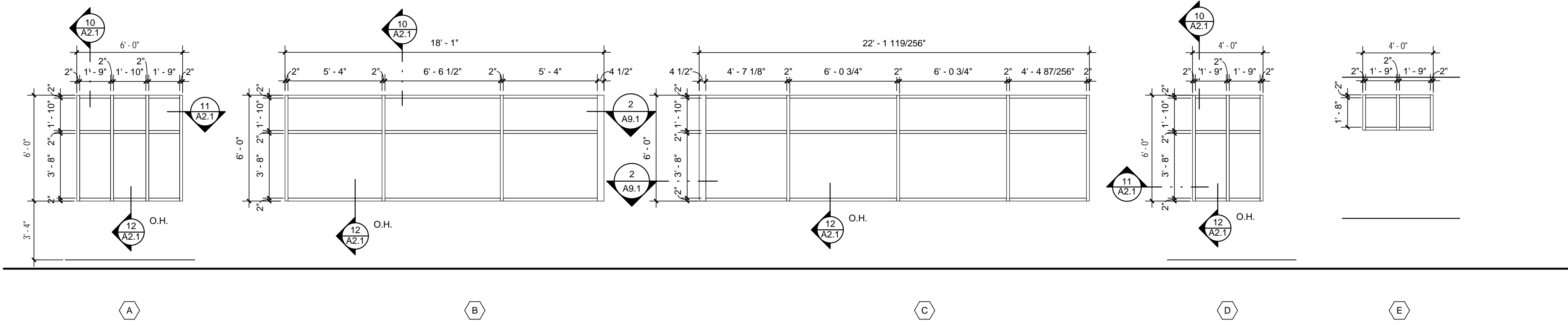
Sheet No.
A1.3
FINISH PLAN & SCHEDULE



DOOR TYPES



DOOR FRAME TYPES



WINDOW TYPES

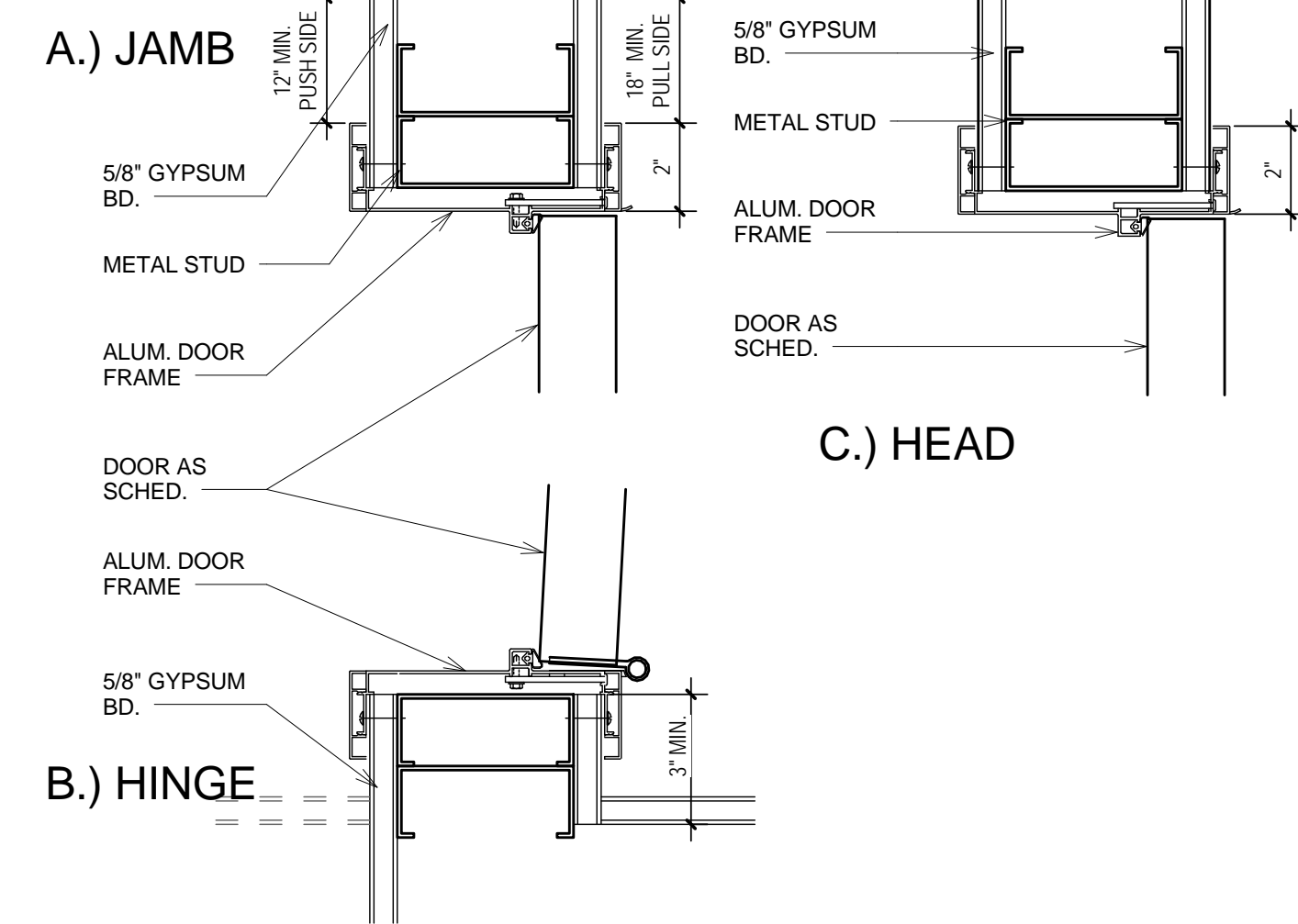
DOOR NO.	DOOR				FRAME				NOTE		
	TYPE	WIDTH	HEIGHT	ELEV.	TYPE	ELEV.	HEAD HT.	HEAD		JAMB	SILL
100	AL/GL PAIR	6'-0"	8'-0"	C2	AL-SF2	3	0'-0"	11A/A2.03	11A/A2.03	11B/A2.03	
101	AL/GL PAIR	6'-0"	8'-0"	C2	AL-SF2	3	0'-0"	11A/A2.03	11A/A2.03	11B/A2.03	
102	WD	3'-0"	7'-2"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
103	HM	3'-0"	7'-0"	A	HM-W	1	0'-4"	3A/A2.2	3B/A2.2		
103A	WD	3'-0"	7'-2"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
104	WD	3'-0"	7'-2"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
105	WD PAIR	6'-0"	7'-2"	A2	AL-KD2	2	0'-2"	2CA/A2.2	2A8B/A2.2		
105A	HM PAIR	6'-0"	7'-0"	A2	HM-W2	2	0'-4"	1A/A2.2	1B/A2.2		
106	WD	3'-0"	7'-2"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
108	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
110	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
111	10X10	9'-0 1/2"	8'-0"		K						
112	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
113	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
114	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
115	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
116	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
117	WD	3'-0"	7'-2"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
118	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
119	HM	3'-0"	7'-0"	A	HM-W1	1	0'-4"				
121	AL/GL	3'-0"	7'-2"	C	AL-SF	4	0'-2"	RE. SCHED.	RE. SCHED.	8A/A2.2	
122	WD PAIR	6'-0"	7'-0"	B2	AL-KD2	2	0'-2"	2CA/A2.2	2A8B/A2.2		
123	HM	3'-0"	7'-0"	A	HM-W	1	0'-4"	3A/A2.2	3B/A2.2		
125	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
126	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
127	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
128	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
129	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
131	WD PAIR	6'-0"	7'-0"	A2	AL-KD2	2	0'-2"	2CA/A2.2	2A8B/A2.2		
132	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
134	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
136	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
137A	HM	3'-0"	7'-0"	A	HM-W	1	0'-4"	3A/A2.2	3B/A2.2		
137C	HM	3'-0"	7'-0"	A	HM-W	1	0'-4"				
138	WD	3'-0"	7'-0"	A	AL-PK	1		2A/A2.2	2B8C/A2.2		
139	WD	3'-0"	7'-0"	A	AL-PK	1		2A/A2.2	2B8C/A2.2		
140	WD	3'-0"	7'-0"	A	AL-PK	1		2A/A2.2	2B8C/A2.2		
141	WD	3'-0"	7'-0"	A	AL-PK	1		2A/A2.2	2B8C/A2.2		
142	WD	3'-0"	7'-0"	A	AL-PK	1		2A/A2.2	2B8C/A2.2		
143	WD	3'-0"	7'-0"	A	AL-PK	1		2A/A2.2	2B8C/A2.2		
145	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
146	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
147	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		
148	WD	3'-0"	7'-0"	A	AL-KD	1	0'-2"	1CA/A2.2	1A8B/A2.2		

DOOR SCHEDULE LEGEND

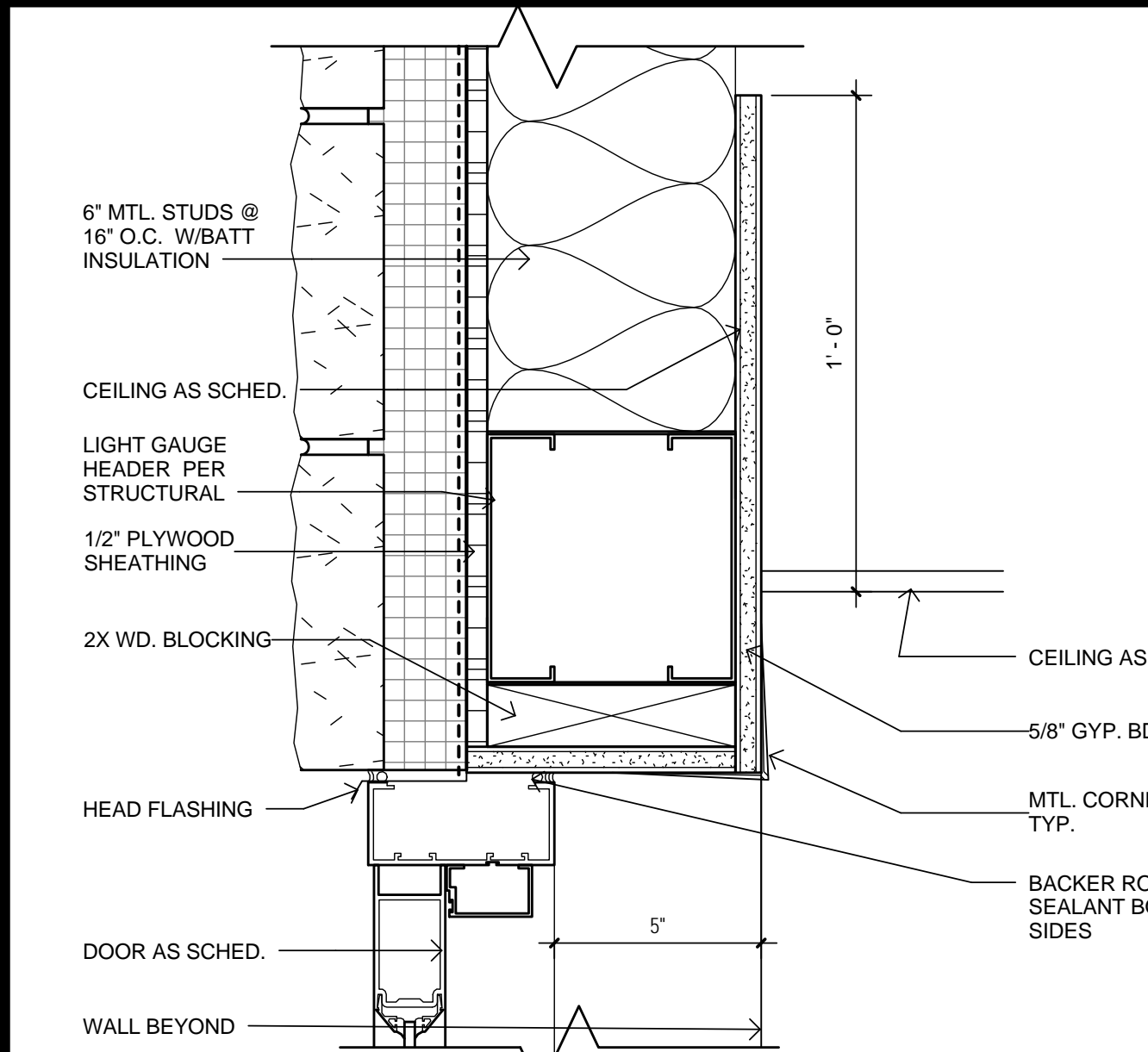
AL/GL ALUMINUM & GLASS DOOR
 WD WOOD DOOR
 HM HOLLOW METAL DOOR
 O.H. AL/GL OVER HEAD DOOR W/ ALUMINUM AND GLASS PANELS
 AL-SF ALUMINUM STOREFRONT FRAME
 AL-SF2 ALUMINUM STOREFRONT FRAME, PAIR
 AL-KD ALUMINUM KNOCK-DOWN FRAME
 AL-KD2 ALUMINUM KNOCK-DOWN FRAME, PAIR
 AL-PK ALUMINUM POCKET DOOR FRAME
 AL-PK2 ALUMINUM POCKET DOOR FRAME, PAIR
 HM-W WELDED HOLLOW METAL FRAME
 HM-W2 WELDED HOLLOW METAL FRAME, PAIR
 STL STEEL FRAME

DOOR SCHEDULE NOTES

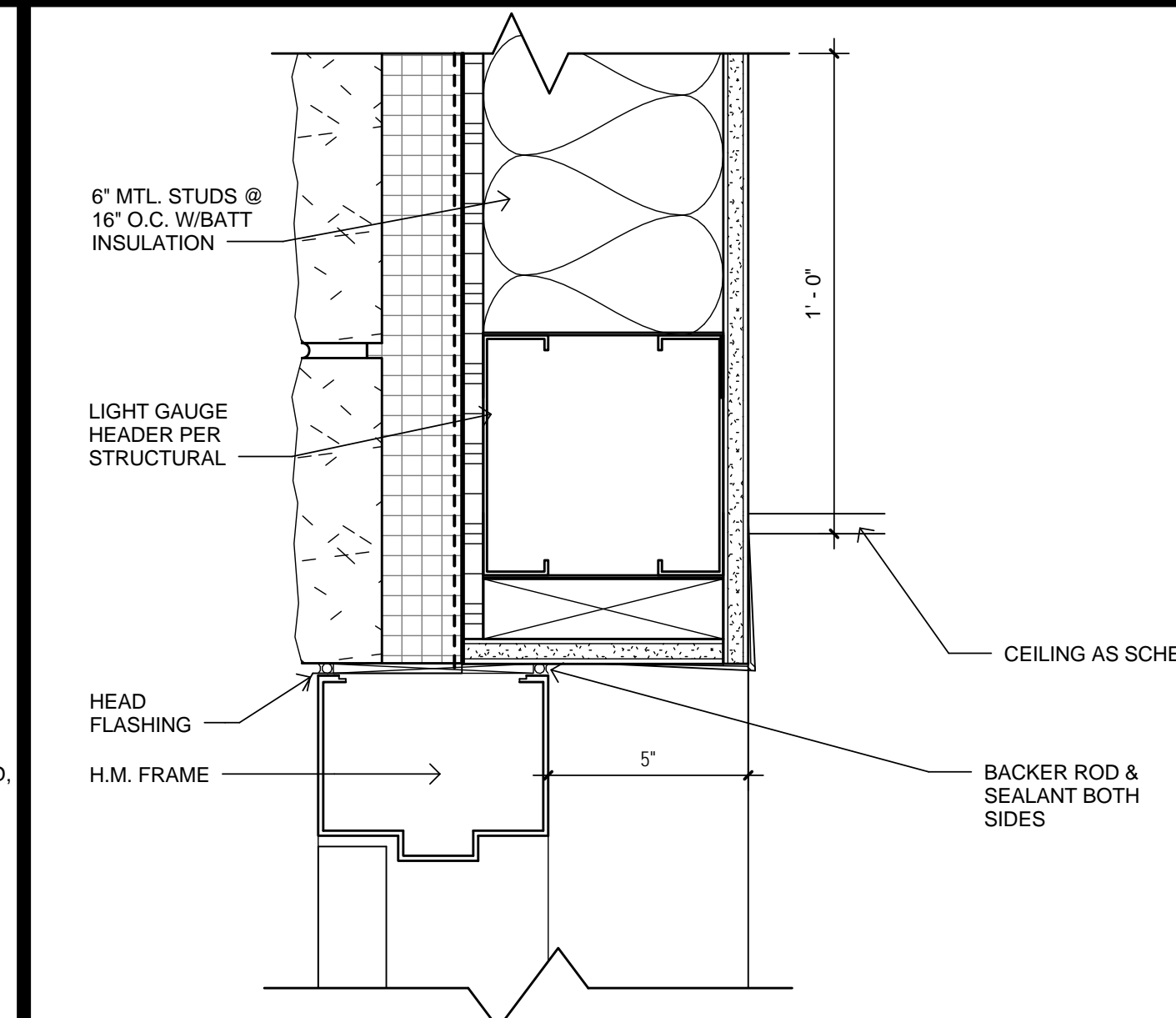
1. DOOR IS TO RECEIVE A PEEP HOLE.



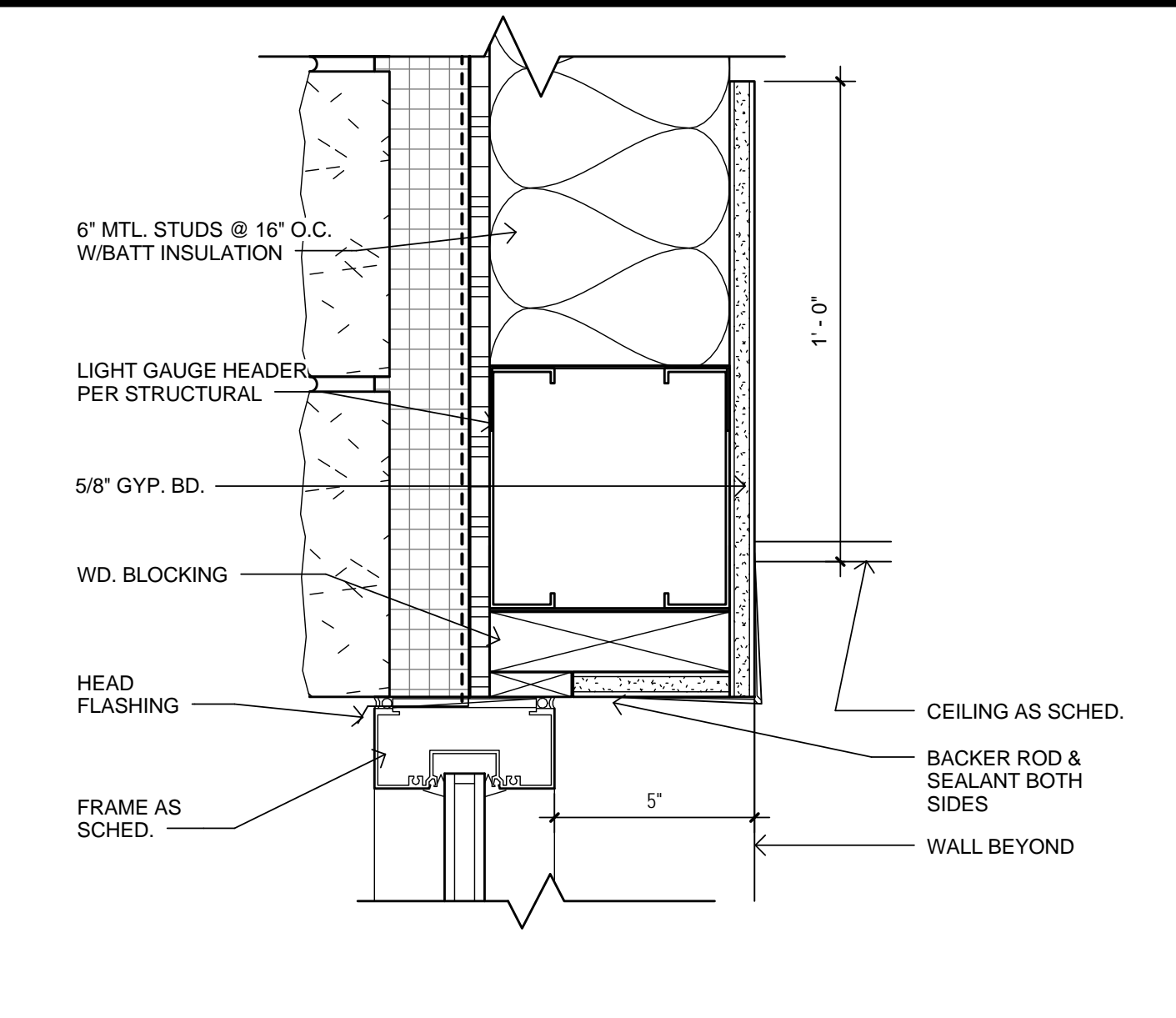
3 ALUM. KNOCKDOWN HEAD & JAMB DETAIL 1
3" = 1'-0"



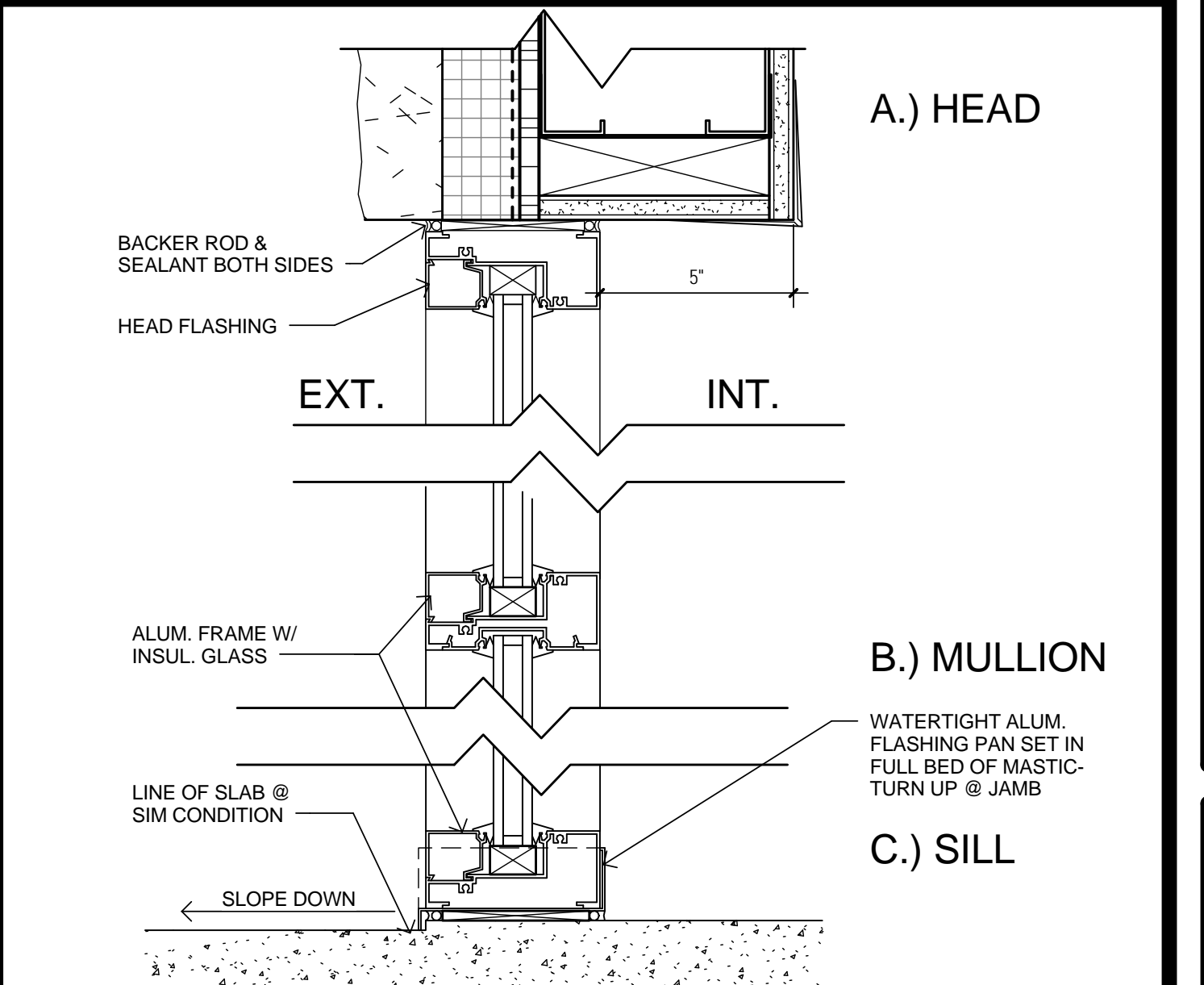
9 ALUM DOOR HEAD DETAIL
3" = 1'-0"



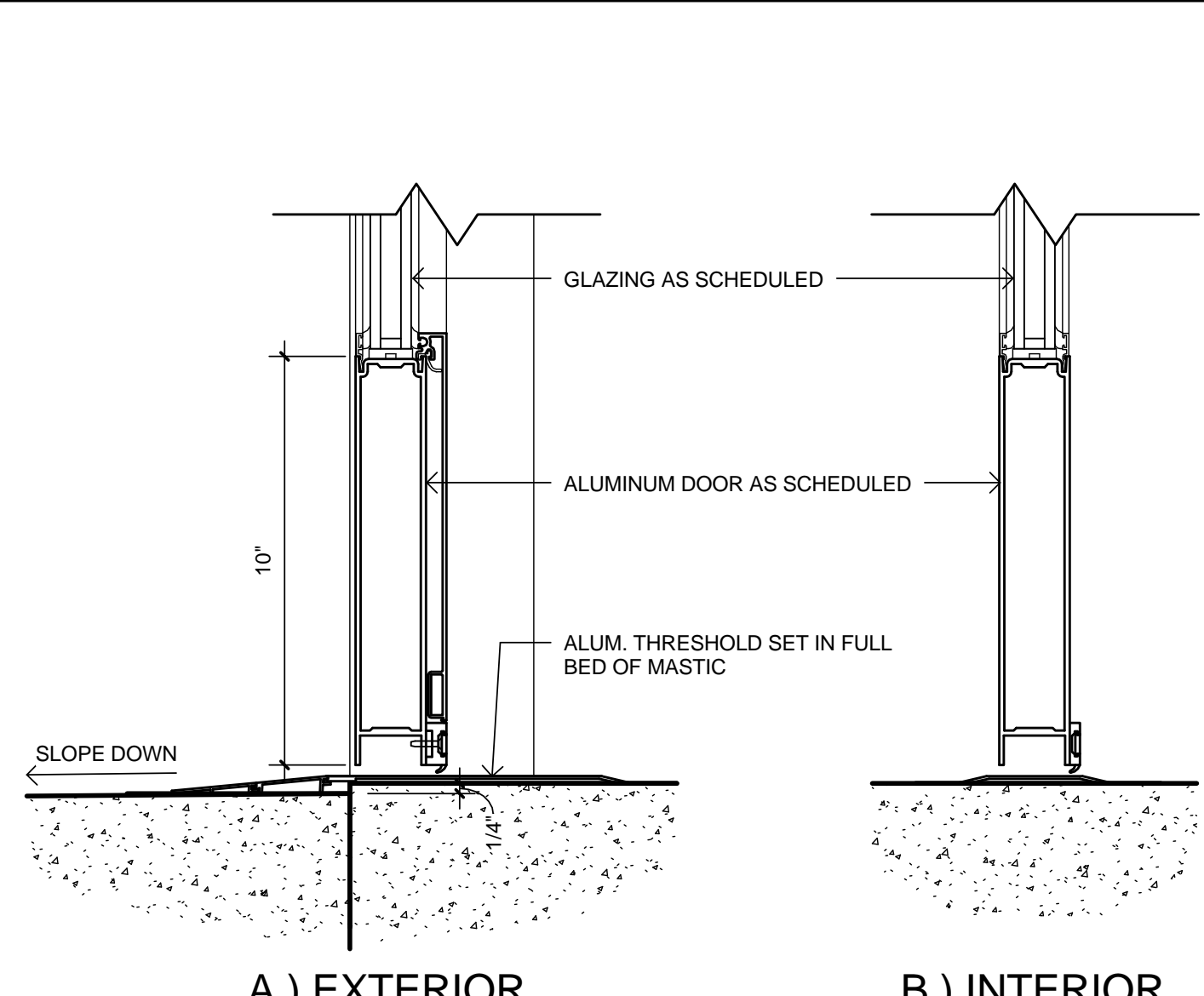
14 H.M. HEAD DETAIL
3" = 1'-0"



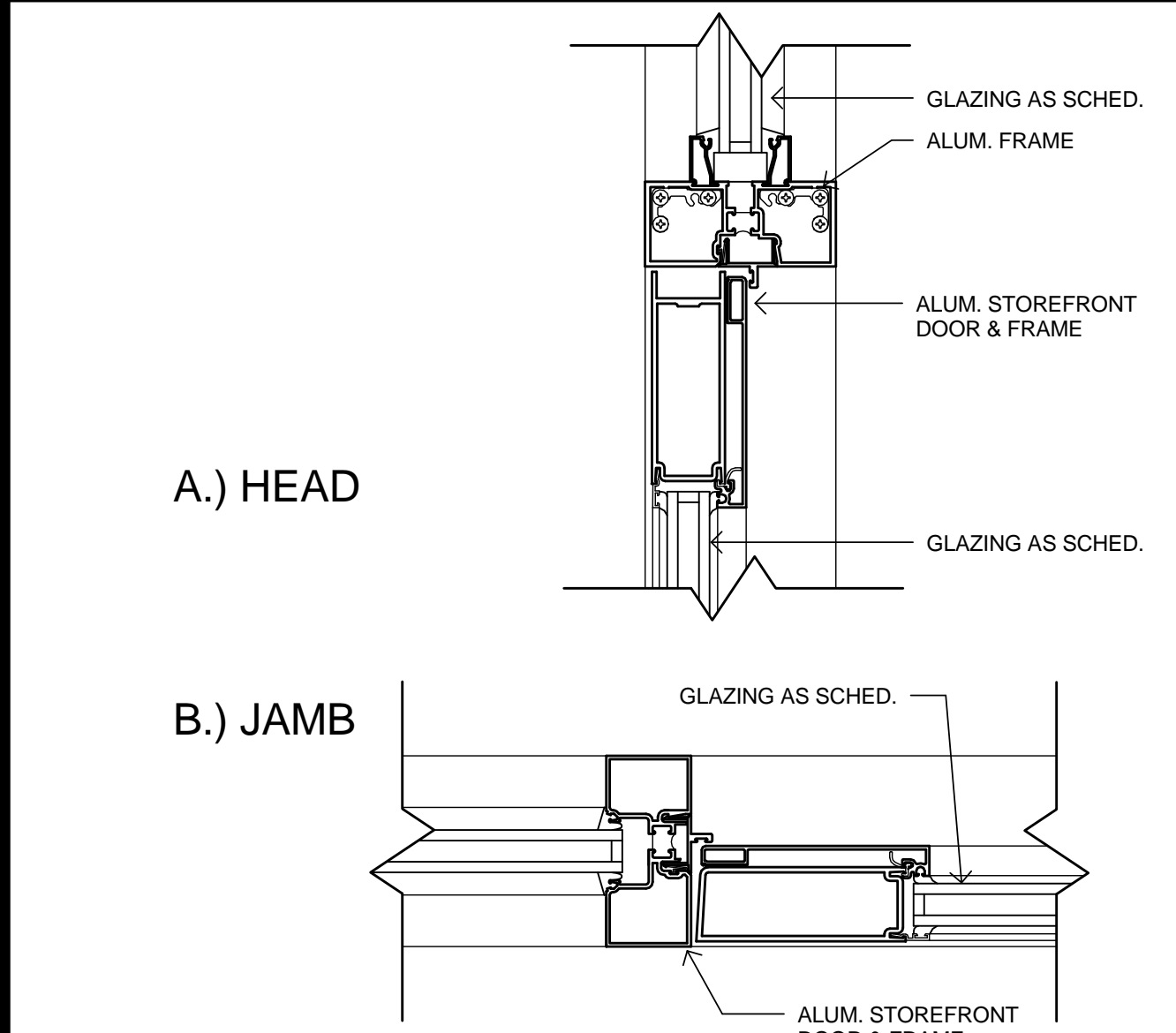
10 ALUM HEAD DETAIL
3" = 1'-0"



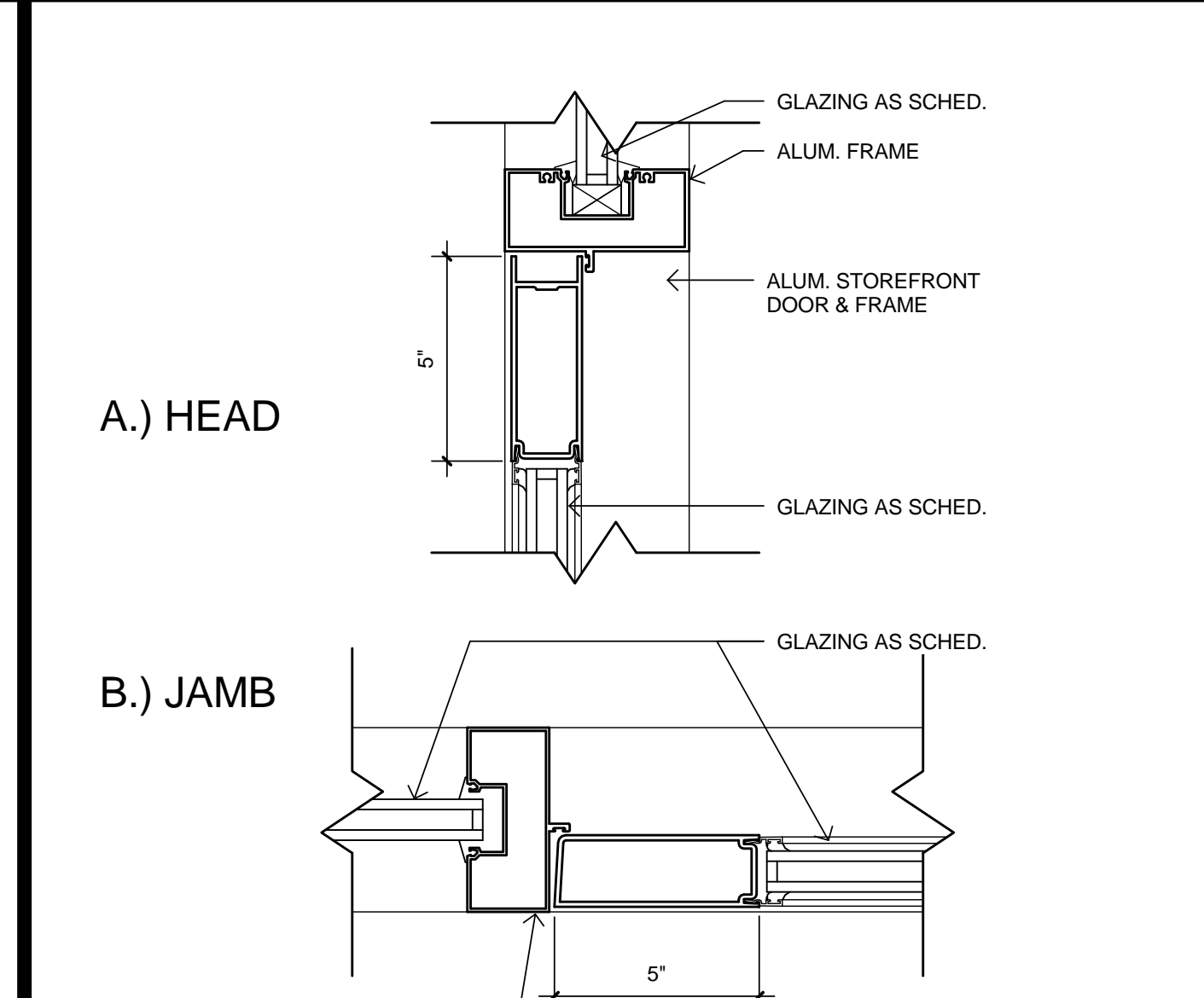
16 STOREFRONT FRAME TYPICAL
3" = 1'-0"



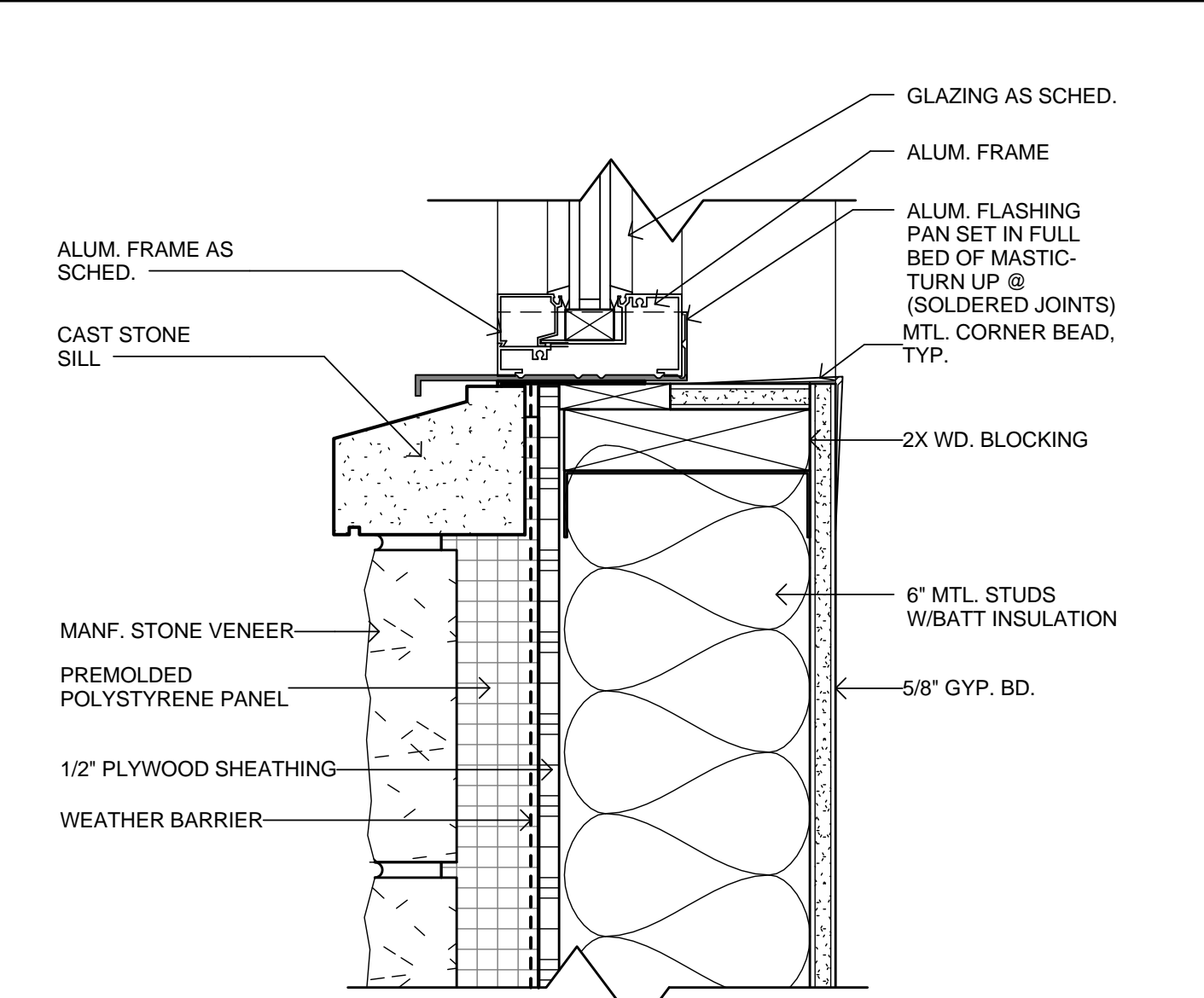
15 STOREFRONT SILL DETAIL
3" = 1'-0"



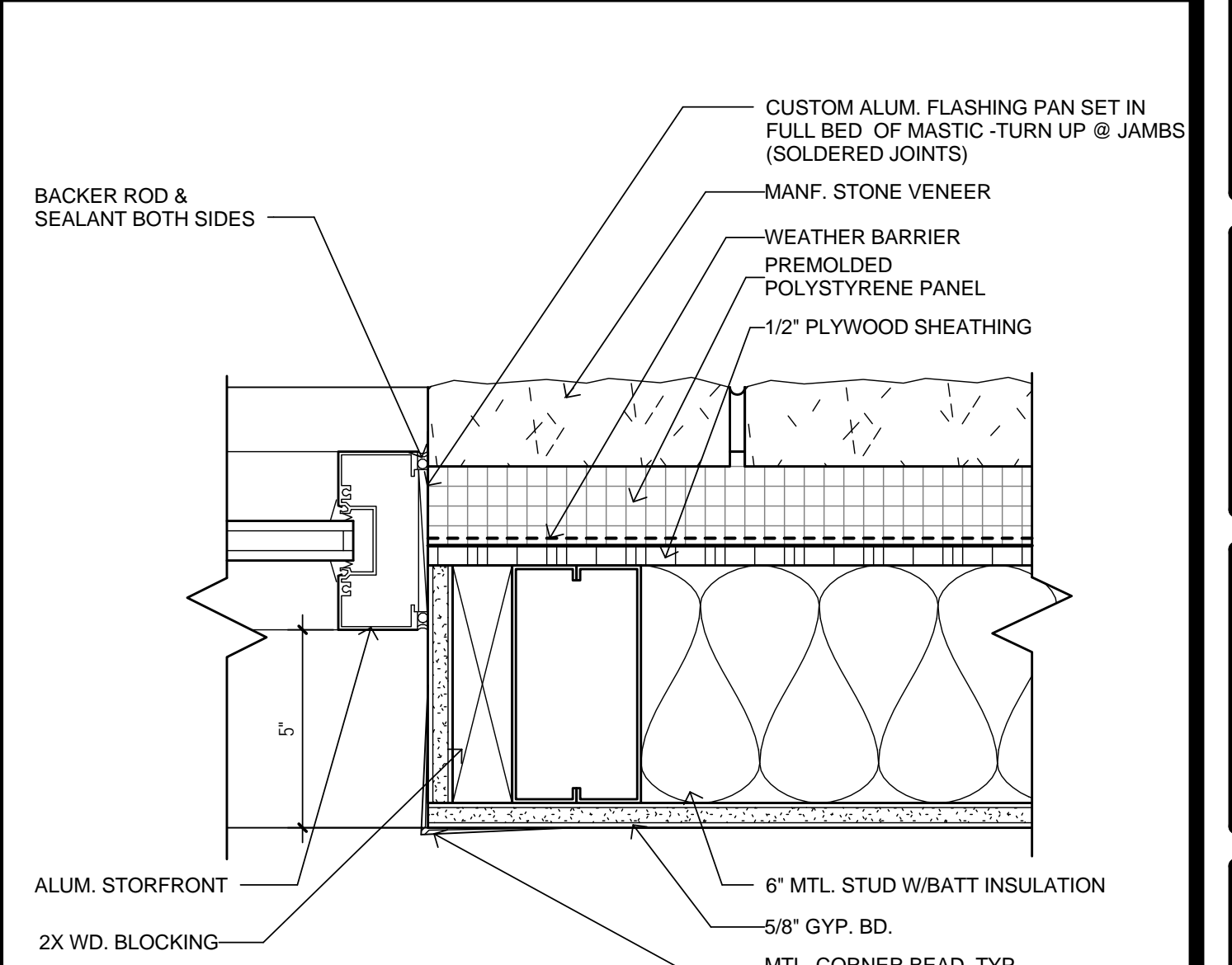
21 ALUM. @ HEAD & JAMB MULLION
3" = 1'-0"



13 ALUM. @ HEAD & JAMB MULLION
3" = 1'-0"



12 ALUM SILL DETAIL
3" = 1'-0"



11 ALUM JAMB AT STUDS
3" = 1'-0"

ELEVATION NOTES

1. TYPICAL CONTROL JOINT SPACING IS 4'-0" FROM CORNERS UNLESS NOTED OTHERWISE.
2. CONTROL JOINTS IN EXTERIOR MASONRY ARE TO BE 3/8" WIDE.
3. MASON TO BEGIN ALL EXTERIOR MASONRY COURSING FROM OUTSIDE CORNERS AND WORK INWARD.
4. ALIGN ALL REVEALS WITH WINDOW FRAMES & DOOR OPENINGS. U.N.O.

Original Issue Date: 04/04/14
Revisions:

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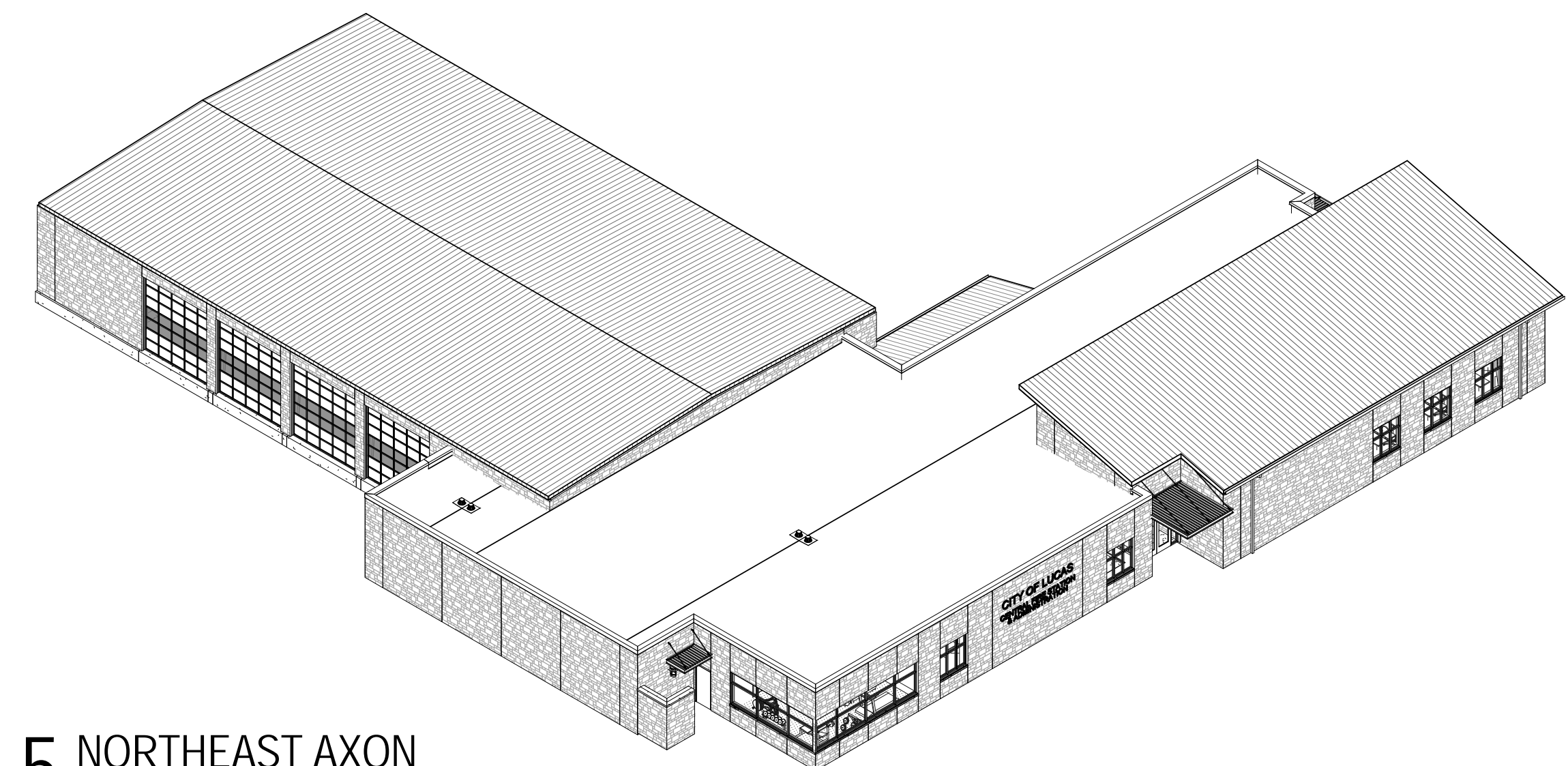
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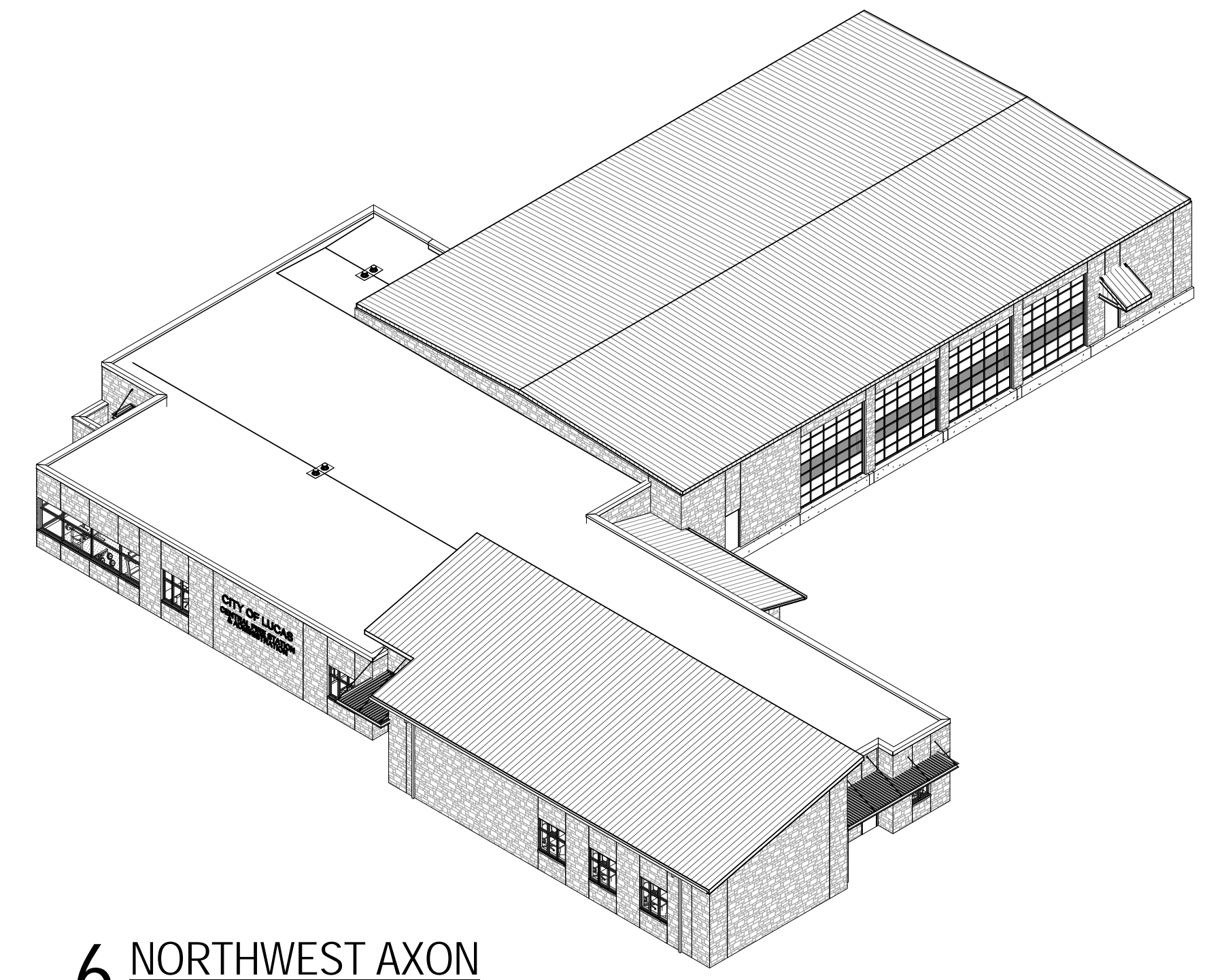
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ANTHONY JEFFERY
TEXAS REGISTRATION NO. 12901

Job No.
1215

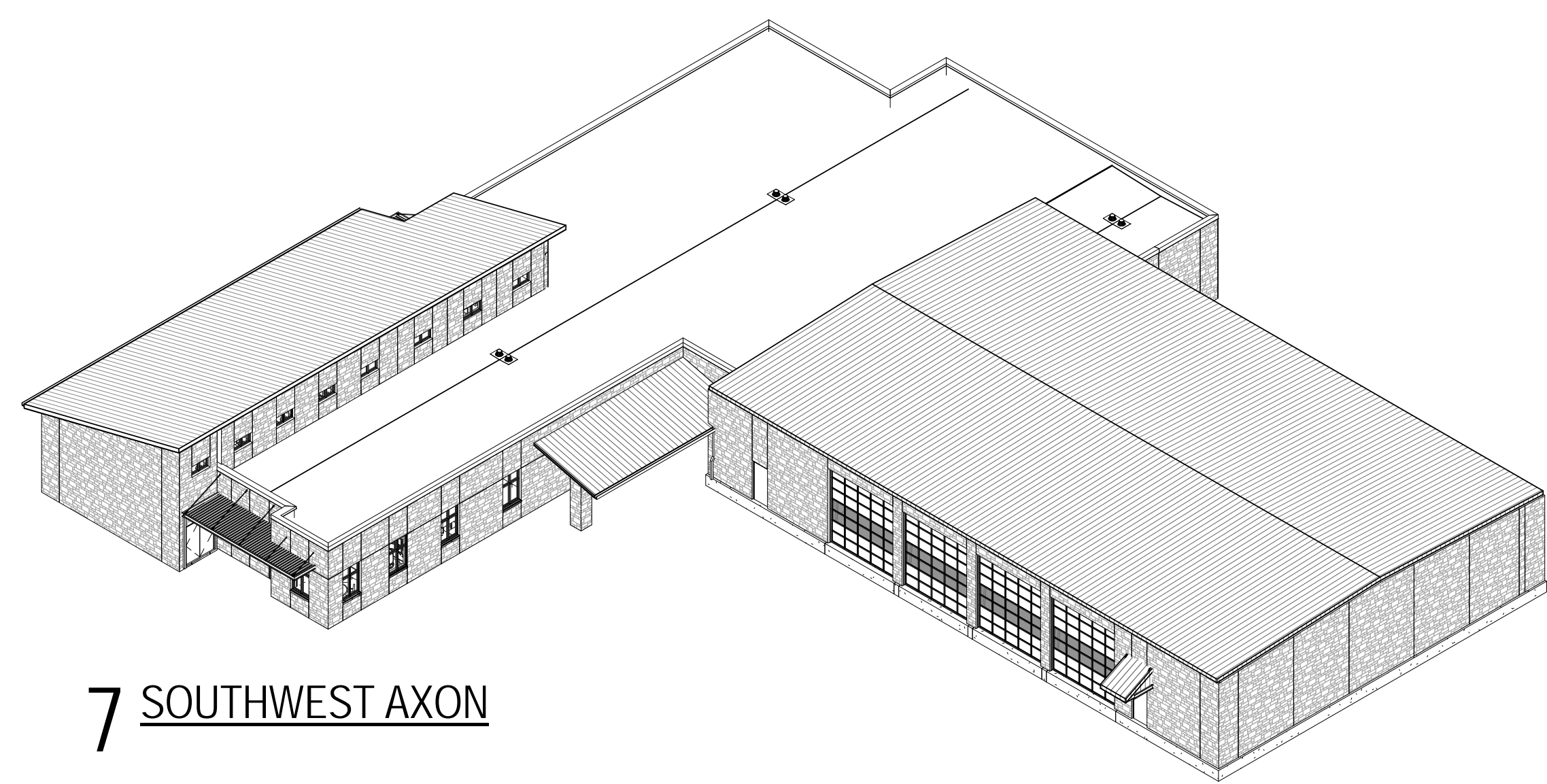
Sheet No.
A3.1
ELEVATIONS



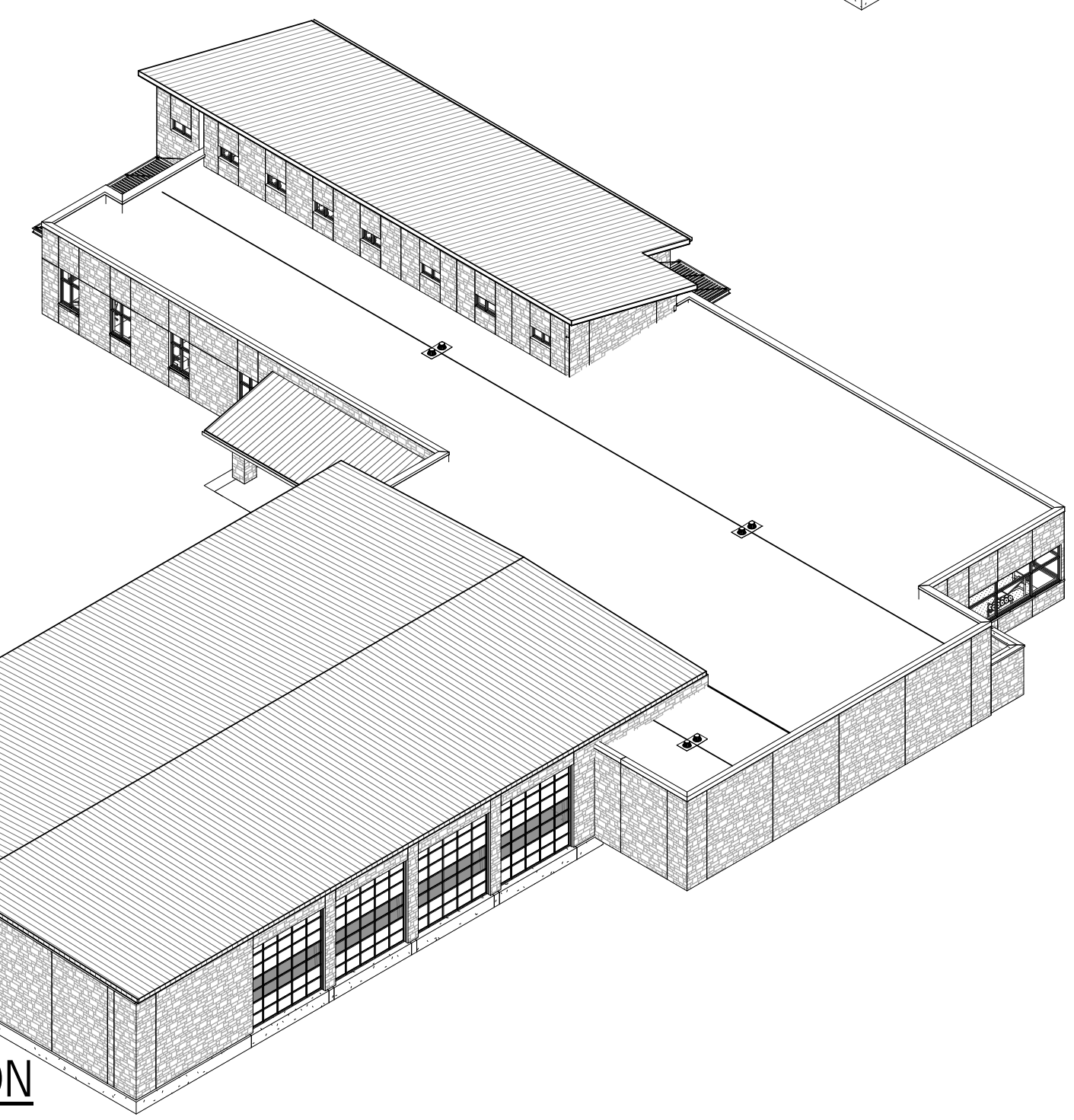
5 NORTHEAST AXON



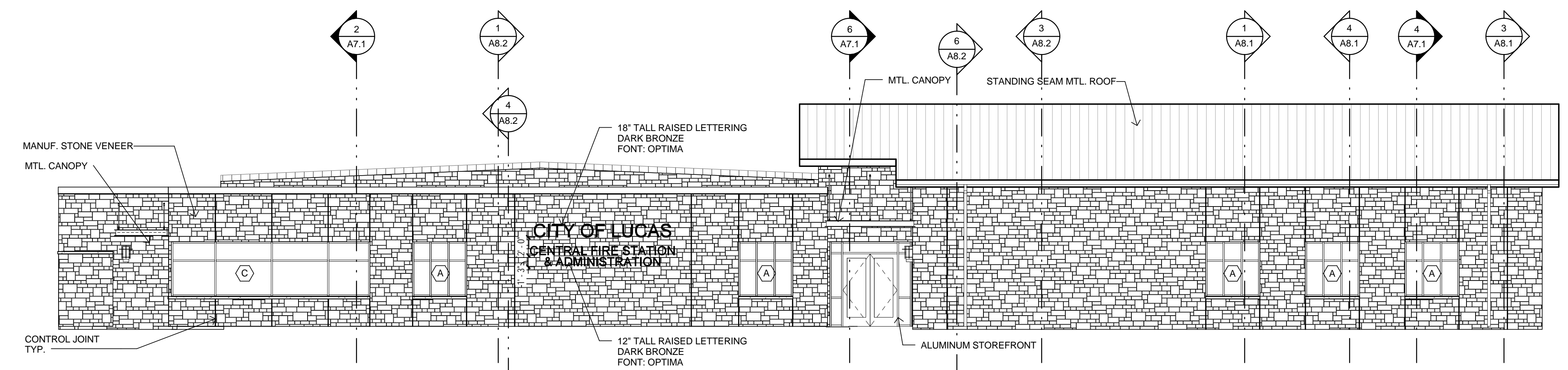
6 NORTHWEST AXON



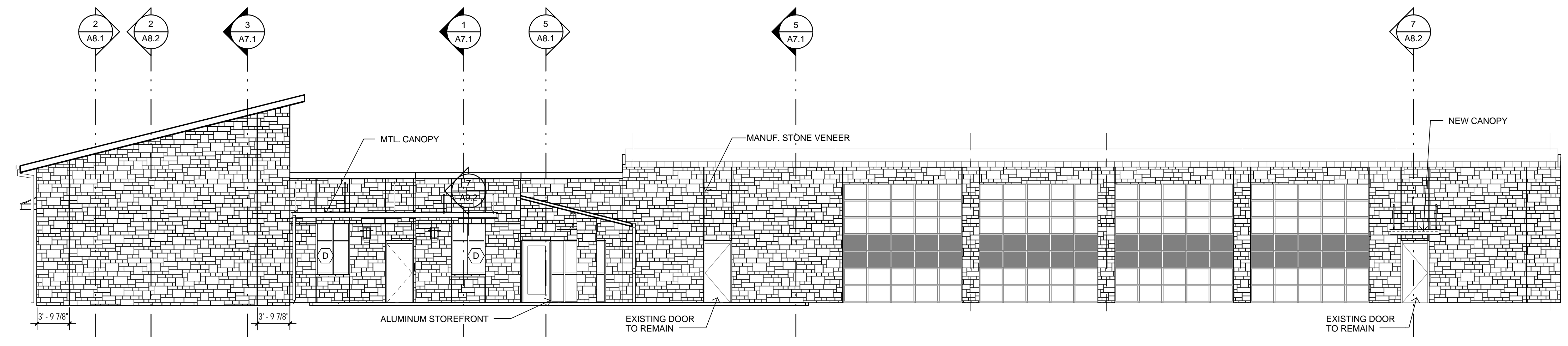
7 SOUTHWEST AXON



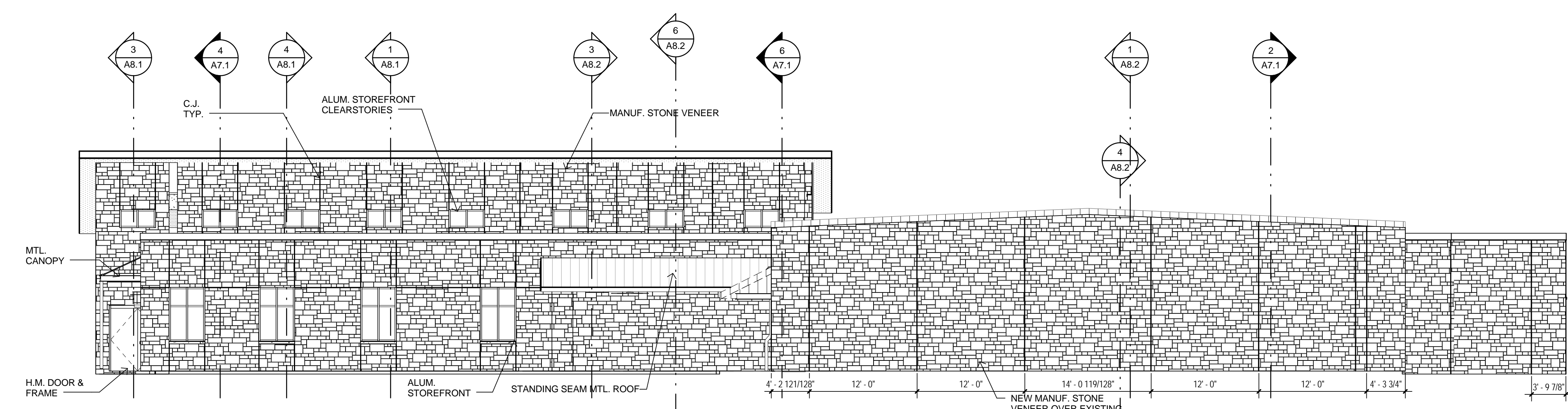
8 SOUTHEAST AXON



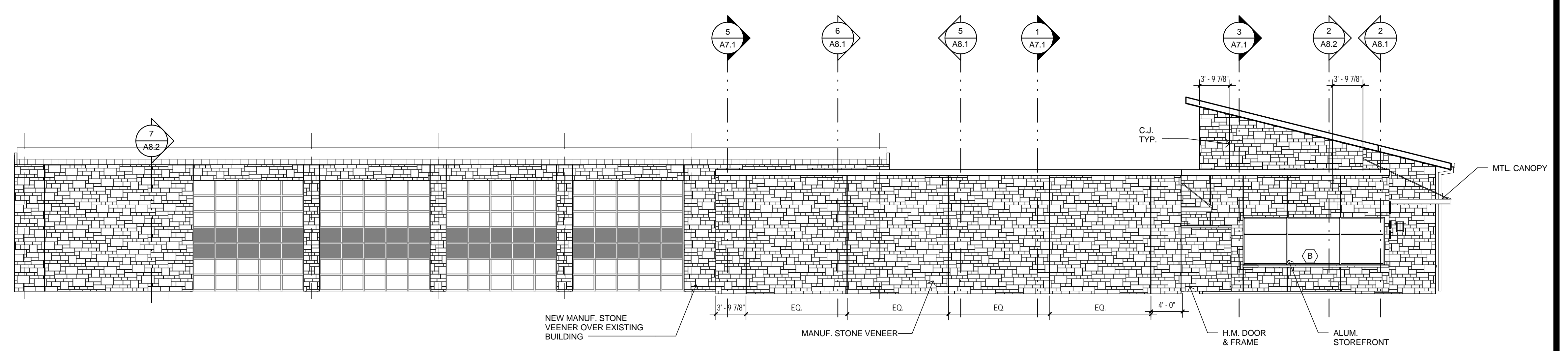
1 NORTH ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"



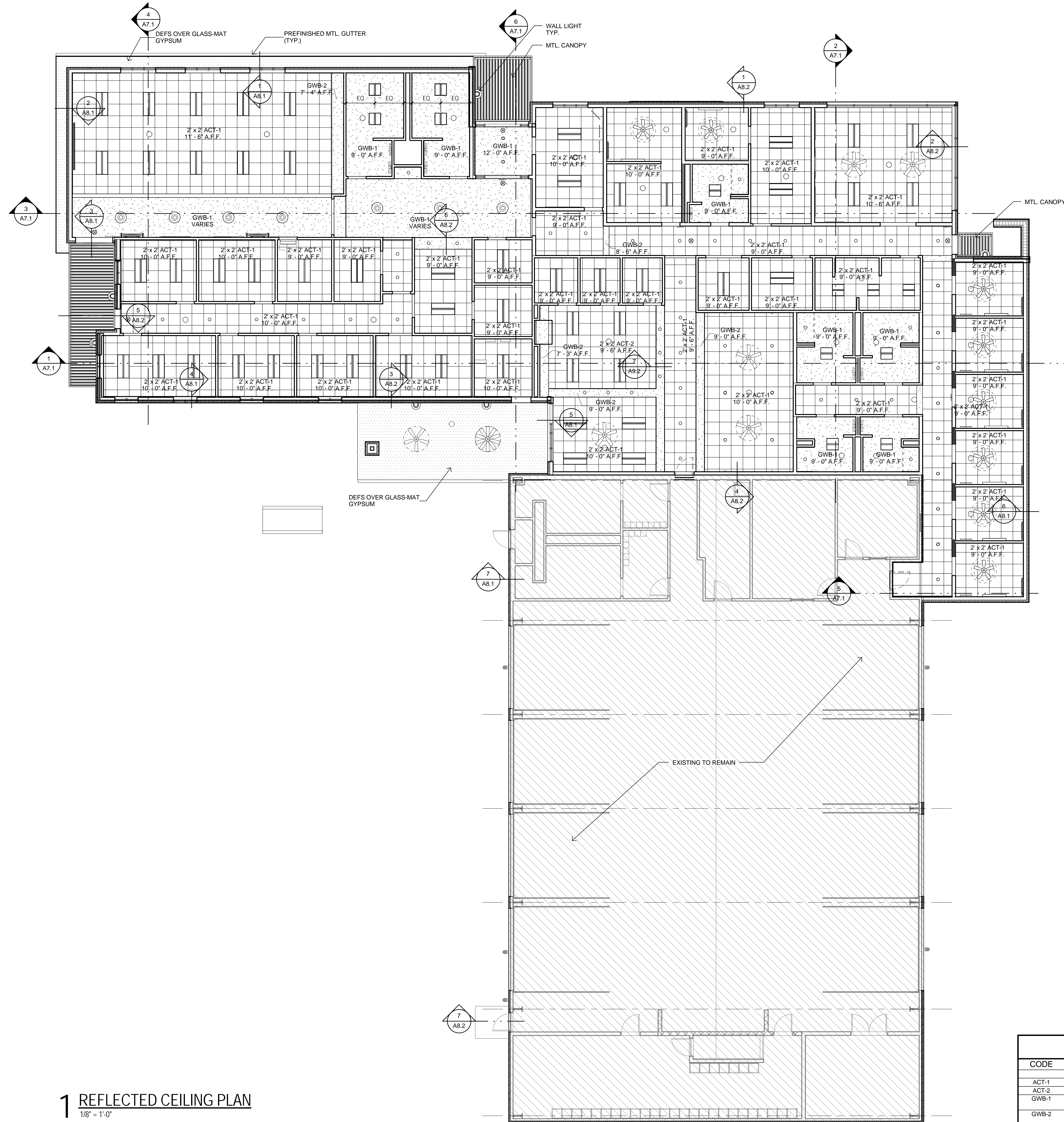
3 SOUTH ELEVATION
1/8" = 1'-0"



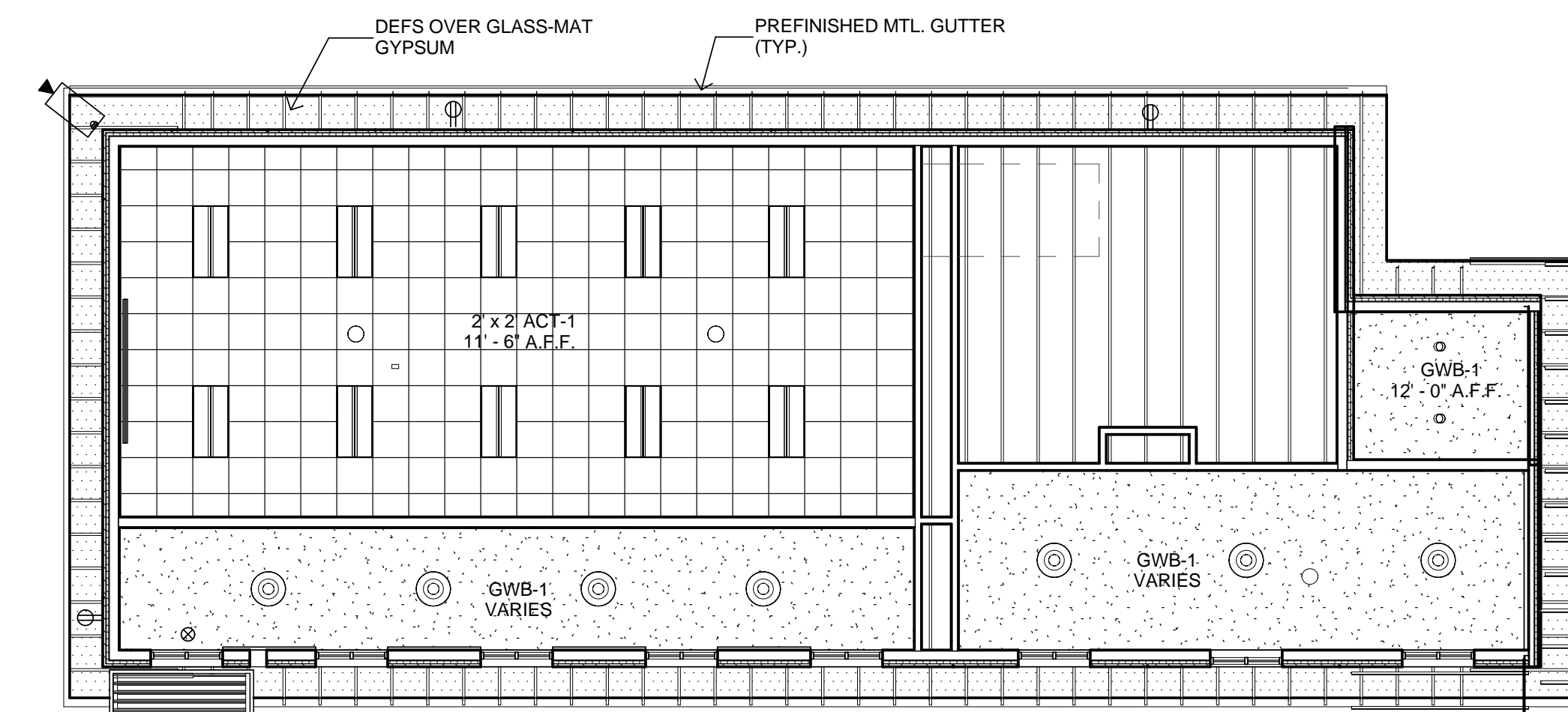
4 EAST ELEVATION
1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

1. DIMENSIONS ON ARCHITECTURAL PLANS ARE TO FACE OF STUD, FACE OF MASONRY OR EDGE OF SLAB UNLESS OTHERWISE NOTED.
2. ACOUSTICAL CEILING TILE TO BE CENTERED IN ROOM UNLESS OTHERWISE NOTED.
3. RECESSED FIXTURES ARE TO BE CENTERED IN THE ROOM/CORRIDOR IF NO DIMENSION IS GIVEN.
4. REFER TO INTERIOR ELEVATION FOR LOCATION OF UNDER-COUNTER LIGHTING.
5. STABILIZE CEILING FANS IN BOTH DIRECTIONS IMMEDIATELY ABOVE ACT GRID.



1 REFLECTED CEILING PLAN
1/8" = 1'-0"



2 REFLECTED CEILING PLAN - HIGH
1/8" = 1'-0"

CEILING LEGEND						
CODE	MATERIAL	MANUFACTURER	STYLE	COLOR/FINISH	SIZE	COMMENTS
ACT-1	ACOUSTIC CEILING TILE TYPE 1	ARMSTRONG	FISSURED - 705	REGULAR EDGE - WHITE	2'X2'	
ACT-2	ACOUSTIC CEILING TILE TYPE 2	ARMSTRONG	CLEAN ROOM VL - 888	STRAIGHT EDGE - WHITE	2'X2'	
GWB-1	PAINTED GYPSUM WALL BOARD CEILING - SUSPENSION SYSTEM			PNT-5 (U.N.O.)		
GWB-2	PAINTED GYPSUM WALL BOARD CEILING - MTL. STUD FRAMING			PNT-5 (U.N.O.)		

NOTE: GWB-2 - PROVIDE STUD BRACING & SUPPORT FROM STRUCTURAL FRAMING.

Original Issue Date: 04/04/14
Revisions:

LUCAS CENTRAL FS
165 COUNTRY CLUB ROAD LUCAS, TX 75002

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Job No.

1215

Sheet No.

A4.1

REFLECTED CEILING PLAN

ROOF PLAN NOTES

1. ALL DOWNSPOUTS WHICH TERMINATE ON A ROOF ARE TO HAVE A 20 GA. GALVANIZED METAL SPLASH GUARD BETWEEN FINISHED ROOF & DOWNSPOUT. SPLASH GUARD TO BE 12" W X 24" & SET IN A FULL BED OF MASTIC.
2. ALL GUTTERS & DOWNSPOUTS TO BE PRE-FORMED, PRE-FINISHED ALUMINUM.

50% CD
Original Issue Date: 04/04/14
Revisions:

LUCAS CENTRAL FS
165 COUNTRY CLUB ROAD LUCAS, TX 75002

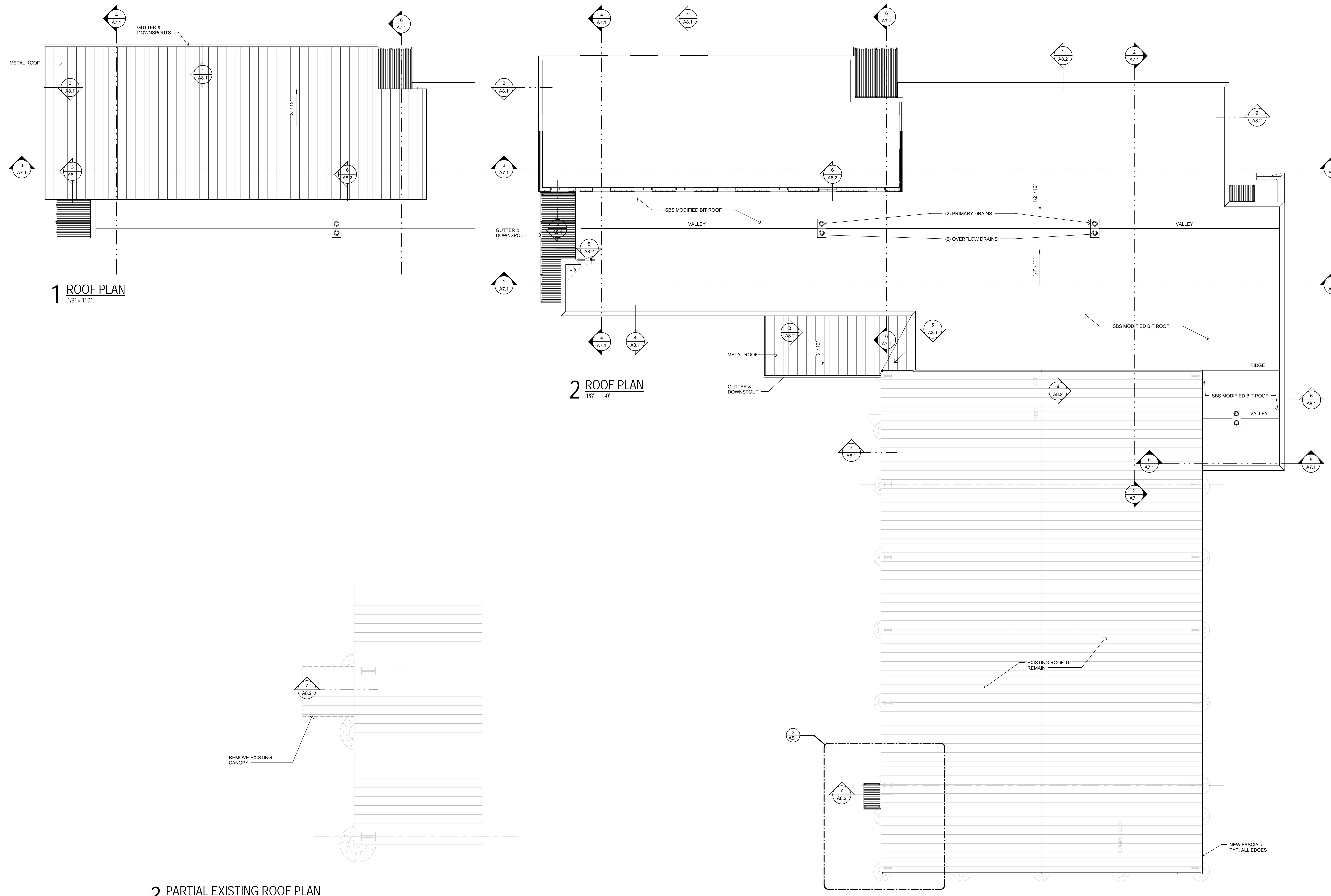
WINGTON HOOKER JEFFREY P.C.
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500 N. Central Expressway, Suite 300
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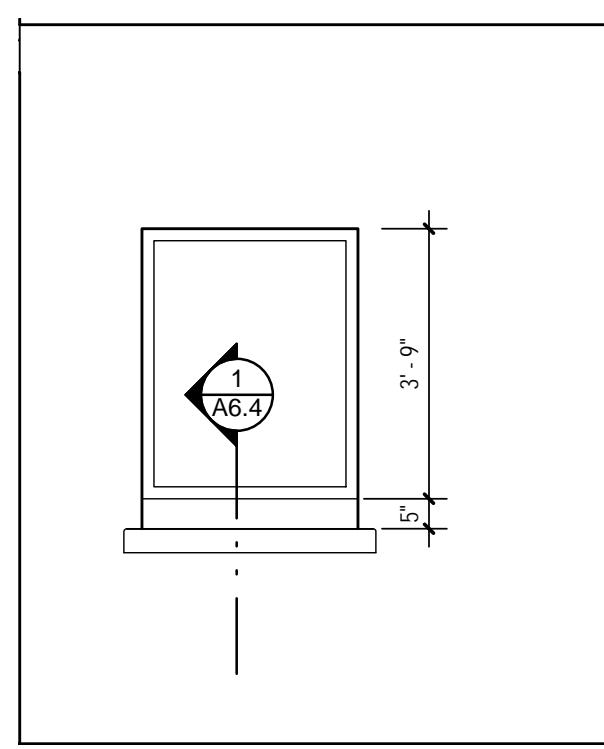
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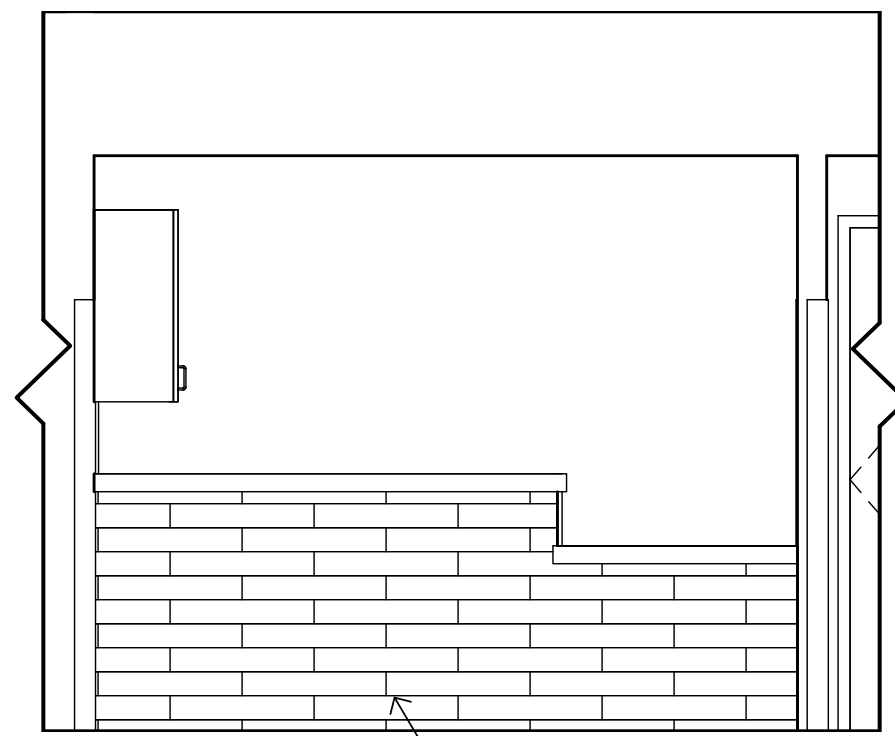
Job No.
1215

Sheet No.
A5.1
ROOF PLAN

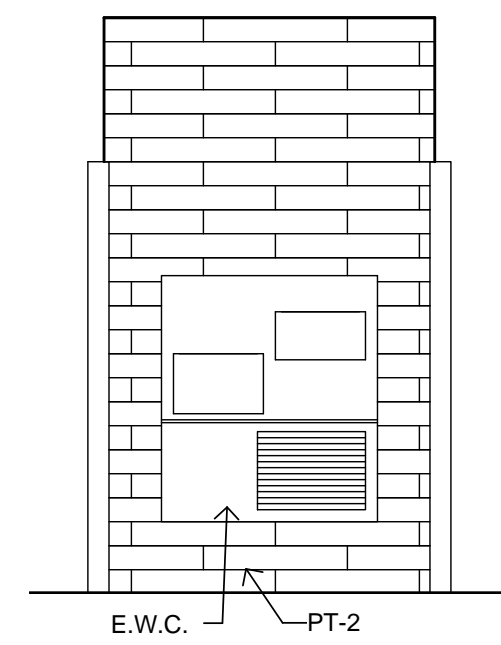




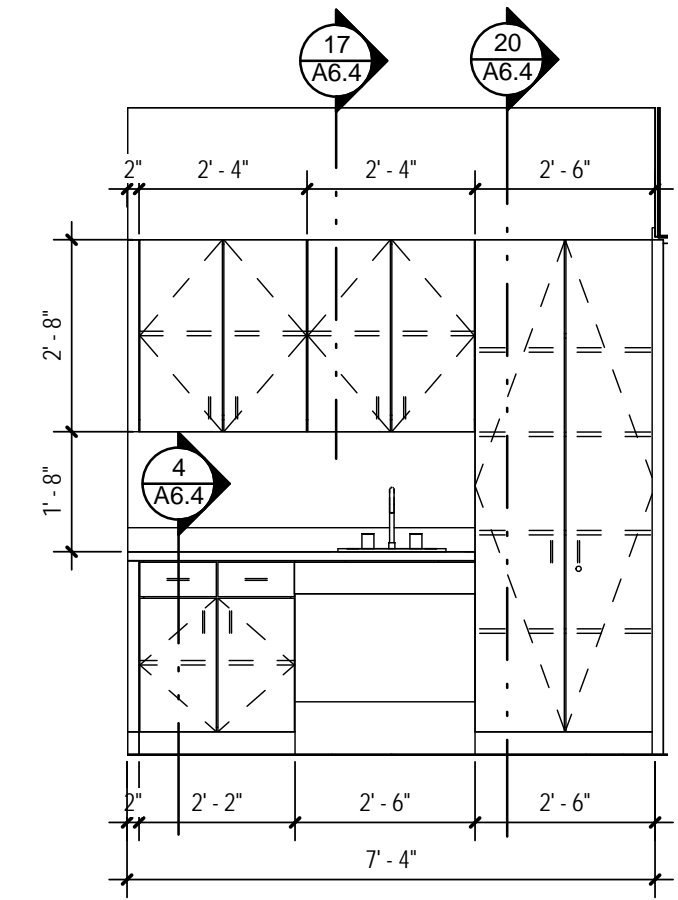
1 VESTIBULE 100
3/8" = 1'-0"



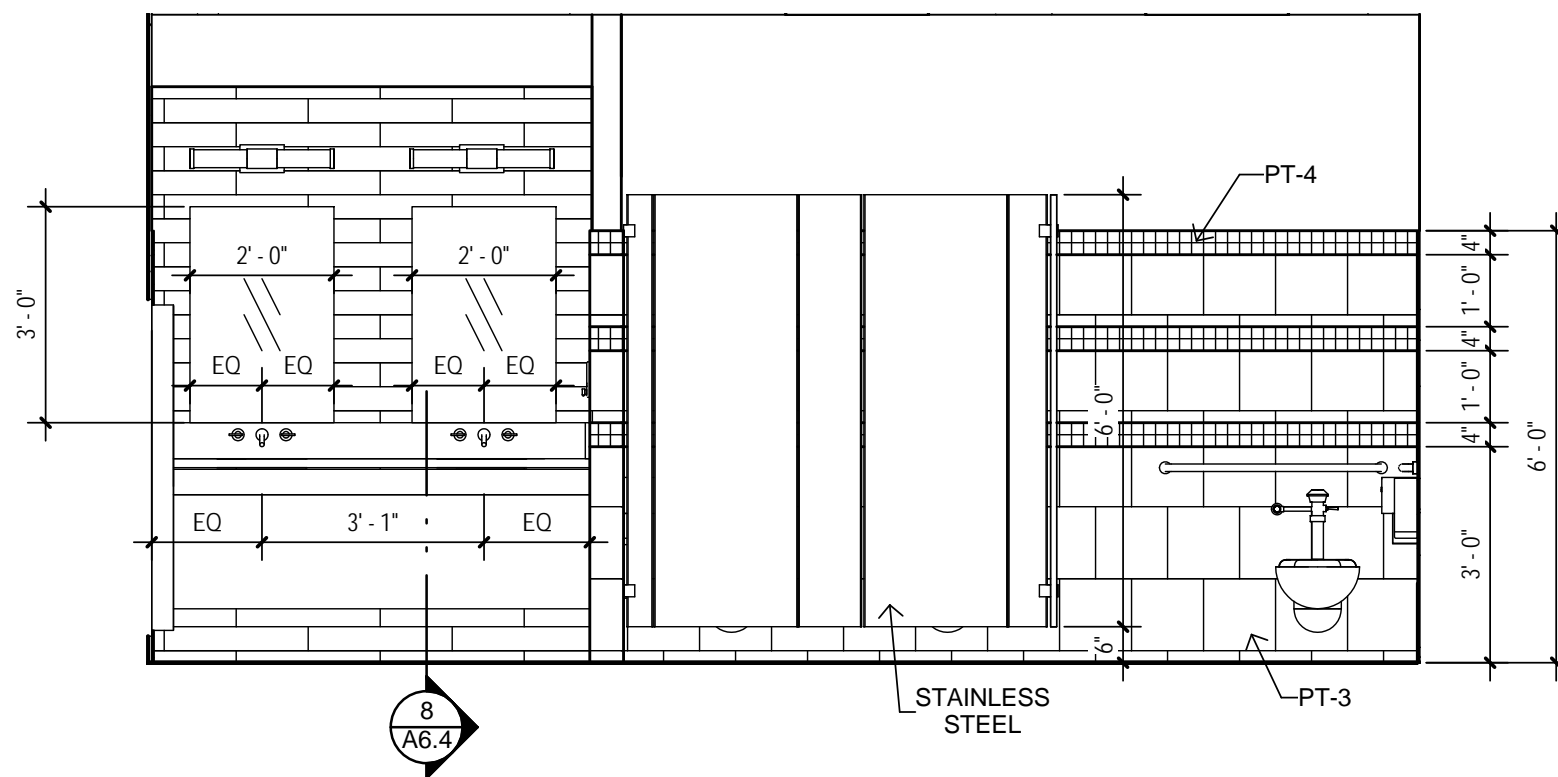
2 LOBBY 101 - ELEV. A
3/8" = 1'-0"



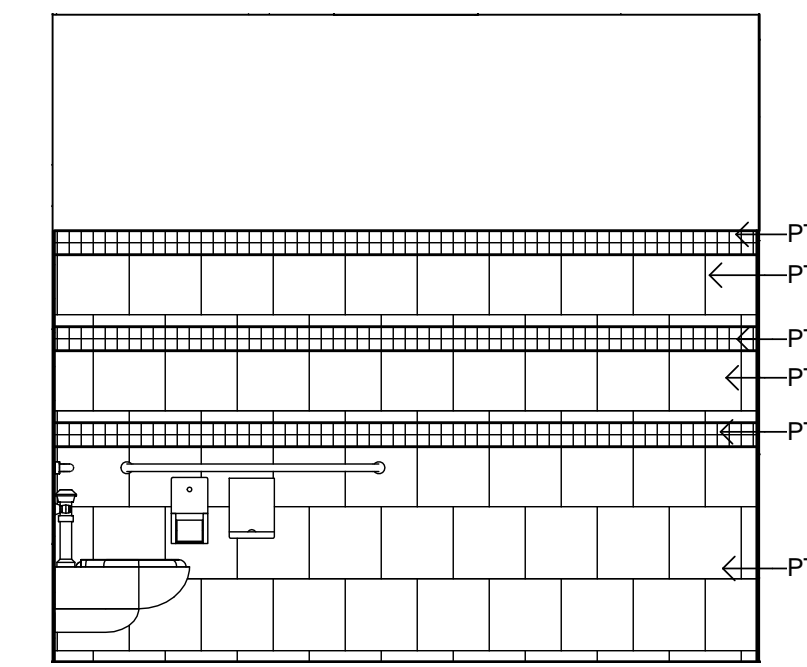
3 LOBBY 101 - ELEV. B
3/8" = 1'-0"



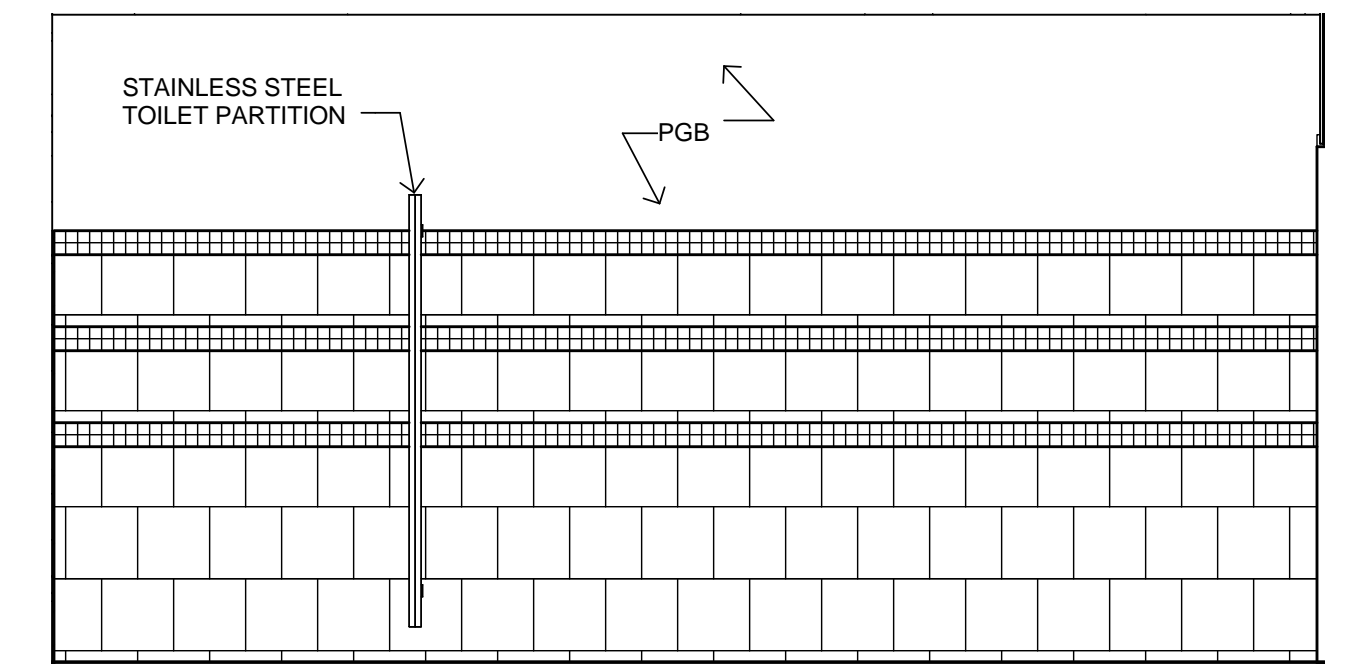
4 EXAM 102
3/8" = 1'-0"



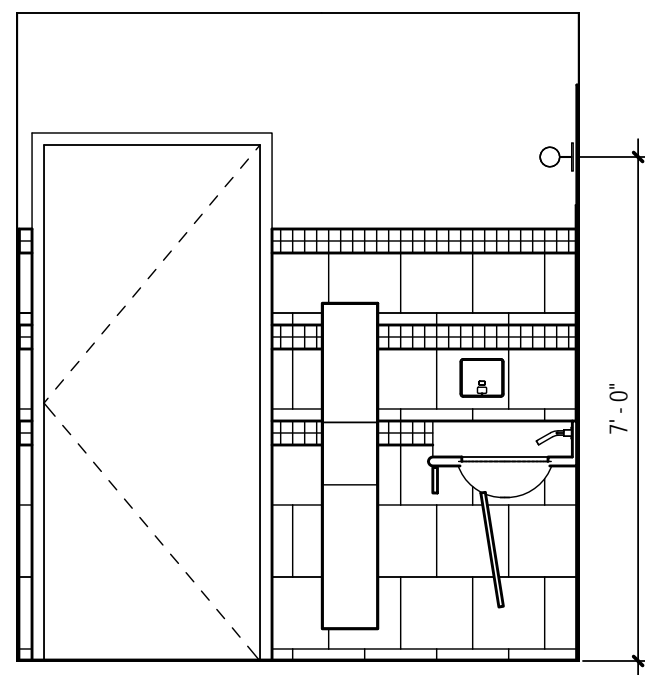
5 WOMEN'S TOILET 103 - ELEV. A
3/8" = 1'-0"



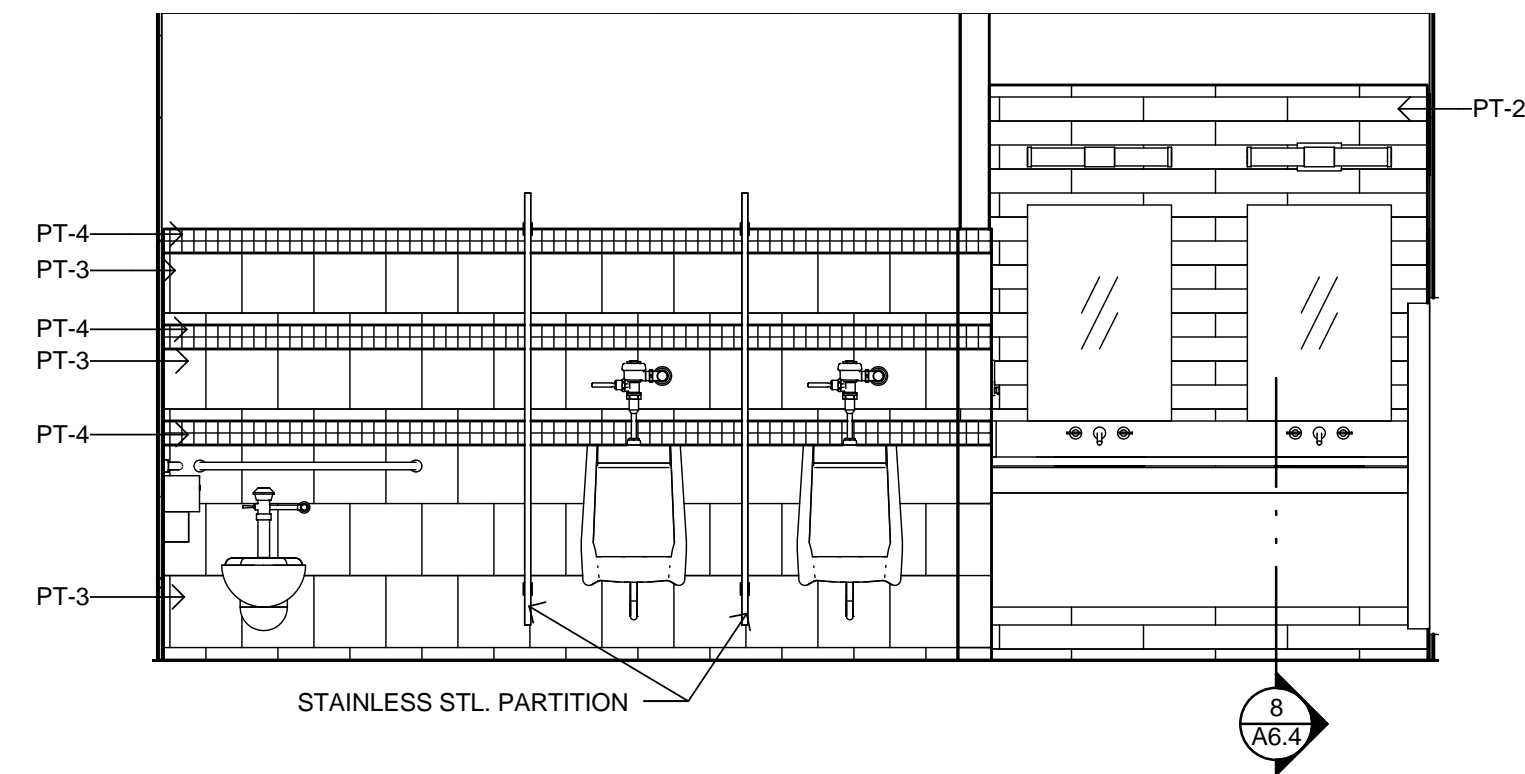
6 WOMEN'S TOILET 103 - ELEV. B
3/8" = 1'-0"



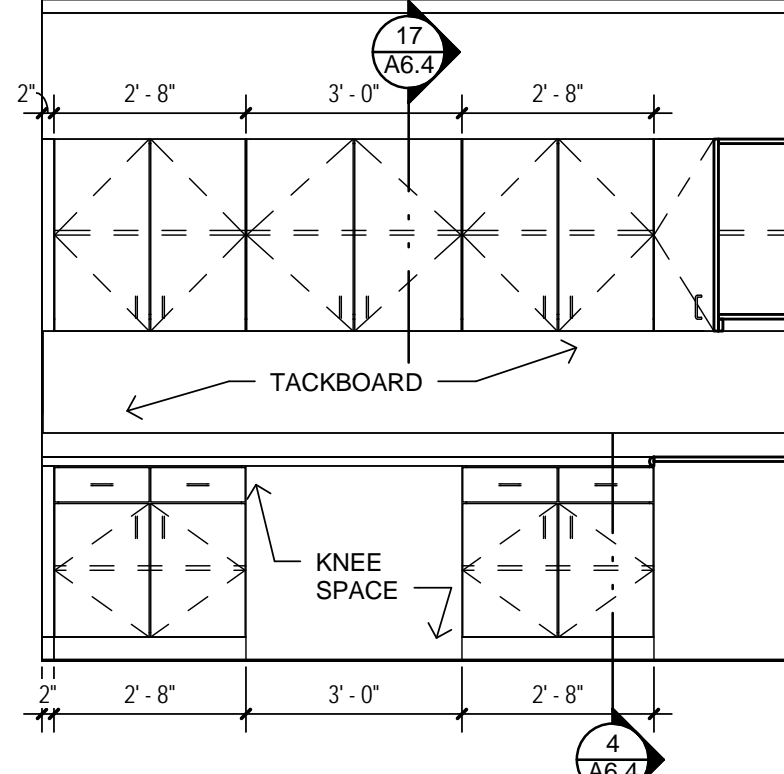
7 WOMEN'S TOILET 103 - ELEV. C
3/8" = 1'-0"



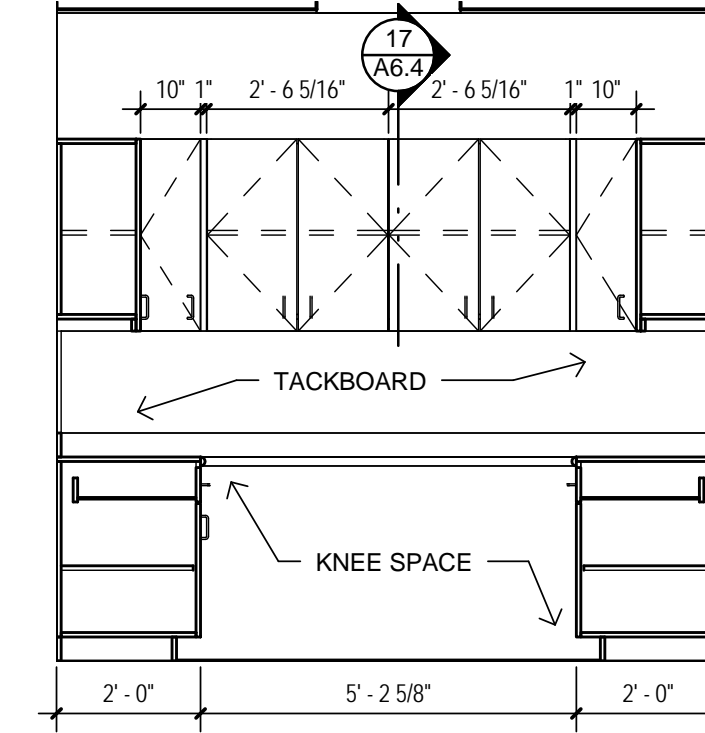
8 WOMEN'S TOILET 103 - ELEV. D
3/8" = 1'-0"



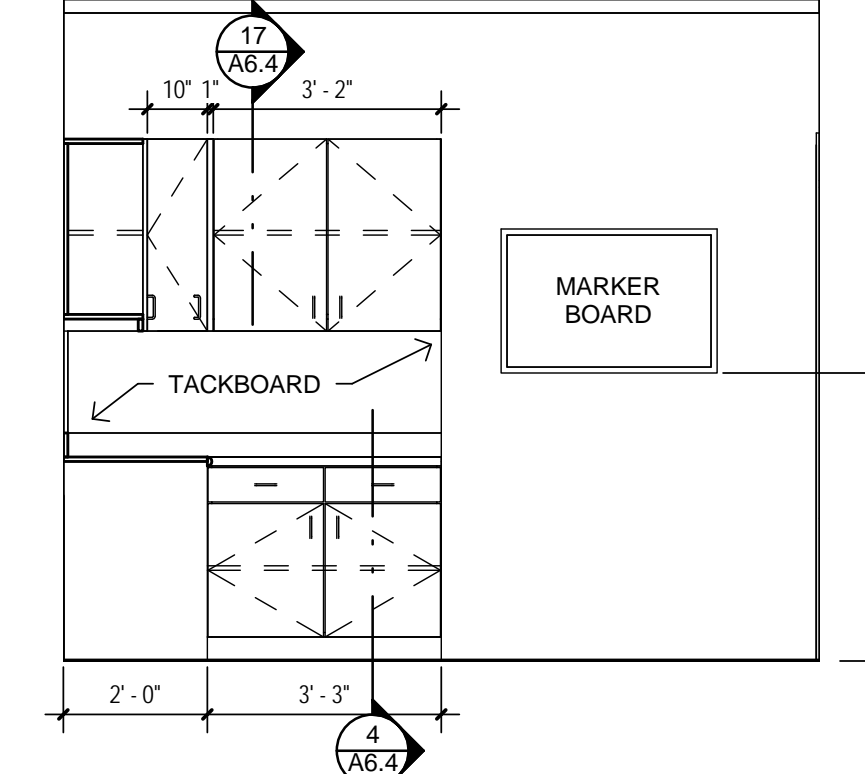
9 MEN'S TOILET 104
3/8" = 1'-0"



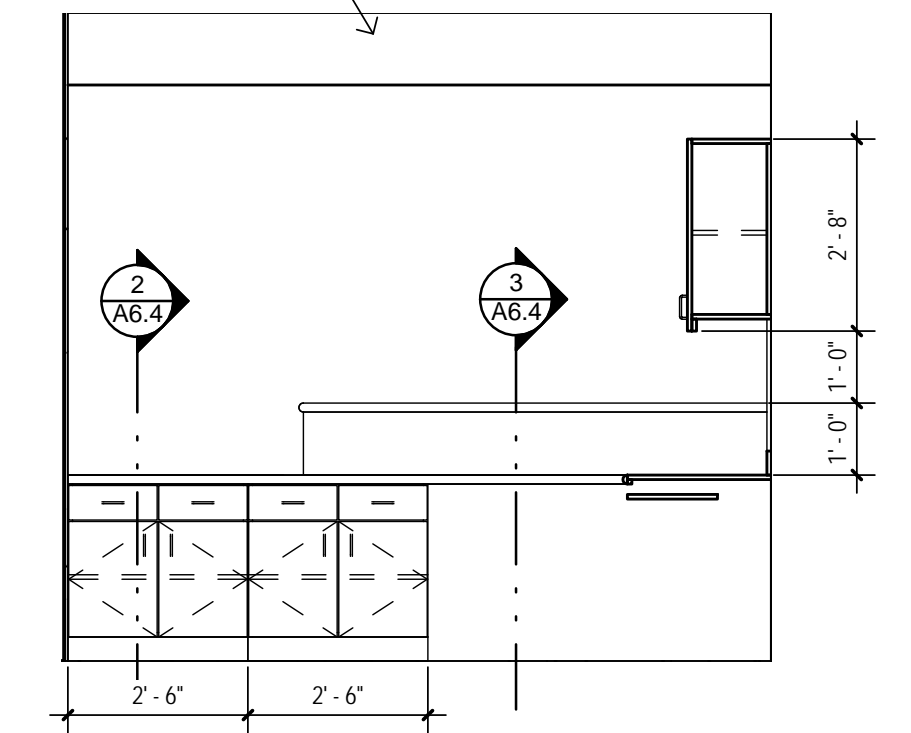
10 RADIO ROOM 106 - ELEV. A
3/8" = 1'-0"



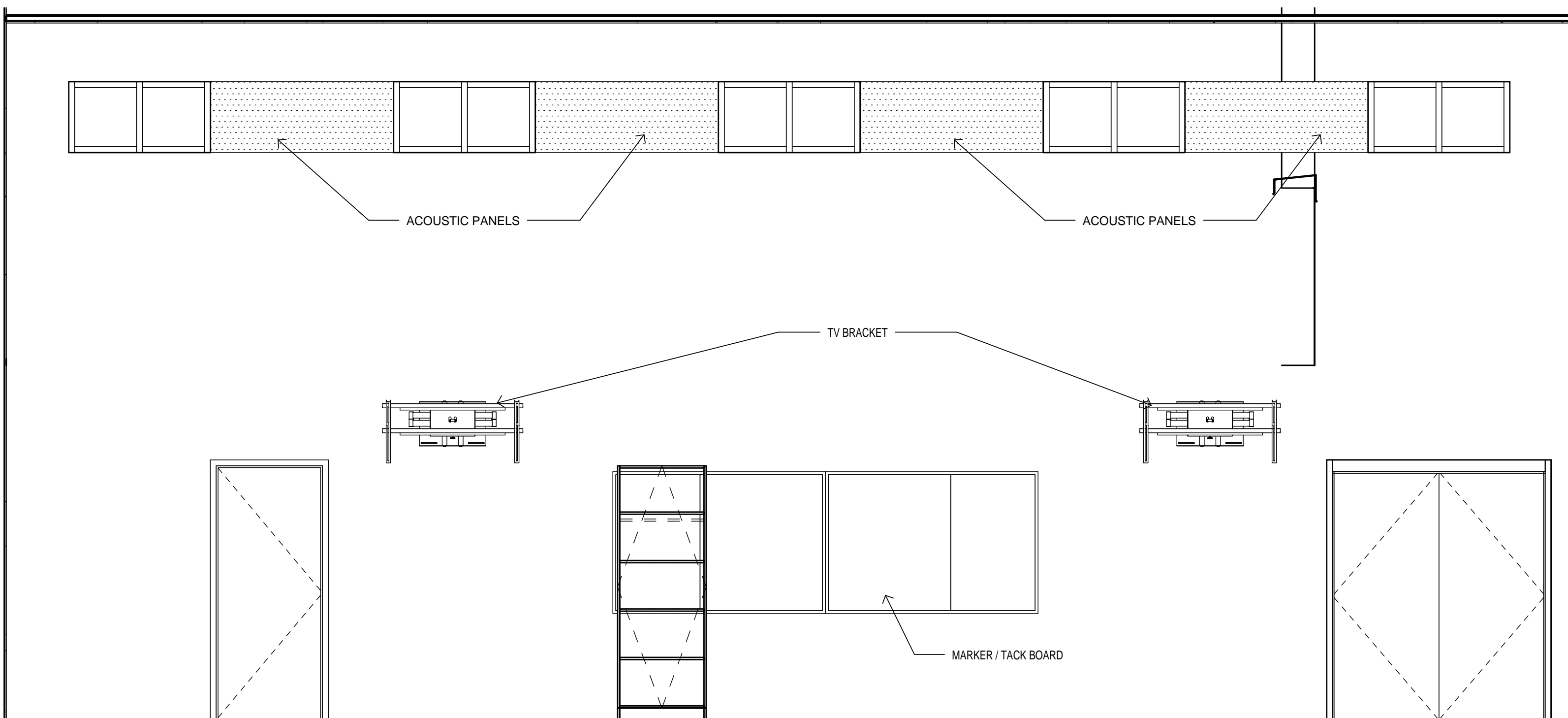
11 RADIO ROOM 106 - ELEV. B
3/8" = 1'-0"



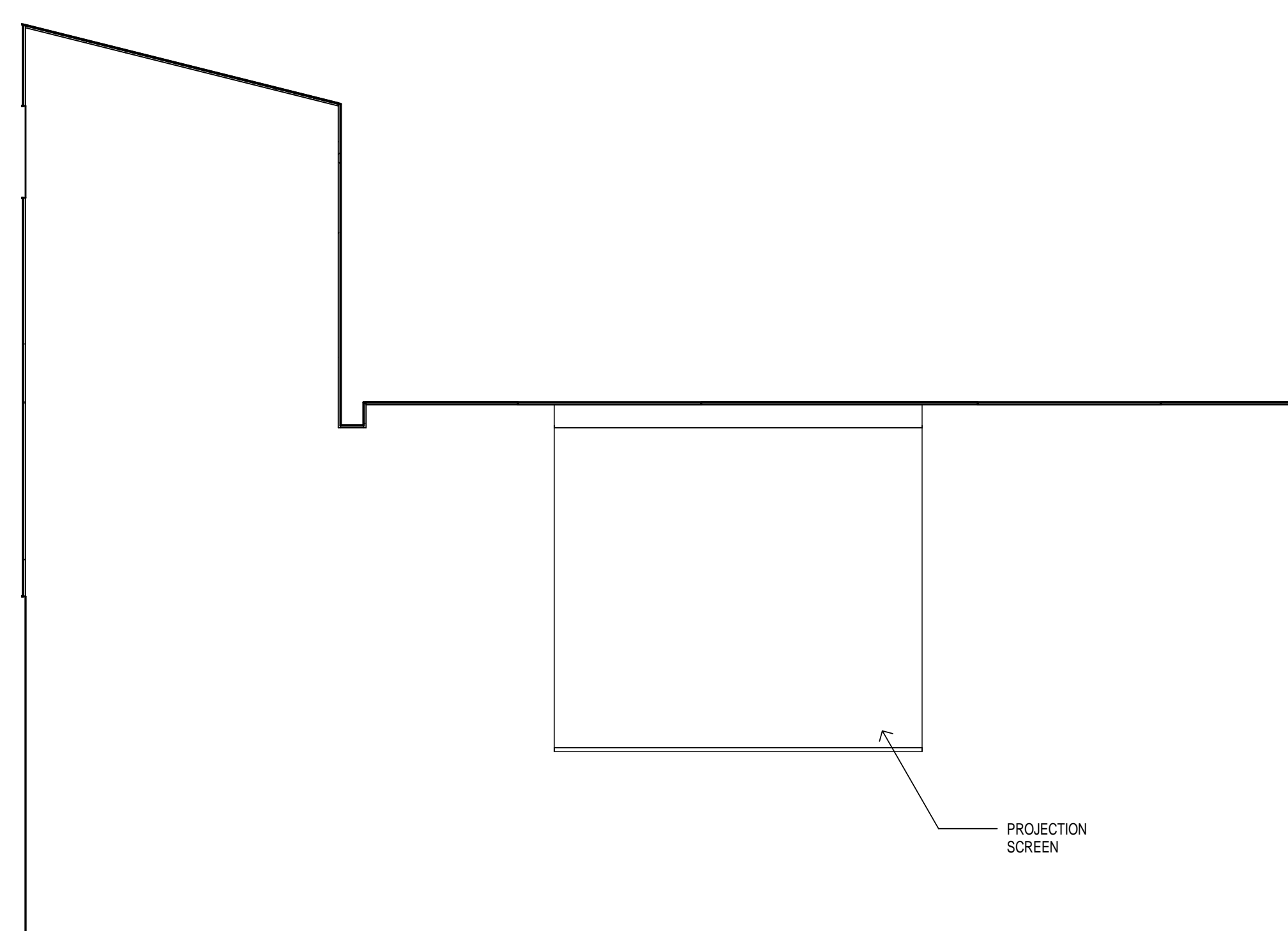
12 RADIO ROOM 106 - ELEV. C
3/8" = 1'-0"



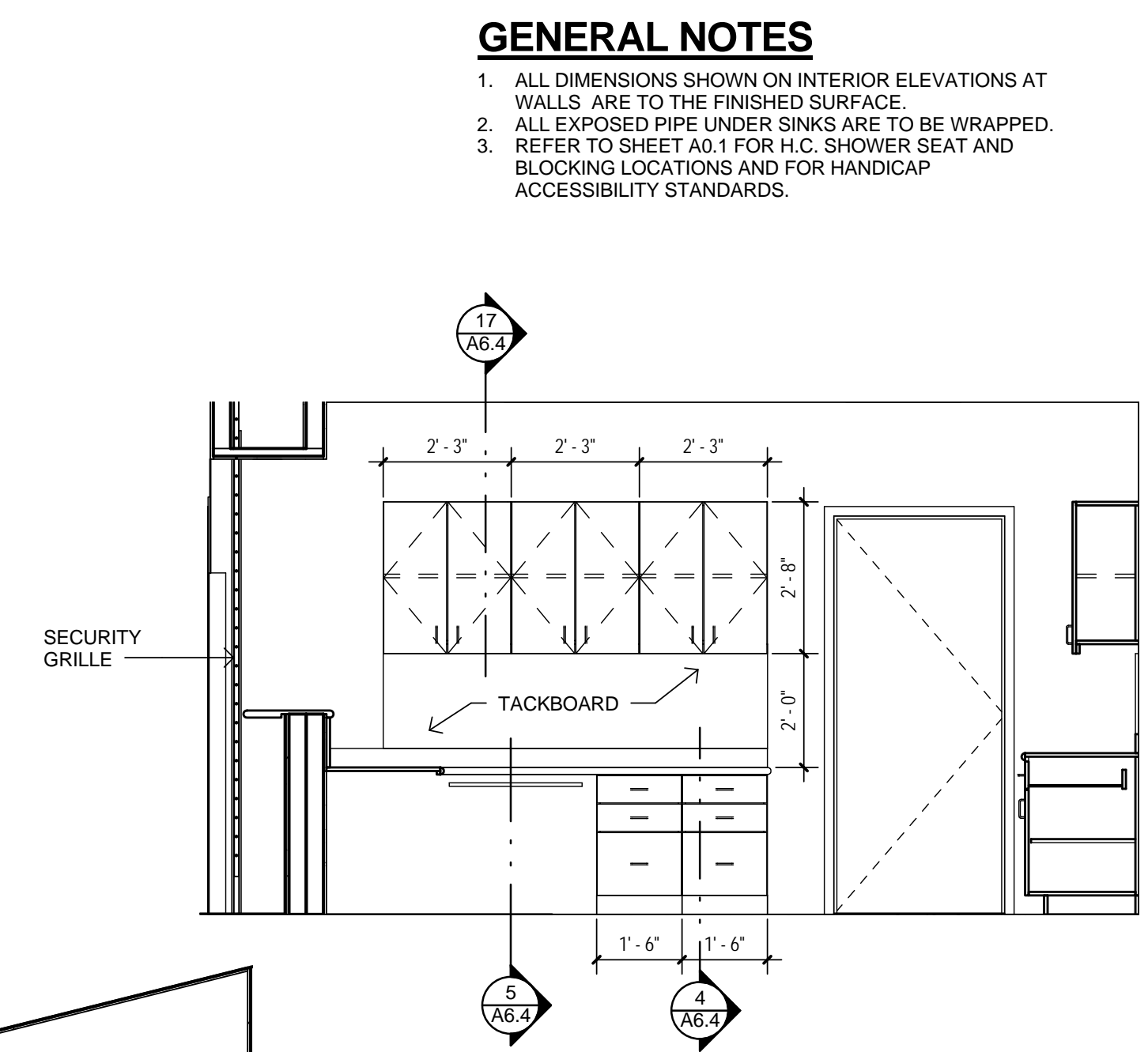
13 RECEPTION 109 - ELEV. A
3/8" = 1'-0"



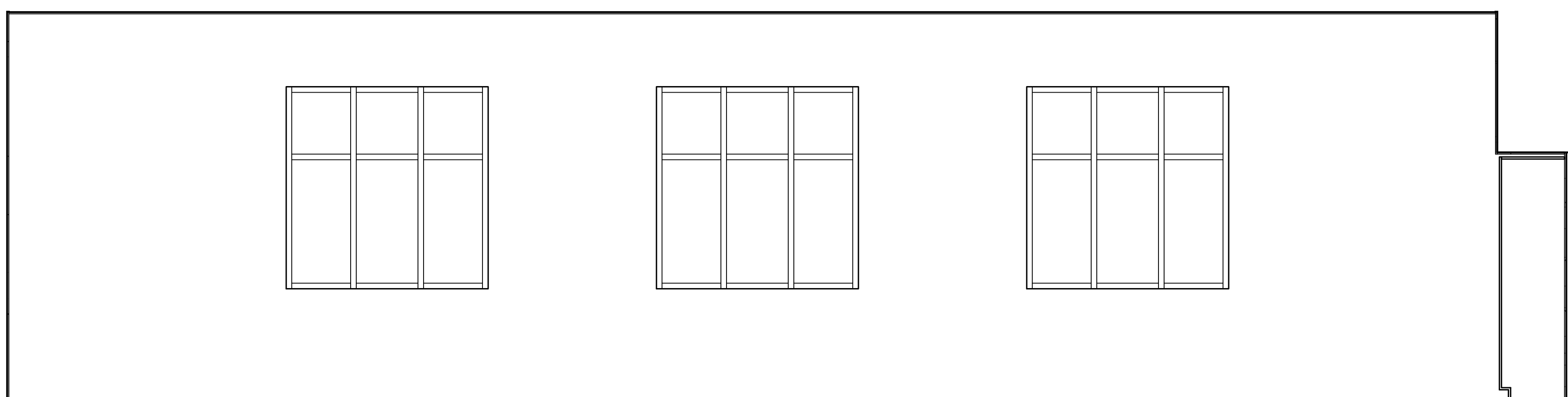
14 TRAINING 105 - ELEV. A
3/8" = 1'-0"



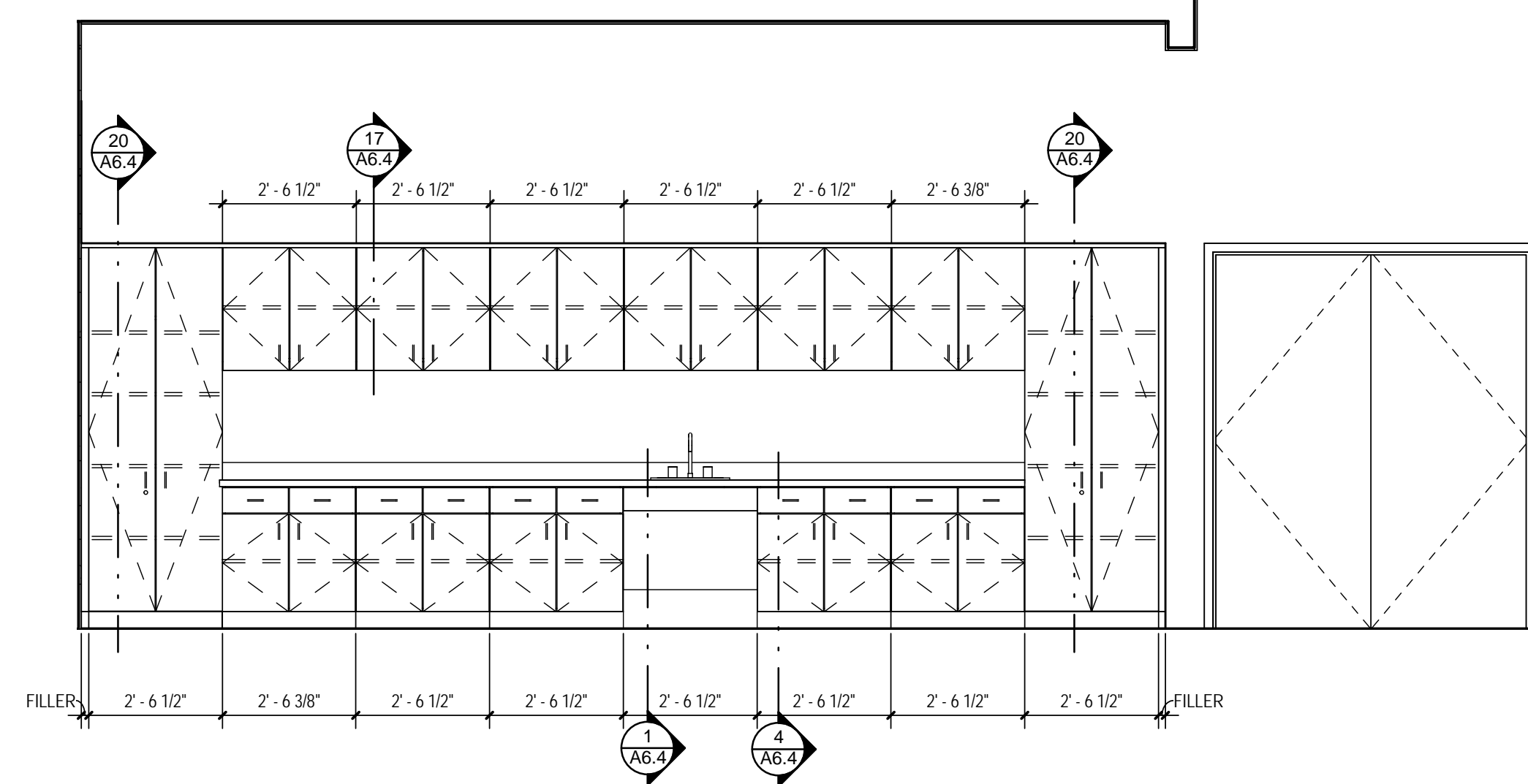
15 TRAINING 105 - ELEV. B
3/8" = 1'-0"



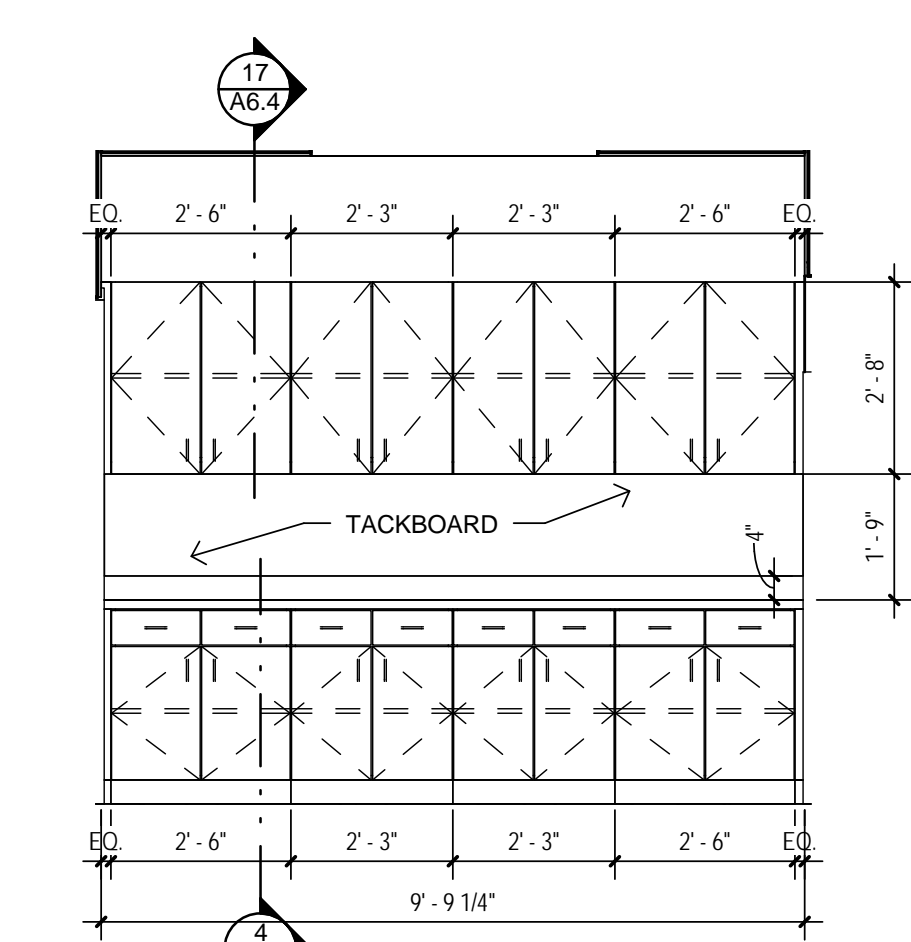
16 RECEPTION 109 - ELEV. B
3/8" = 1'-0"



17 TRAINING 105 - ELEV. C
3/8" = 1'-0"



18 TRAINING 105 - ELEV. D
3/8" = 1'-0"



19 RECEPTION 109 - ELEV. C
3/8" = 1'-0"

GENERAL NOTES

1. ALL DIMENSIONS SHOWN ON INTERIOR ELEVATIONS AT WALLS ARE TO THE FINISHED SURFACE.
2. ALL EXPOSED PIPE UNDER SINKS ARE TO BE WRAPPED.
3. REFER TO SHEET A0.1 FOR H.C. SHOWER SEAT AND BLOCKING LOCATIONS AND FOR HANDICAP ACCESSIBILITY STANDARDS.

PLAN NOTES - DENOTED BY "O"

1. THIS ROOM TO RECEIVE WATER RESISTANT GYP. BD. & CEMENT BD. ON WALLS AS SPECIFIED.
2. PROVIDE STAINLESS STEEL SPLASH PANELS TO 54" A.F.F. AT MOP SINK. EXTEND 12" BEYOND EDGE OF MOP SINK. PROVIDE AS ONE PIECE. BENT TO FIT CORNER. SPLASH PANELS SHOULD EXTEND OUT AND OVER THE EDGE OF THE MOP SINK SO THAT WATER WILL DRAIN INTO SINK. PROVIDE STAINLESS STEEL TRIM AT TOP & SIDE EDGES. NO EXPOSED FASTENERS.
3. CONTRACTOR TO INSTALL 2X12 WOOD BLOCKING IN WALLS IN TOILETS TO ALLOW FUTURE INSTALLATION OF TOILET GRAB BARS, SHOWER GRAB BARS & SHOWER SEATS. COORDINATE EXACT LOCATION OF THIS BLOCKING W/ ARCHITECT PRIOR TO INSTALLATION. RECORD LOCATION OF BLOCKING & SUBMIT TO OWNER WITH CLOSE-OUT DOCUMENTS. DEMO EXISTING DOOR & FRAME & INSTALL NEW DOOR & FRAME AS SCHEDULED.

Original Issue Date: 04/04/14
Revisions:

LUCAS CENTRAL FS
165 COUNTRY CLUB ROAD LUCAS, TX 75002

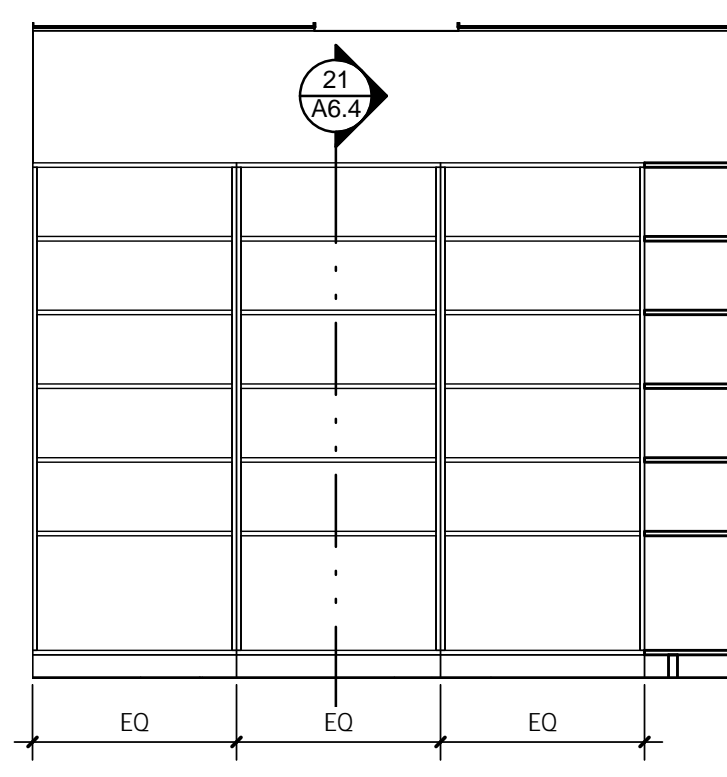
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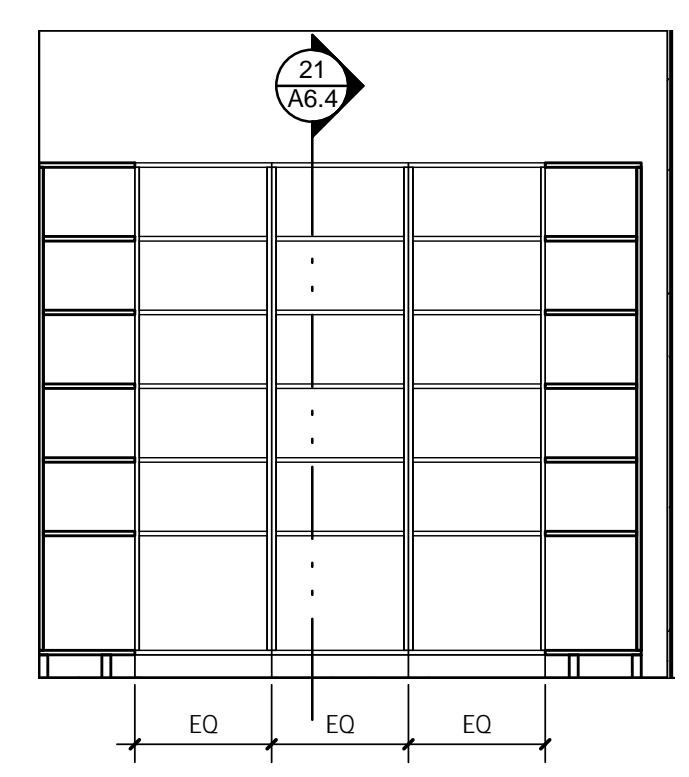
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1215

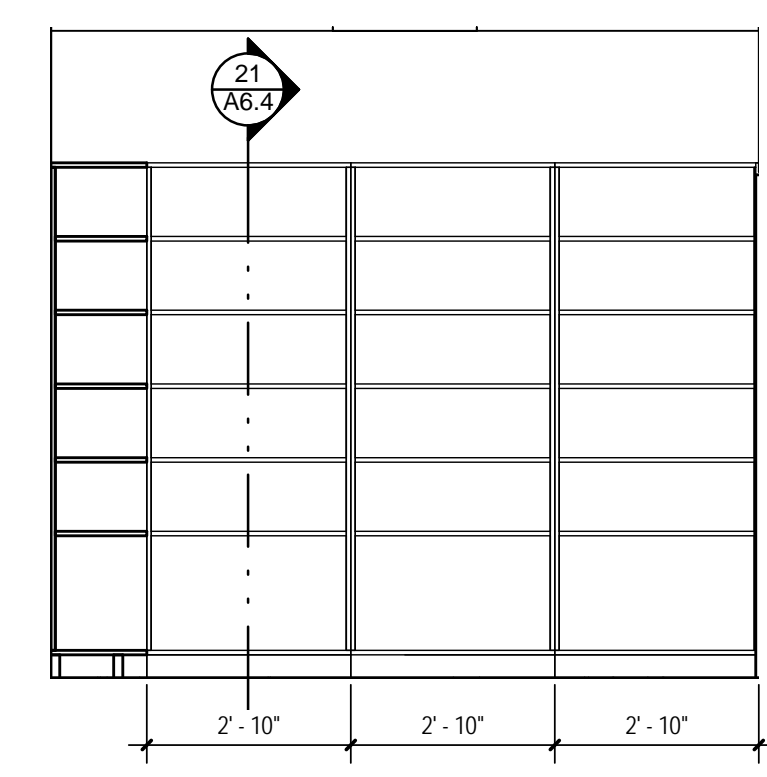
Sheet No.
A6.2
INTERIOR ELEVATIONS



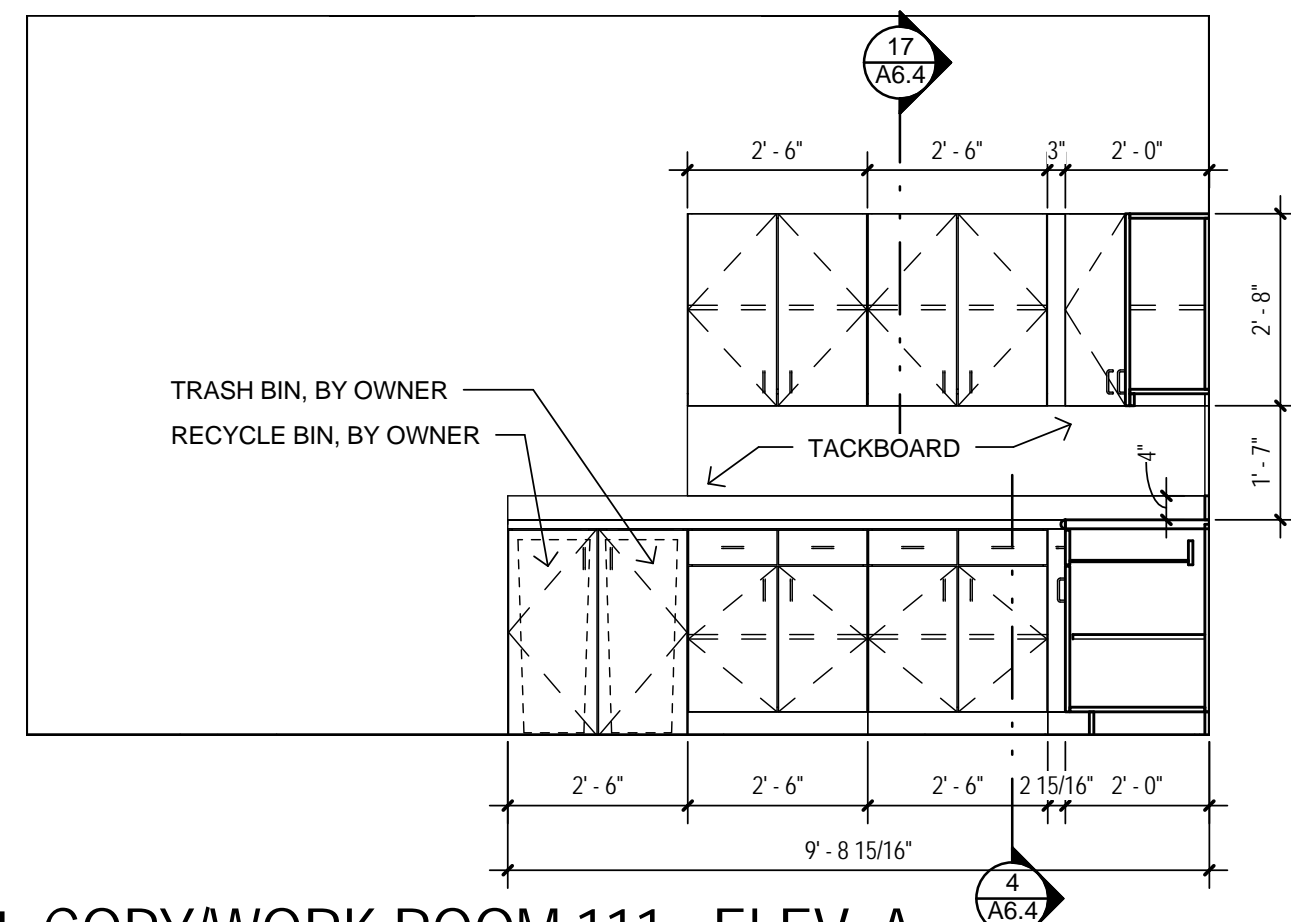
1 STORAGE 110 - ELEV. A
3/8" = 1'-0"



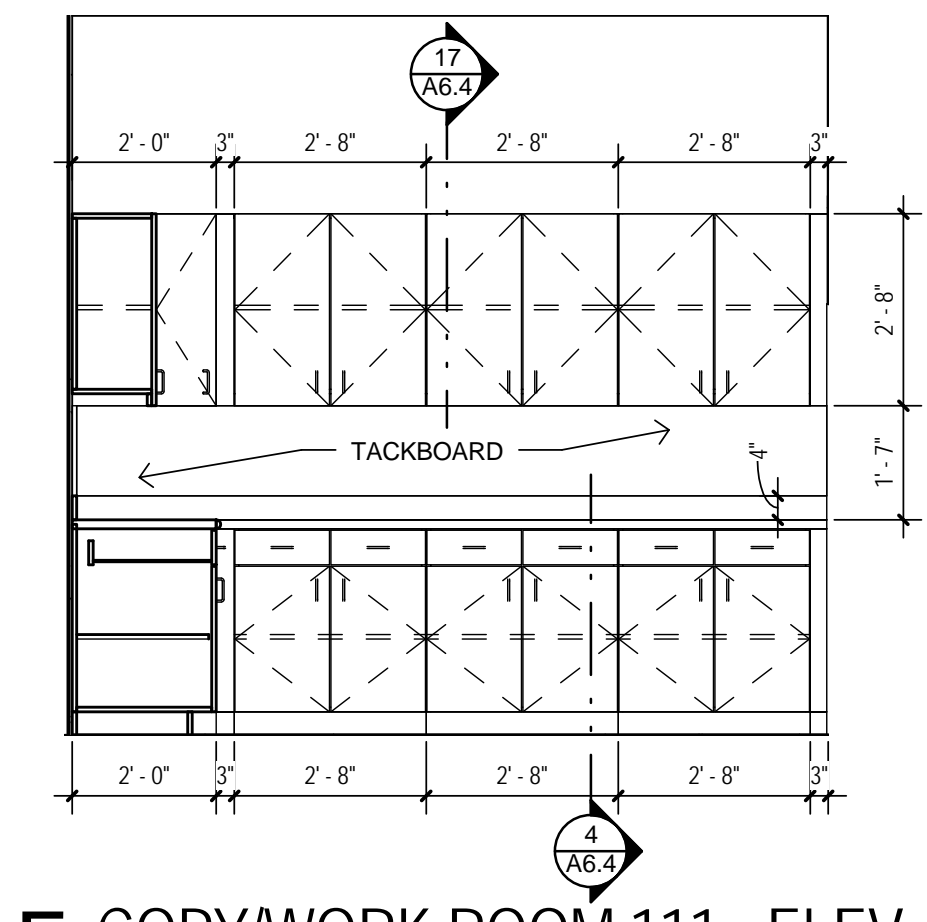
2 STORAGE 110 - ELEV. B
3/8" = 1'-0"



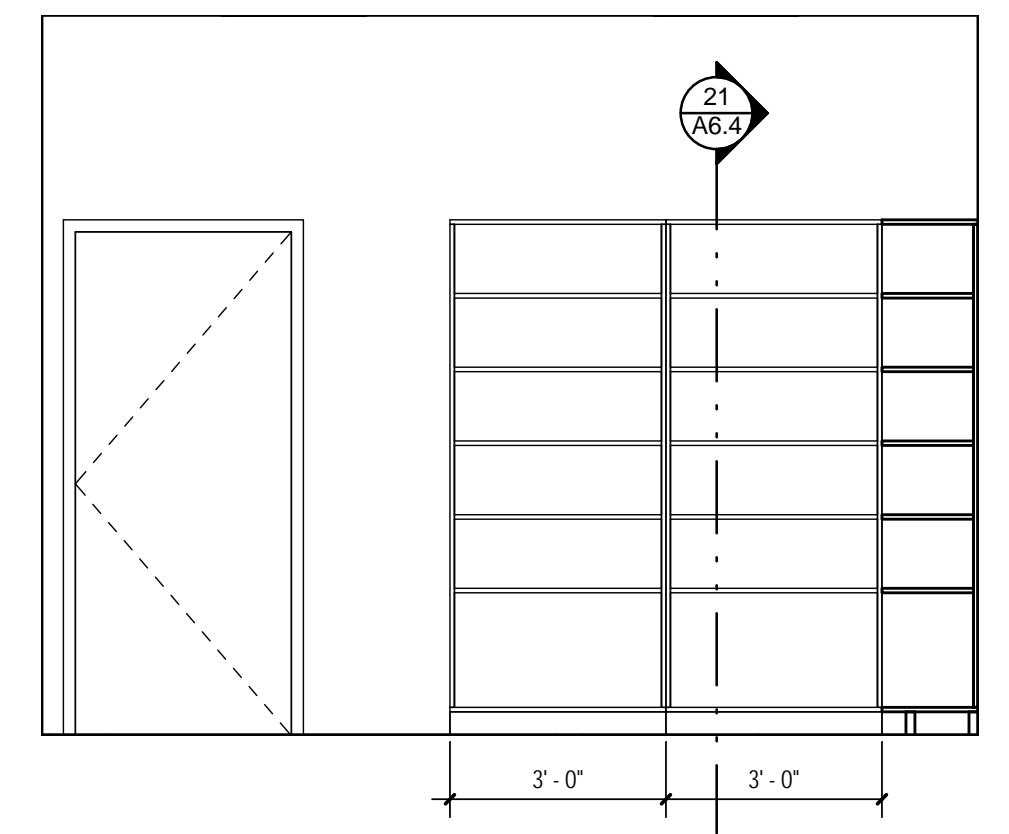
3 STORAGE 110 - ELEV. C
3/8" = 1'-0"



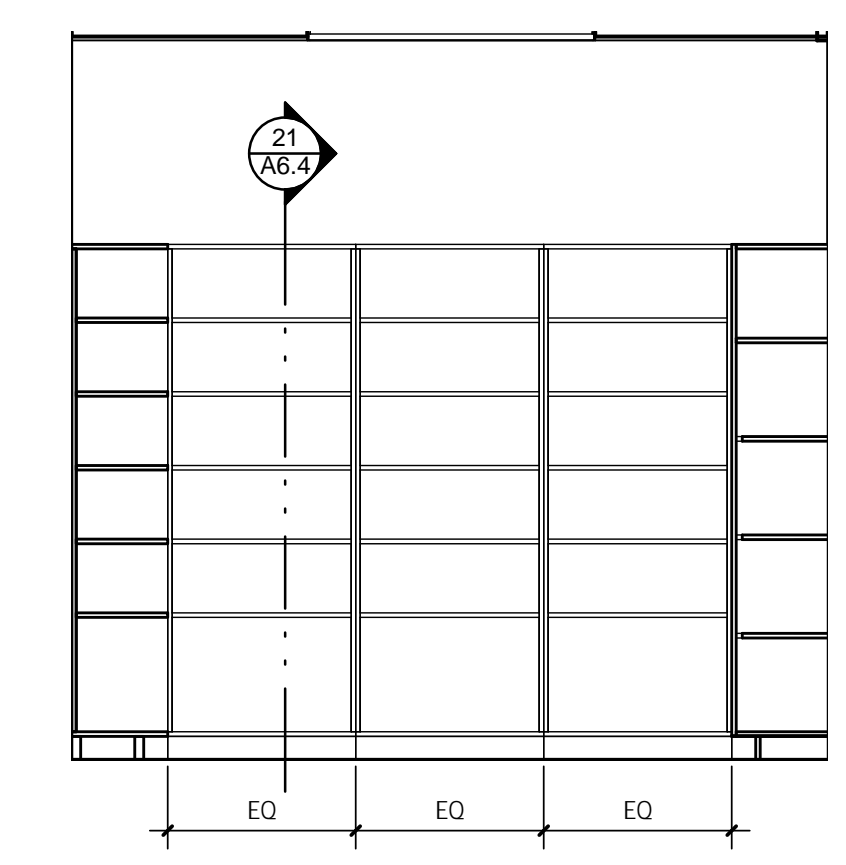
4 COPY/WORK ROOM 111 - ELEV. A
3/8" = 1'-0"



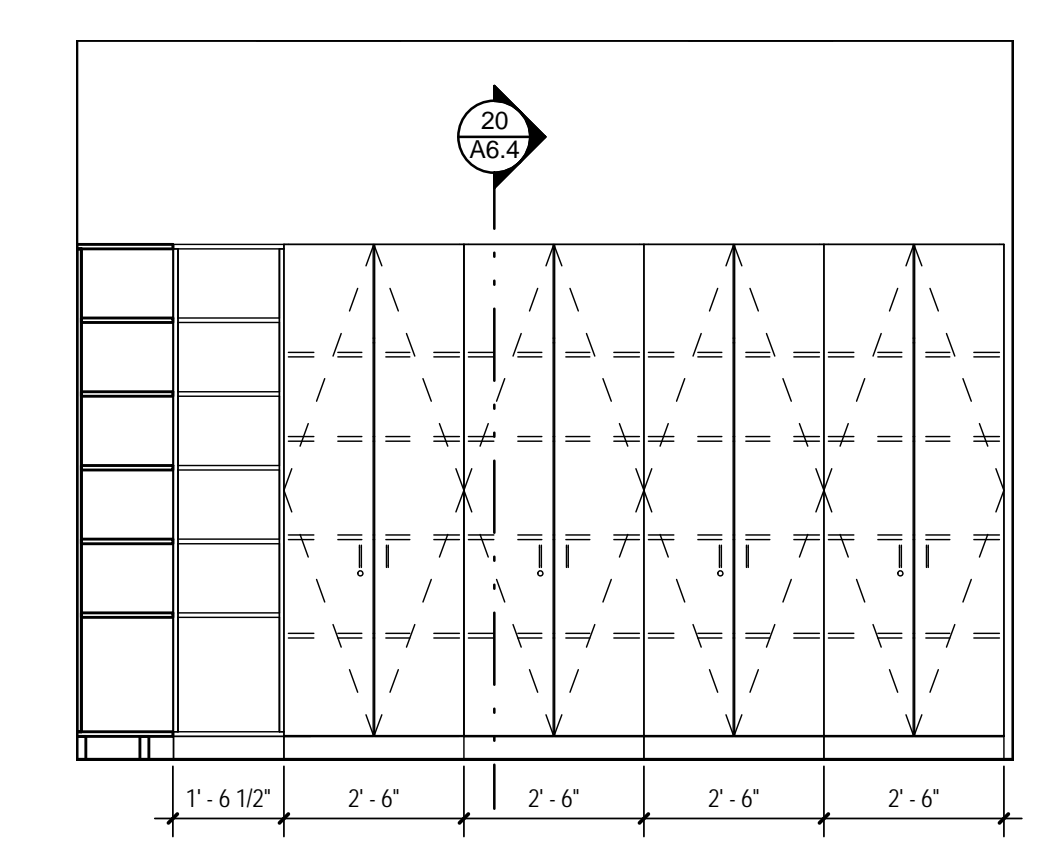
5 COPY/WORK ROOM 111 - ELEV. B
3/8" = 1'-0"



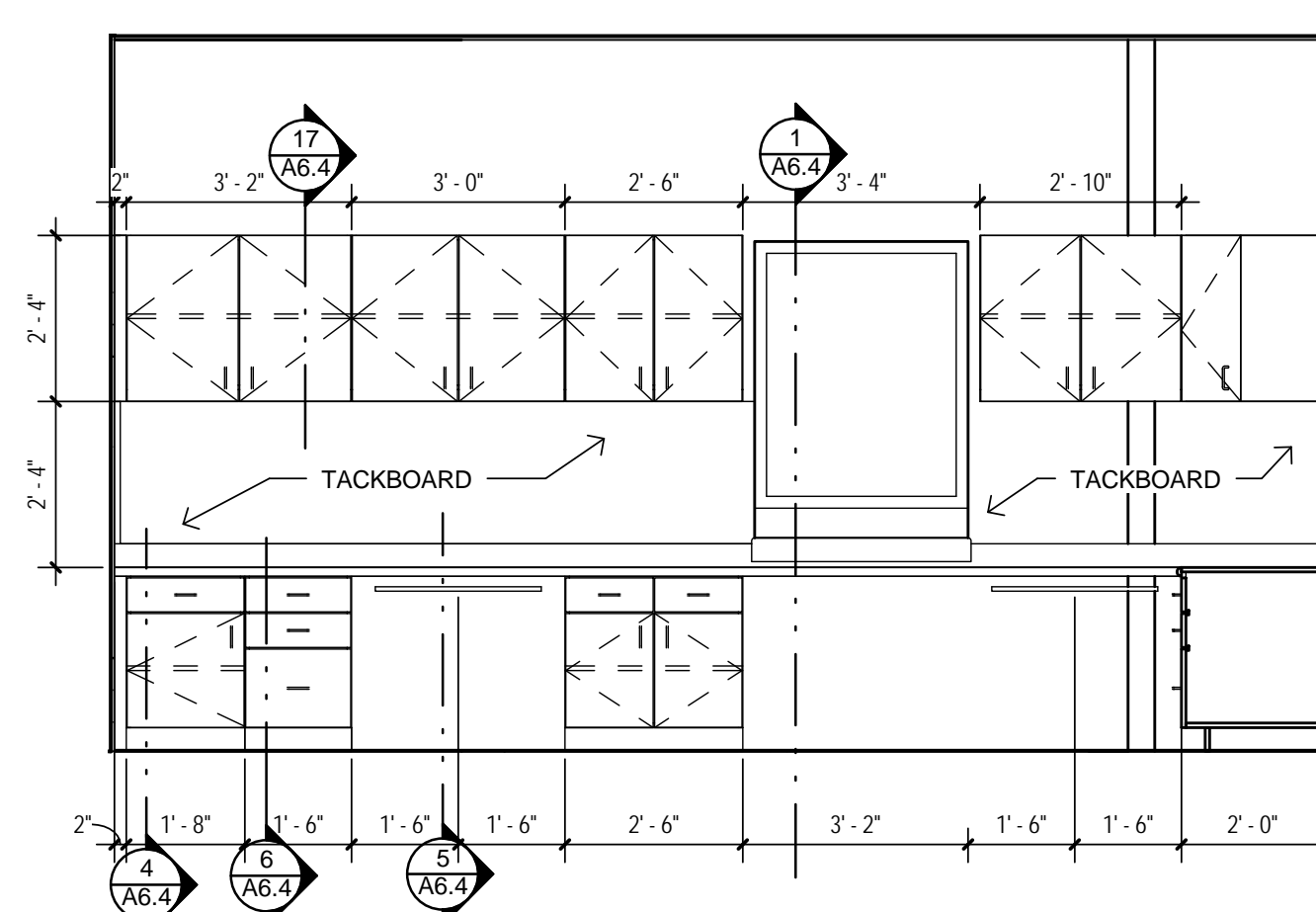
6 CERT STORAGE 116 - ELEV. A
3/8" = 1'-0"



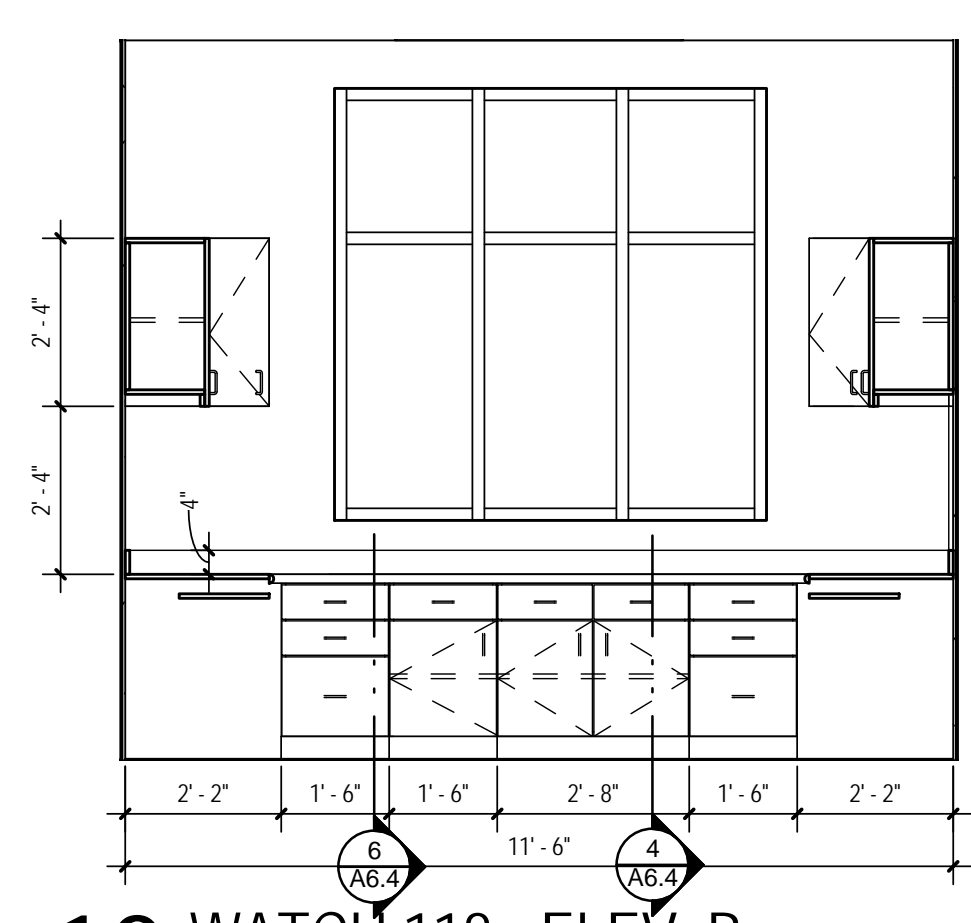
7 CERT STORAGE 116 - ELEV. C
3/8" = 1'-0"



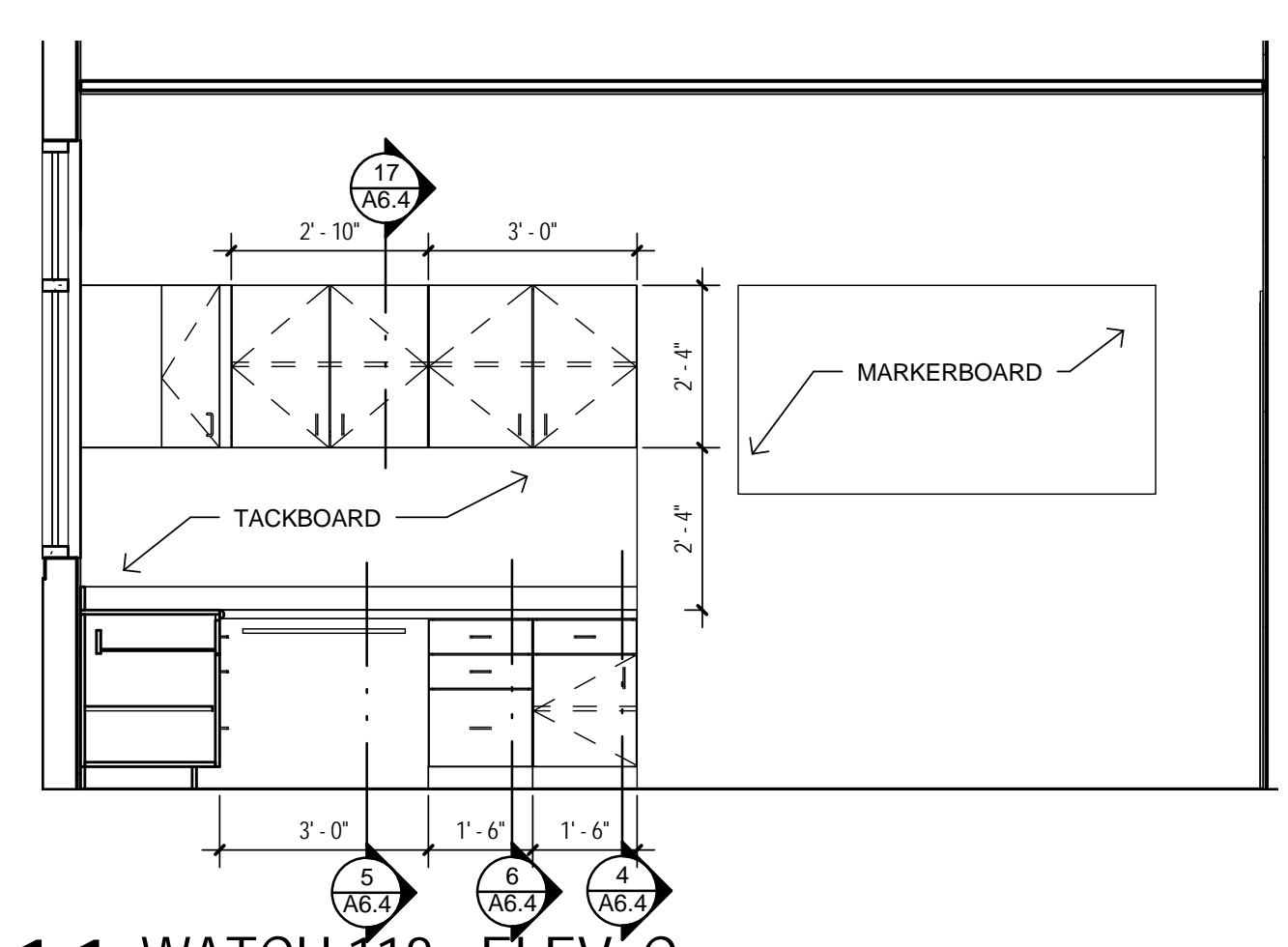
8 CERT STORAGE 116 - ELEV. B
3/8" = 1'-0"



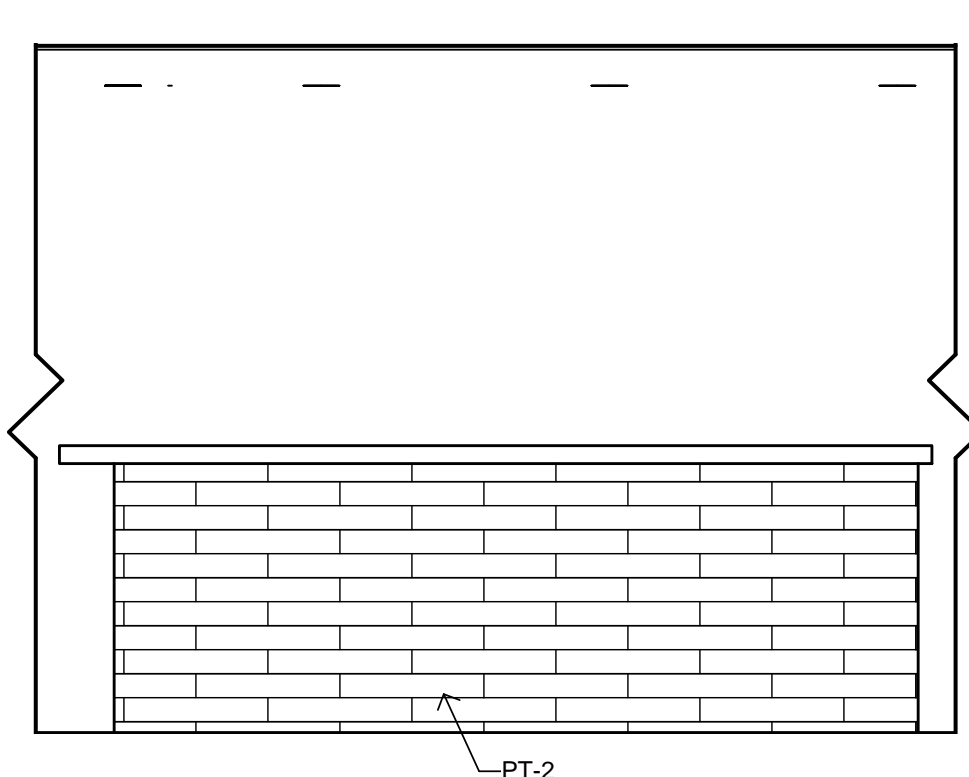
9 WATCH 118 - ELEV. A
3/8" = 1'-0"



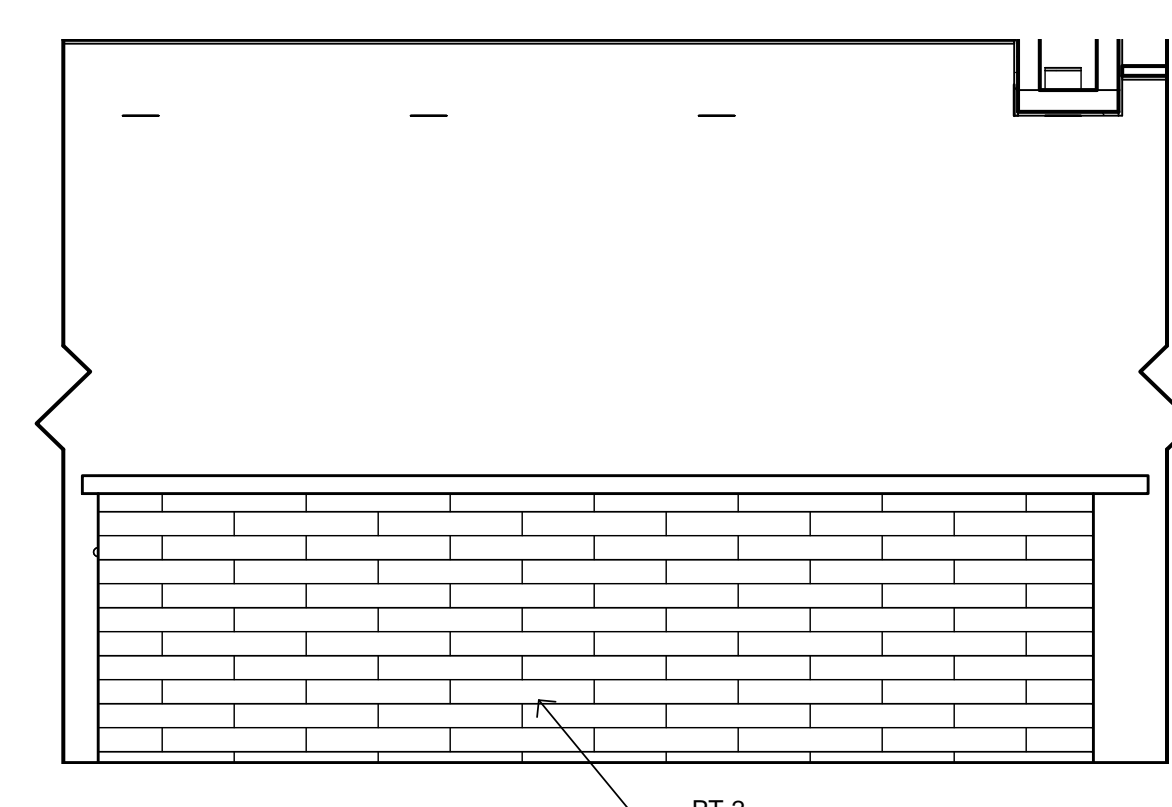
10 WATCH 118 - ELEV. B
3/8" = 1'-0"



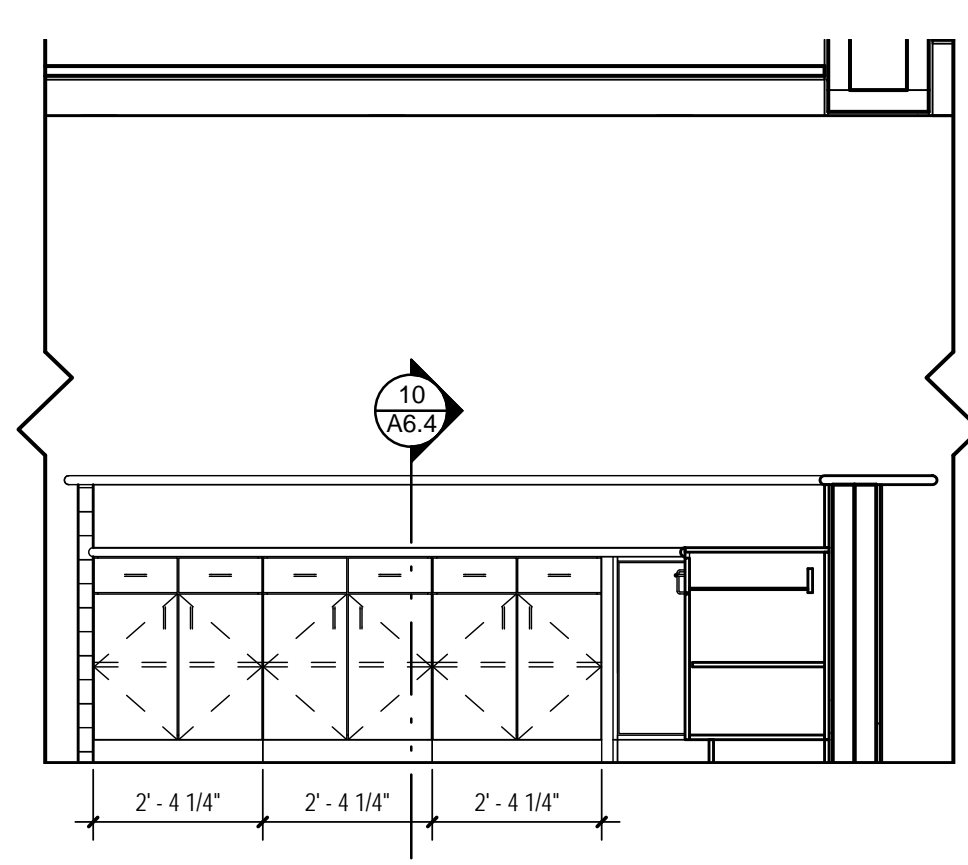
11 WATCH 118 - ELEV. C
3/8" = 1'-0"



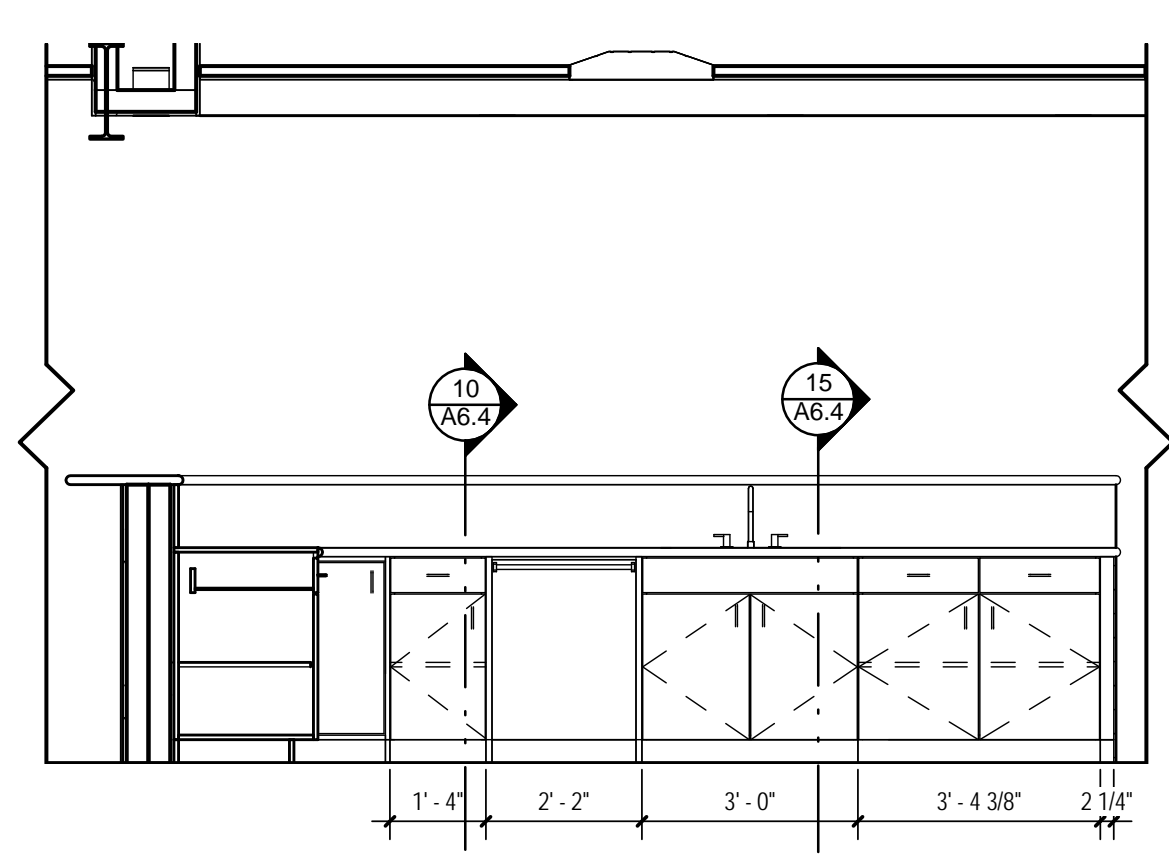
12 DINING 121 - ELEV. A
3/8" = 1'-0"



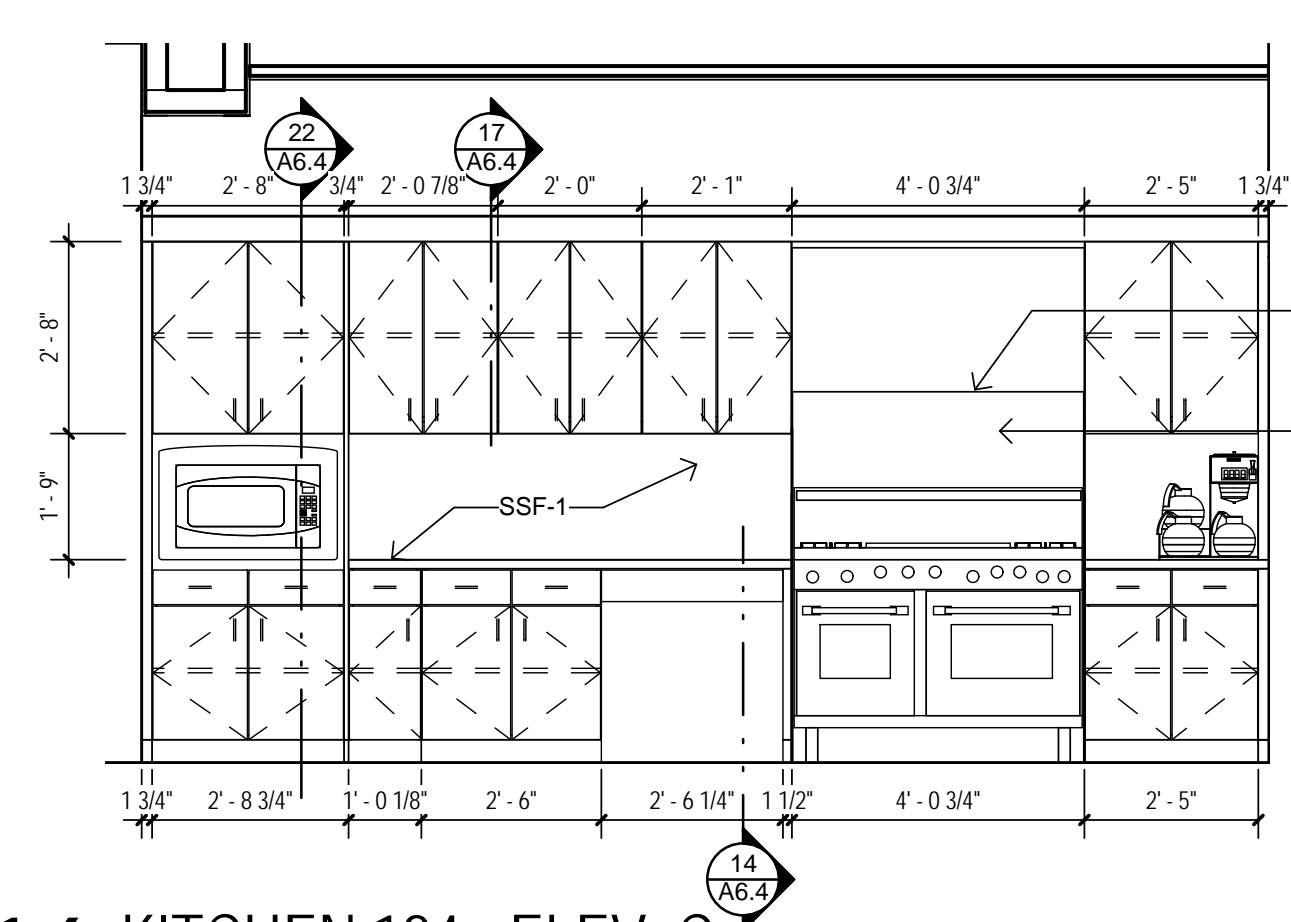
13 DINING 121 - ELEV. B
3/8" = 1'-0"



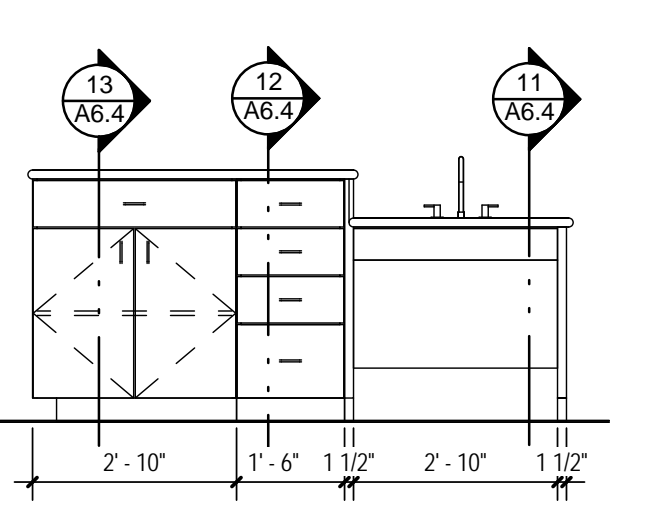
14 KITCHEN 124 - ELEV. A
3/8" = 1'-0"



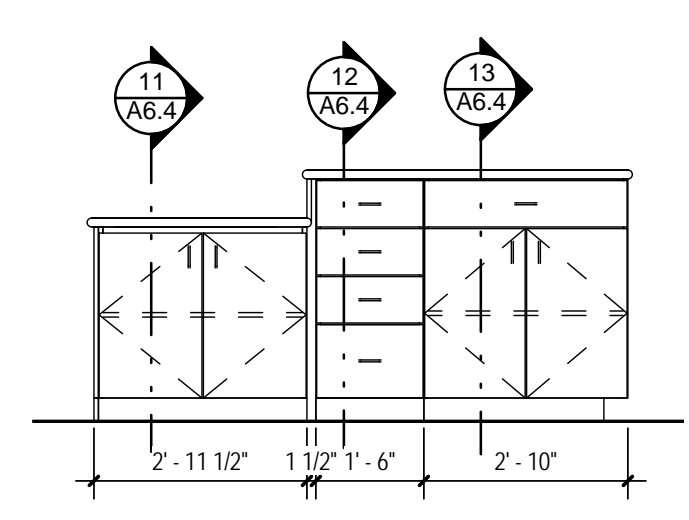
15 KITCHEN 124 - ELEV. B
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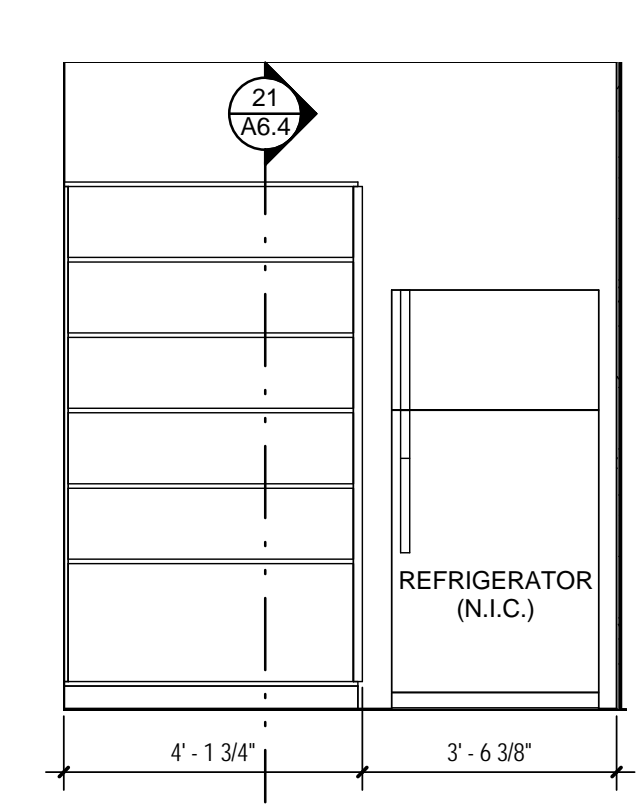
16 KITCHEN 124 - ELEV. C
3/8" = 1'-0"



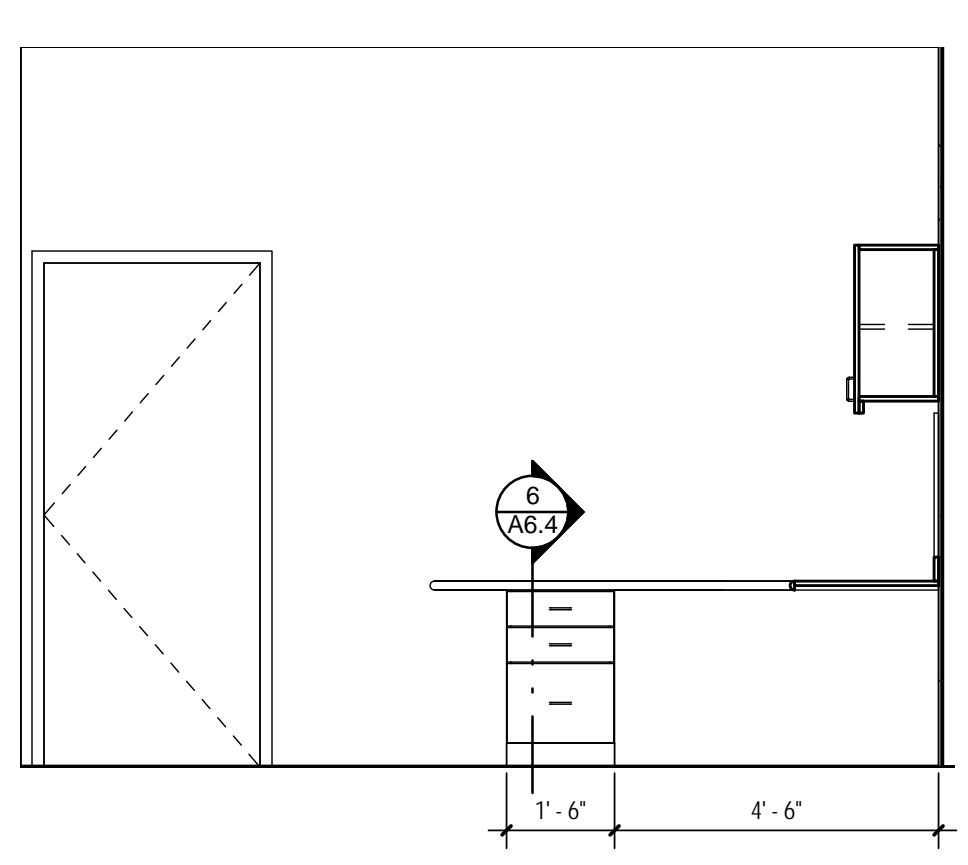
17 KITCHEN 124 - ELEV. D
3/8" = 1'-0"



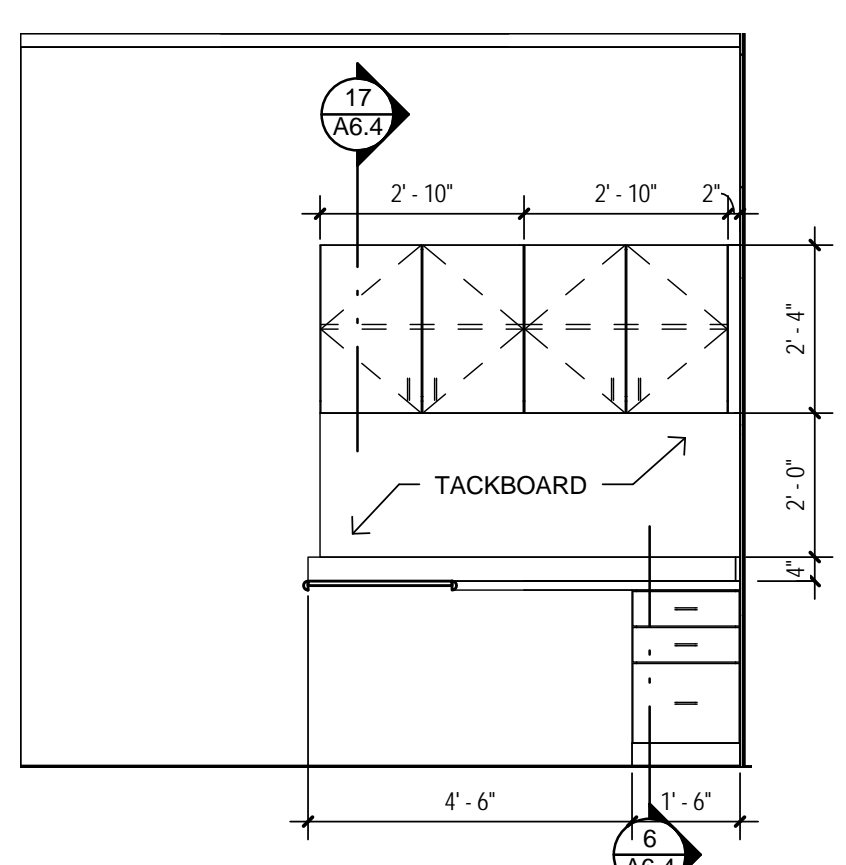
18 KITCHEN 124 - ELEV. E
3/8" = 1'-0"



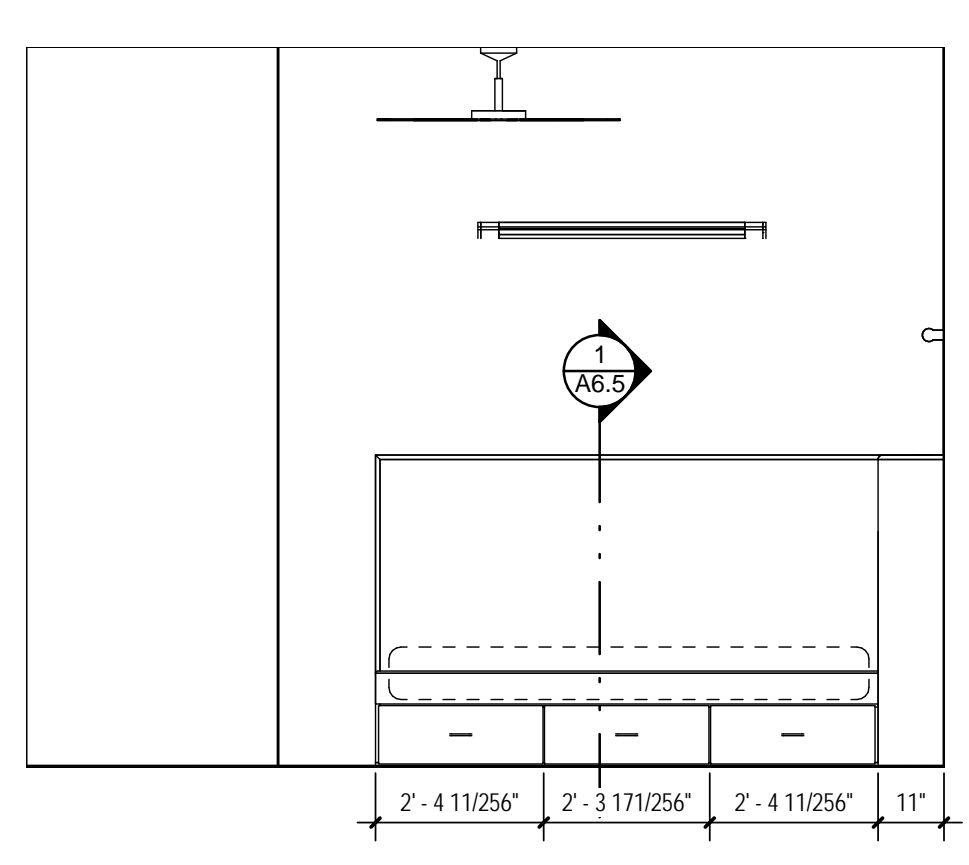
19 PANTRY 125
3/8" = 1'-0"



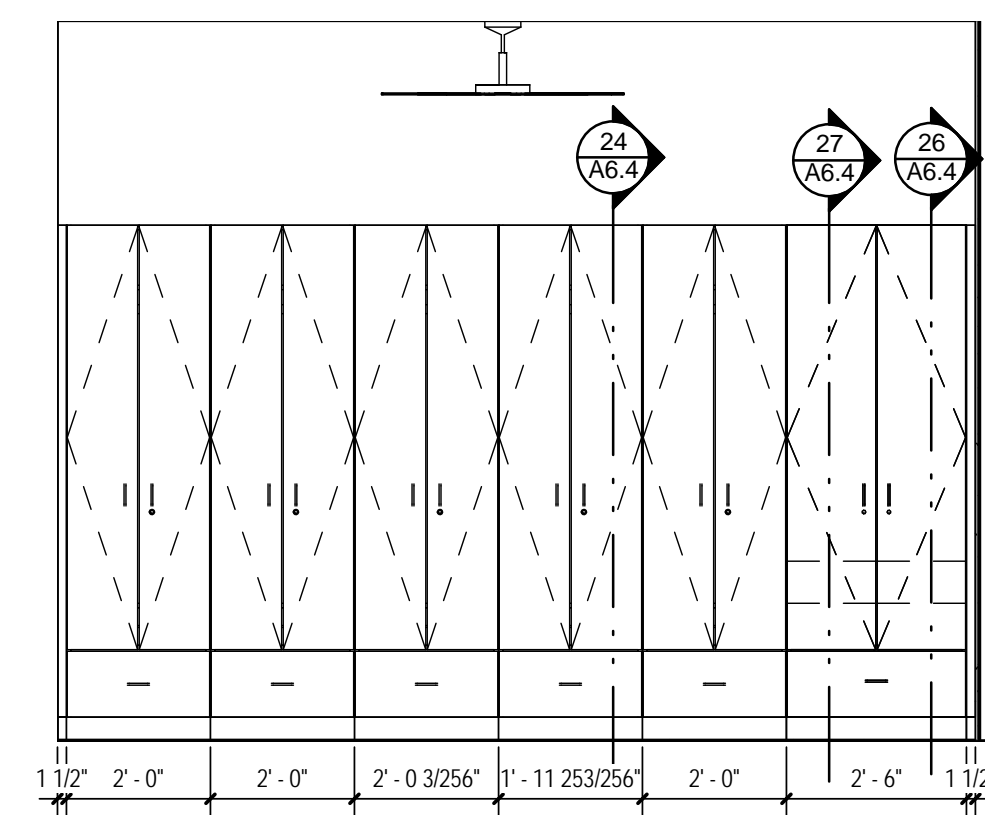
20 LIEUTENANT'S OFFICE 128 - ELEV. A
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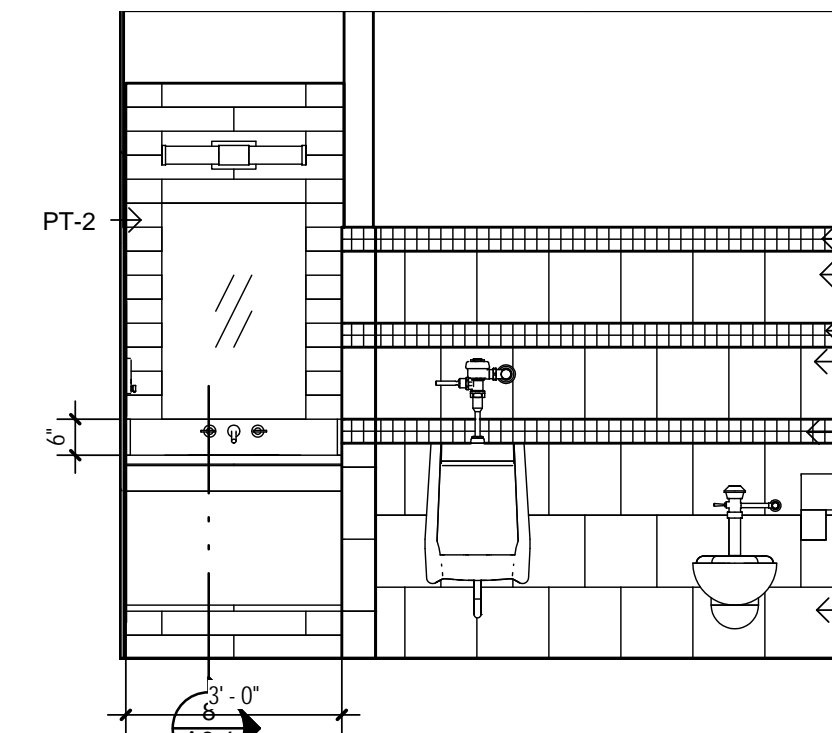
21 LIEUTENANT'S OFFICE 128 - ELEV. B
3/8" = 1'-0"



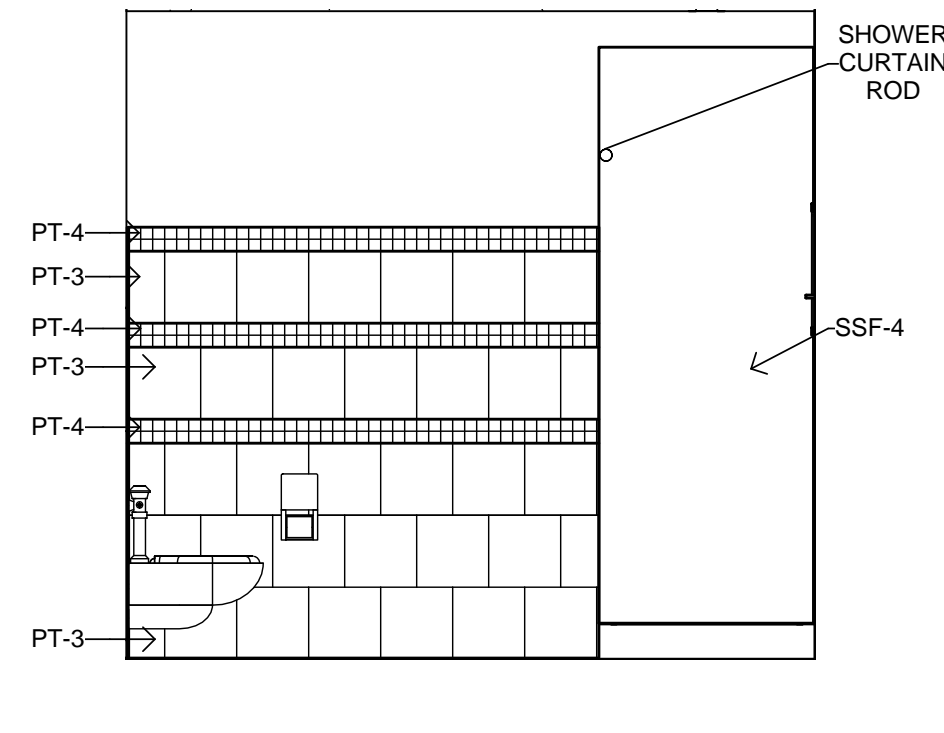
22 LIEUTENANT'S DORM 129 - ELEV. A
3/8" = 1'-0"



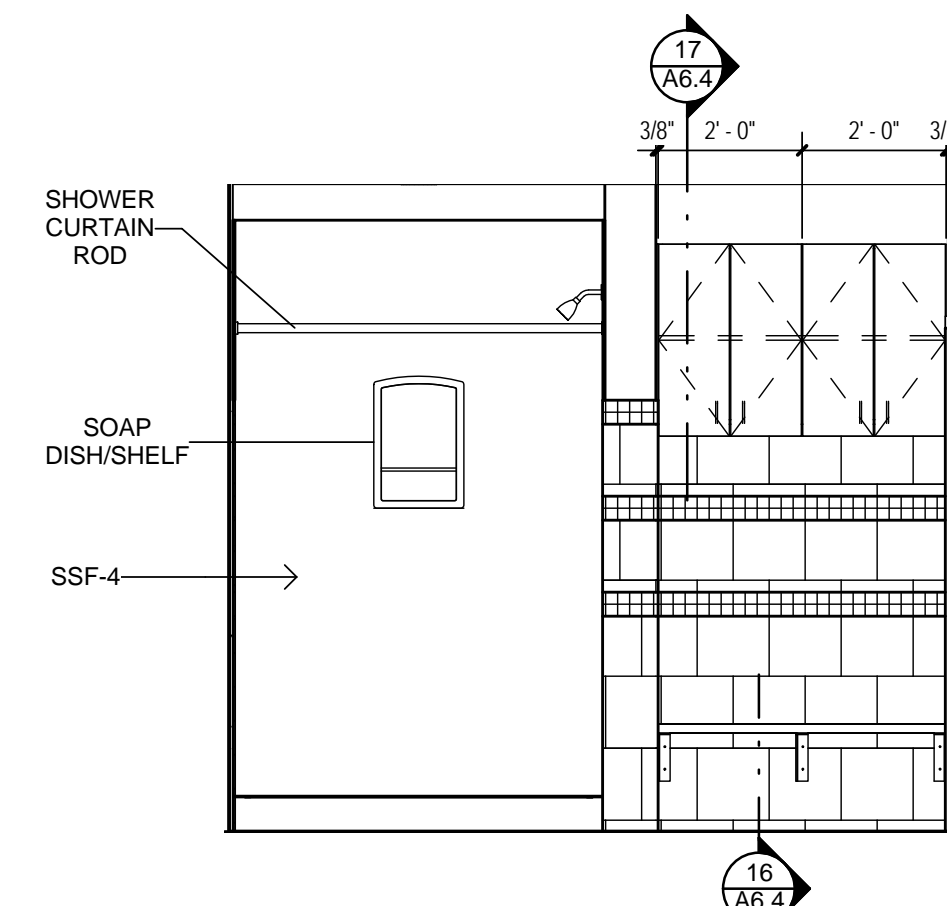
1 LIEUTENANT'S DORM 129 - ELEV. B
3/8" = 1'-0"



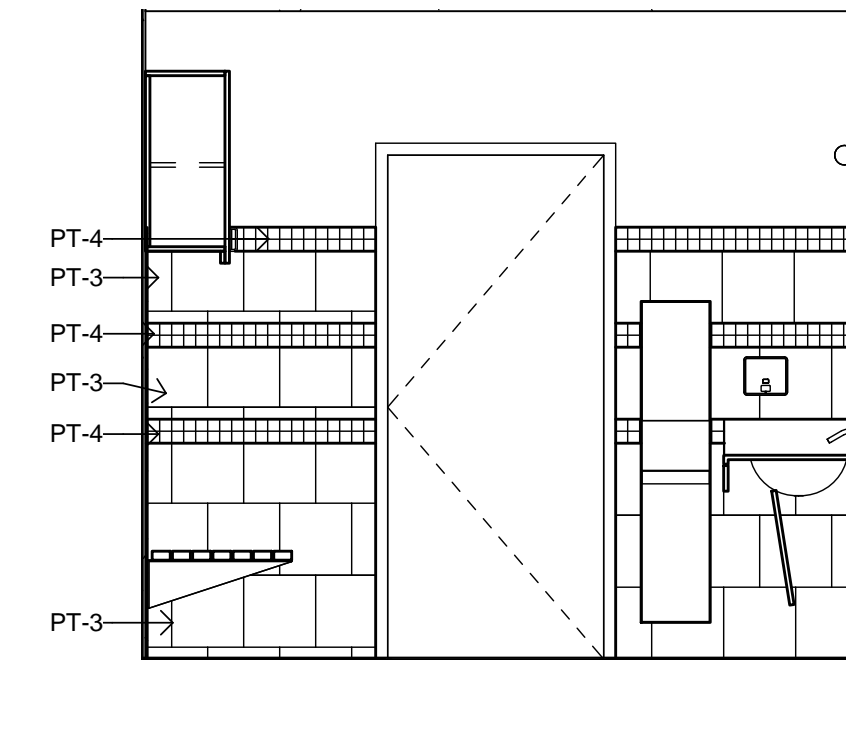
2 OFFICER'S TOILET 130 - ELEV. A
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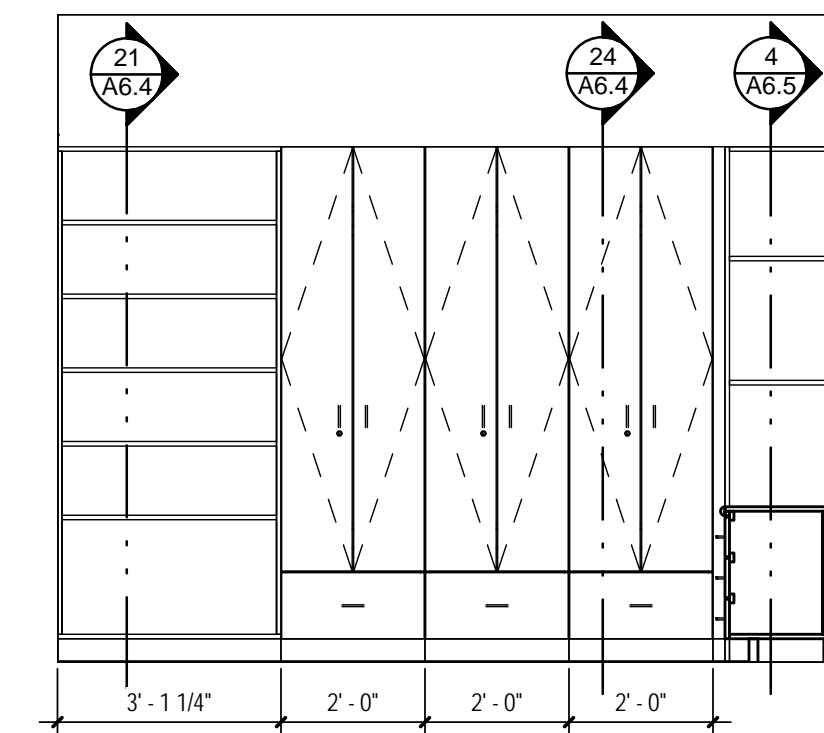
3 OFFICER'S TOILET 130 - ELEV. B
3/8" = 1'-0"



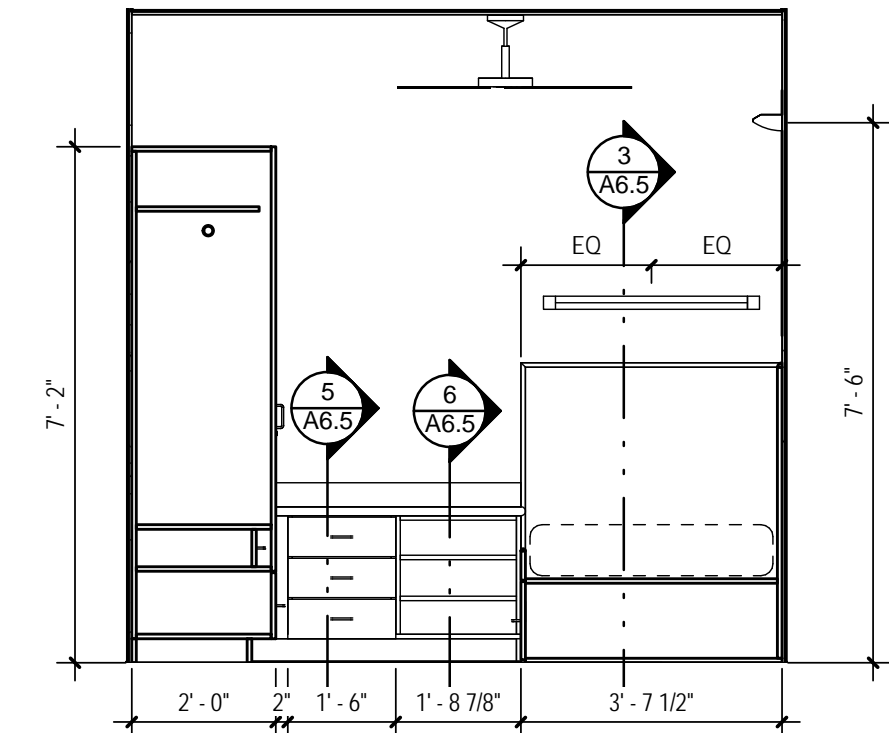
4 OFFICER'S TOILET 130 - ELEV. C
3/8" = 1'-0"



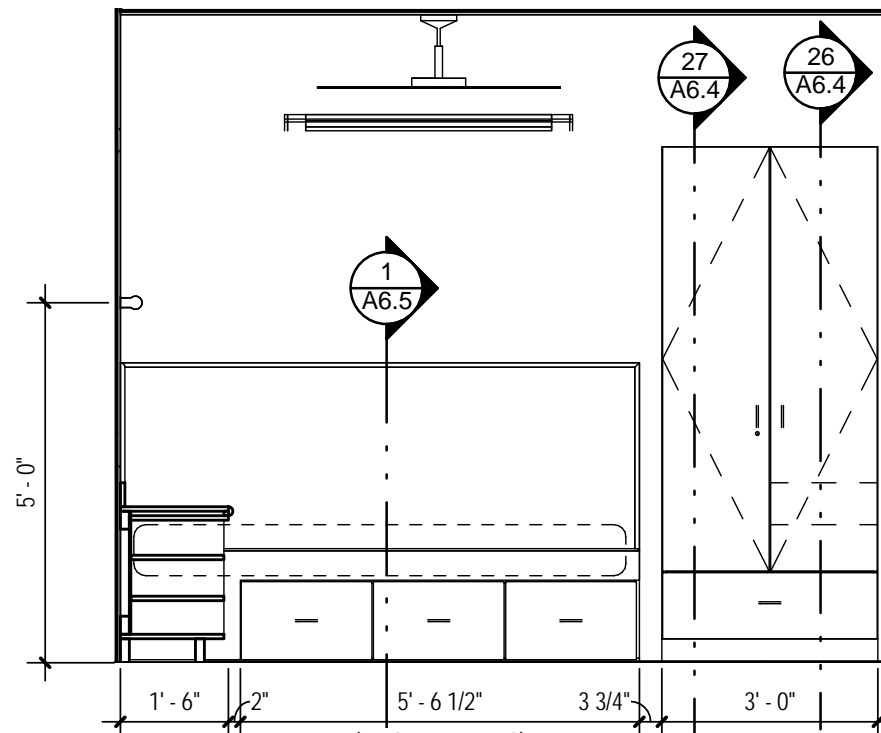
5 OFFICER'S TOILET 130 - ELEV. D
3/8" = 1'-0"



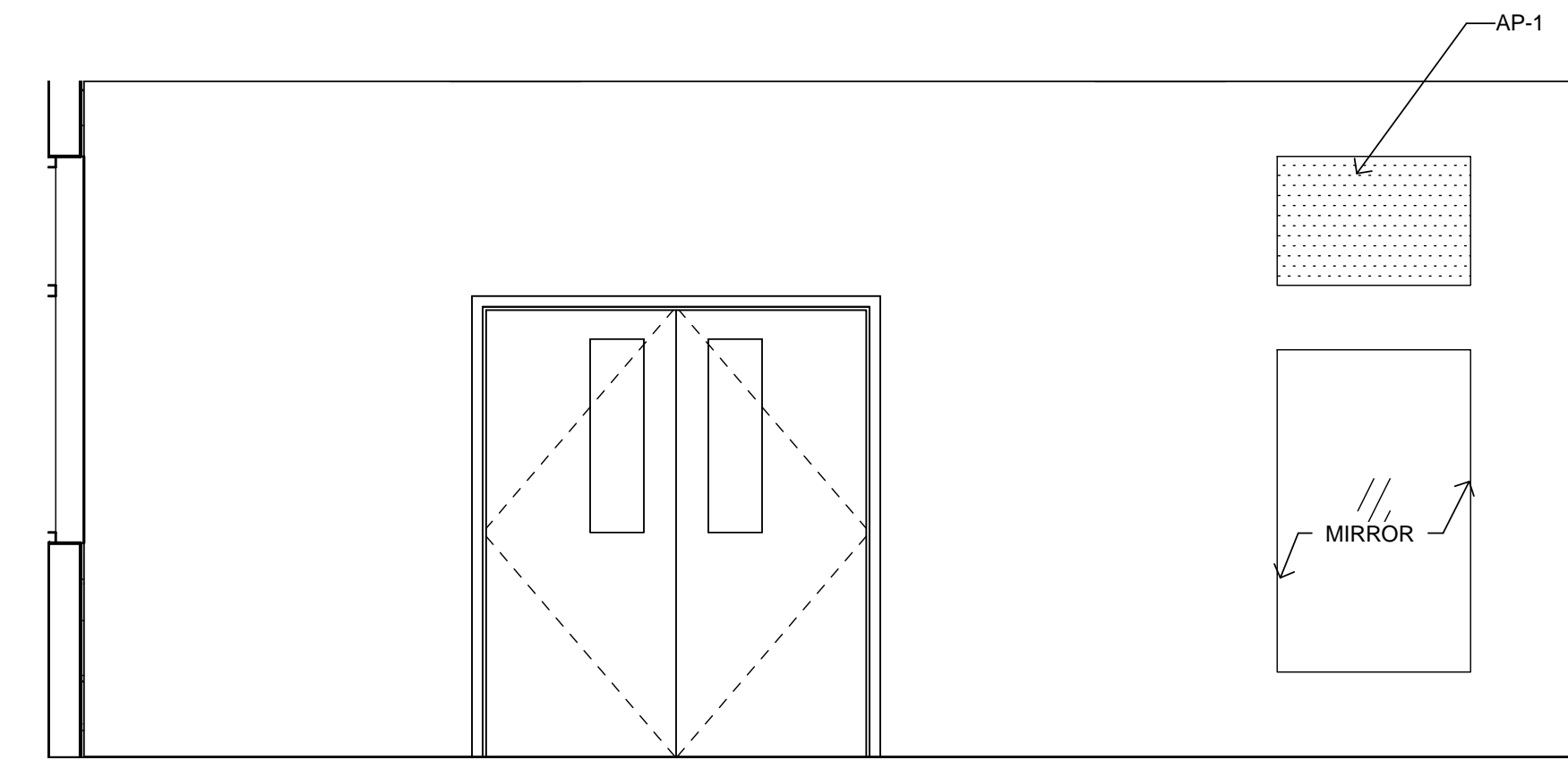
6 BATTALION CHIEF'S DORM 133 - ELEV. A
3/8" = 1'-0"



7 BATTALION CHIEF'S DORM 133 - ELEV. B
3/8" = 1'-0"



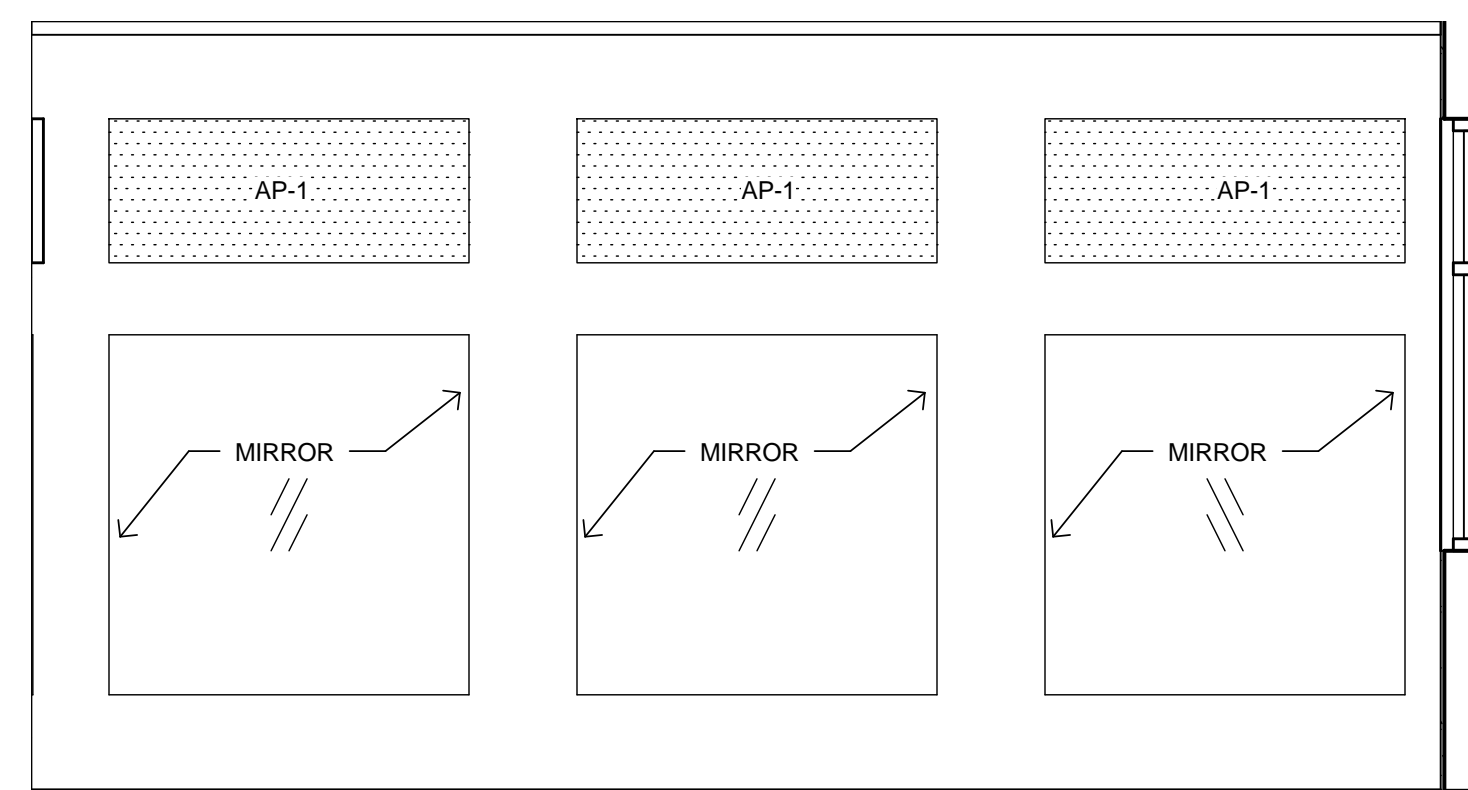
8 BATTALION CHIEF'S DORM 133 - ELEV. C
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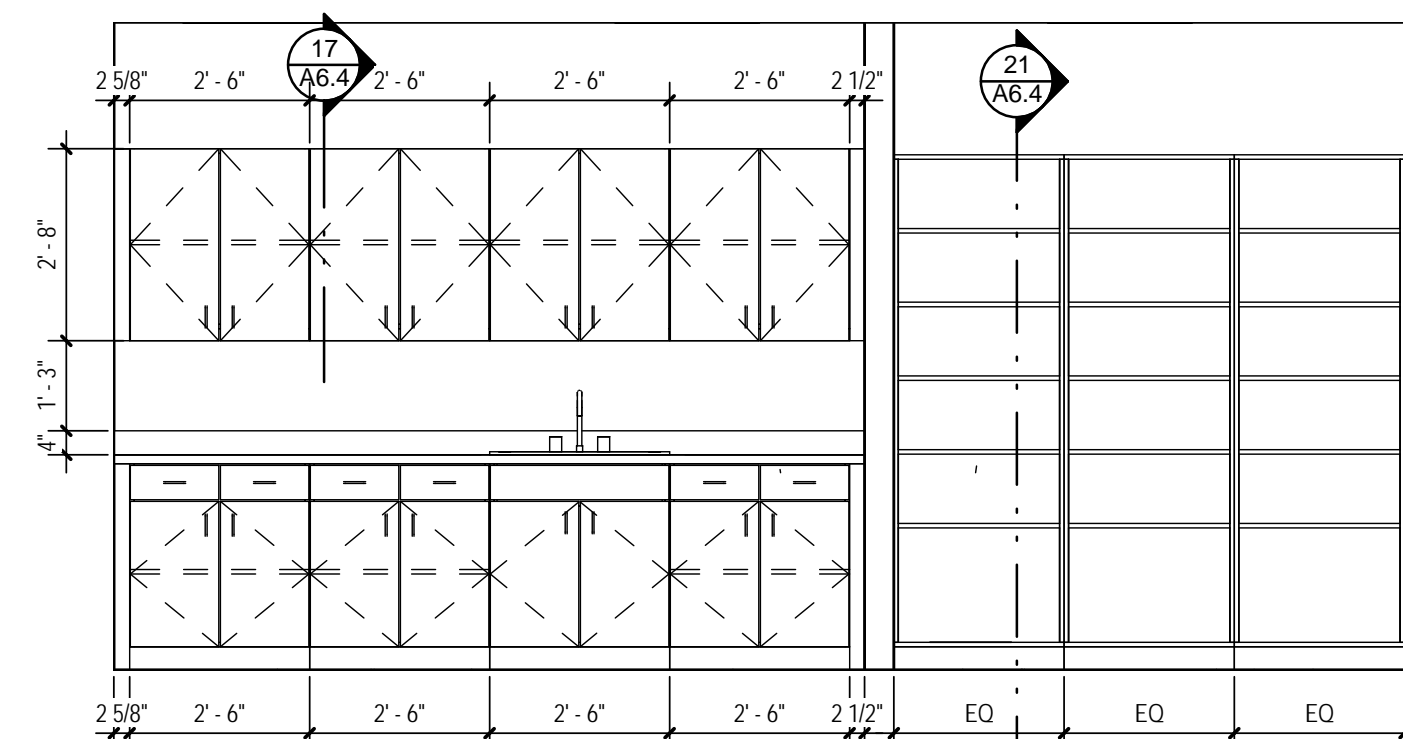
9 FITNESS 135 - ELEV. A
3/8" = 1'-0"

GENERAL NOTES

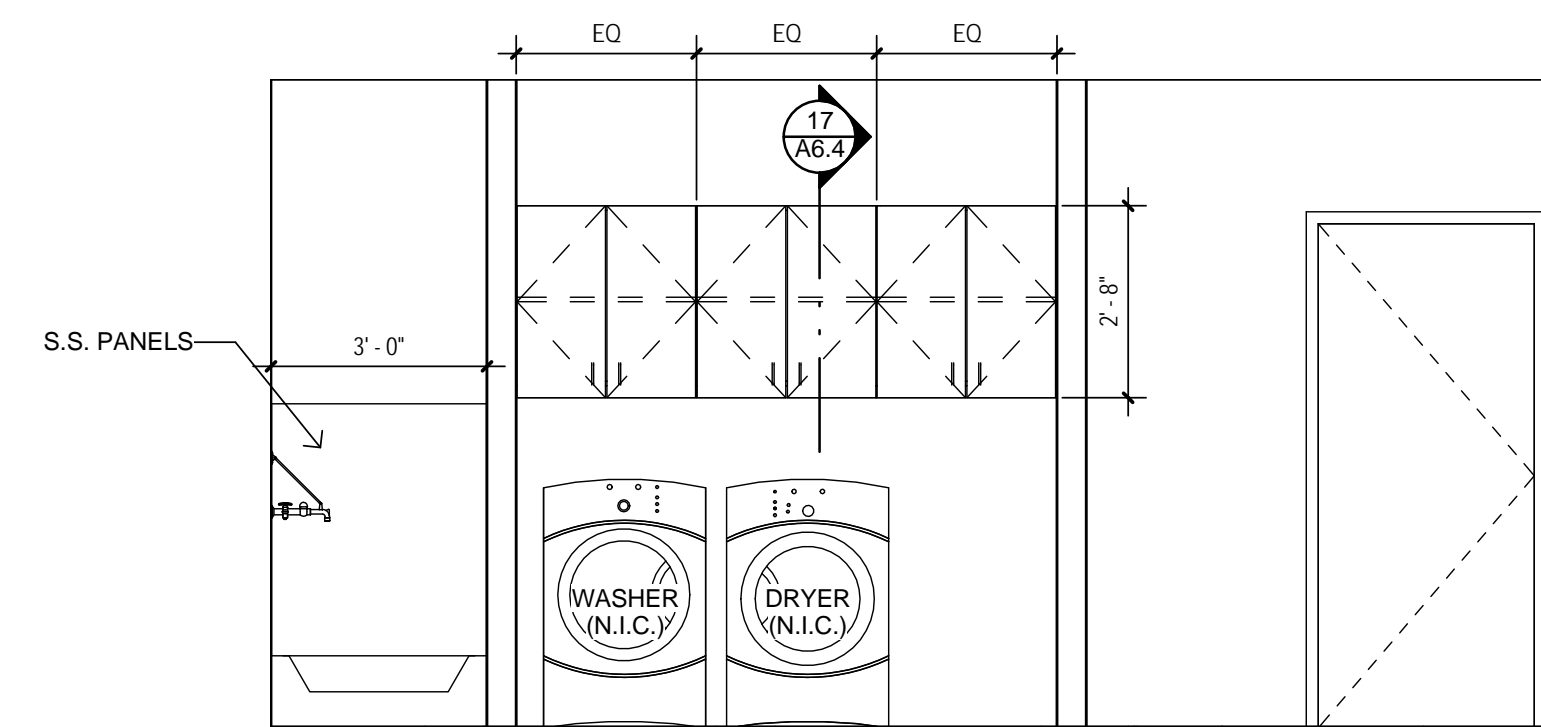
1. ALL DIMENSIONS SHOWN ON INTERIOR ELEVATIONS AT WALLS ARE TO THE FINISHED SURFACE.
2. ALL EXPOSED PIPE UNDER SINKS ARE TO BE WRAPPED.
3. REFER TO SHEET A0.1 FOR H.C. SHOWER SEAT AND BLOCKING LOCATIONS AND FOR HANDICAP ACCESSIBILITY STANDARDS.



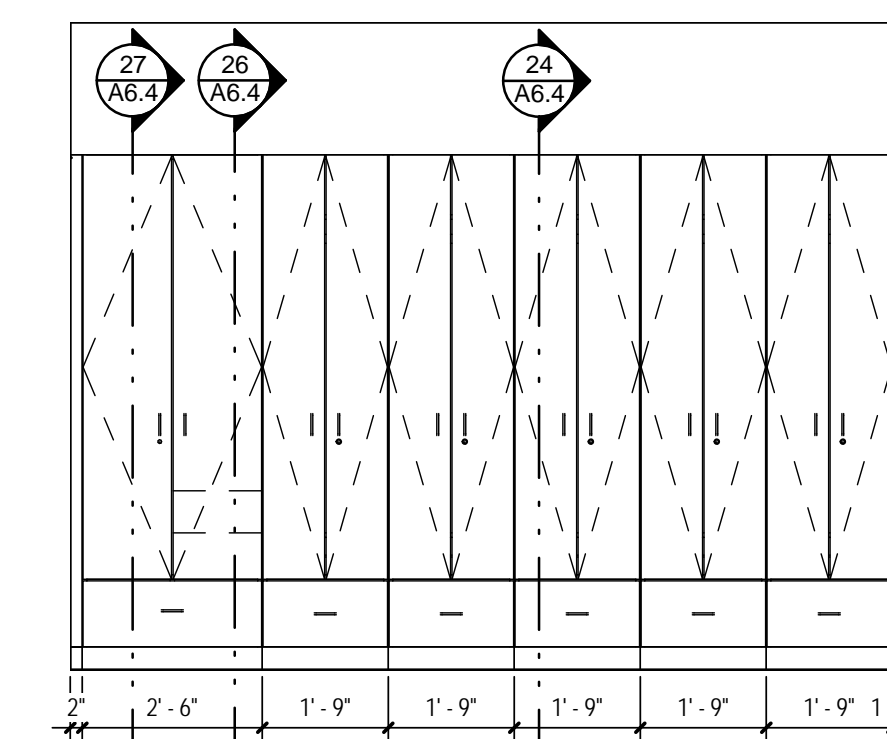
10 FITNESS 135 - ELEV. B
3/8" = 1'-0"



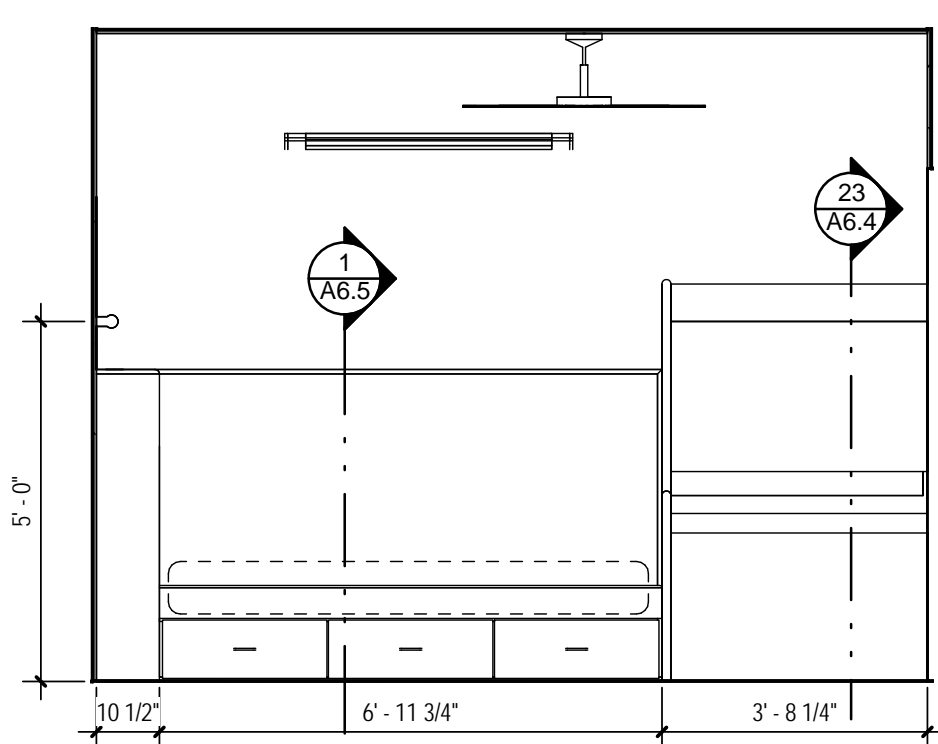
11 LAUNDRY / JANITOR 136 - ELEV. A
3/8" = 1'-0"



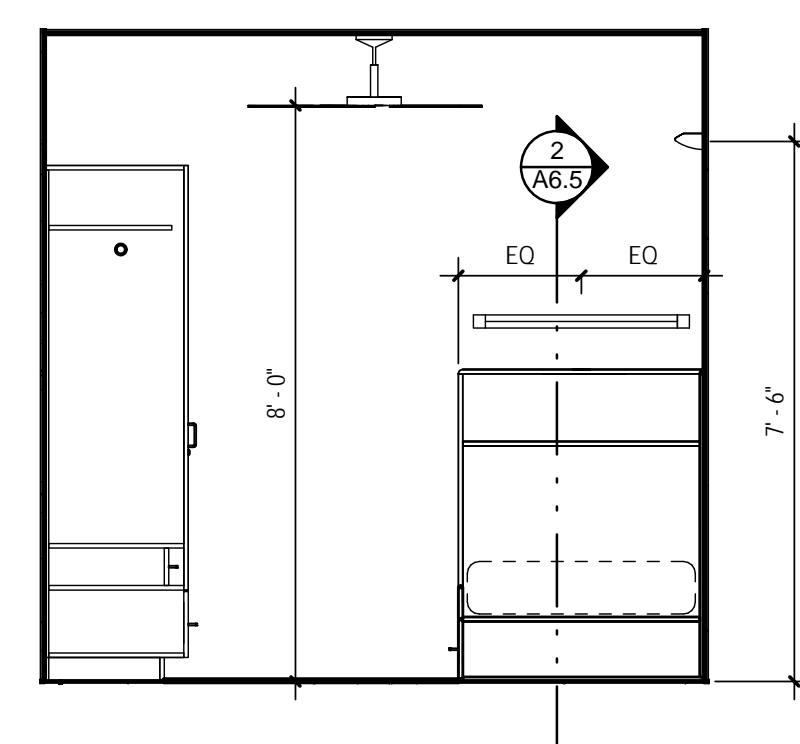
12 LAUNDRY / JANITOR 136 - ELEV. B
3/8" = 1'-0"



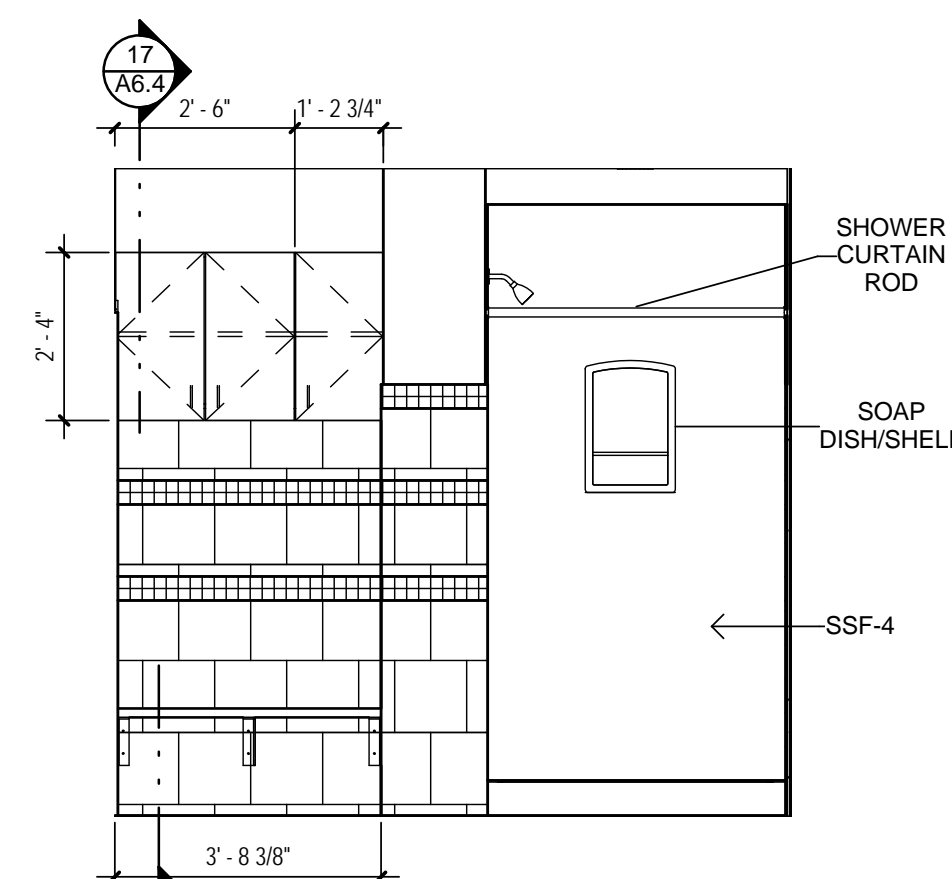
13 DORM 138 - ELEV. A
3/8" = 1'-0"



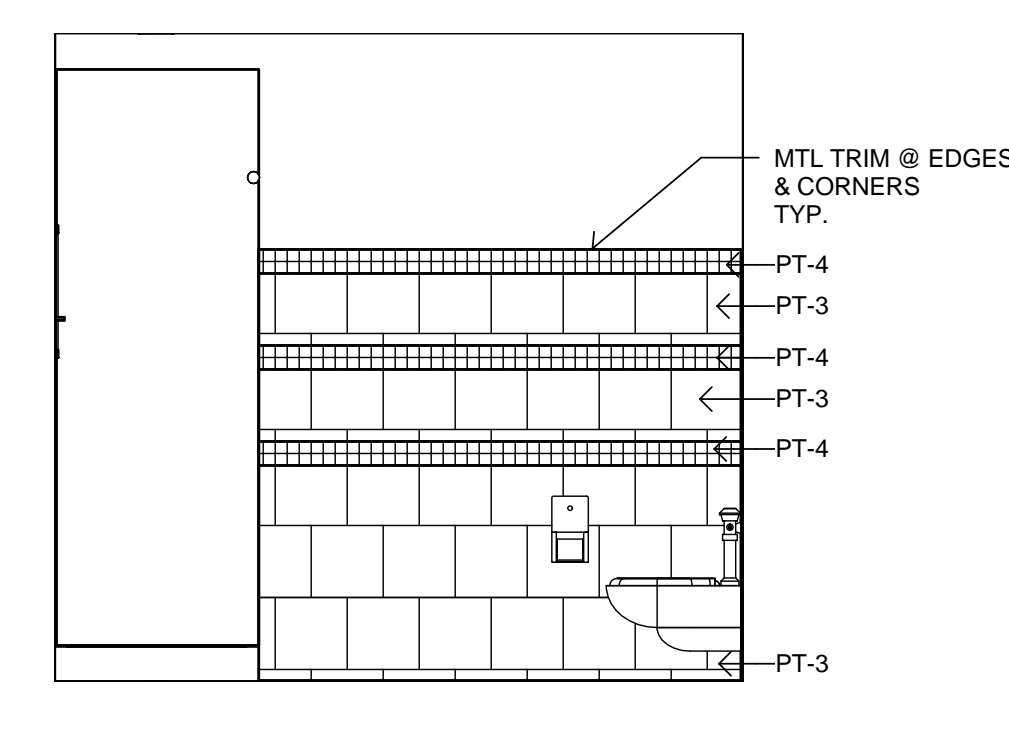
14 DORM 138 - ELEV. B
3/8" = 1'-0"



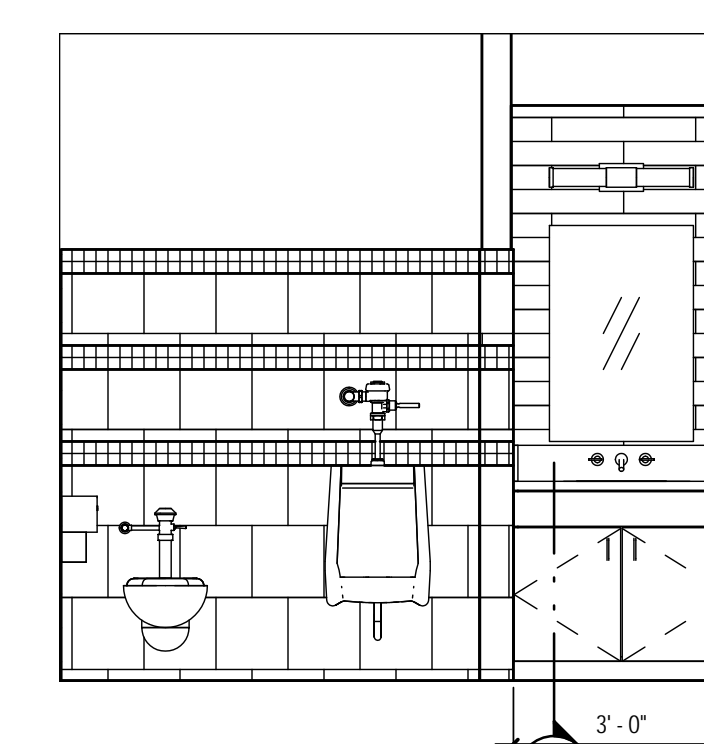
15 DORM 138 ELEV. C
3/8" = 1'-0"



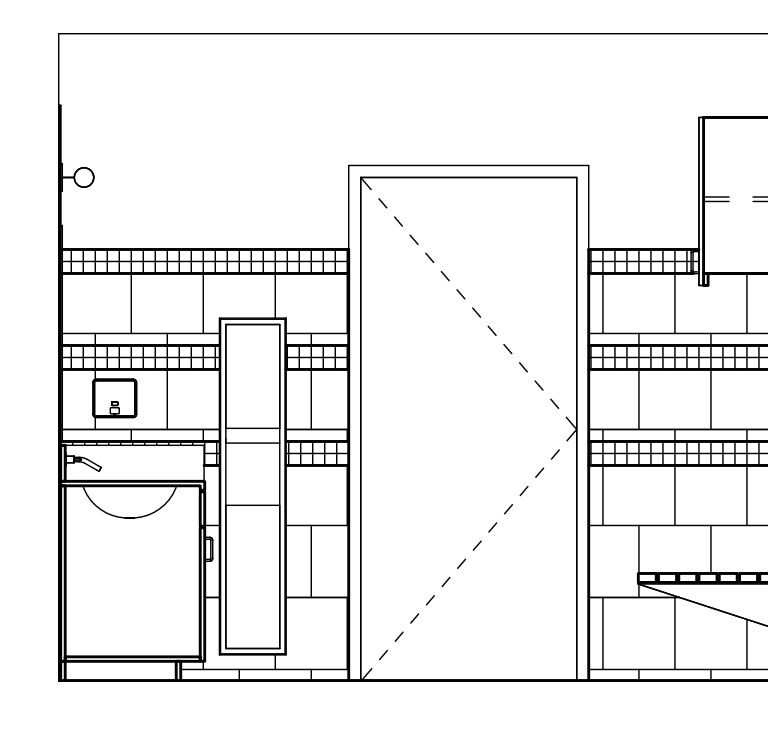
16 STAFF TOILET 145 - ELEV. A
3/8" = 1'-0"



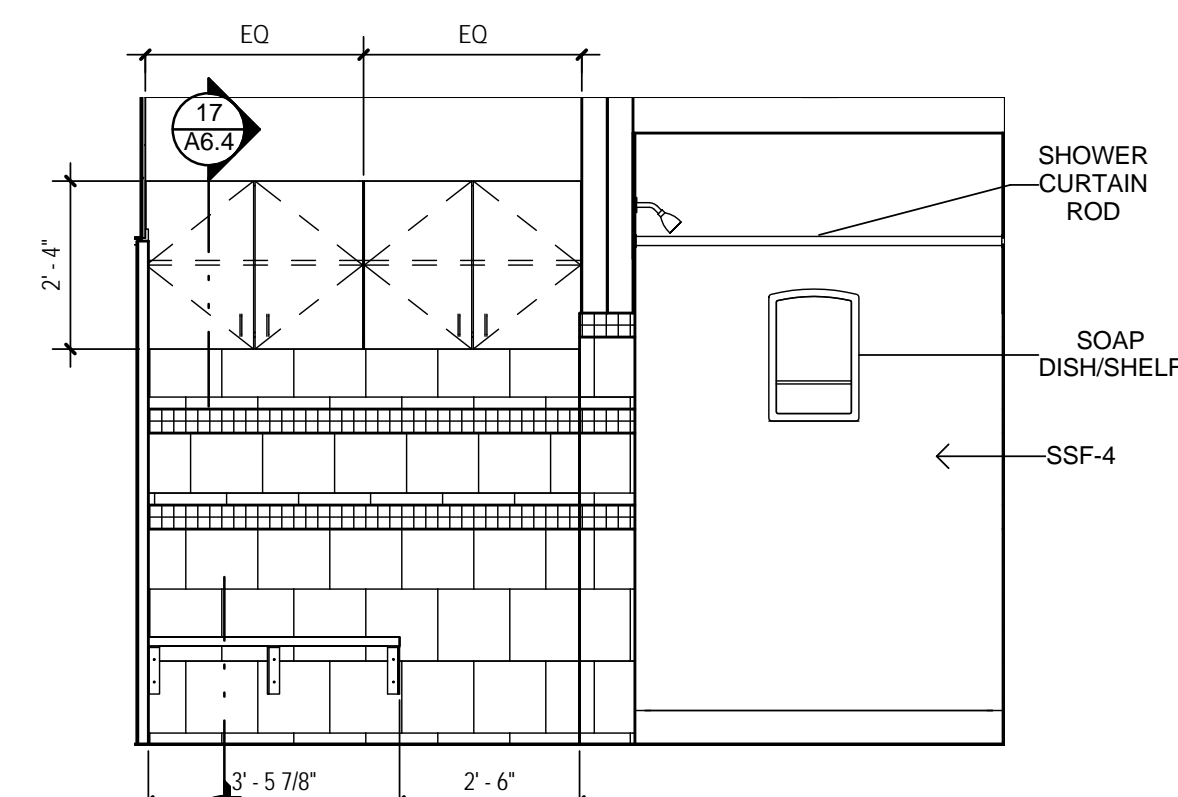
17 STAFF TOILET 145 - ELEV. B
3/8" = 1'-0"



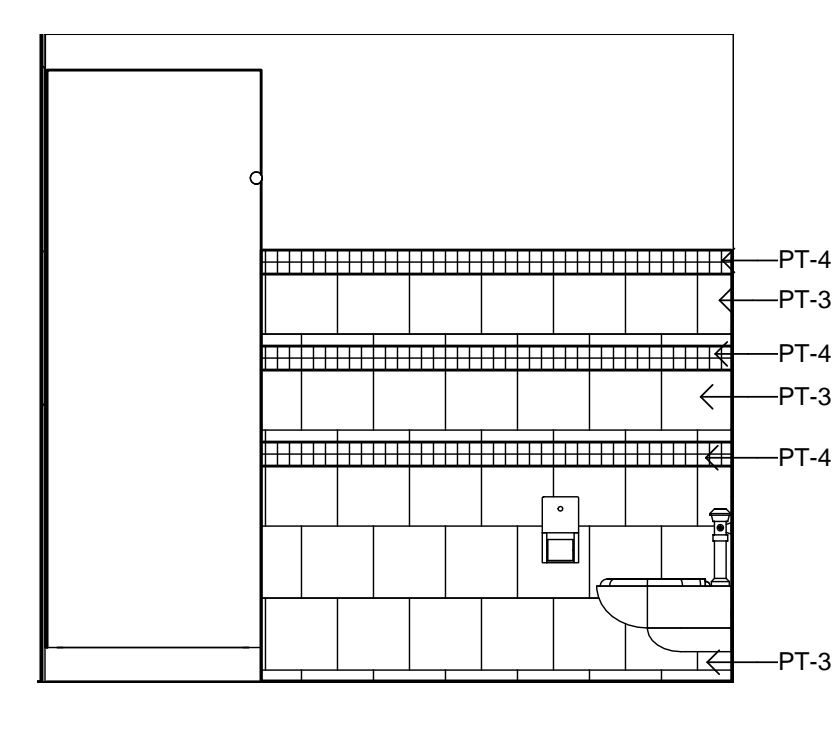
18 STAFF TOILET 145 - ELEV. C
3/8" = 1'-0"



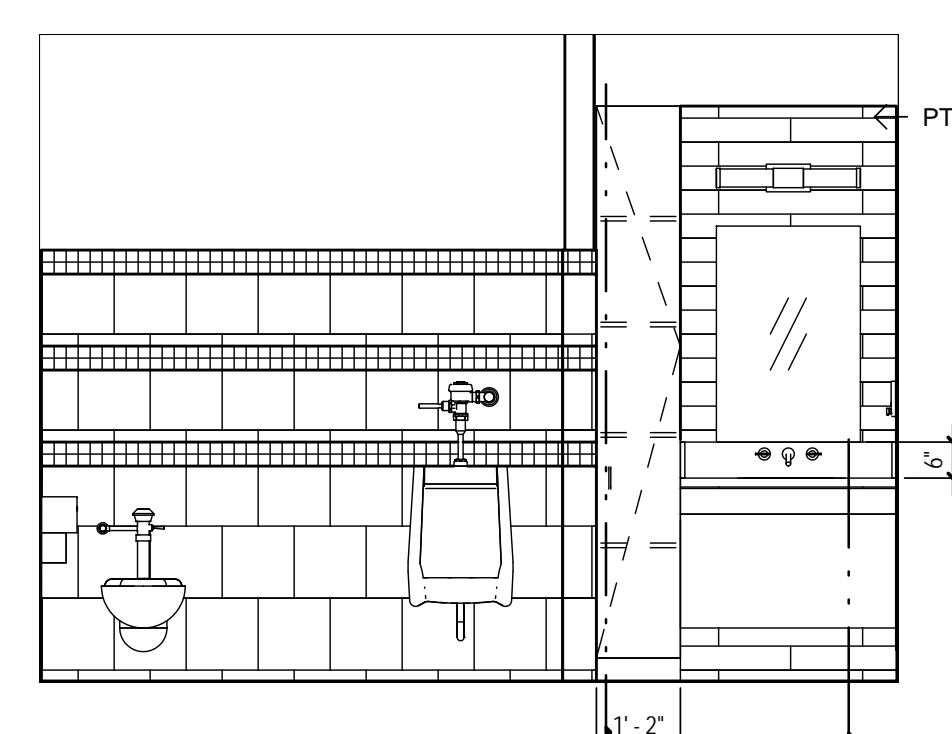
19 STAFF TOILET 145 - ELEV. D
3/8" = 1'-0"



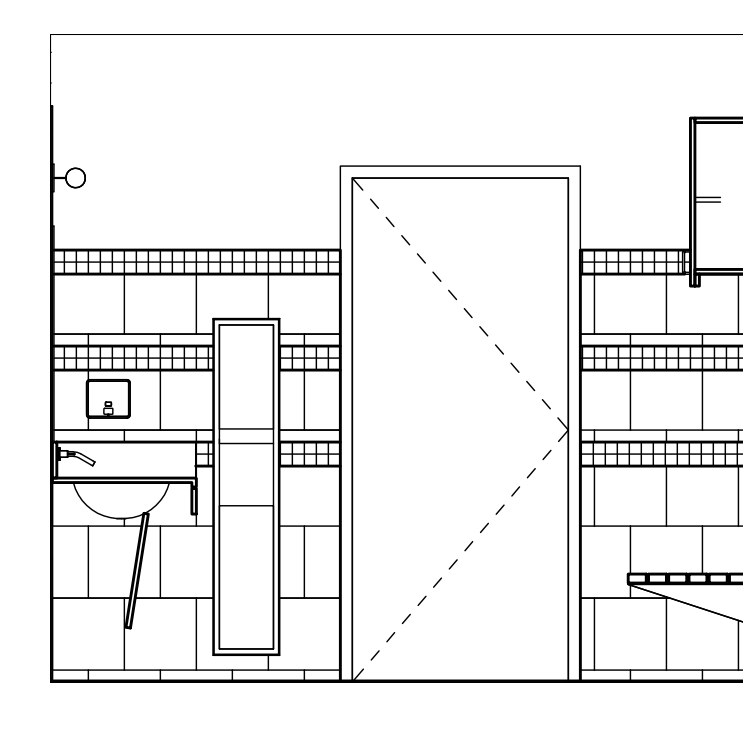
20 ACCESSIBLE STAFF TOILET 147 - ELEV. A
3/8" = 1'-0"



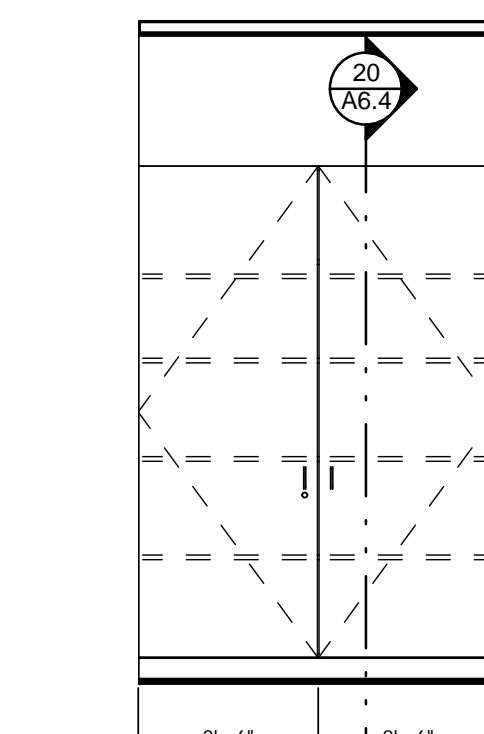
21 ACCESSIBLE STAFF TOILET 147 - ELEV. B
3/8" = 1'-0"



22 ACCESSIBLE STAFF TOILET 147 - ELEV. C
3/8" = 1'-0"



23 ACCESSIBLE STAFF TOILET 147 - ELEV. D
3/8" = 1'-0"



24 CORRIDOR 144
3/8" = 1'-0"

Original Issue Date: 04/04/14
Revisions:

LUCAS CENTRAL FS
165 COUNTRY CLUB ROAD LUCAS, TX 75002

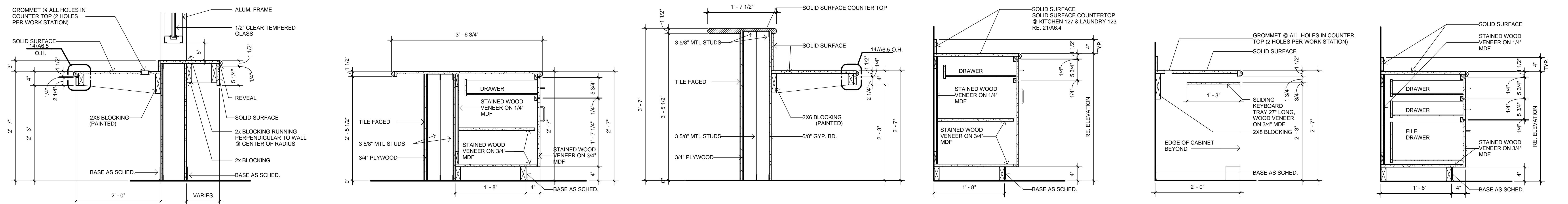
WINGTON HOOKER JEFFREY P.C.
ARCHITECTS
500 N. Central Expressway Suite 300
Frisco, Texas 75034
P: 972.465.0057
F: 972.465.0058

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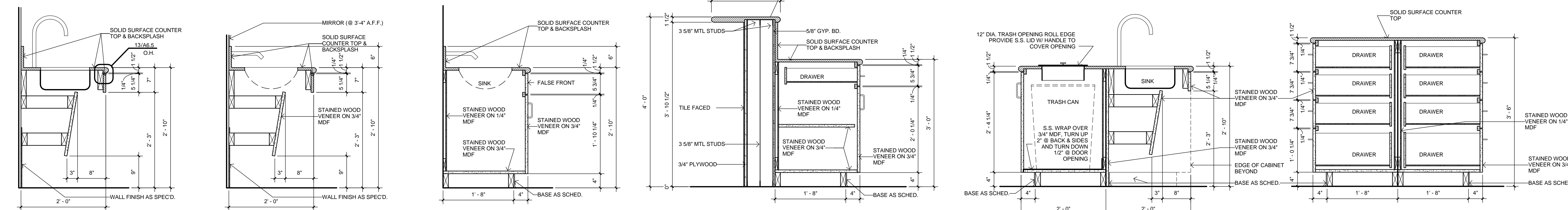
NOT INTENDED FOR BIDDING. PERMIT OR CONSTRUCTION NOT REQUIRED.

Job No.
1215

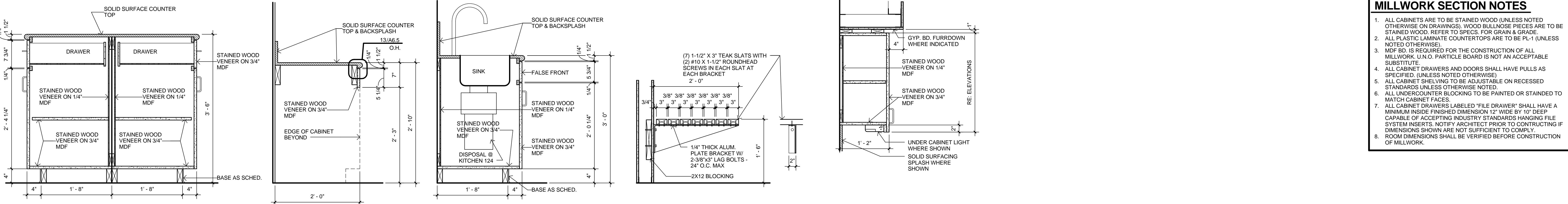
Sheet No.
A6.3
INTERIOR ELEVATIONS



1 SECTION @ PUBLIC LOBBY 1" = 1'-0"
2 SECTION @ TRANSACTION COUNTER 1" = 1'-0"
3 SECTION @ RECEPTION COUNTER 1" = 1'-0"
4 SECTION @ BASE CABINET 1" = 1'-0"
5 SECTION @ KEYBOARD TRAY 1" = 1'-0"
6 SECTION @ DRAWERS 1" = 1'-0"

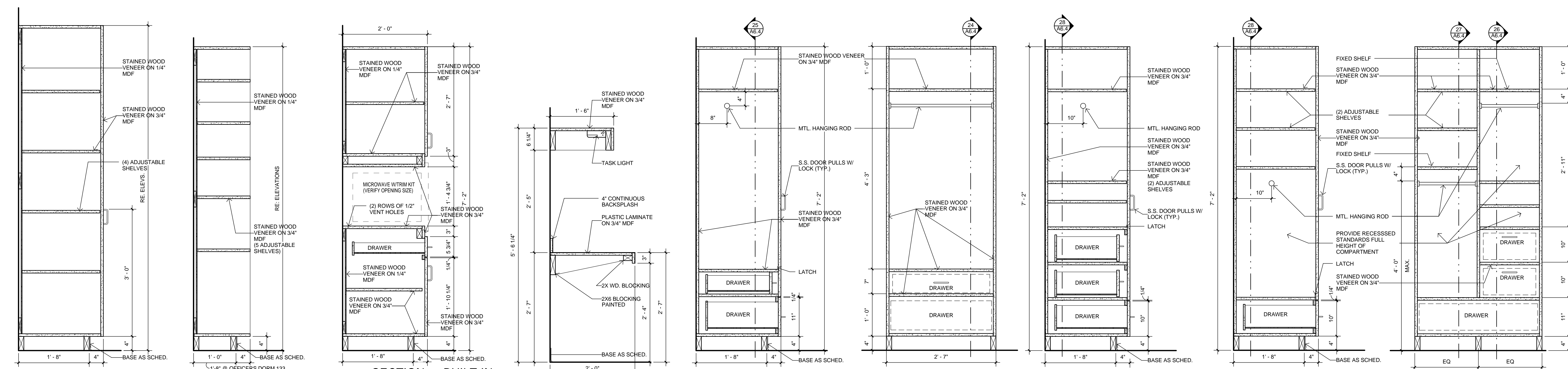


7 SECTION @ SINK SKIRT 1" = 1'-0"
8 SECTION @ LAVATORY 1" = 1'-0"
9 SECTION @ LAVATORY 1" = 1'-0"
10 SECTION @ BAR COUNTER 1" = 1'-0"
11 SECTION @ ISLAND 1" = 1'-0"
12 SECTION @ ISLAND 1" = 1'-0"



13 SECTION @ ISLAND 1" = 1'-0"
14 SECTION @ KNEE SPACE 1" = 1'-0"
15 SECTION @ SINK 1" = 1'-0"
16 SECTION @ BENCH 1" = 1'-0"
17 SECTION @ UPPER 1" = 1'-0"

- MILLWORK SECTION NOTES**
1. ALL CABINETS ARE TO BE STAINED WOOD (UNLESS NOTED OTHERWISE ON DRAWINGS). WOOD BULLNOSE PRICES ARE TO BE STAINED WOOD. REFER TO SPECS. FOR GRAIN & GRADE.
 2. ALL PLASTIC LAMINATE COUNTERTOPS ARE TO BE PL-1 (UNLESS NOTED OTHERWISE).
 3. MDF BD. IS REQUIRED FOR THE CONSTRUCTION OF ALL MILLWORK. U.N.O. PARTICLE BOARD IS NOT AN ACCEPTABLE SUBSTITUTE.
 4. ALL CABINET DRAWERS AND DOORS SHALL HAVE PULLS AS SPECIFIED. (UNLESS NOTED OTHERWISE).
 5. ALL CABINET SHELVING TO BE ADJUSTABLE ON RECESSED STANDARDS UNLESS OTHERWISE NOTED.
 6. ALL UNDERCOUNTER BLOCKING TO BE PAINTED OR STAINED TO MATCH CABINET FACES.
 7. ALL CABINET DRAWERS LABELED "FILE DRAWER" SHALL HAVE A MINIMUM INSIDE FINISHED DIMENSION 12" WIDE BY 10" DEEP CAPABLE OF ACCEPTING INDUSTRY STANDARDS HANGING FILE SYSTEM INSERTS. NOTIFY ARCHITECT PRIOR TO CONTRACTING IF DIMENSIONS SHOWN ARE NOT SUFFICIENT TO COMPLY.
 8. ROOM DIMENSIONS SHALL BE VERIFIED BEFORE CONSTRUCTION OF MILLWORK.



20 SECTION @ CABINET 1" = 1'-0"
21 SECTION @ SHELVING 1" = 1'-0"
22 MICROWAVE 1" = 1'-0"
23 SECTION @ DORM DESK 1" = 1'-0"
24 SECTION @ LOCKER 1" = 1'-0"
25 SECTION @ LOCKER 1" = 1'-0"
26 SECTION @ LOCKER 1" = 1'-0"
27 SECTION @ LOCKER 1" = 1'-0"
28 SECTION @ LOCKER 1" = 1'-0"

Original Issue Date: 04/04/14
 Revisions:

LUCAS CENTRAL FS
 165 COUNTRY CLUB ROAD LUCAS, TX 75002

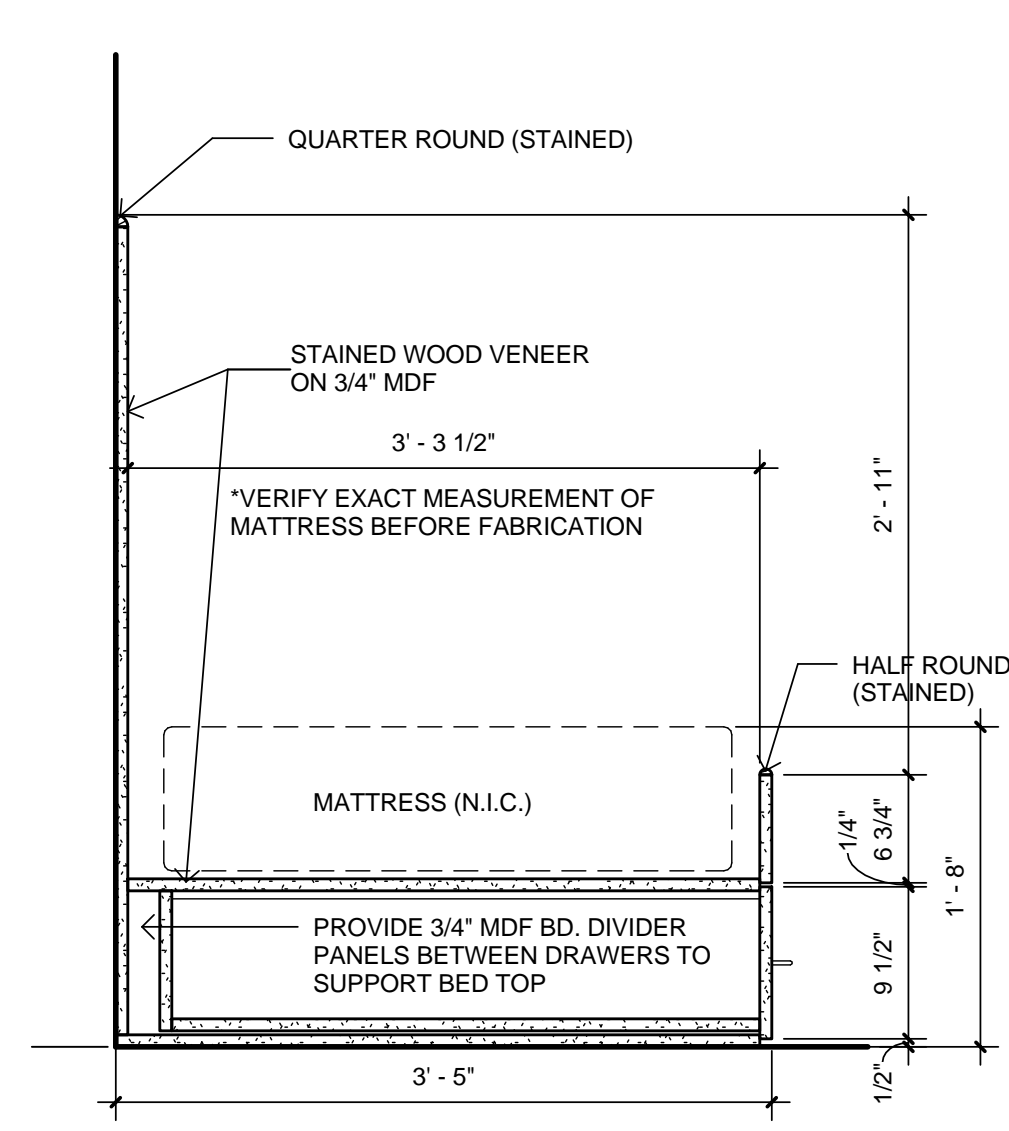
WIGINTON HOOKER JEFFREY P.C.
 ARCHITECTS
 500 N. Central Expressway Suite 300
 Plano, Texas 75074
 P: 972.465.0657
 F: 972.465.0658

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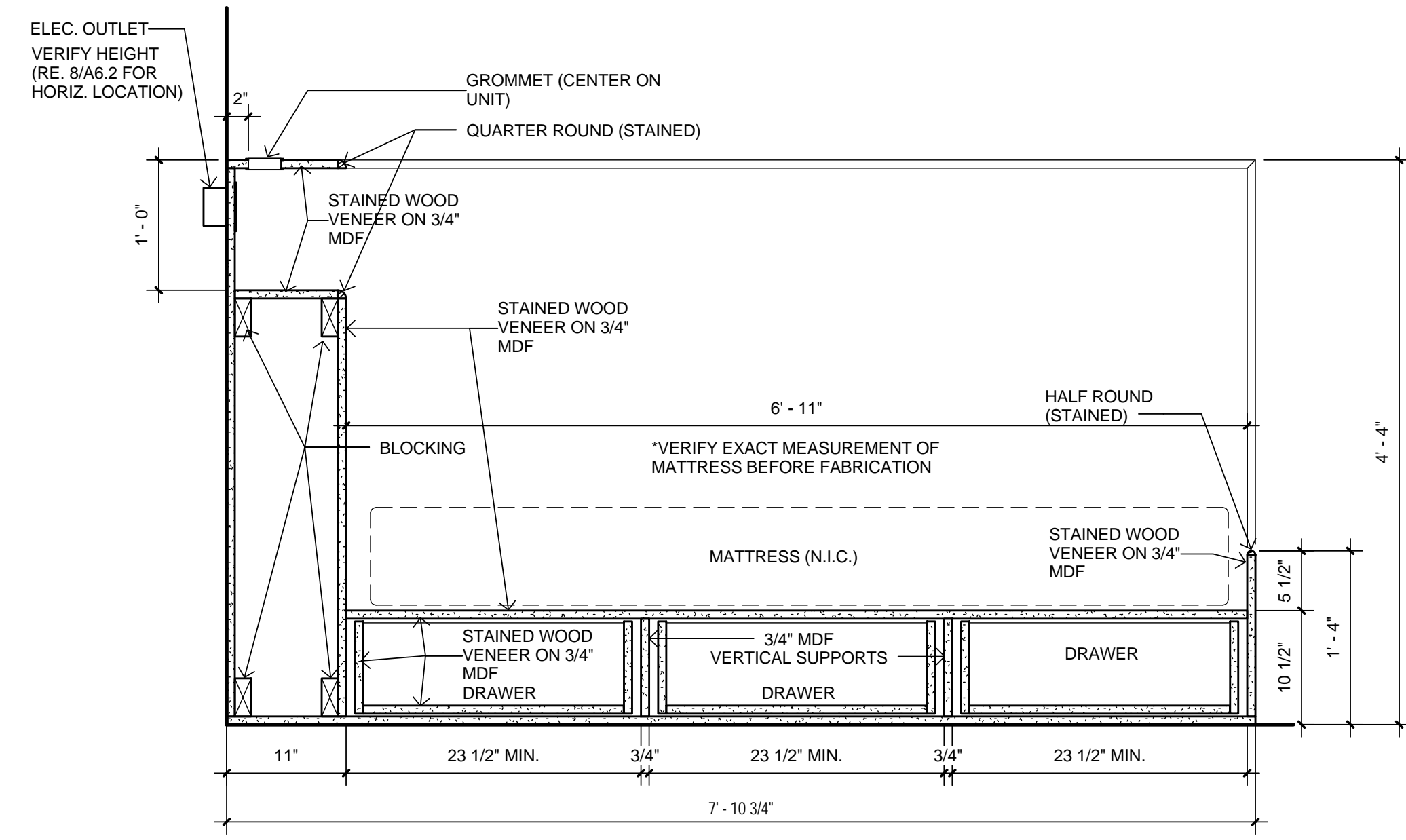
NOT INTENDED FOR BIDDING. PERMIT REQUIRED FOR CONSTRUCTION (IF APPLICABLE).
 ANTHONY JEFFREY
 TEXAS REGISTRATION NO. 12091

Job No.
1215

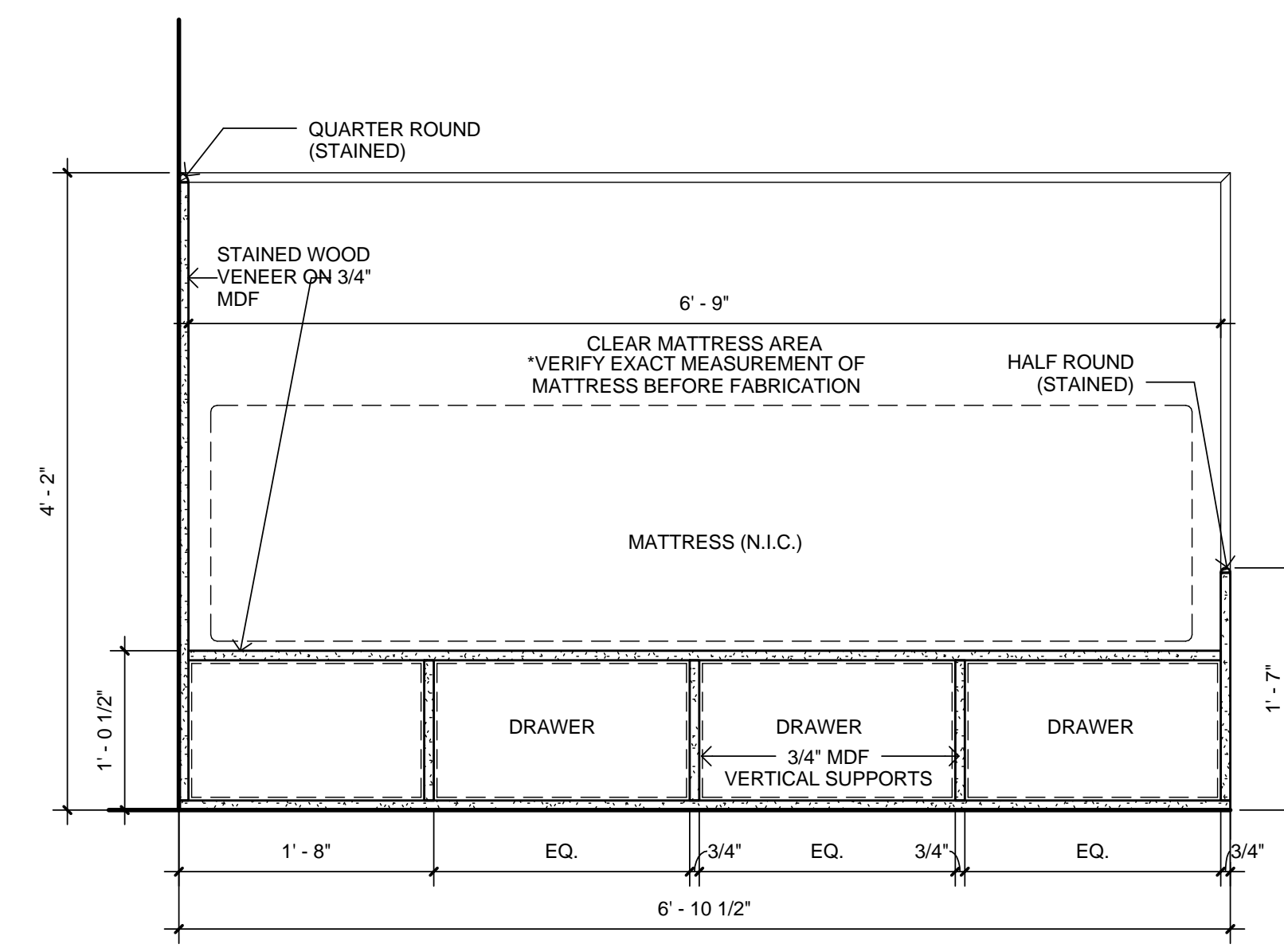
Sheet No.
A6.4
 MILLWORK SECTIONS



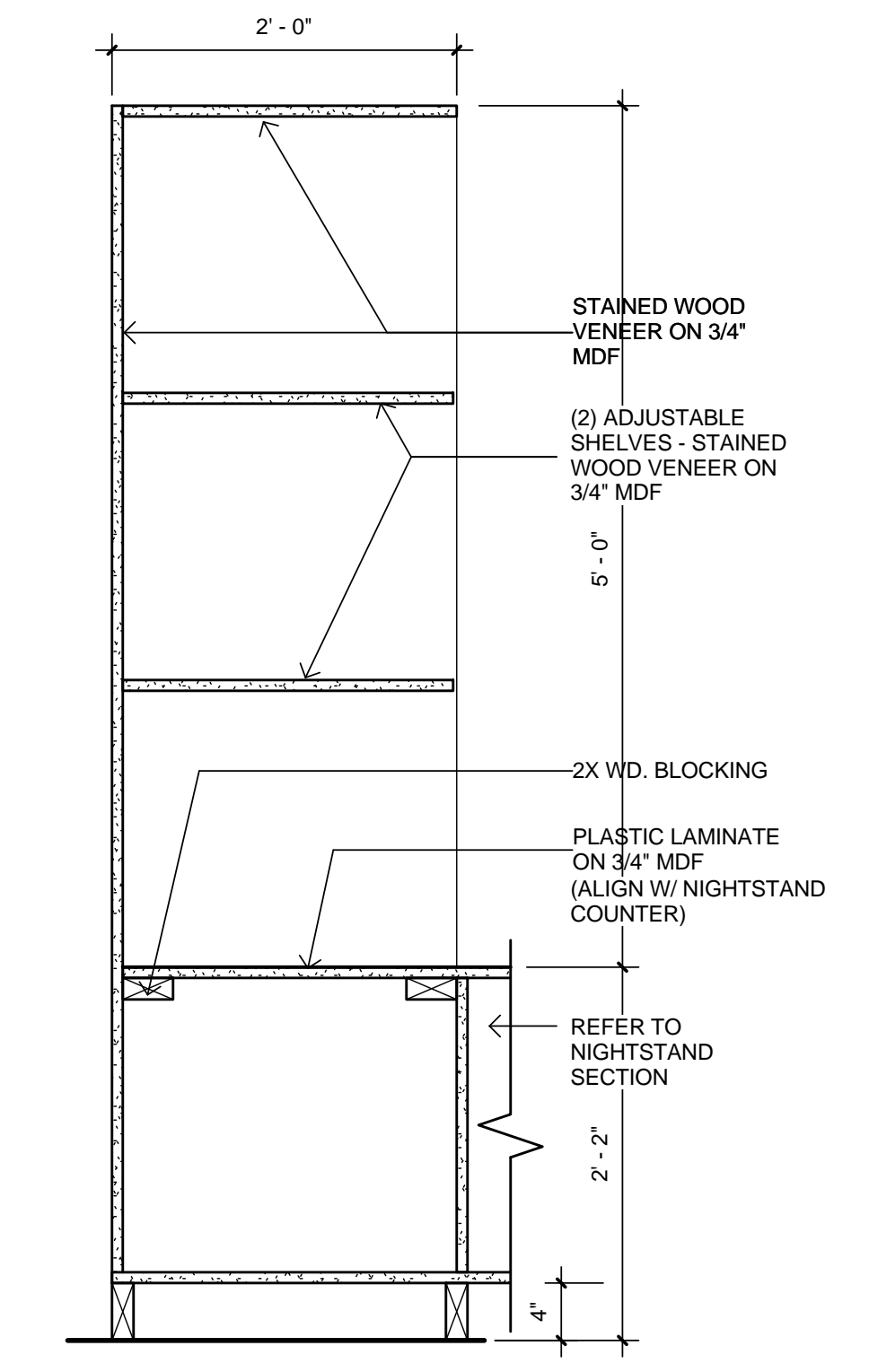
1 SECTION @ DORM BED
1" = 1'-0"



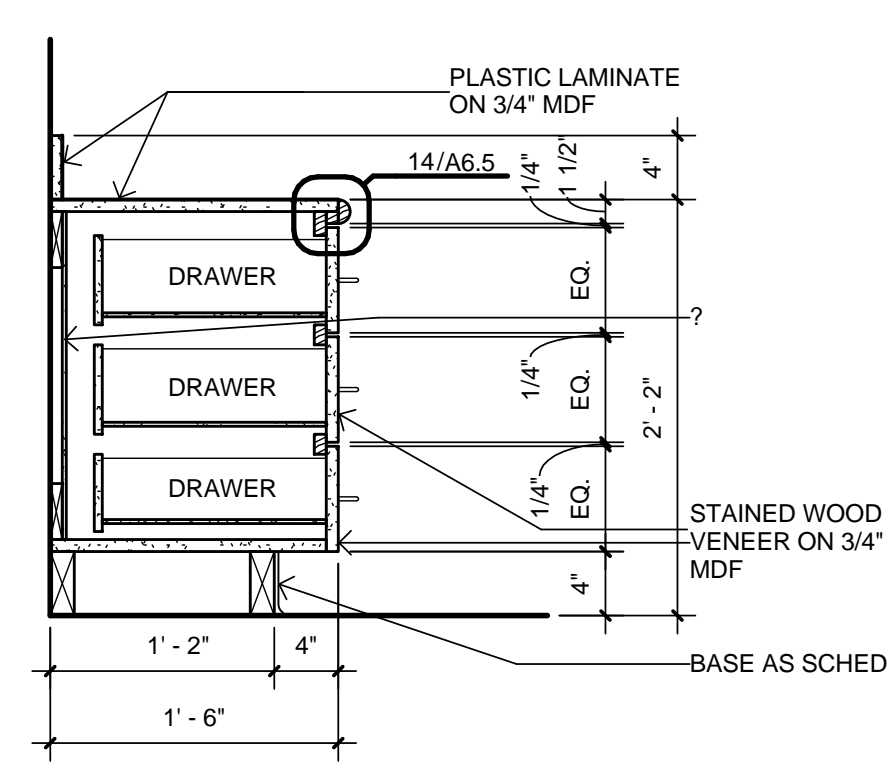
2 SECTION @ DORM BED
1" = 1'-0"



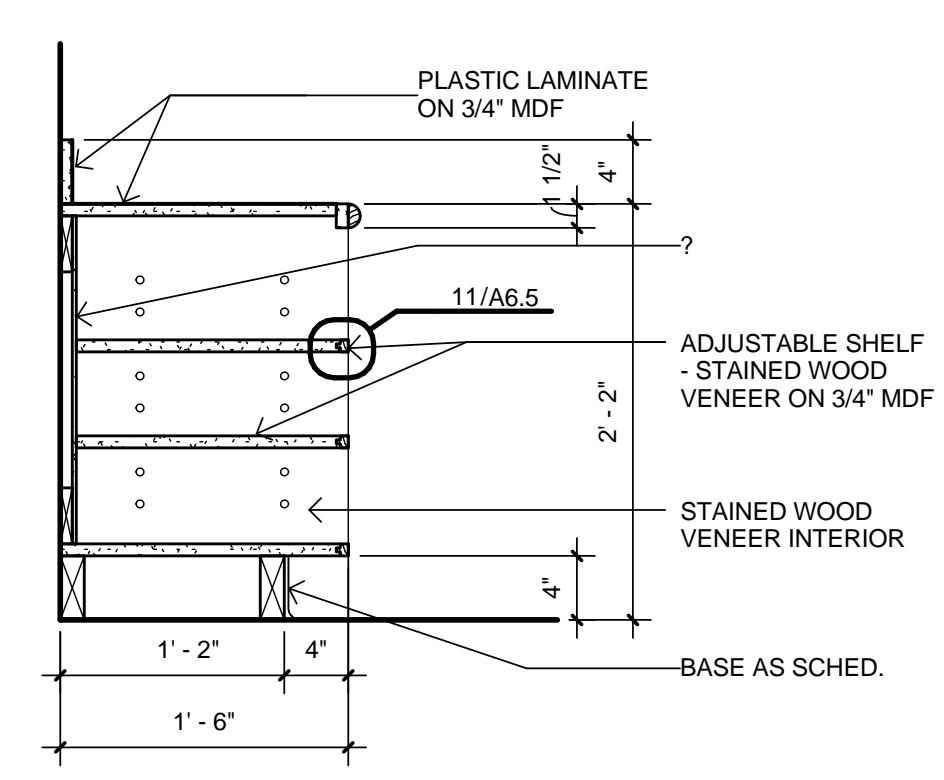
3 SECTION @ DORM BED
1" = 1'-0"



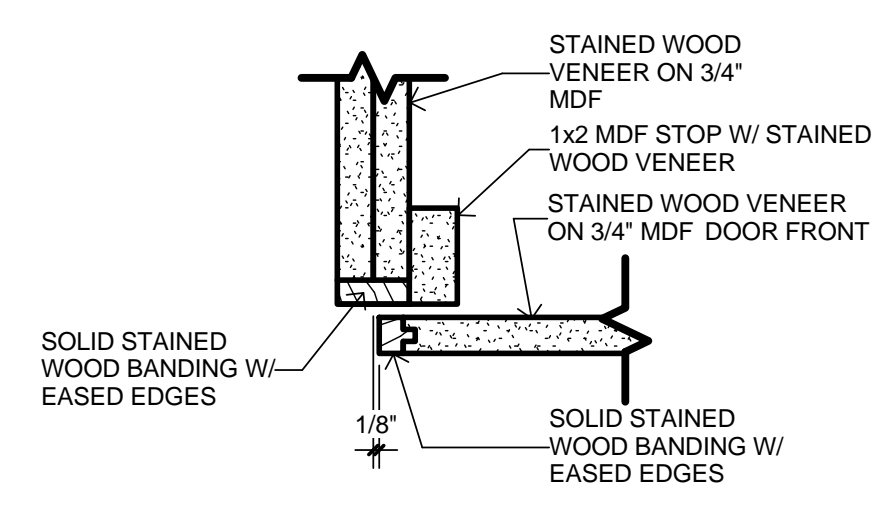
4 SECTION @ SHELVES
1" = 1'-0"



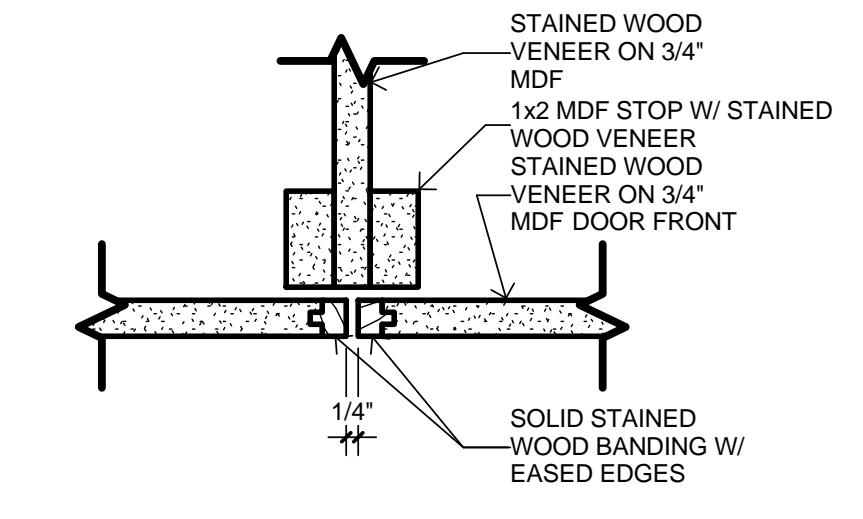
5 SECTION @ NIGHTSTAND
1" = 1'-0"



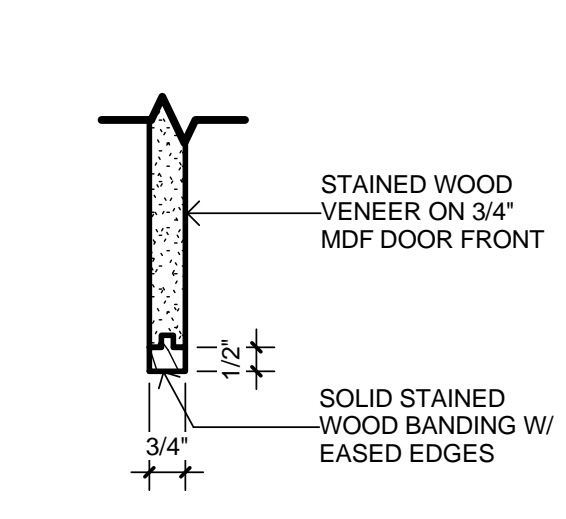
6 SECTION @ NIGHTSTAND
1" = 1'-0"



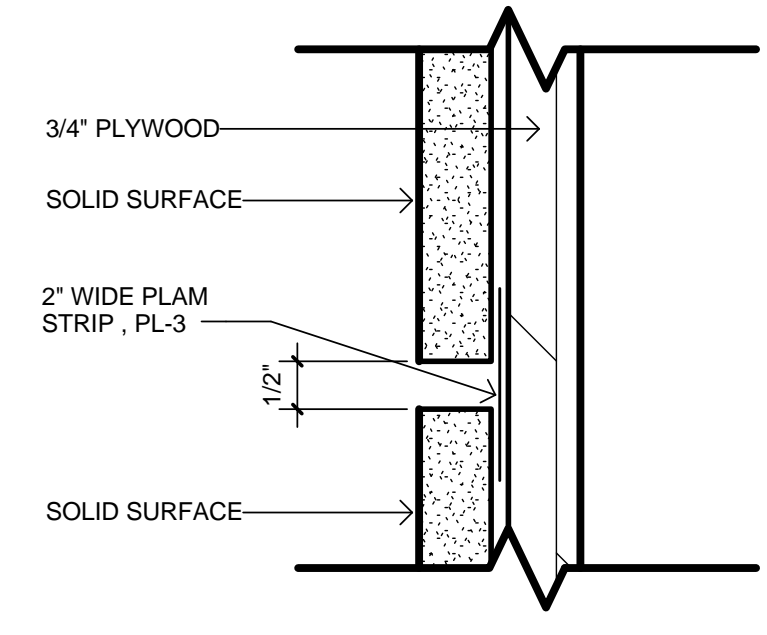
7 DETAIL @ CASEWORK EXPOSED END (TYP.)
3" = 1'-0"



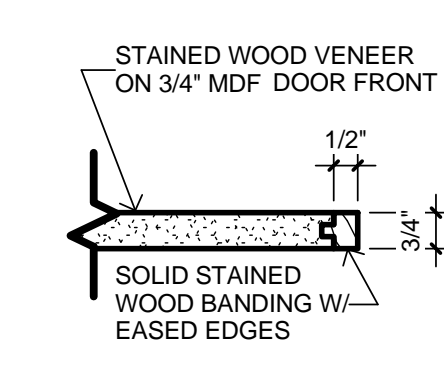
8 DETAIL @ CASEWORK JAMB (TYP.)
3" = 1'-0"



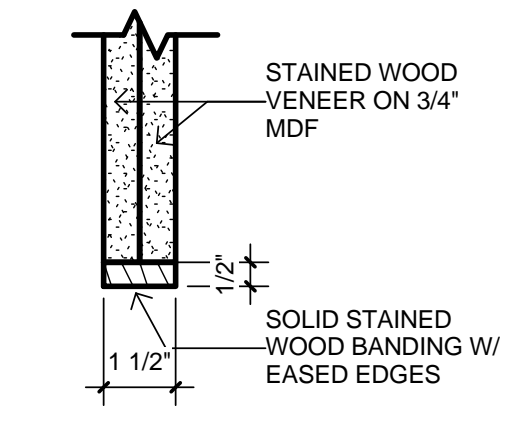
9 DETAIL @ DOOR/DRAWER EDGE (TYP.)
3" = 1'-0"



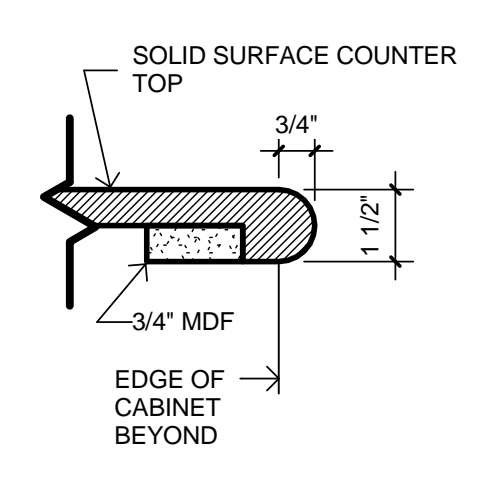
10 DETAIL @ PLAM REVEAL
6" = 1'-0"



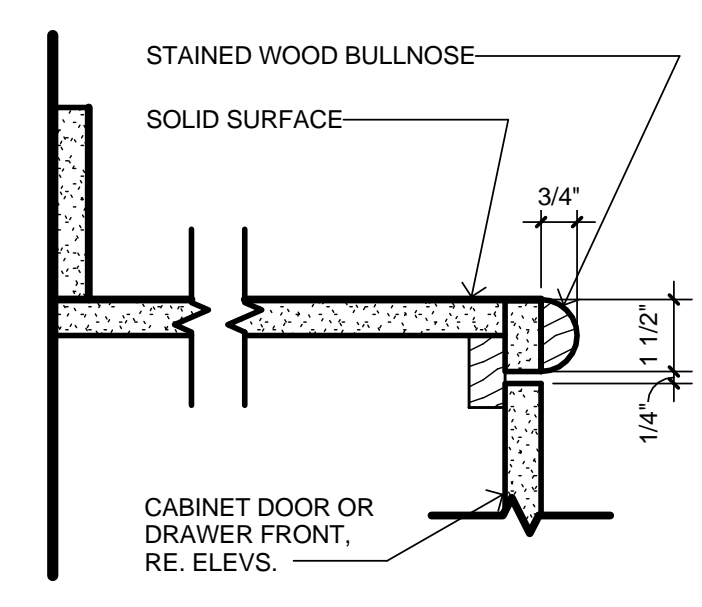
11 DETAIL @ SHELF EDGE (TYP.)
3" = 1'-0"



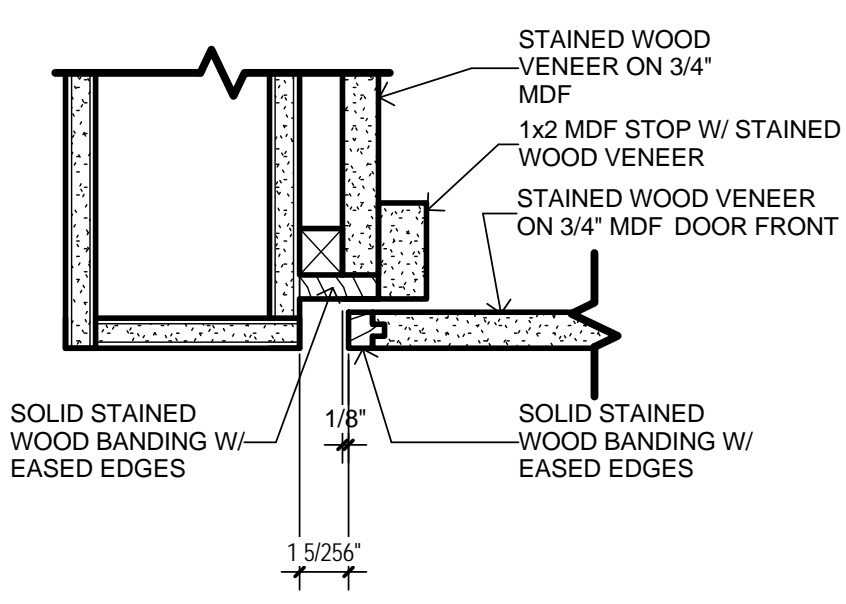
12 DETAIL @ SHELF FRONT (TYP.)
3" = 1'-0"



13 DETAIL @ SSF COUNTER TOP EDGE (TYP.)
3" = 1'-0"



14 PLAM COUNTER TOP EDGE DETAIL (TYP.)
3" = 1'-0"



15 DETAIL @ CASEWORK JAMB AT WALL (TYP.)
3" = 1'-0"

Original Issue Date: 04/01/14
Revisions:

LUCAS CENTRAL FS
165 COUNTRY CLUB ROAD LUCAS, TX 75002

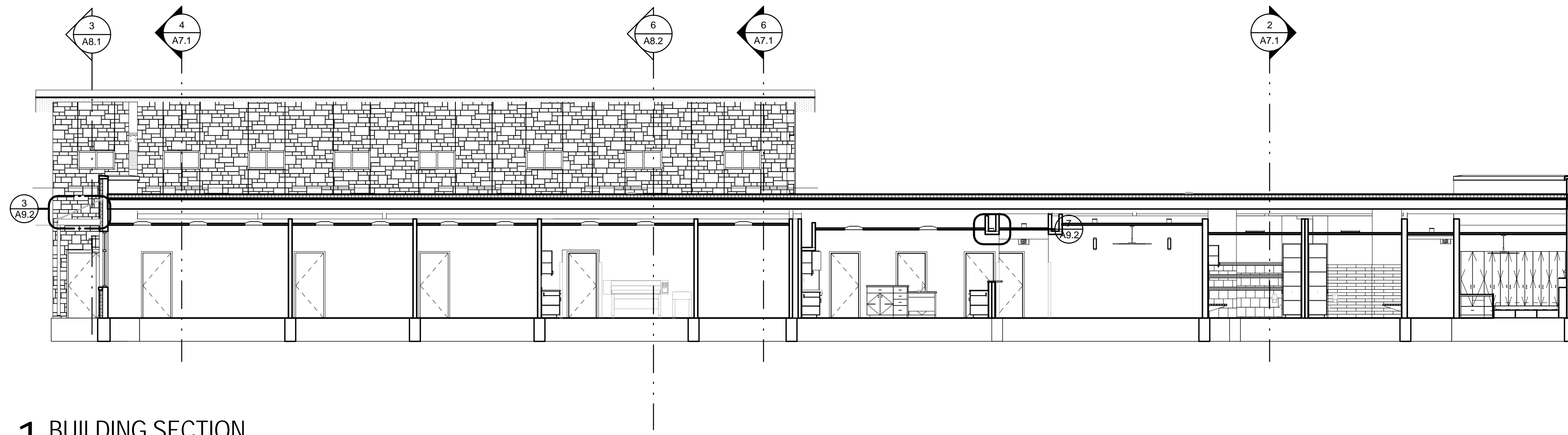
WINGTON HOOKER JEFFREY P.C. ARCHITECTS
500 N. Central Expressway Suite 300
Plano, Texas 75074
P: 972.465.0057
F: 972.465.0058

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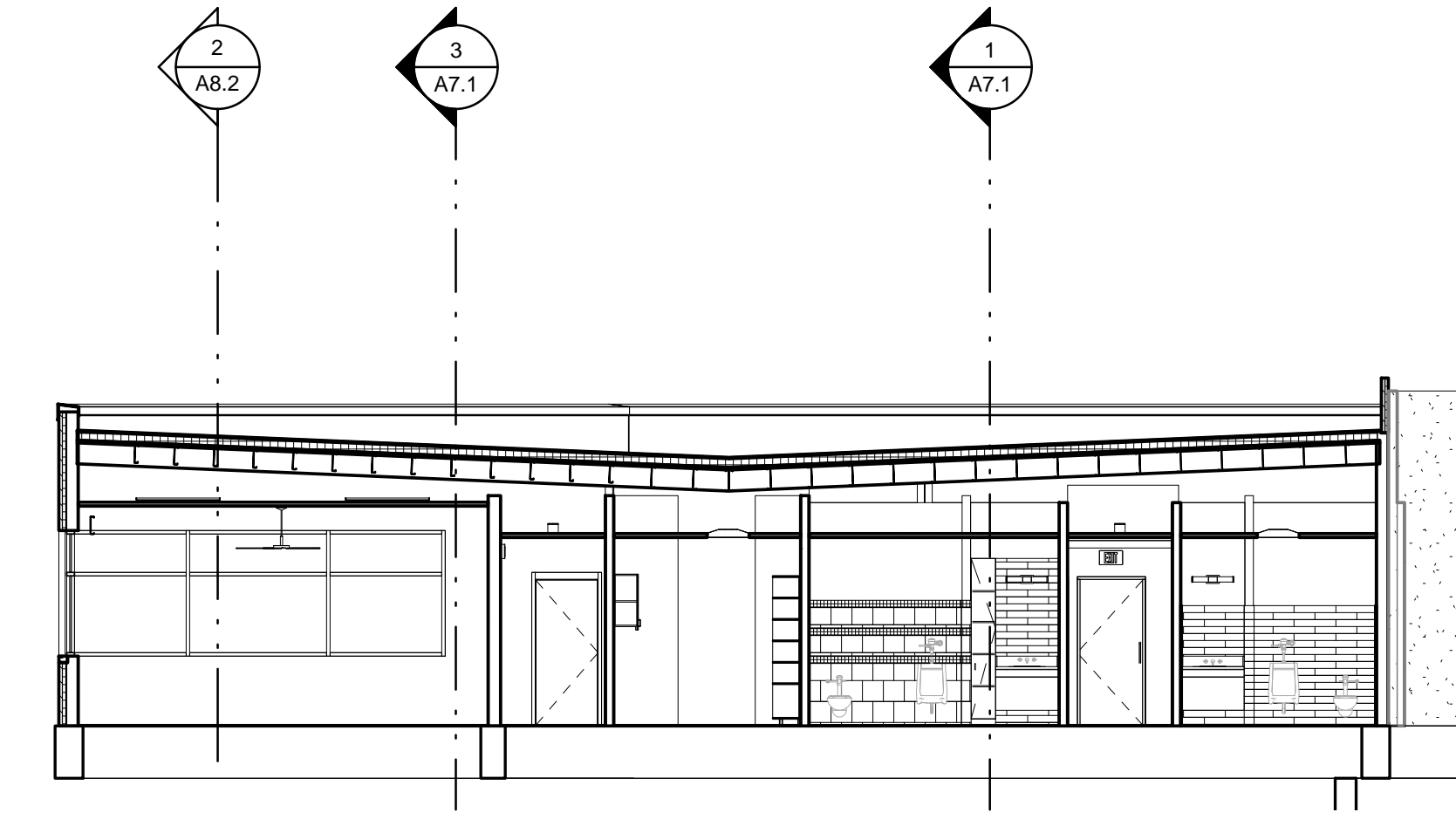
ANTHONY JEFFREY
TEXAS REGISTRATION NO. 12911
DATE:

Job No.
1215

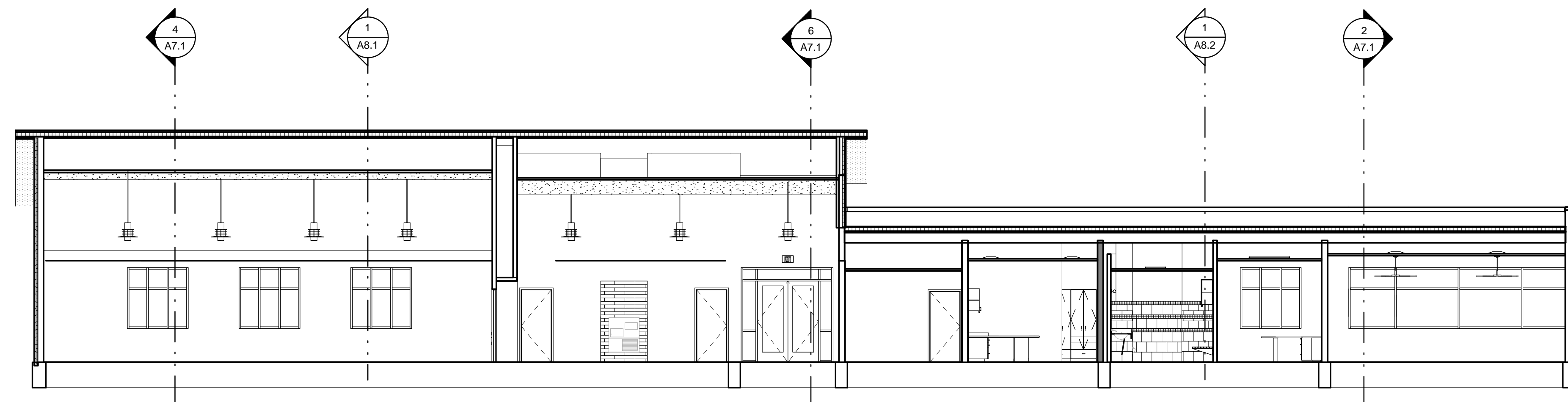
Sheet No.
A6.5
MILLWORK SECTIONS & DETAILS



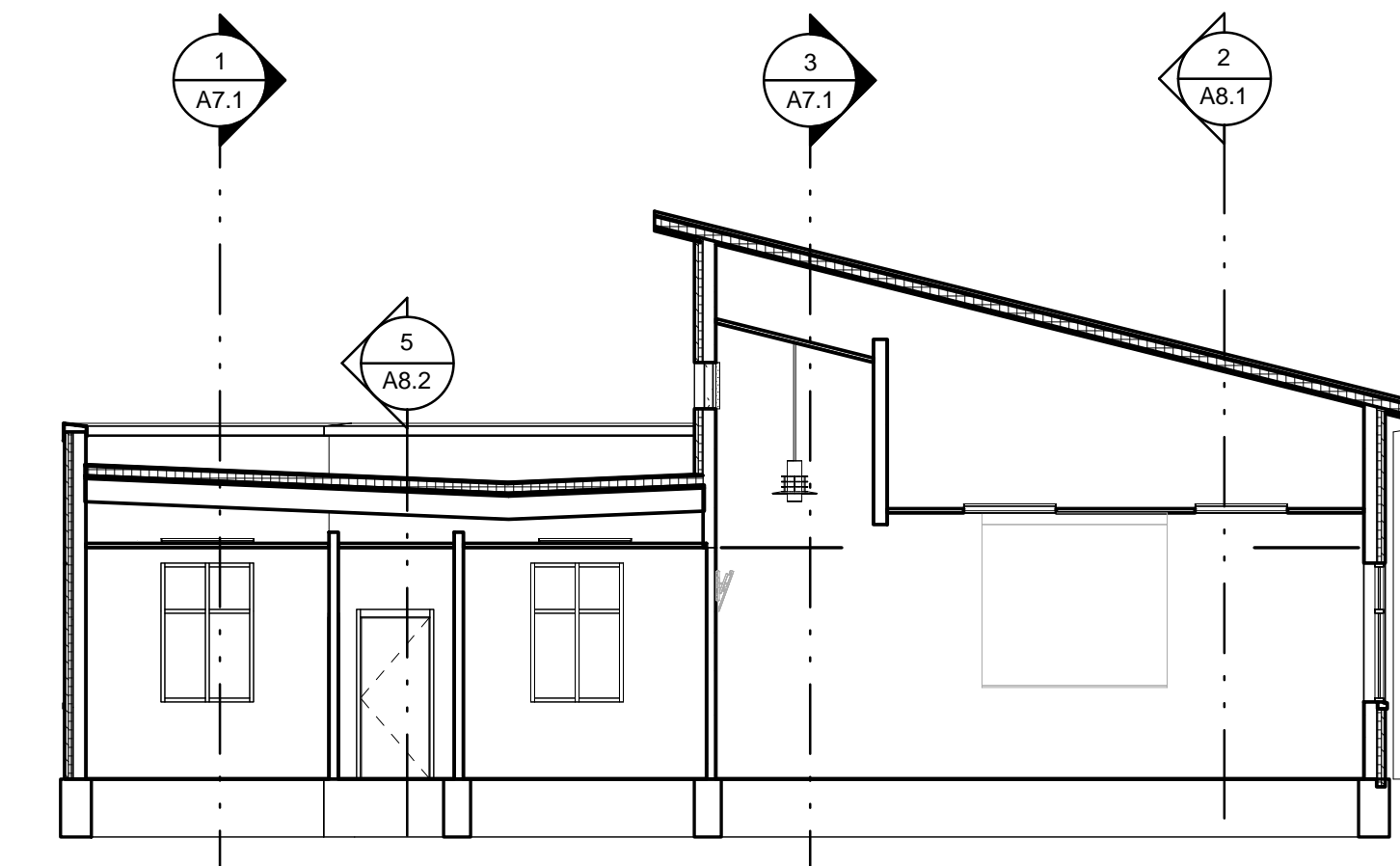
1 BUILDING SECTION
1/8" = 1'-0"



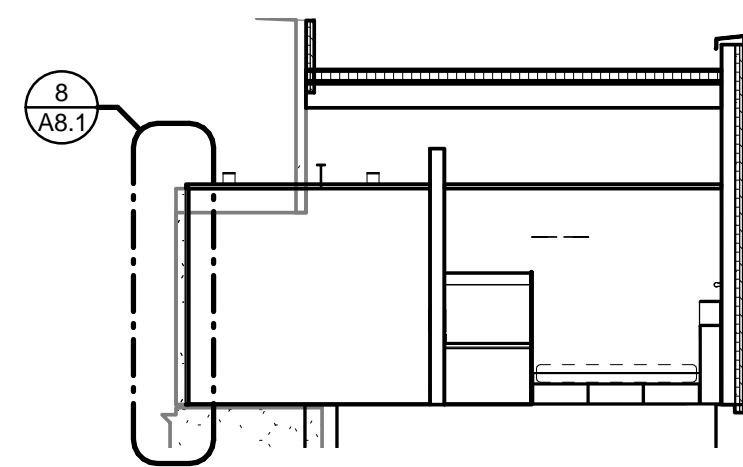
2 SECT - BLDG - EW THRU TOILET
1/8" = 1'-0"



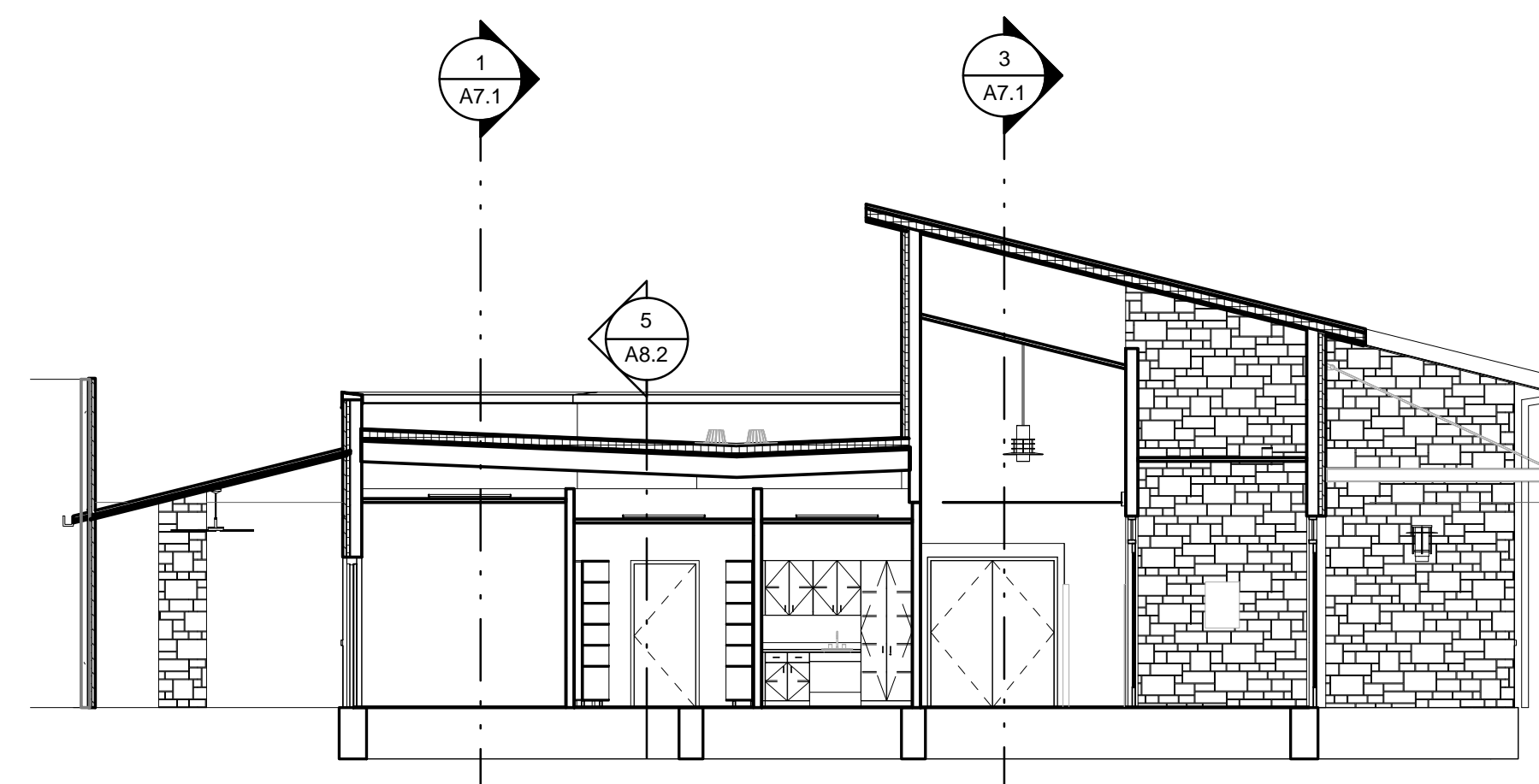
3 BUILDING SECTION
1/8" = 1'-0"



4 BUILDING SECTION
1/8" = 1'-0"



5 BUILDING SECTION
1/8" = 1'-0"

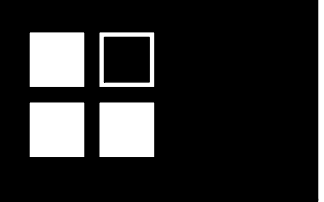


6 BUILDING SECTION
1/8" = 1'-0"

Original Issue Date: 04/01/14
Revisions:

LUCAS CENTRAL FS
165 COUNTRY CLUB ROAD LUCAS, TX 75002

WINGTON HOOKER JEFFREY P.C.
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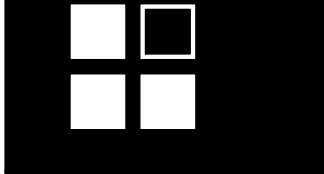


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ANTHONY JEFFREY
TEXAS REGISTRATION NO. 12911
DATE:

Job No.
1215

Sheet No.
A7.1
BUILDING SECTIONS

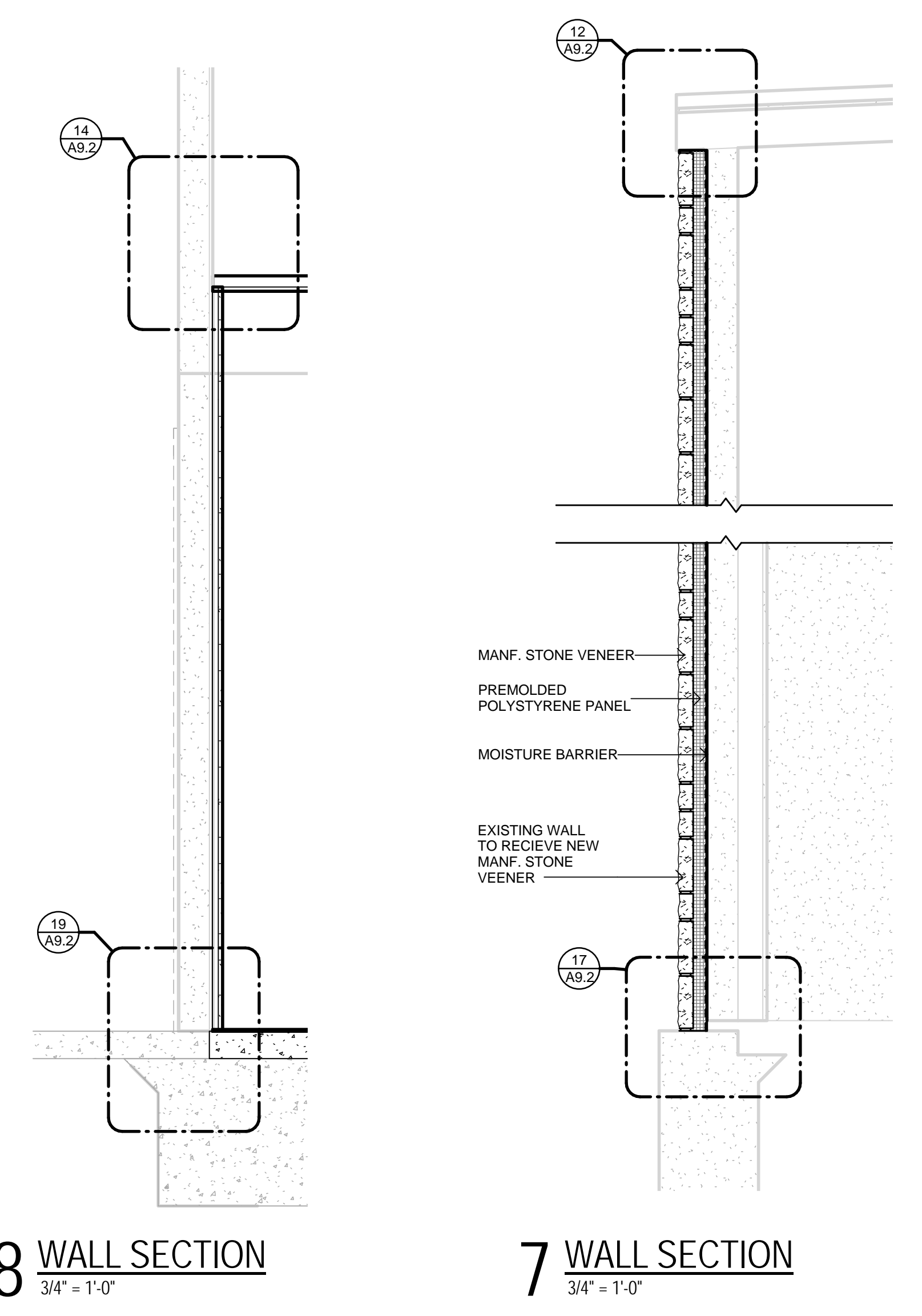


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NOT INTENDED FOR BIDDING. PERMIT OR CONSTRUCTION NOT PERMITTED.
 ANTHONY JEFFREY
 TEXAS REGISTRATION NO. 12901
 DATE:

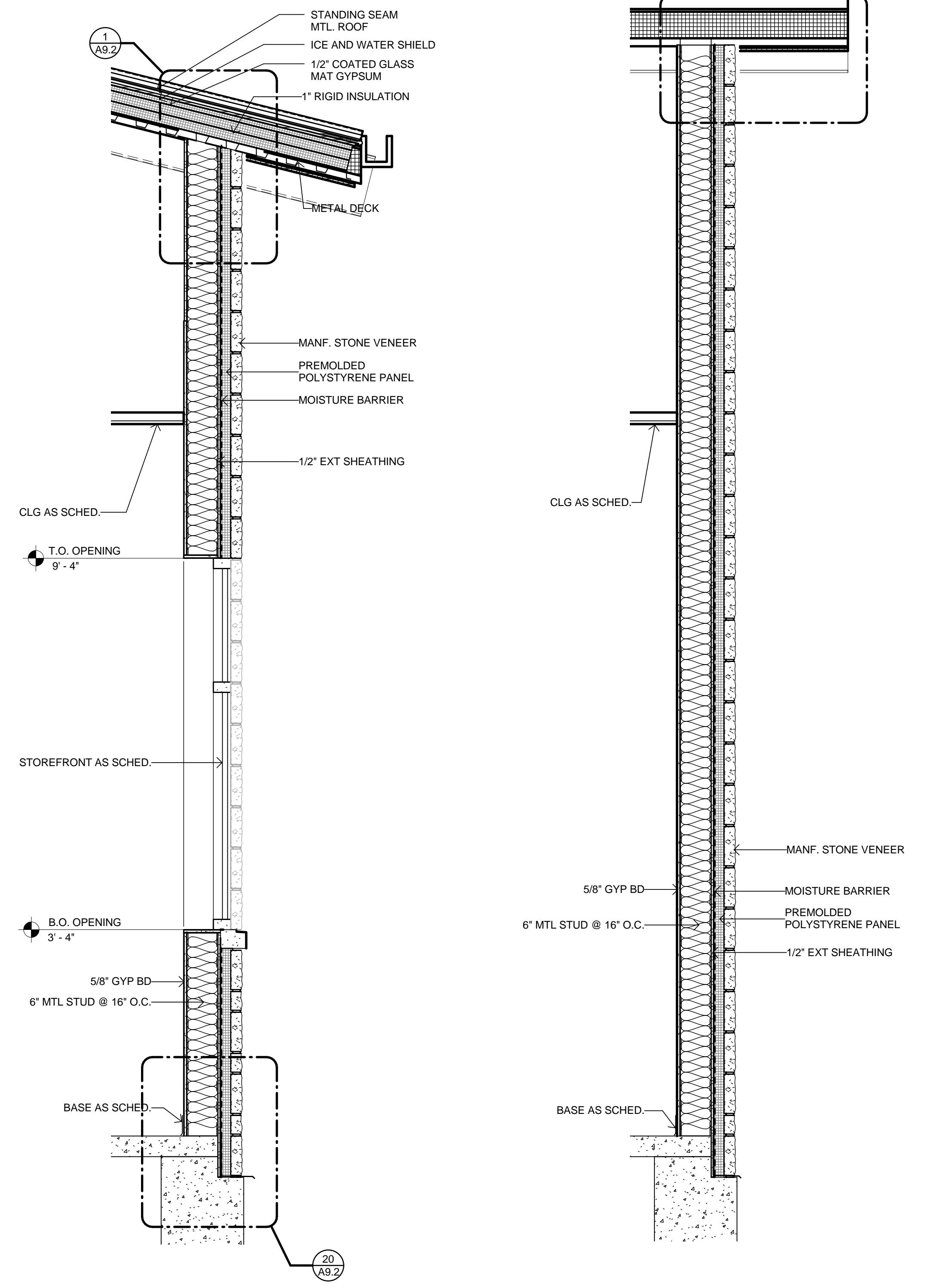
Job No.
1215

Sheet No.
A8.1
 WALL SECTIONS



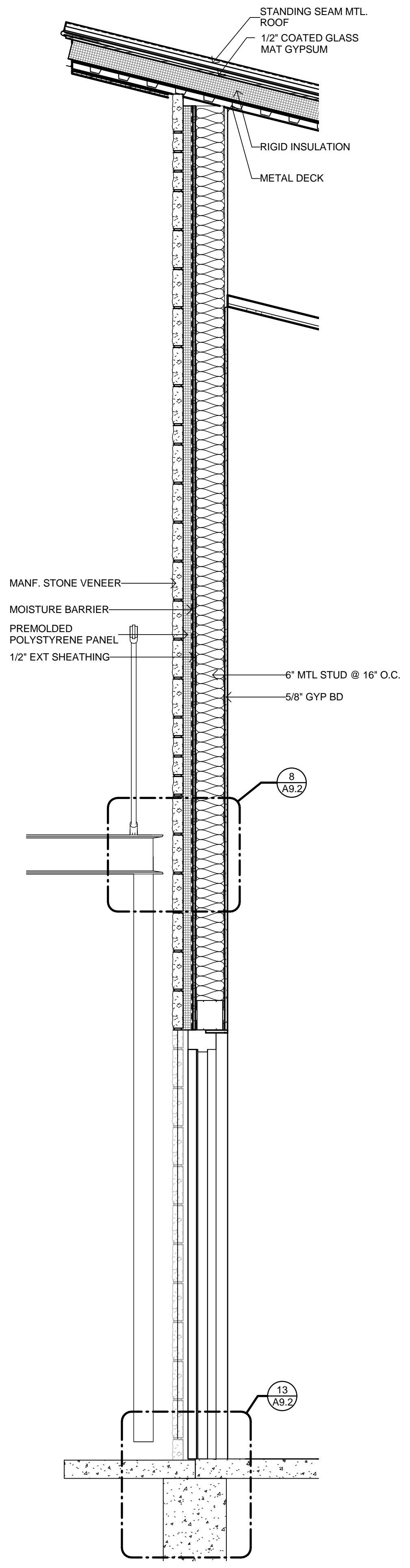
8 WALL SECTION
 3/4" = 1'-0"

7 WALL SECTION
 3/4" = 1'-0"

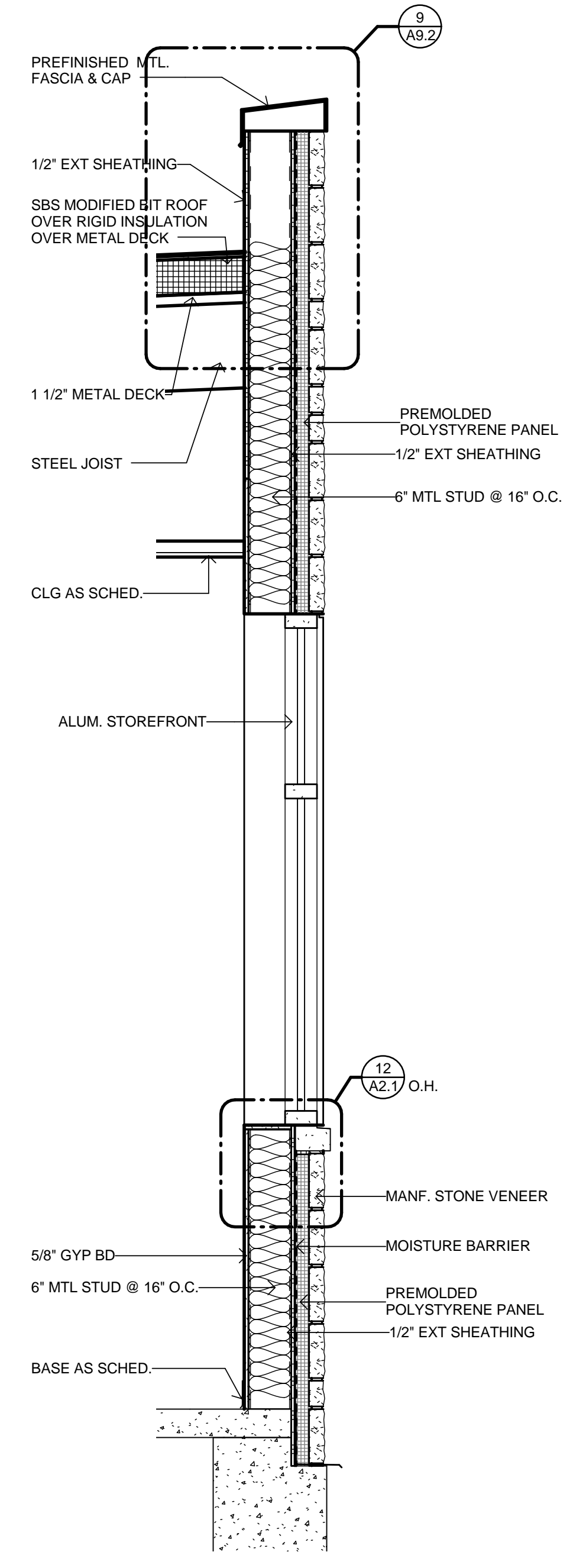


1 WALL SECTION
 3/4" = 1'-0"

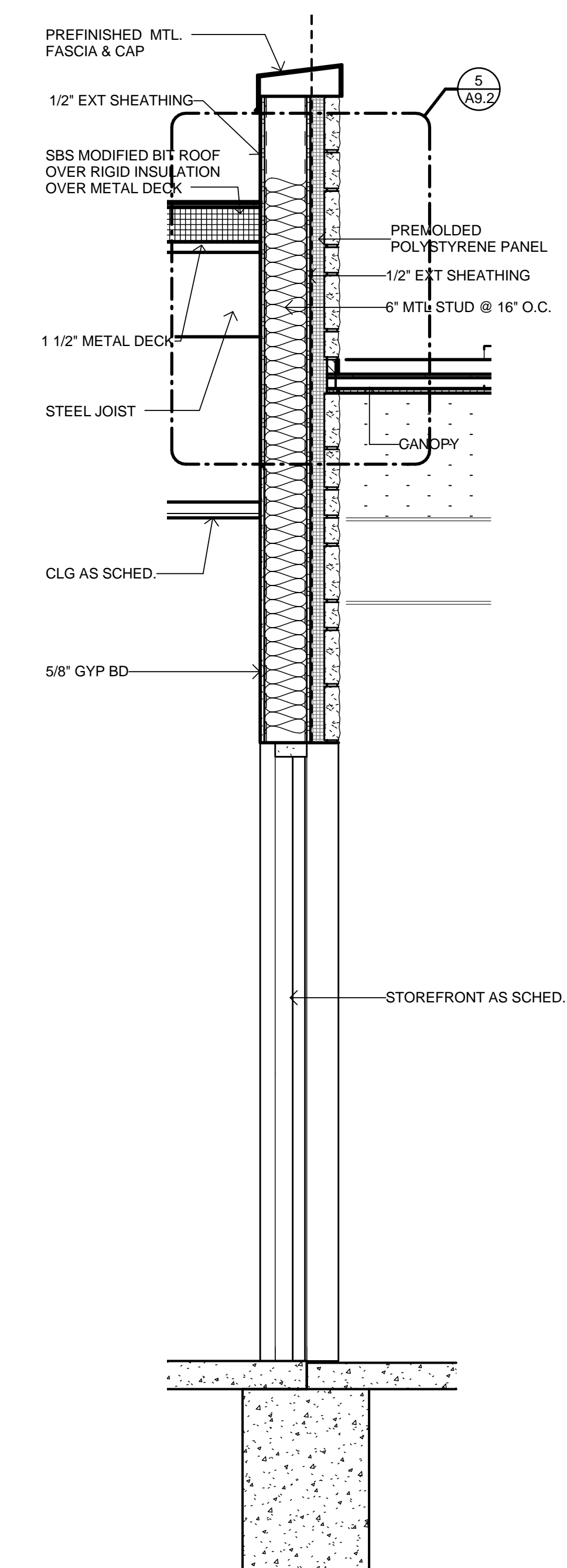
2 WALL SECTION
 3/4" = 1'-0"



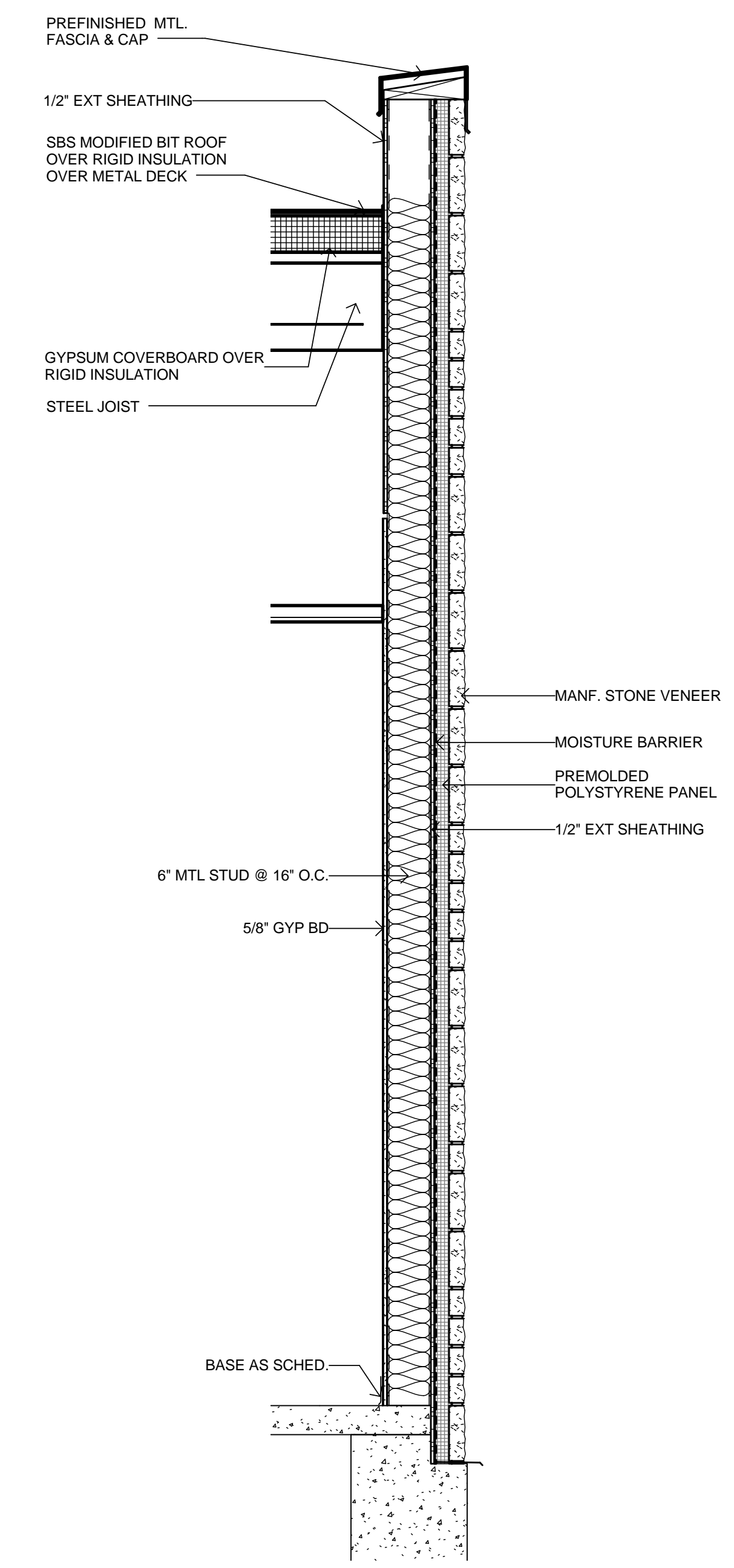
3 WALL SECTION
 3/4" = 1'-0"



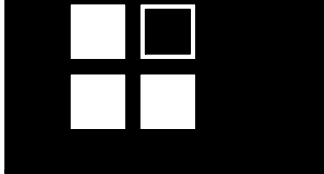
4 WALL SECTION
 3/4" = 1'-0"



5 WALL SECTION
 3/4" = 1'-0"



6 WALL SECTION
 3/4" = 1'-0"

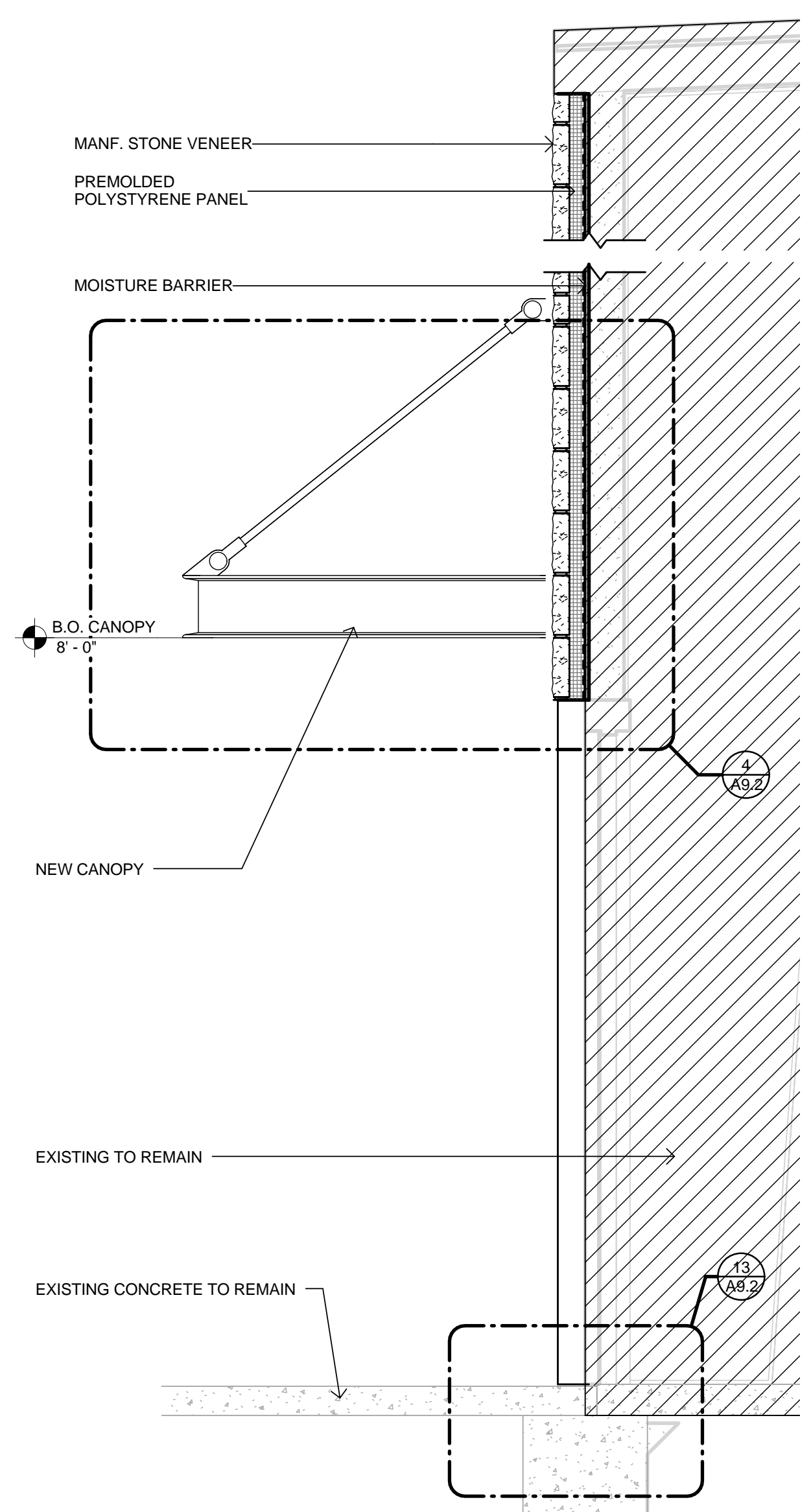


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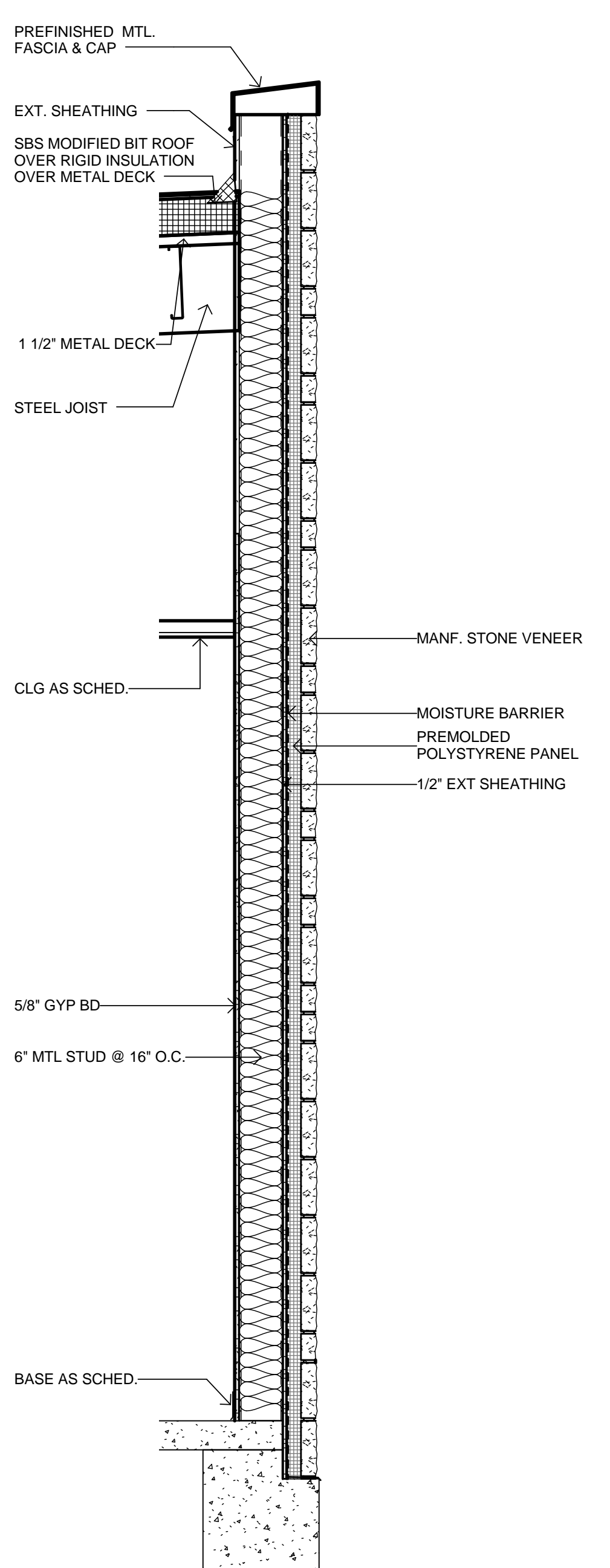
NOT INTENDED FOR BIDDING, PERMIT OR CONSTRUCTION (UNLESS APPROVED)
 ANTHONY JEFFREY
 TEXAS REGISTRATION NO. 12901
 DATE:

Job No.
1215

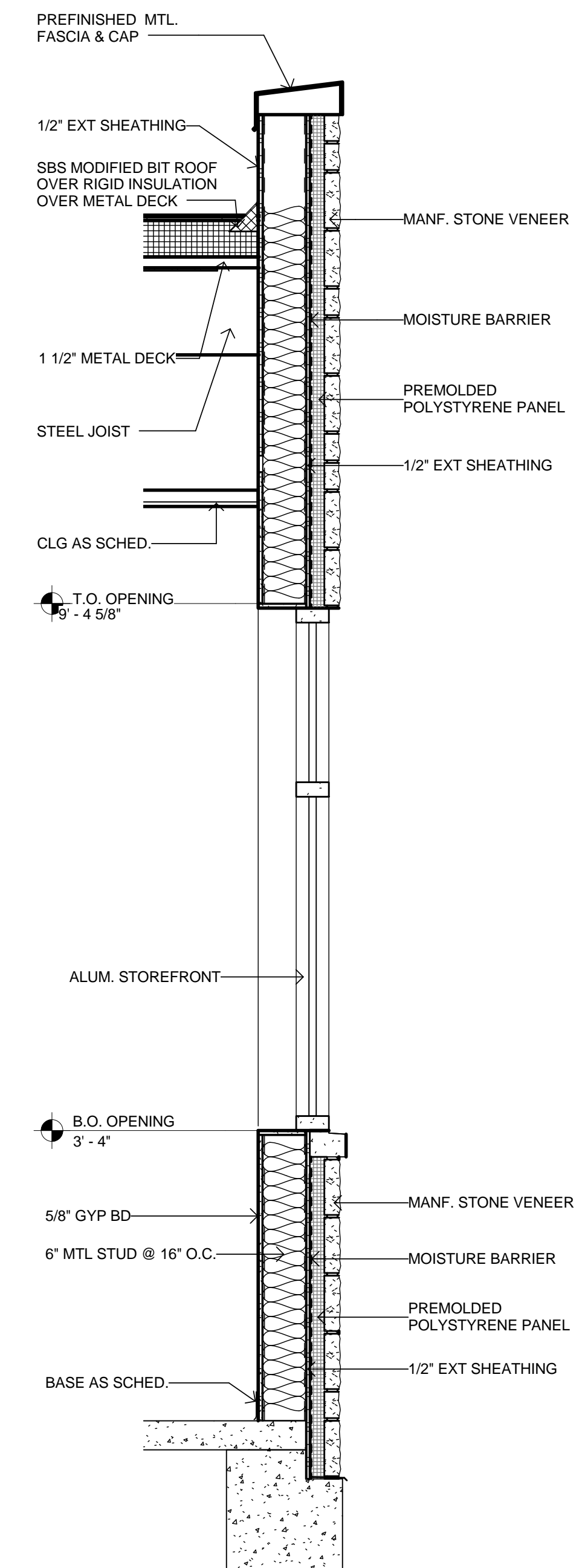
Sheet No.
A8.2
 WALL SECTIONS



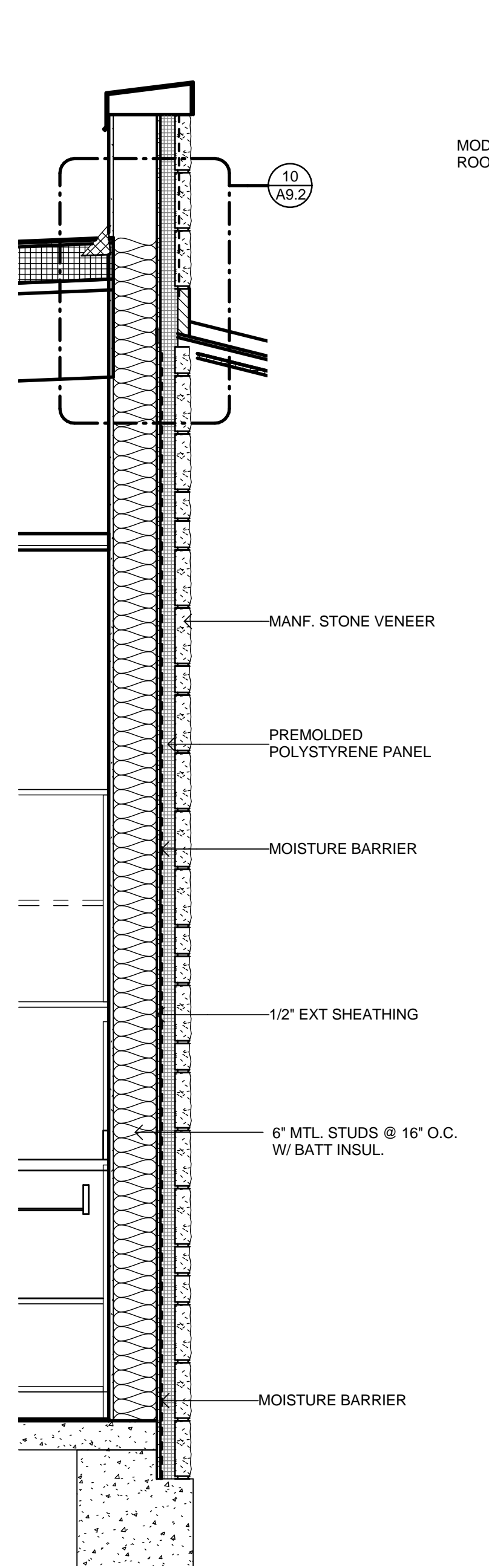
7 WALL SECTION
 3/4" = 1'-0"



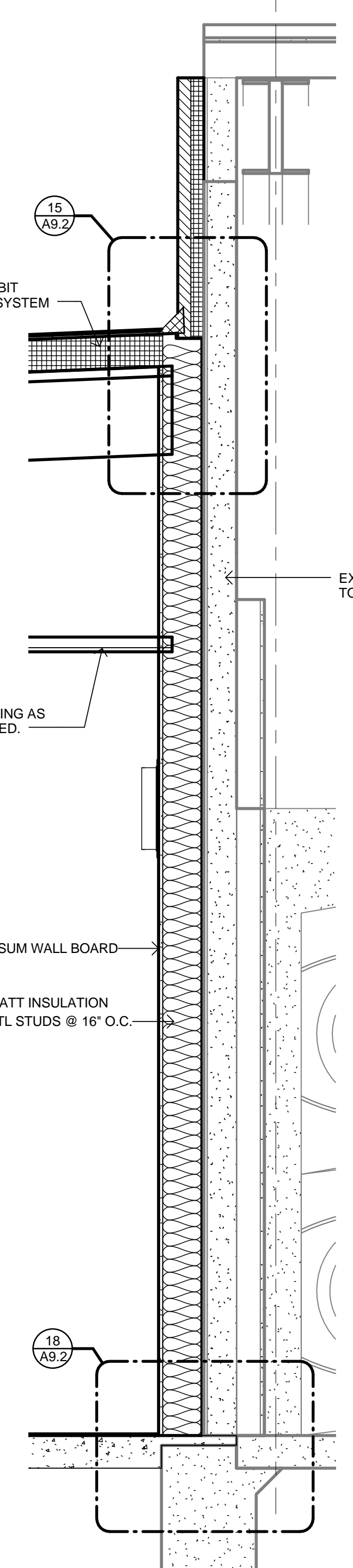
1 WALL SECTION
 3/4" = 1'-0"



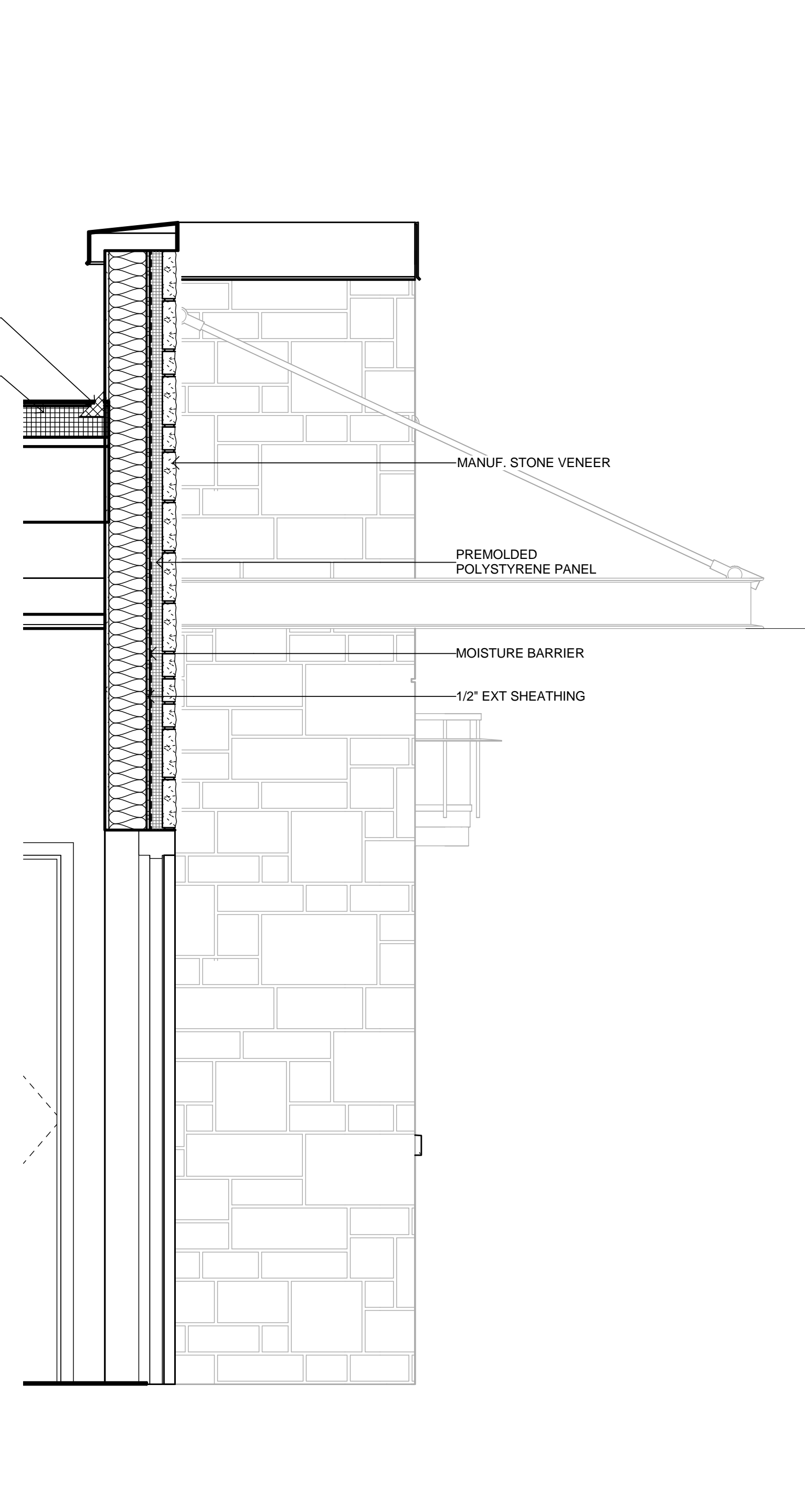
2 WALL SECTION
 3/4" = 1'-0"



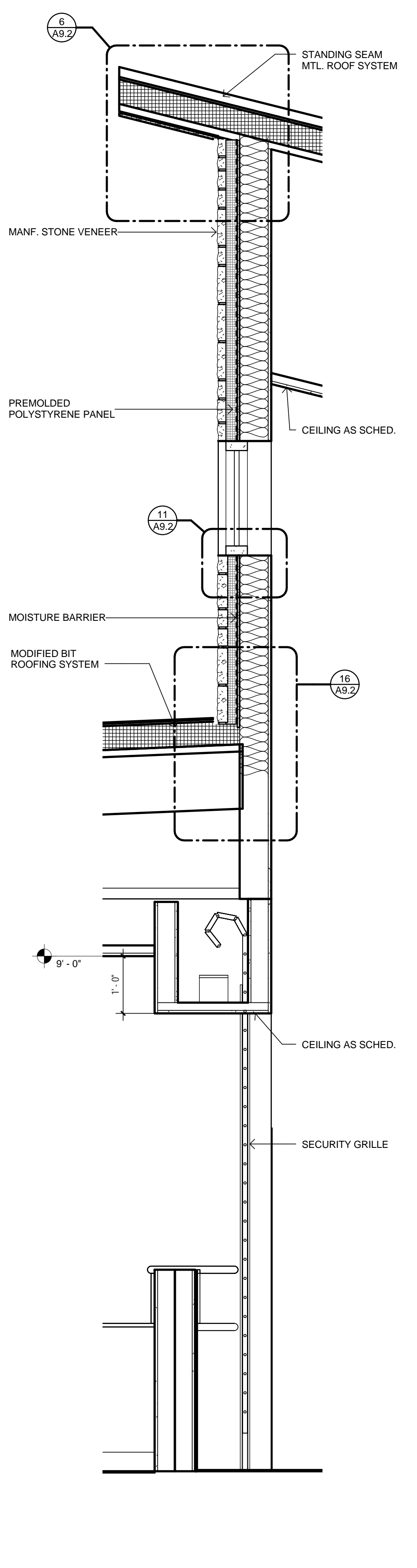
3 WALL SECTION
 3/4" = 1'-0"



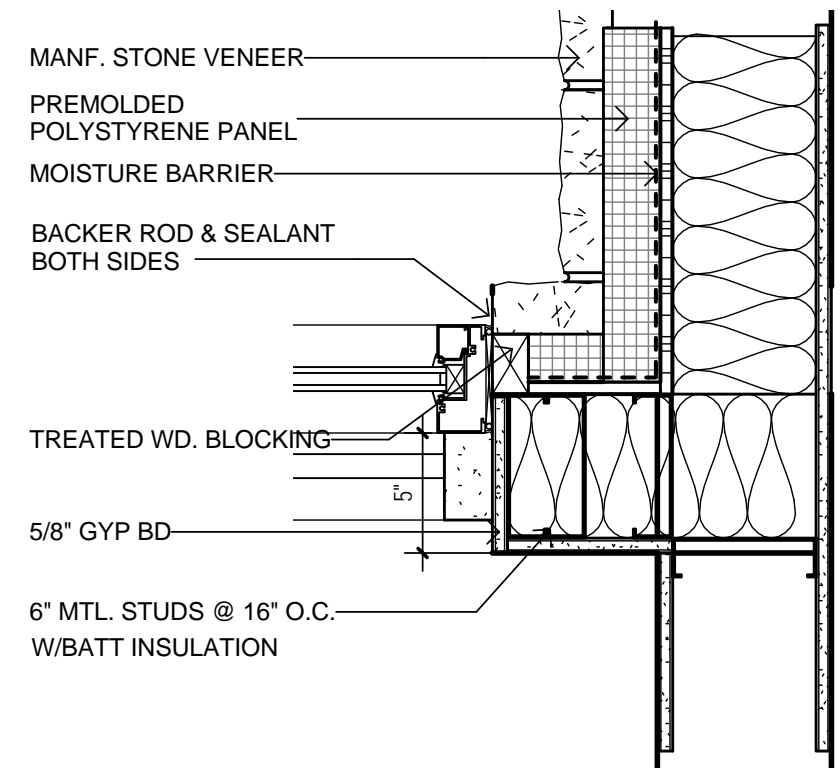
4 WALL SECTION
 3/4" = 1'-0"



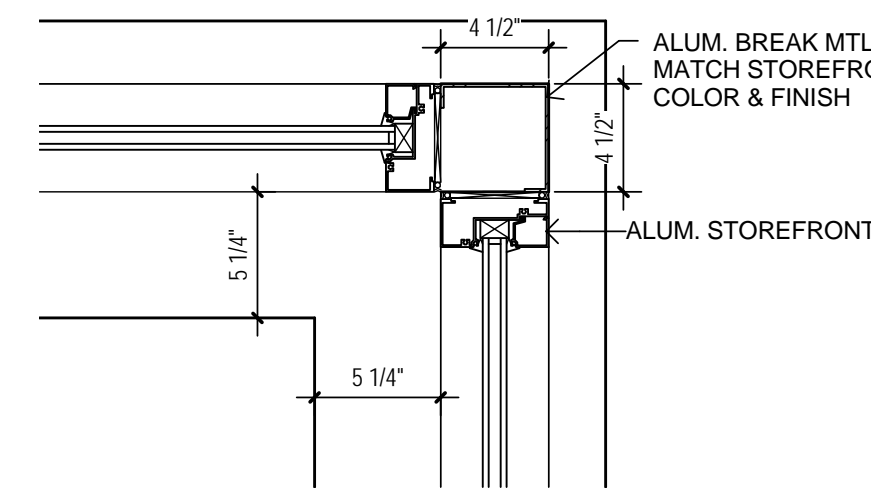
5 WALL SECTION
 3/4" = 1'-0"



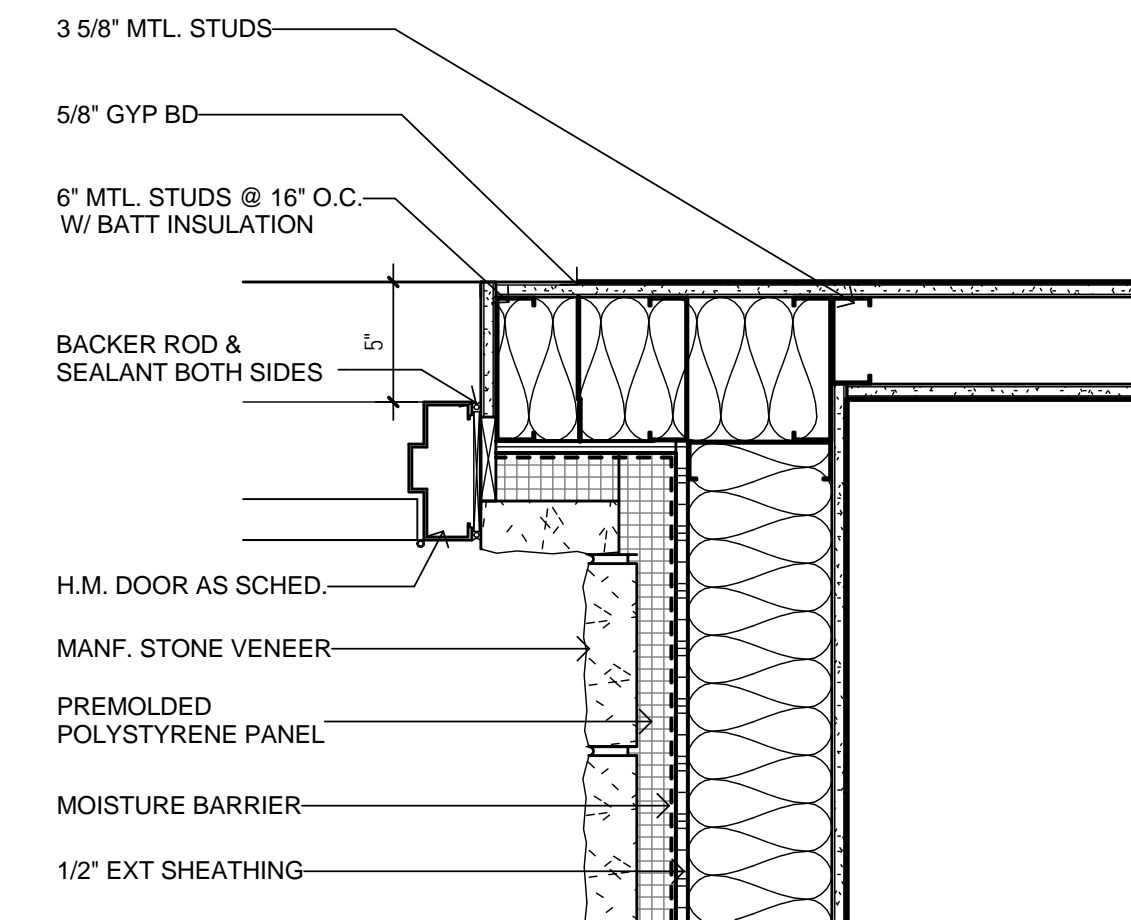
6 WALL SECTION
 3/4" = 1'-0"



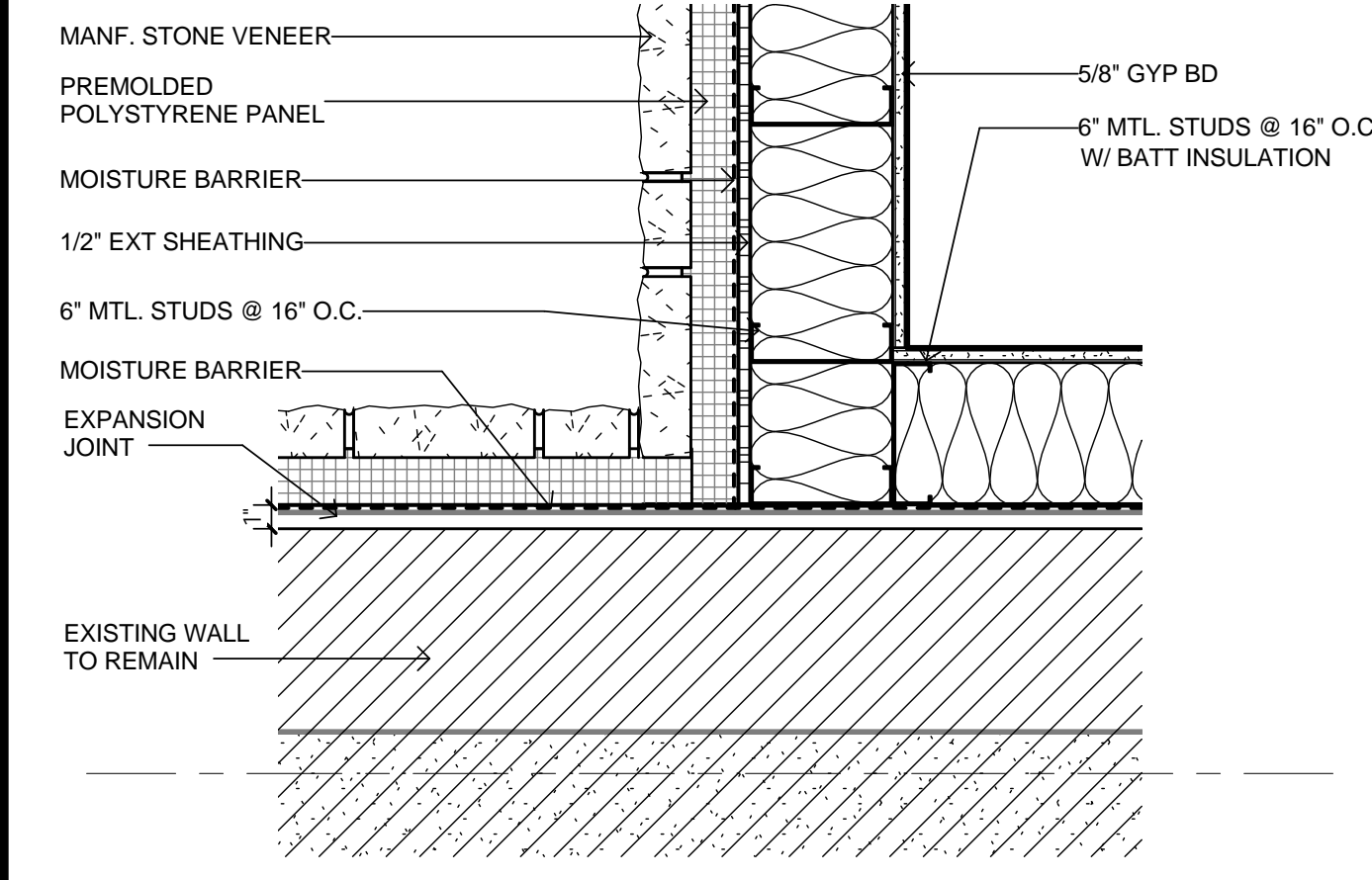
1 Detail 24
1 1/2" = 1'-0"



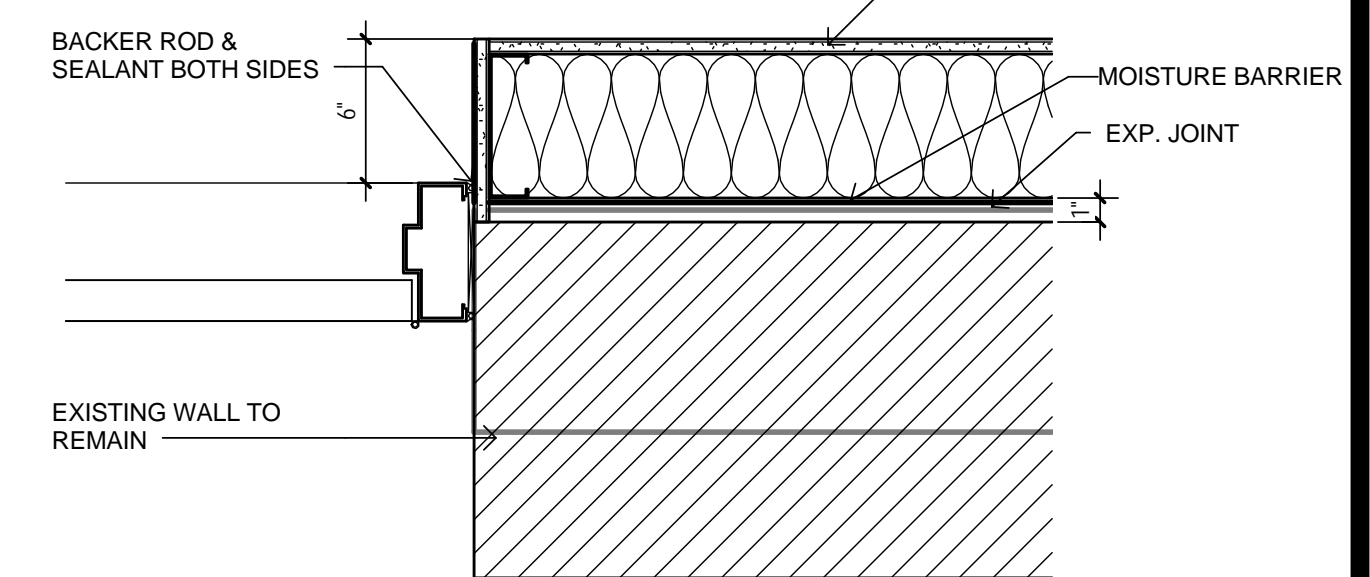
2 Detail 25
1 1/2" = 1'-0"



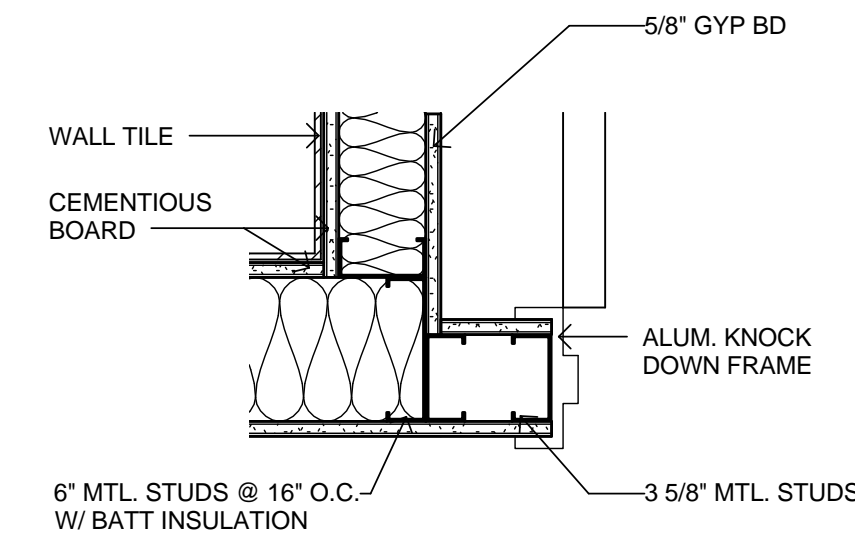
3 Detail 26
1 1/2" = 1'-0"



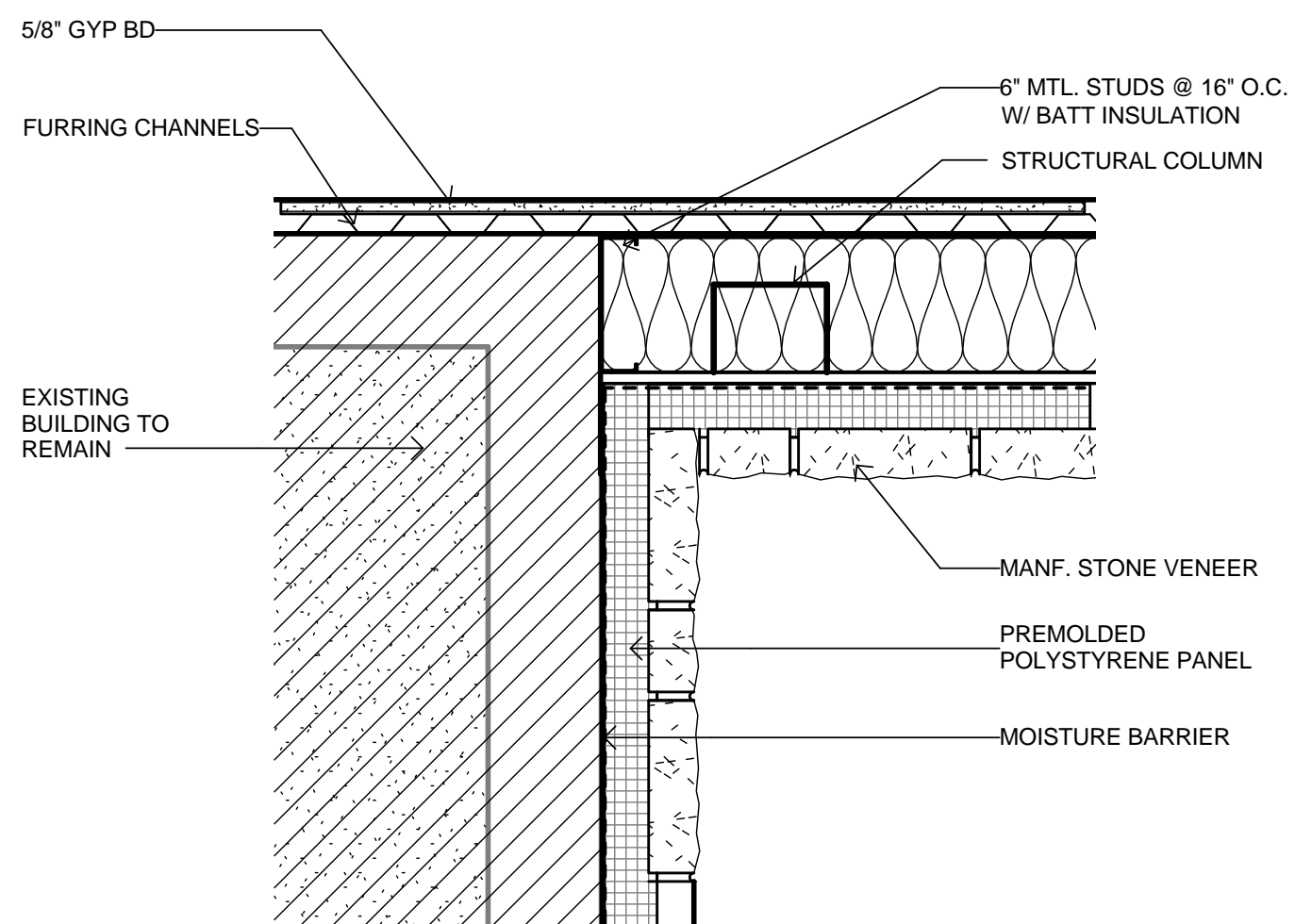
4 Detail 27
1 1/2" = 1'-0"



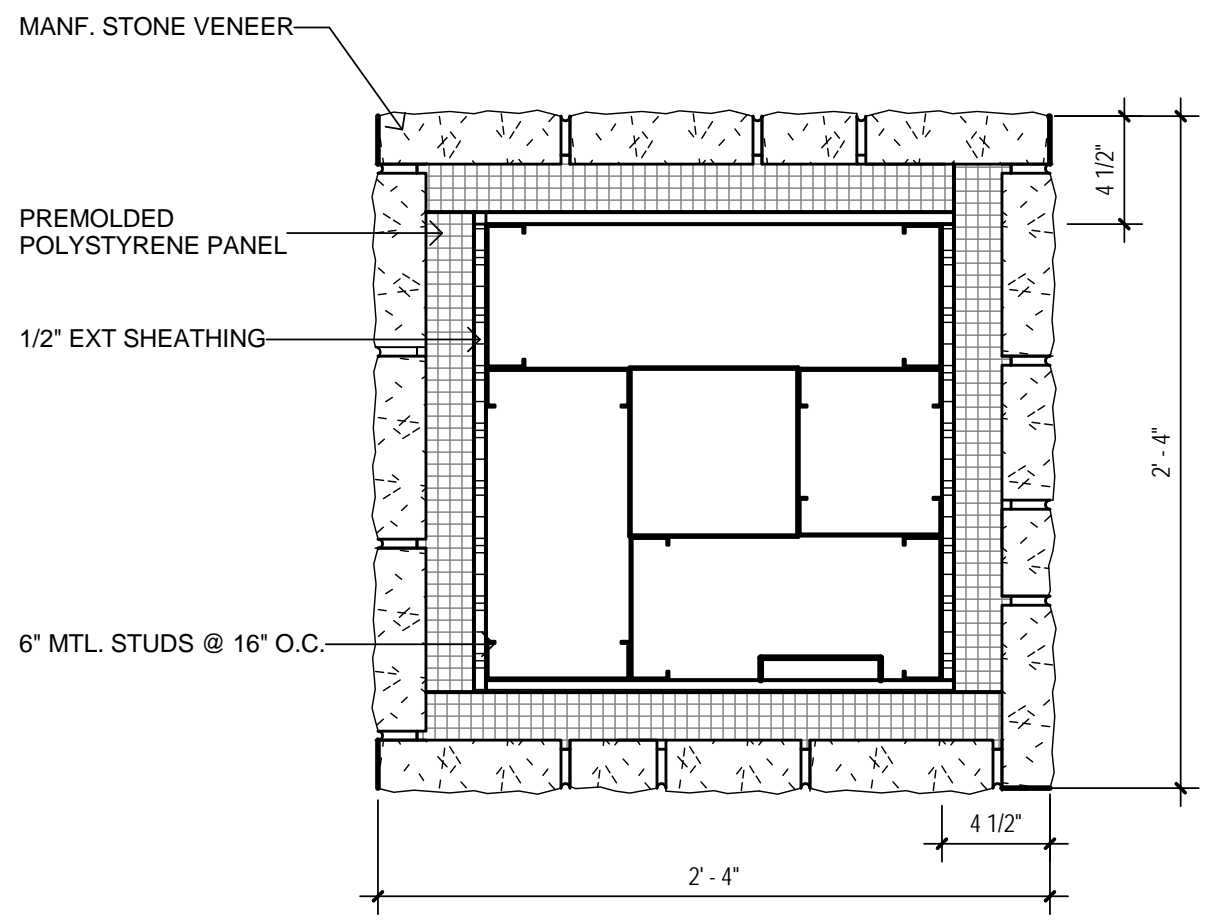
5 Detail 28
1 1/2" = 1'-0"



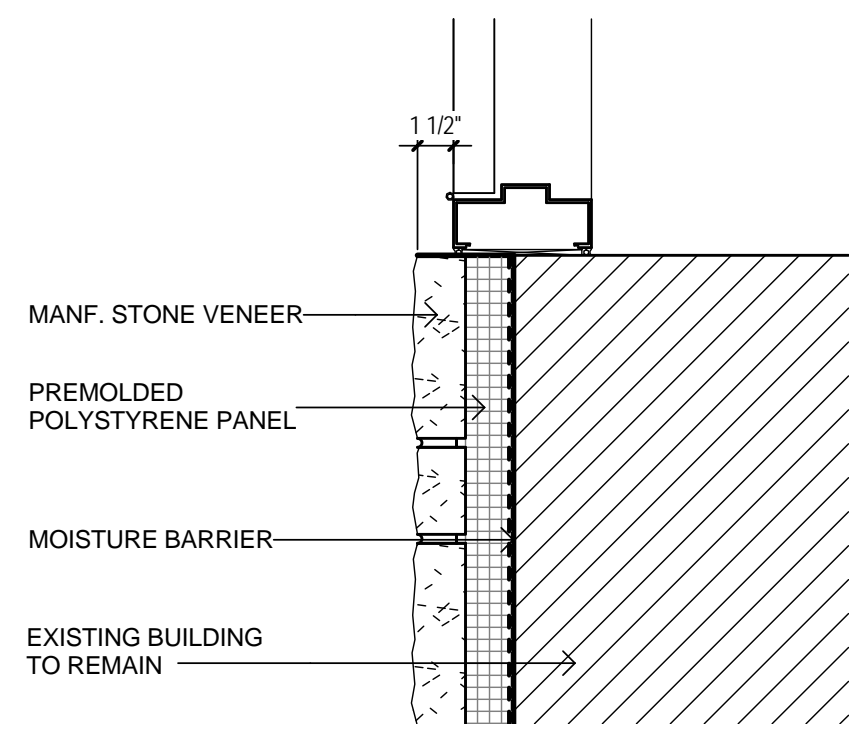
6 Detail 29
1 1/2" = 1'-0"



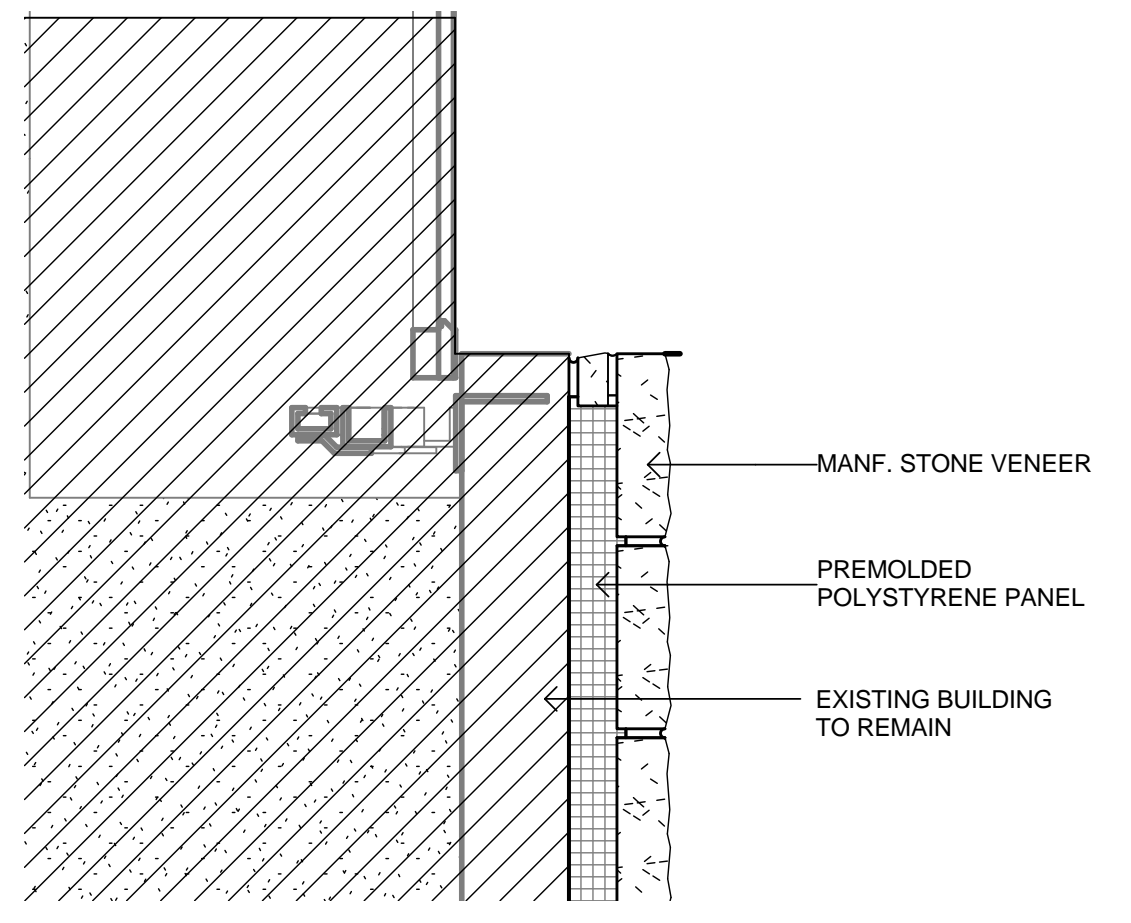
7 Detail 30
1 1/2" = 1'-0"



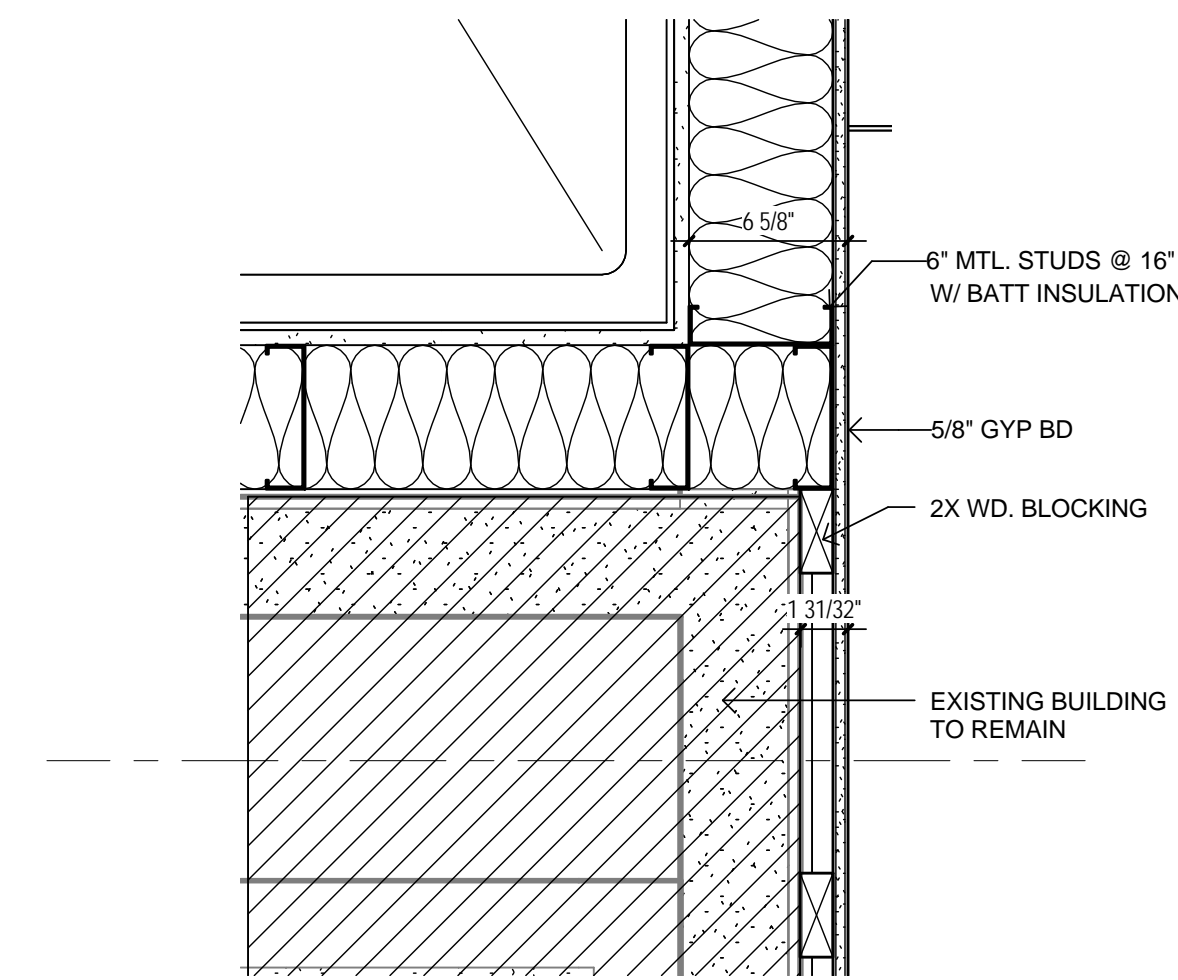
8 Detail 31
1 1/2" = 1'-0"



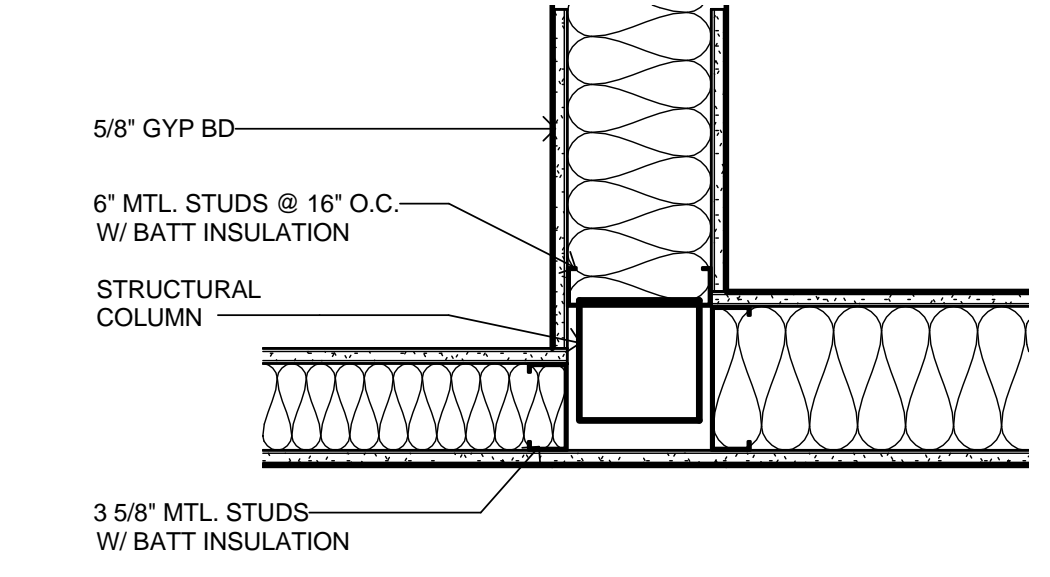
9 Detail 32
1 1/2" = 1'-0"



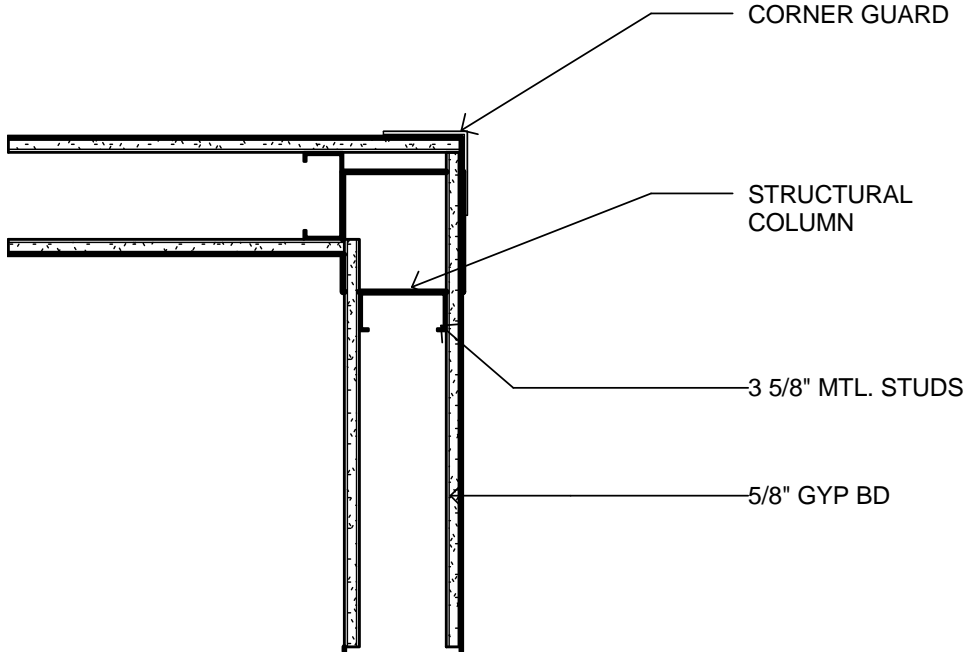
10 Detail 33
1 1/2" = 1'-0"



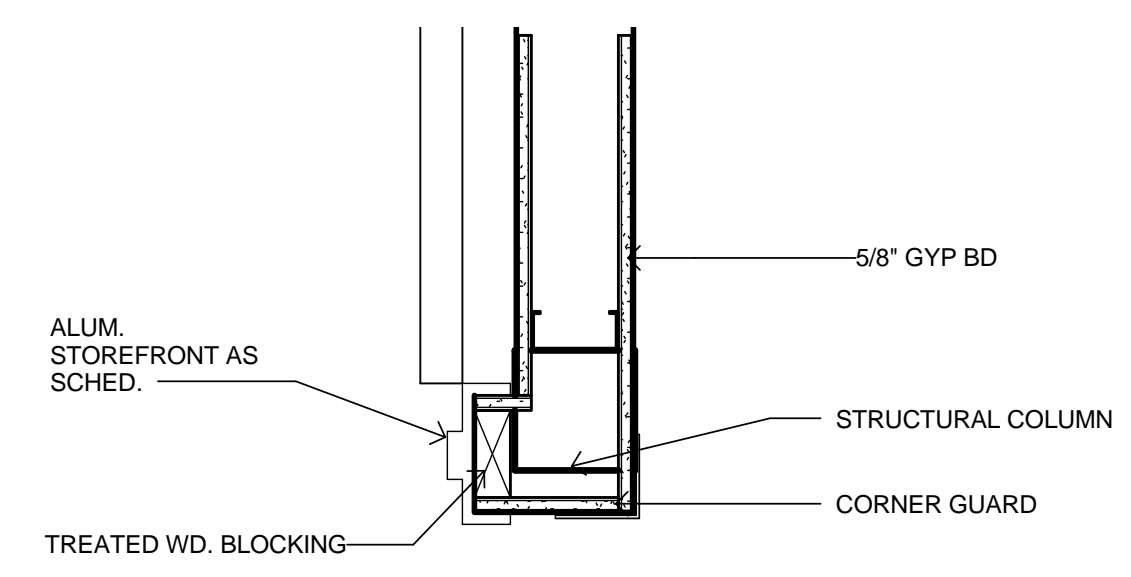
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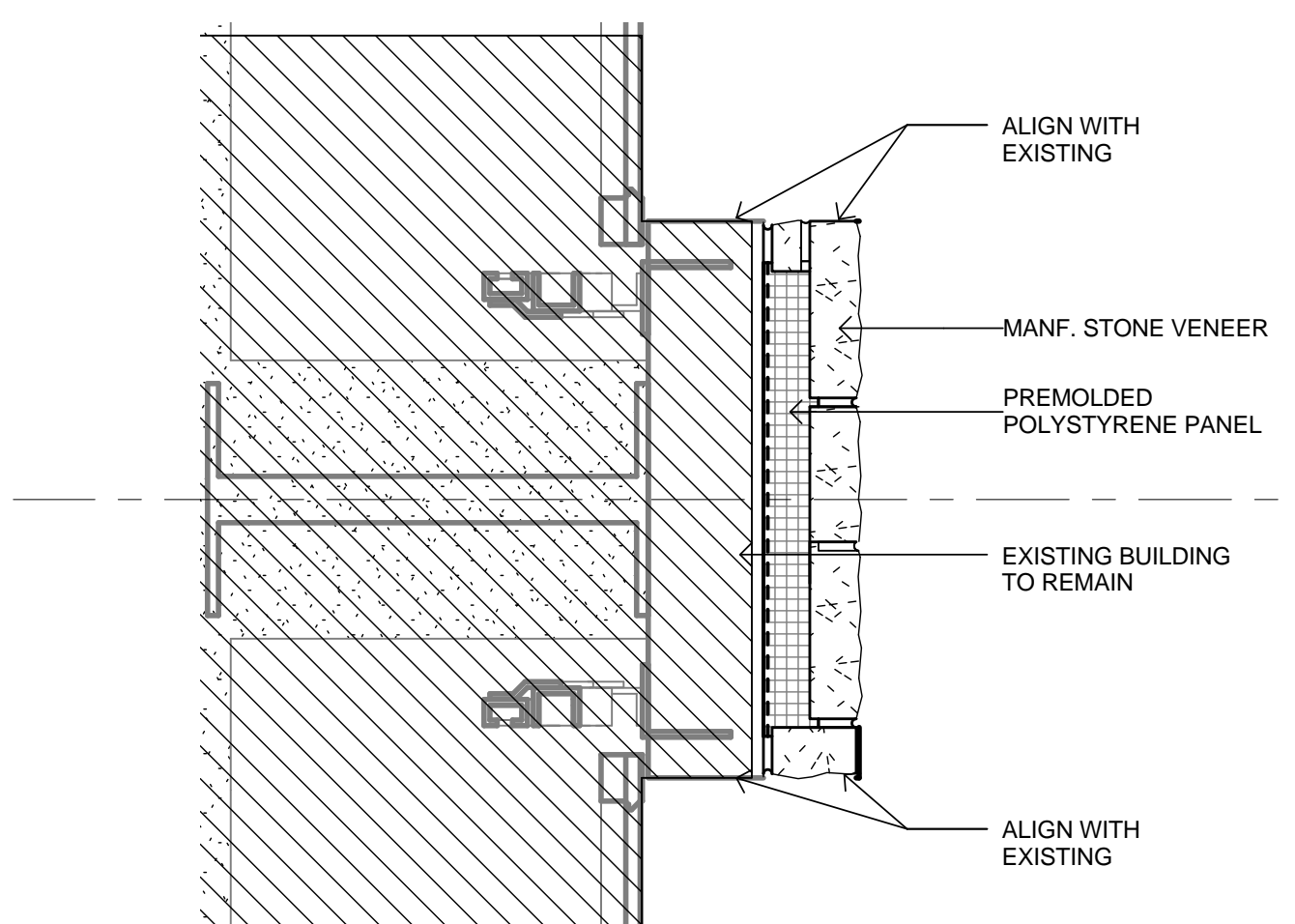
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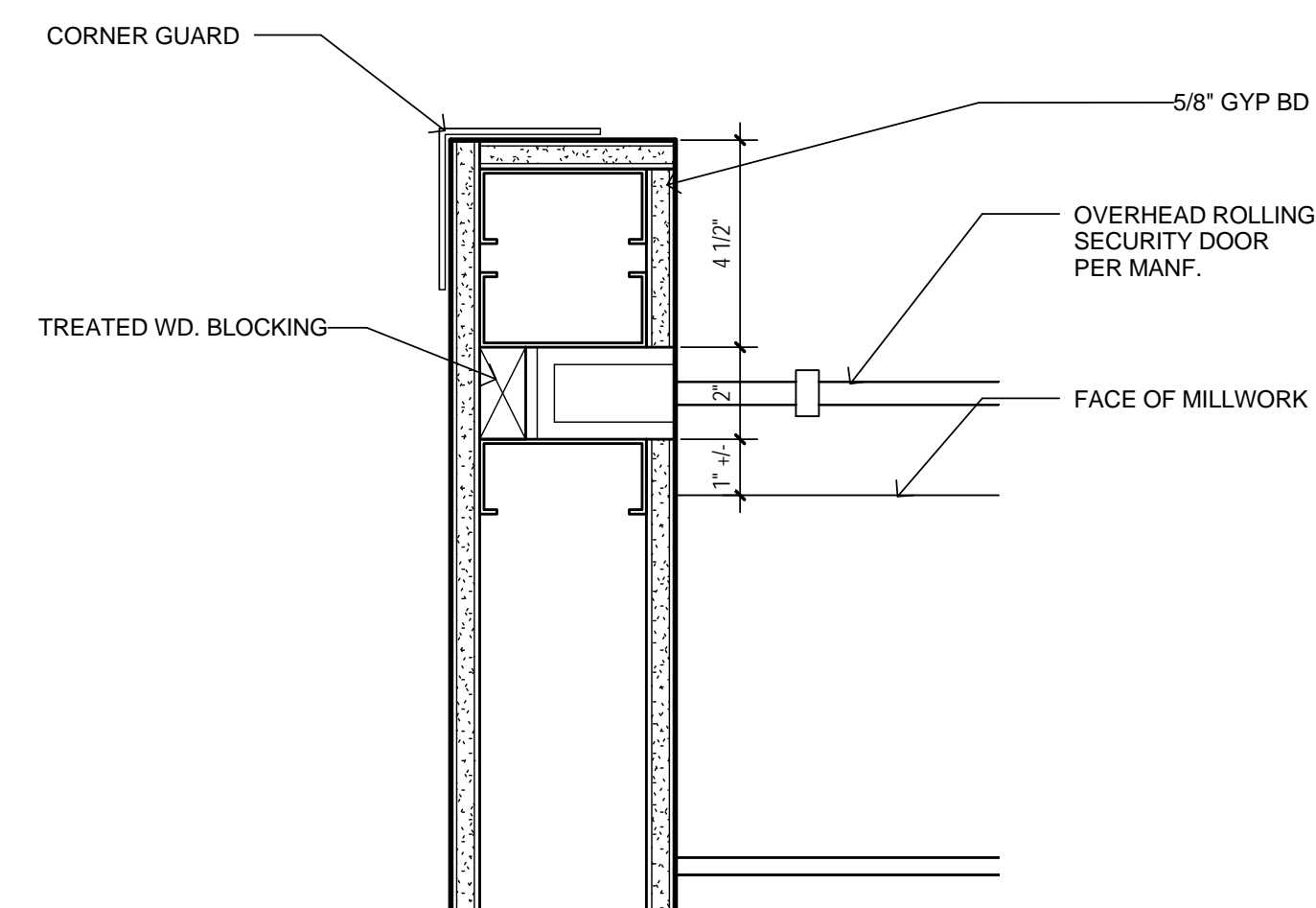
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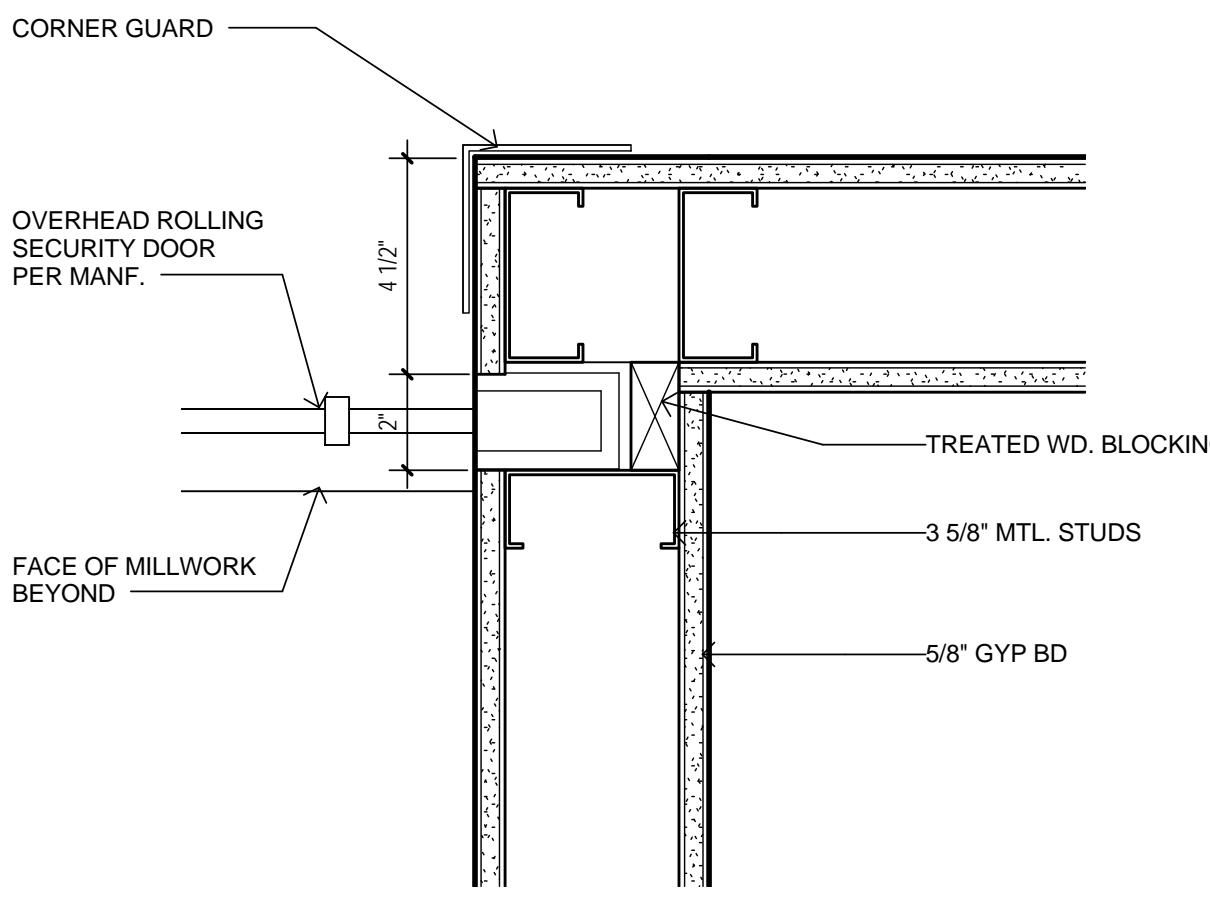
14 Detail 37
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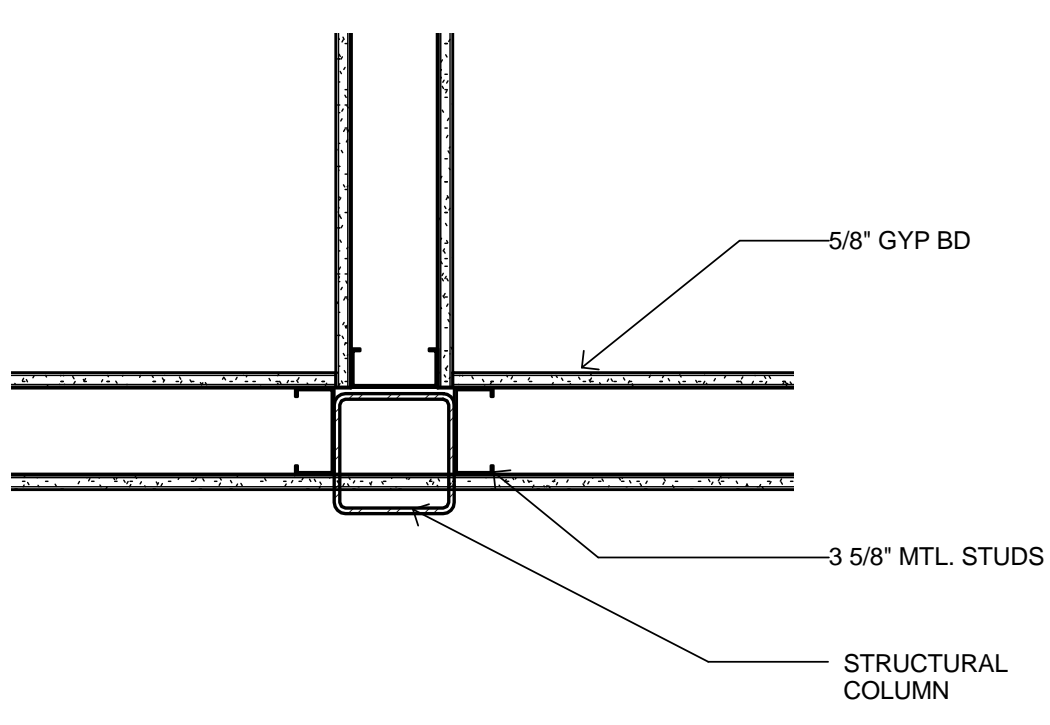
15 Detail 38
1 1/2" = 1'-0"



16 Detail 39
3" = 1'-0"



17 PLAN DETAIL
3" = 1'-0"

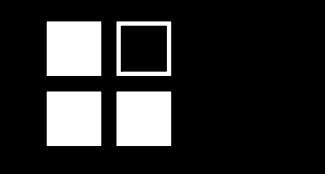


18 PLAN DETAIL
1 1/2" = 1'-0"

Original Issue Date: 04/04/14
Revisions:

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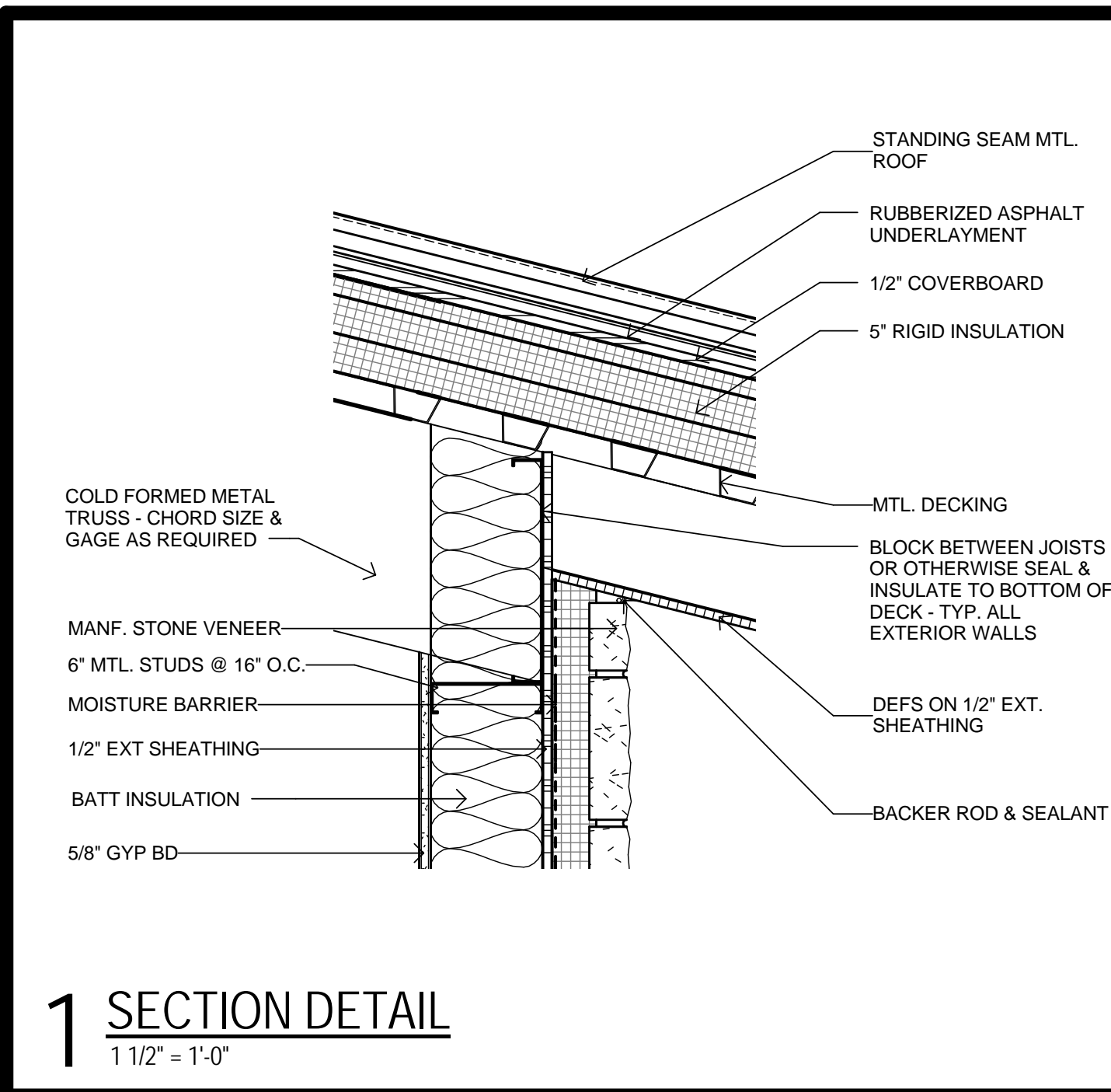


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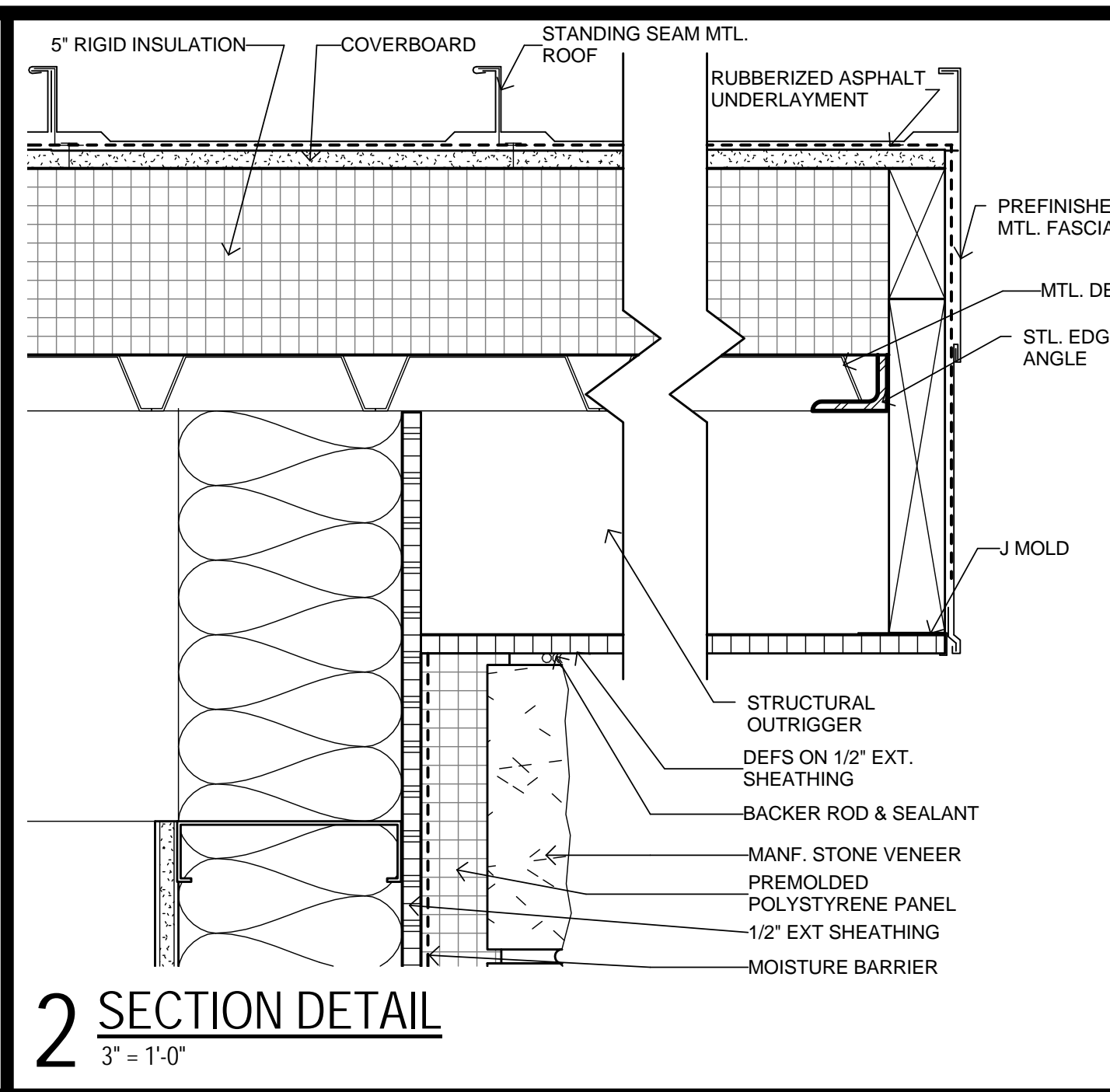
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TEXAS REGISTRATION NO. 12901
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1215

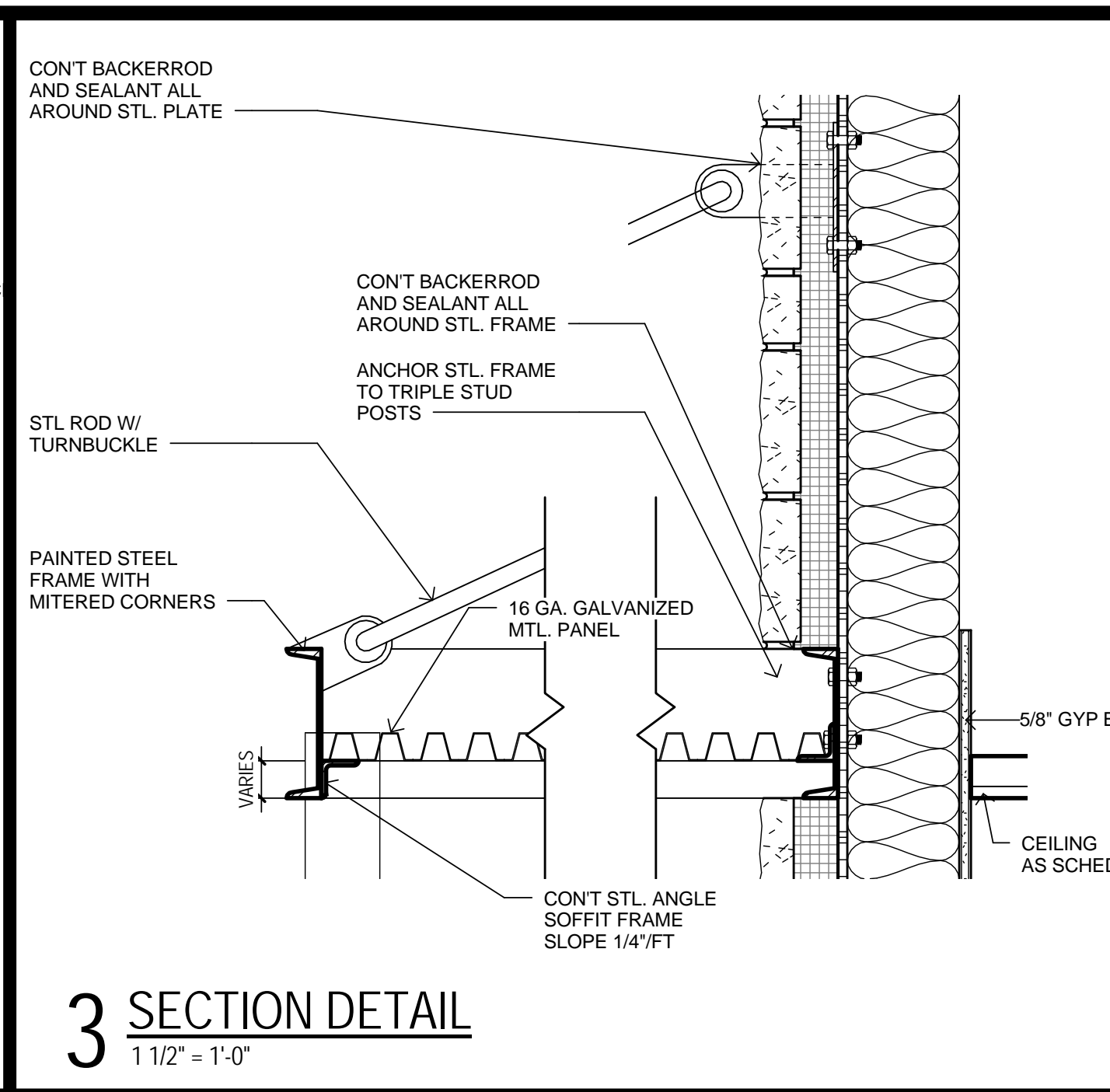
Sheet No.
A9.1
PLAN DETAILS



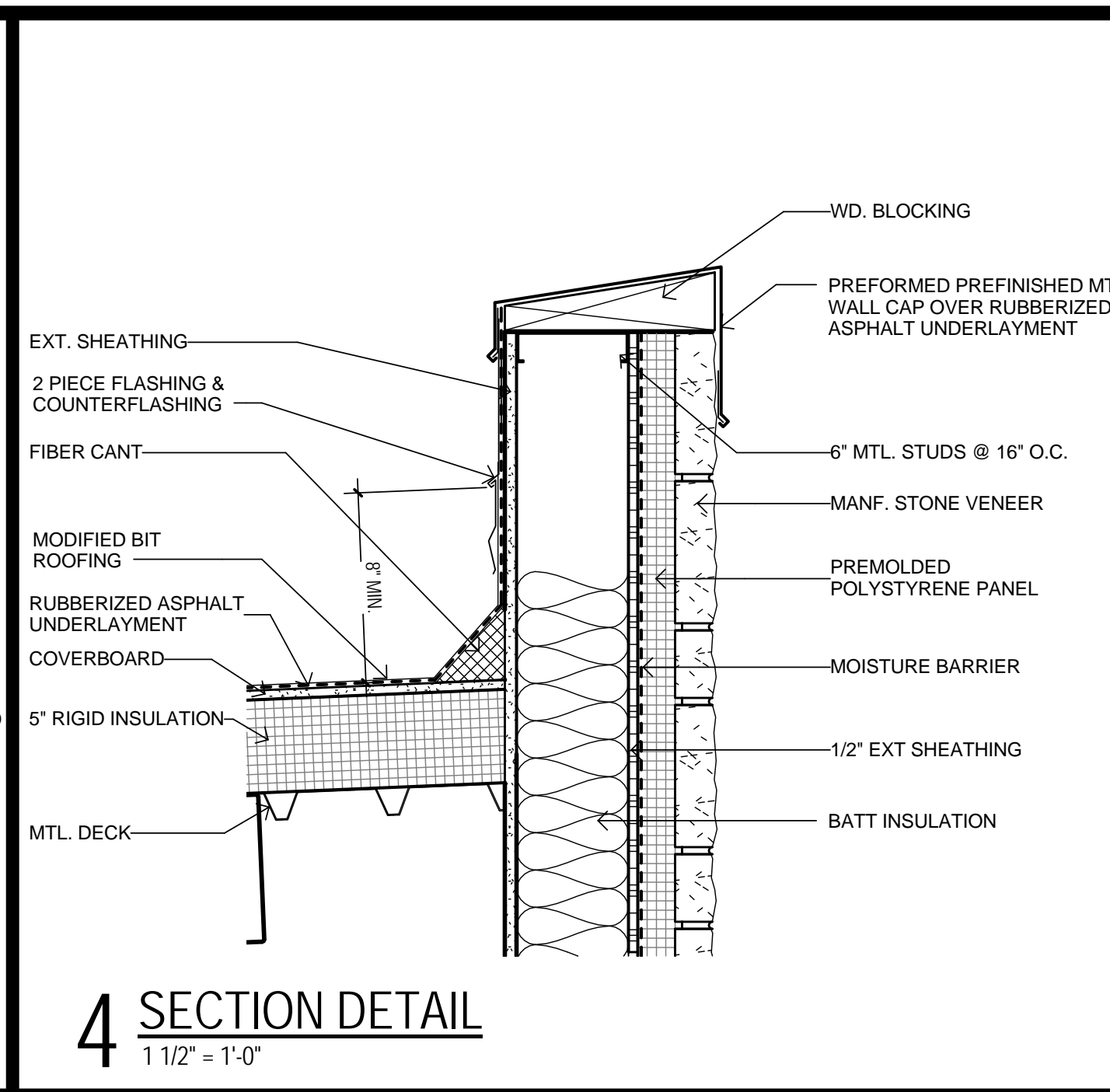
1 SECTION DETAIL
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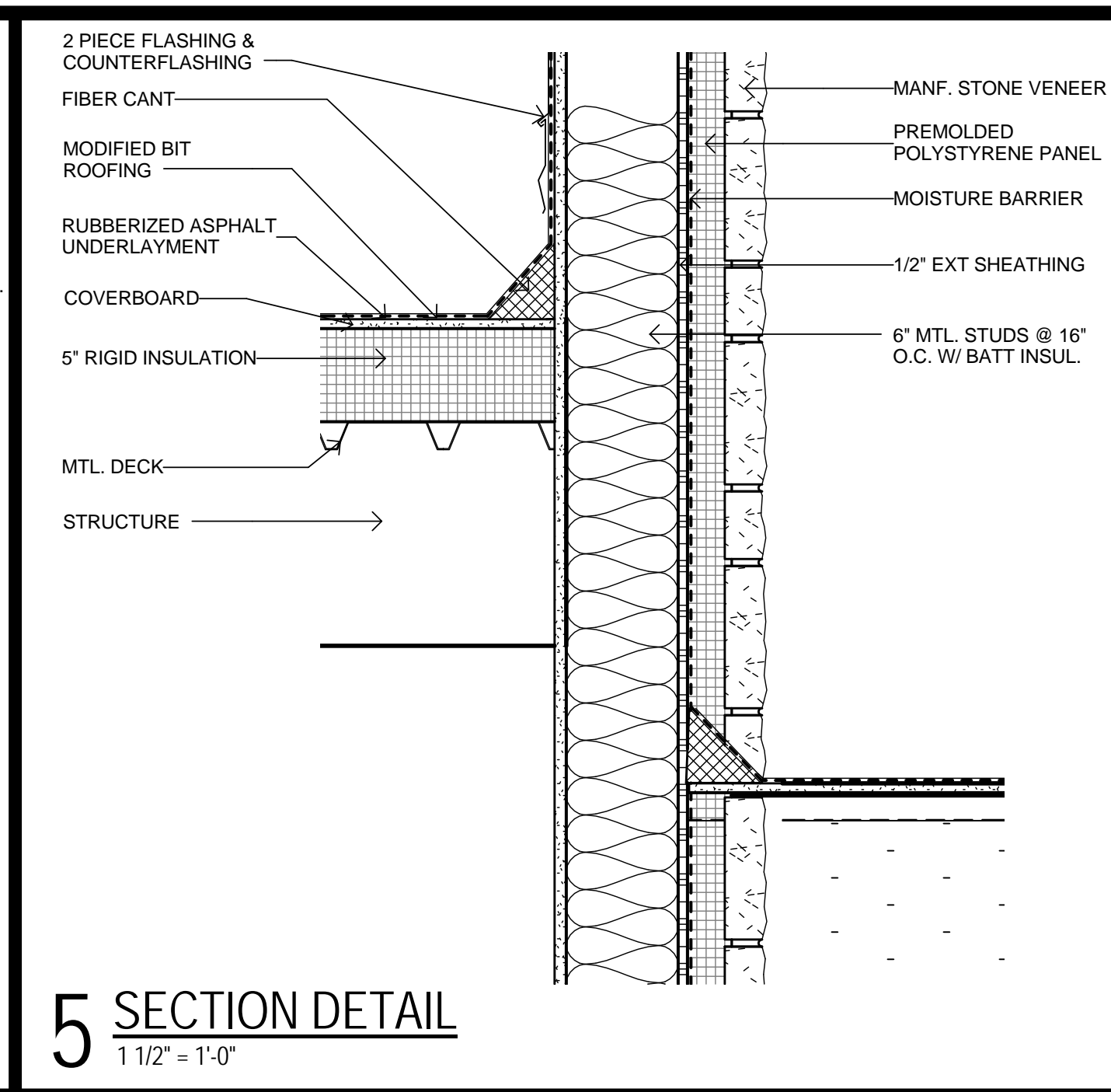
2 SECTION DETAIL
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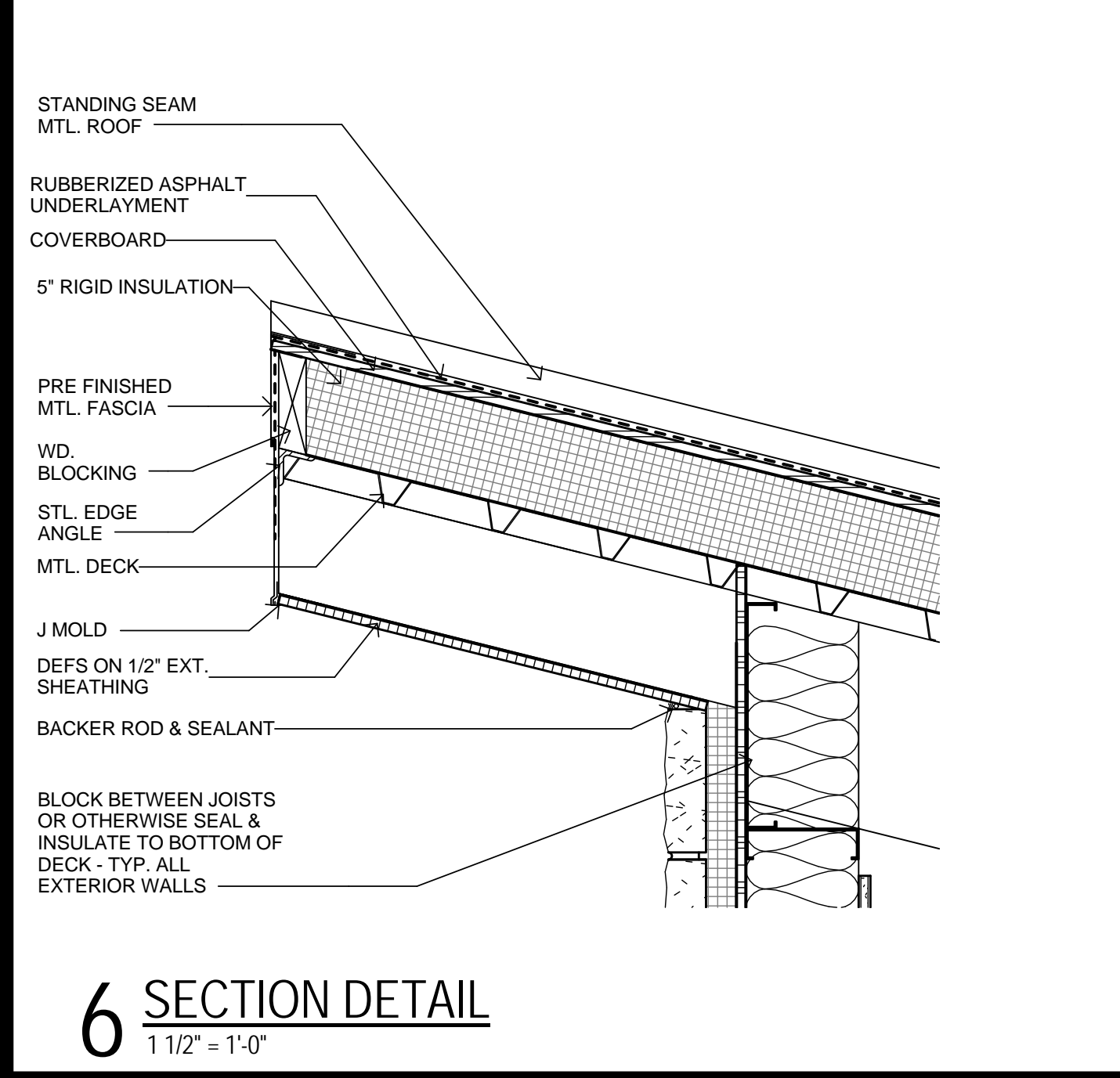
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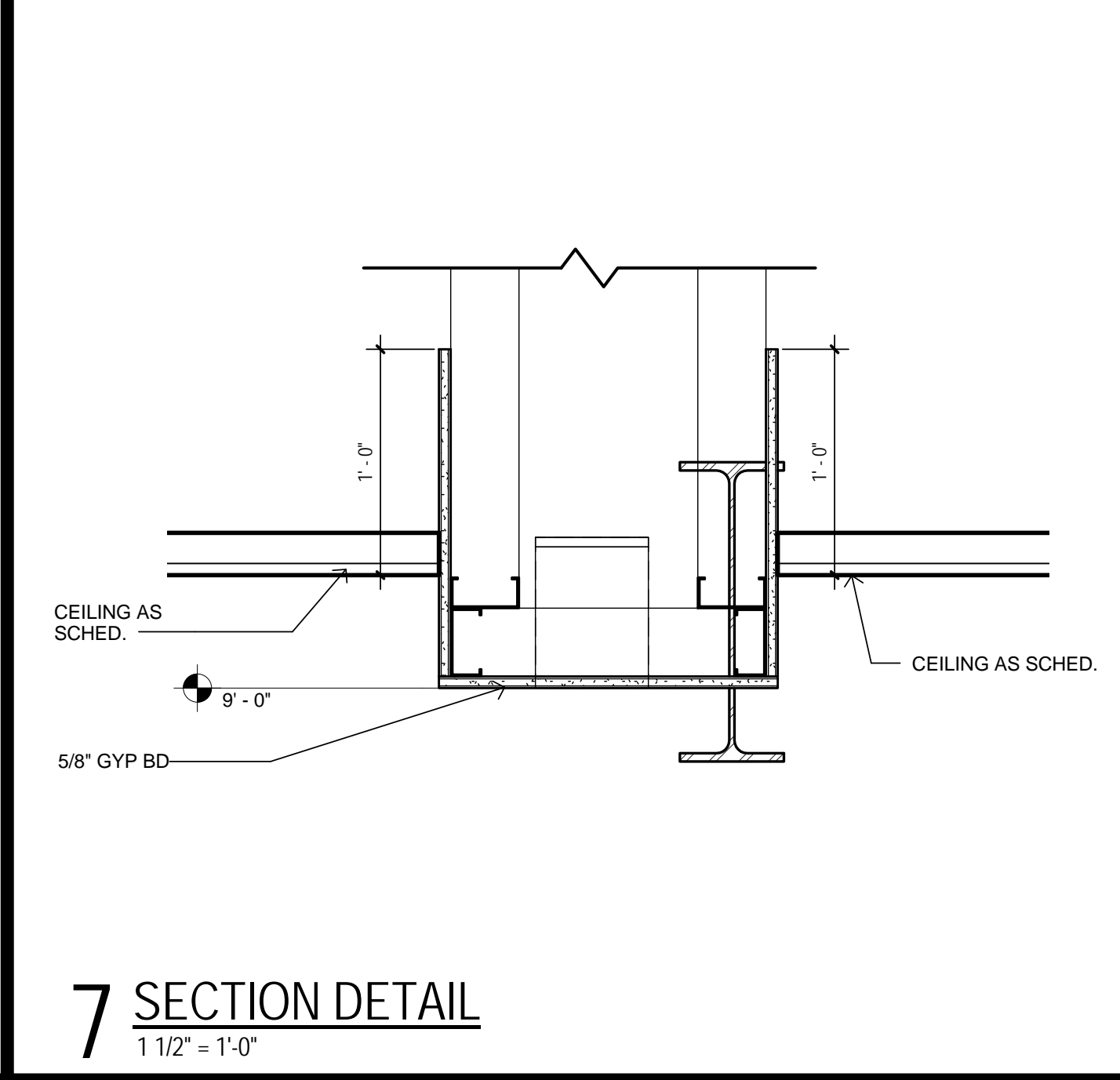
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1 1/2" = 1'-0"



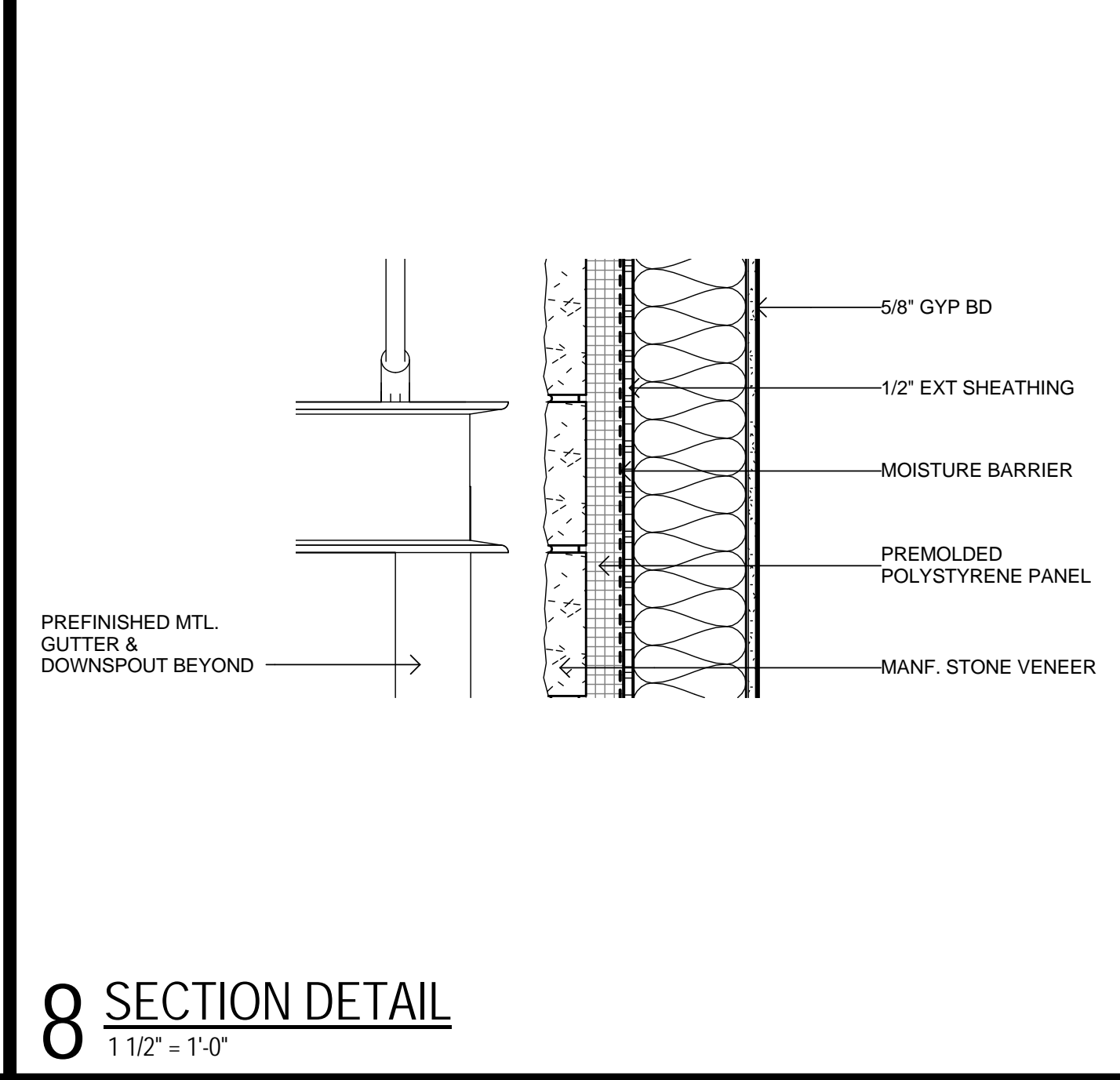
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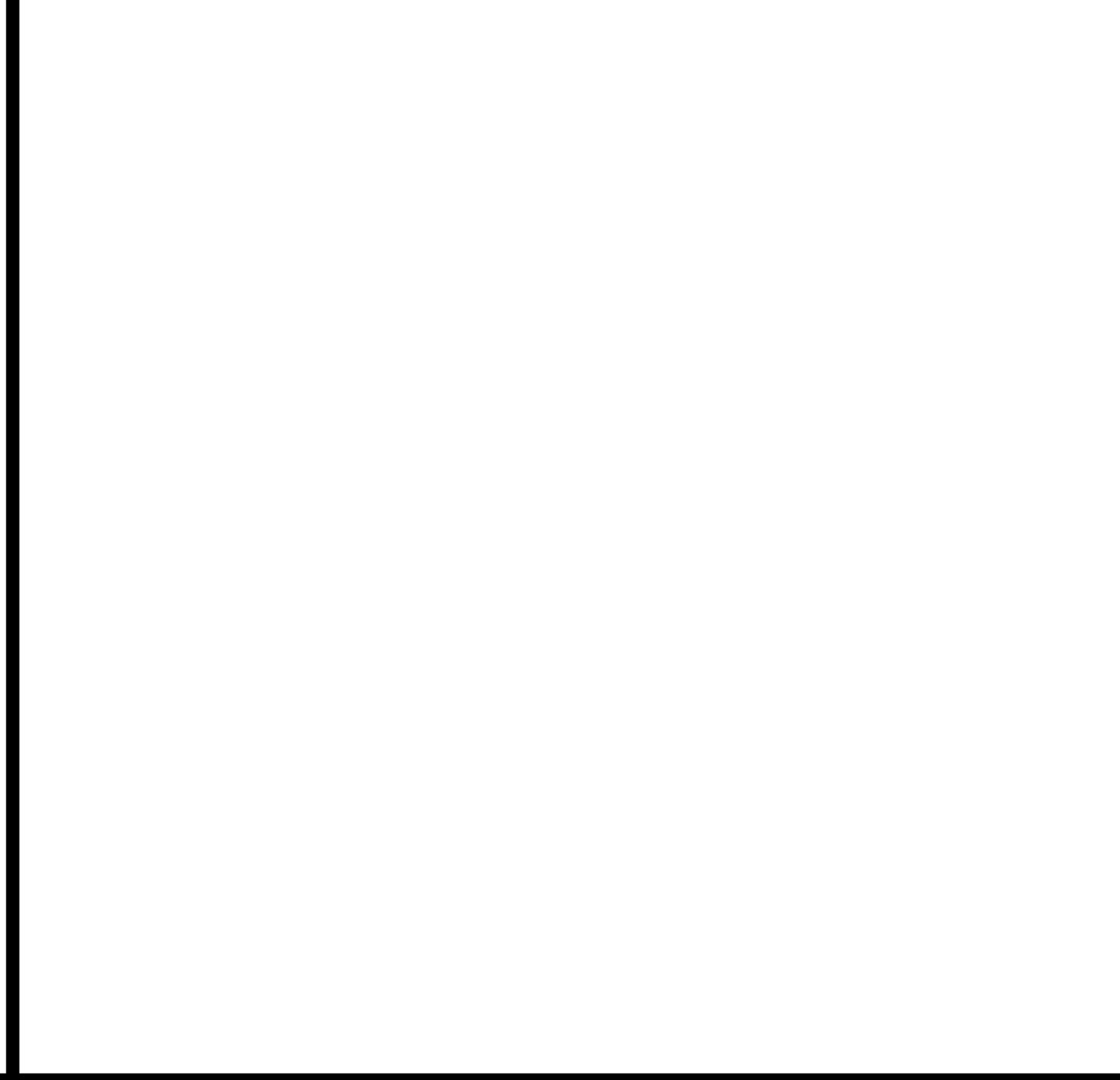
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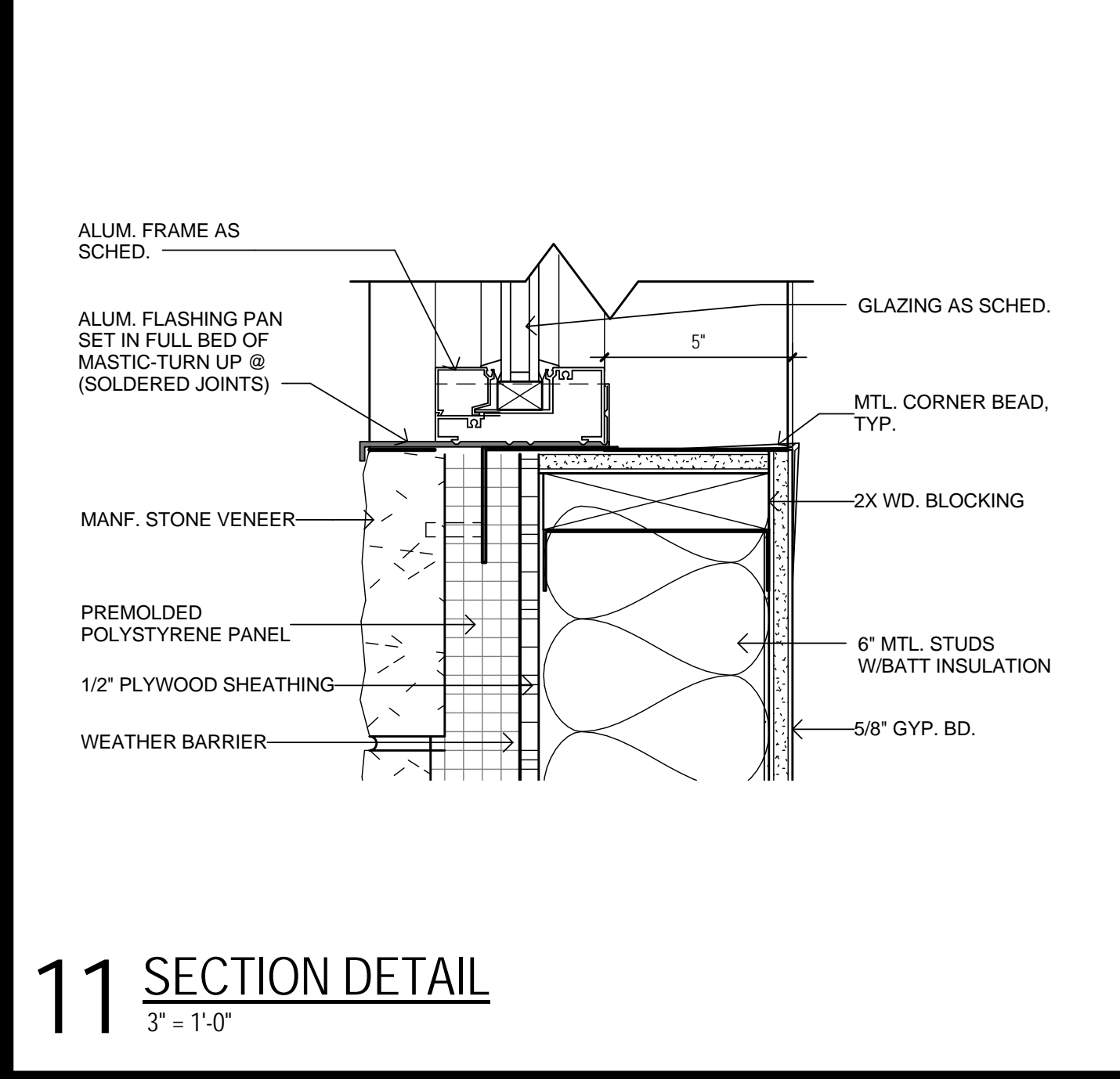
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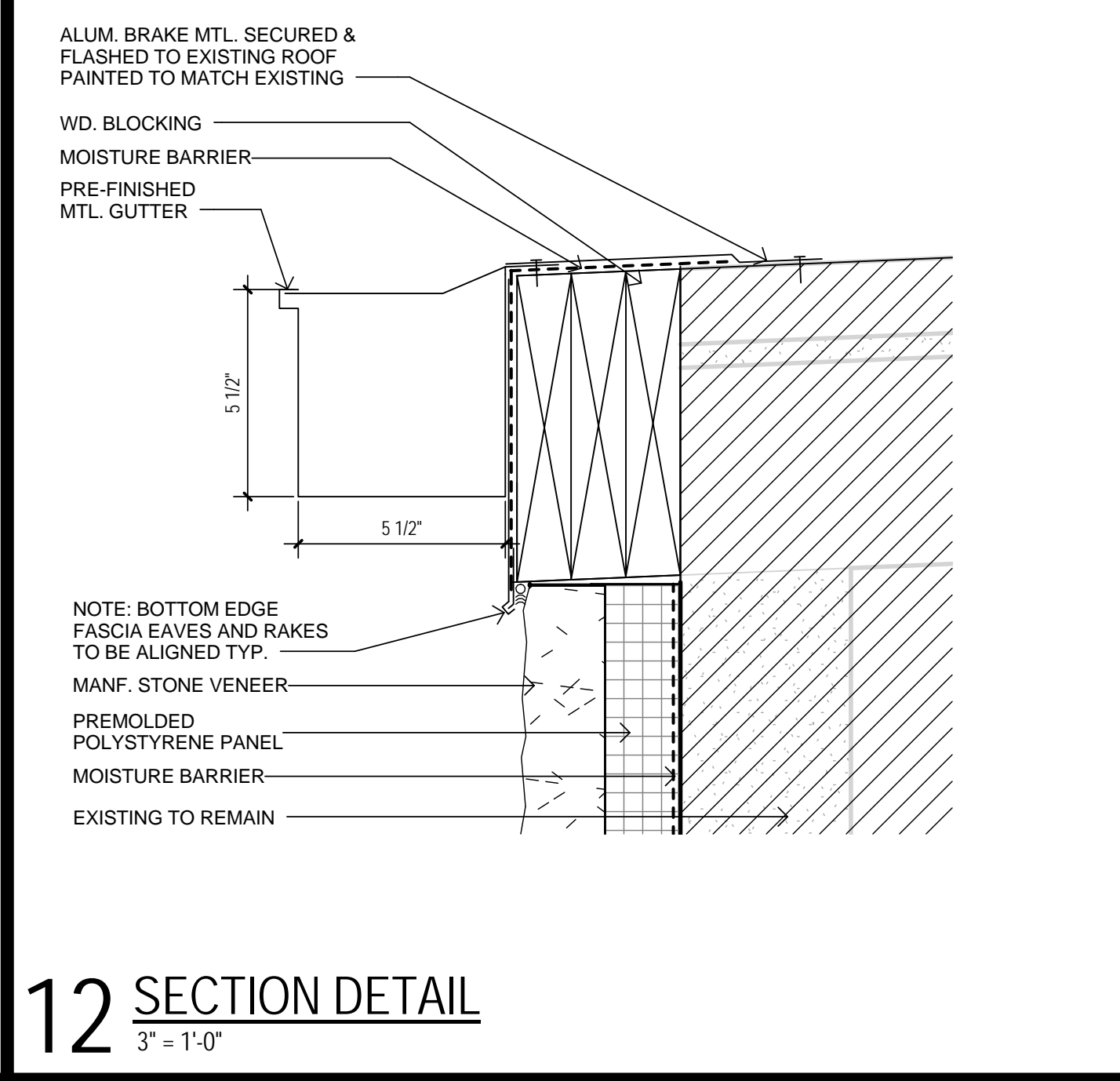
8 SECTION DETAIL
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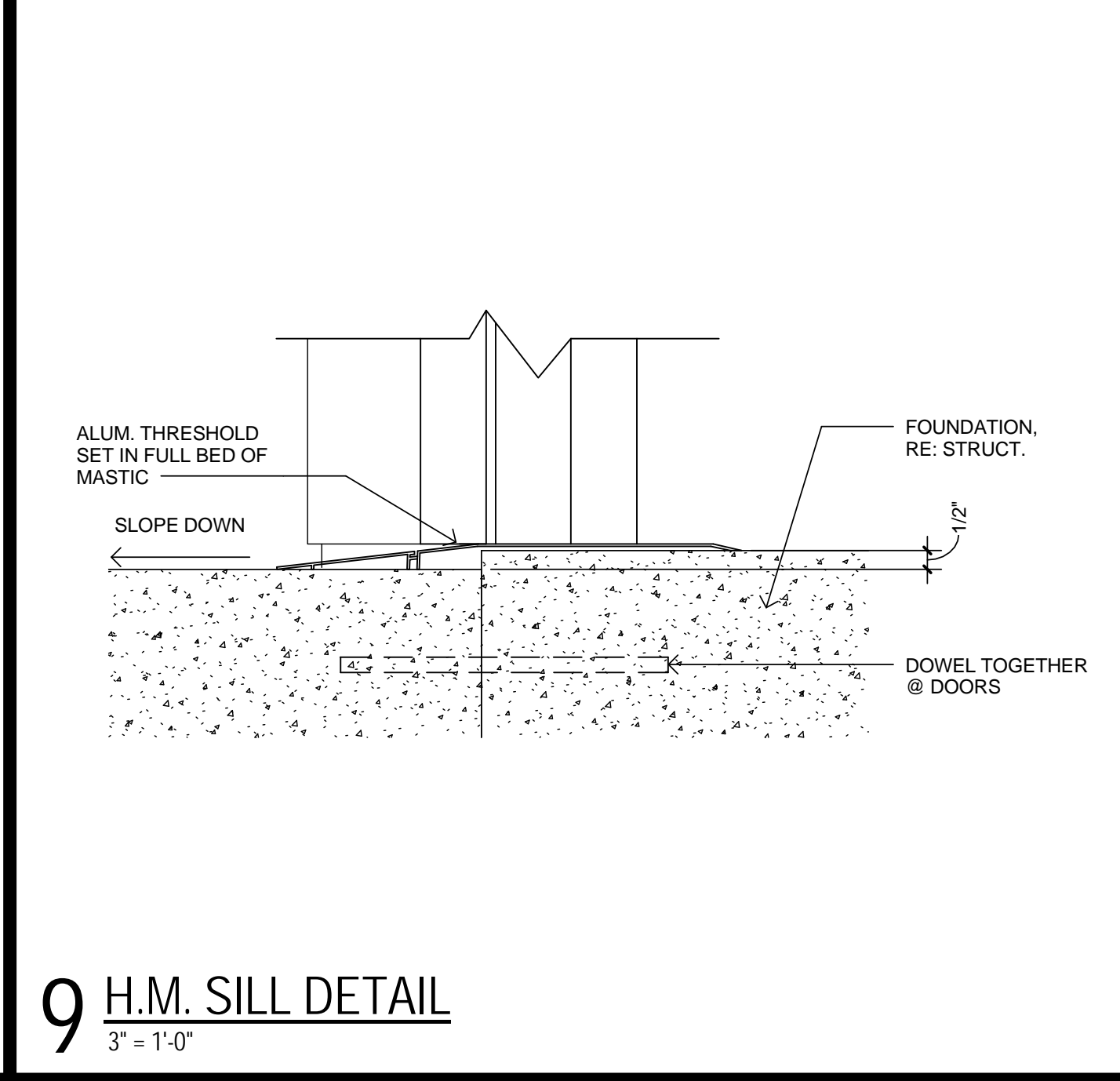
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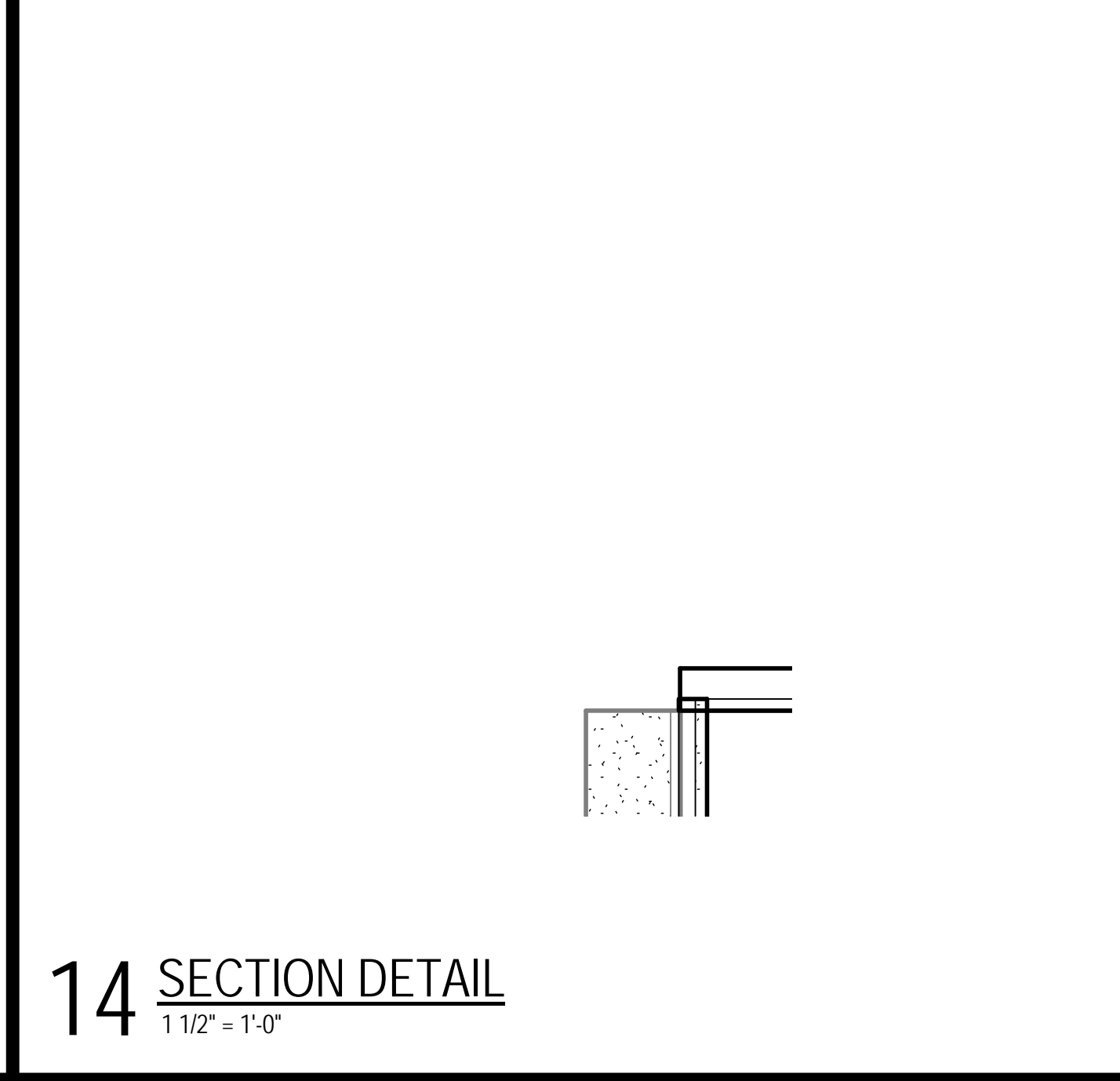
11 SECTION DETAIL
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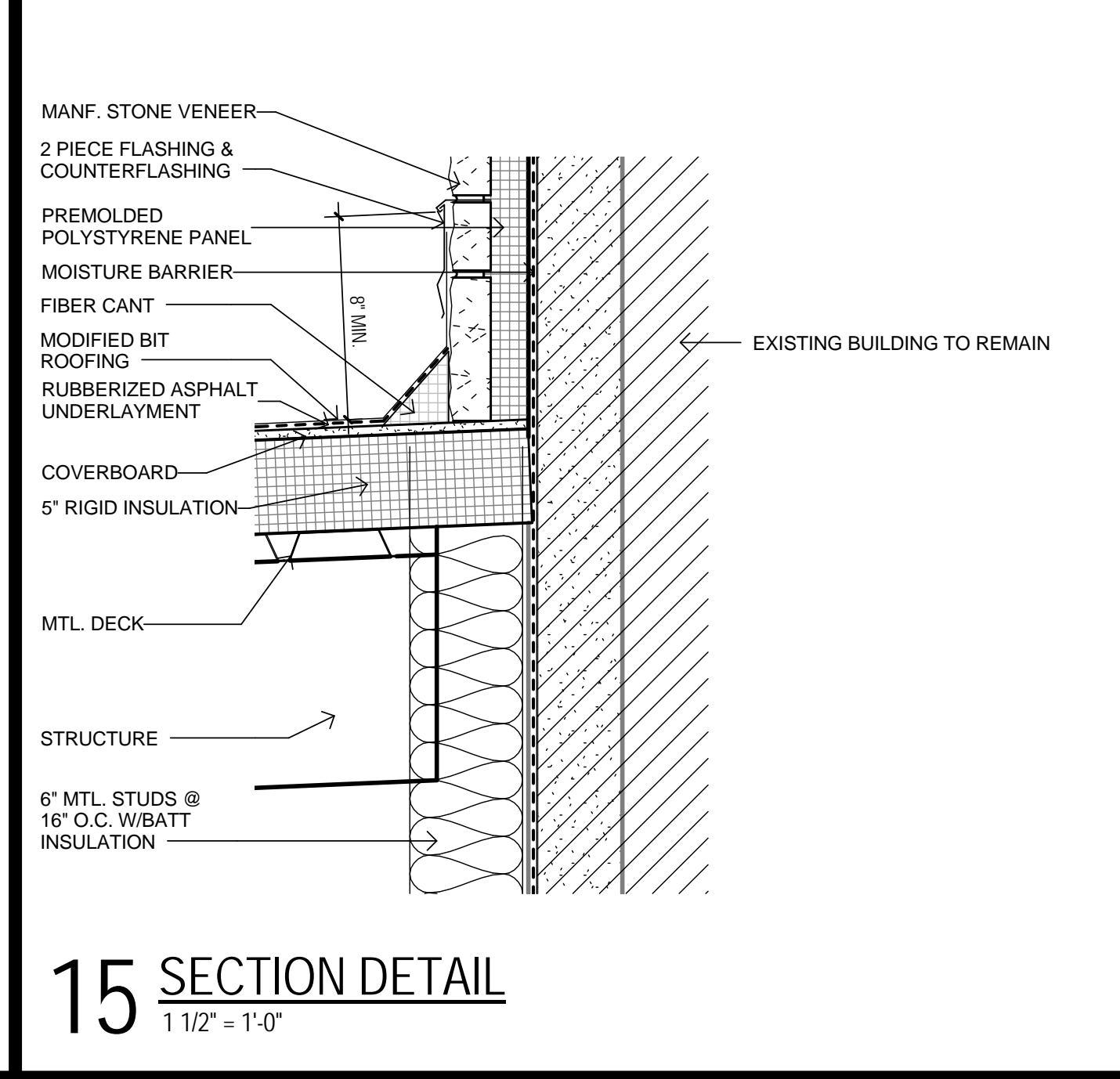
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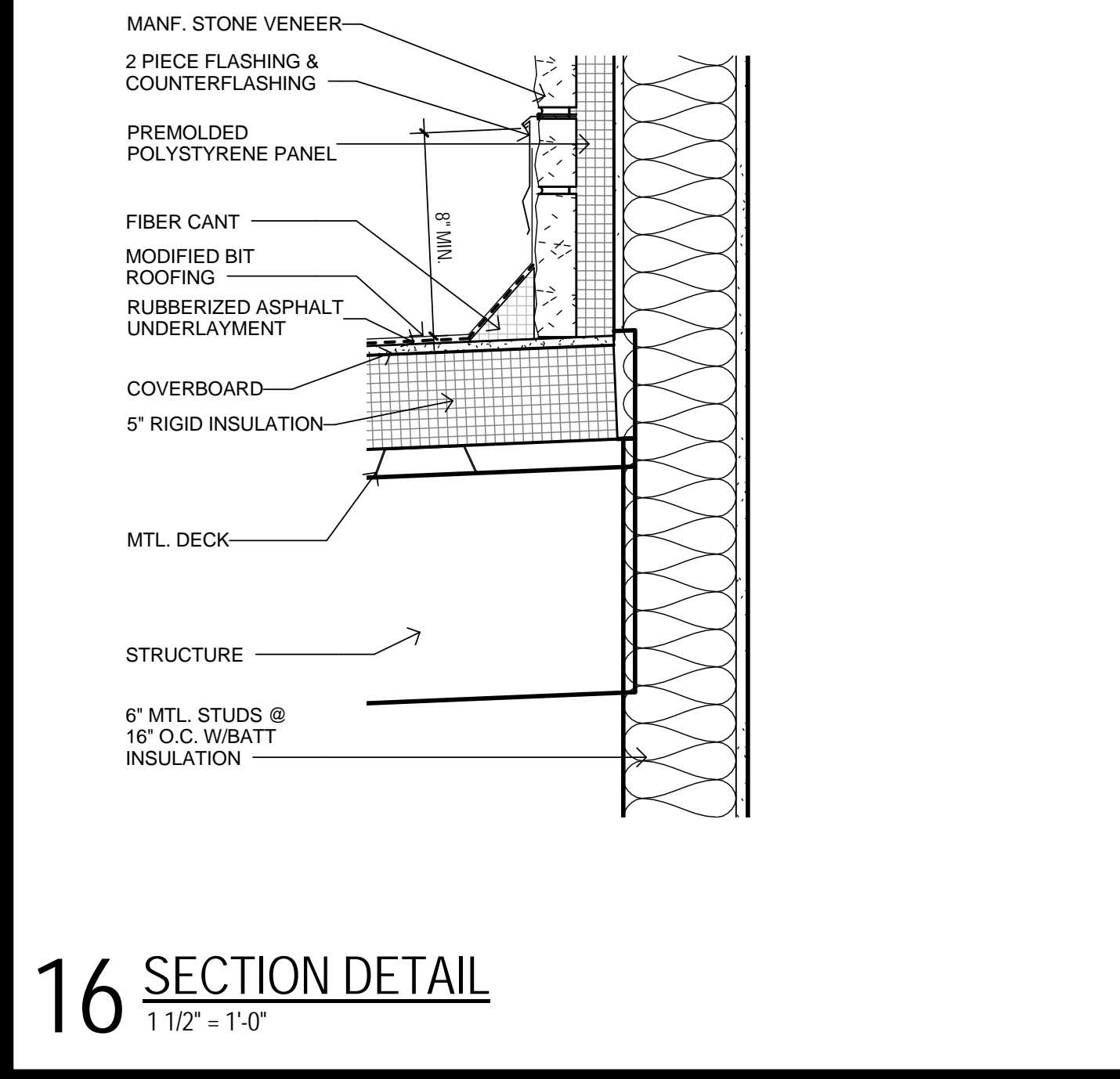
9 H.M. SILL DETAIL
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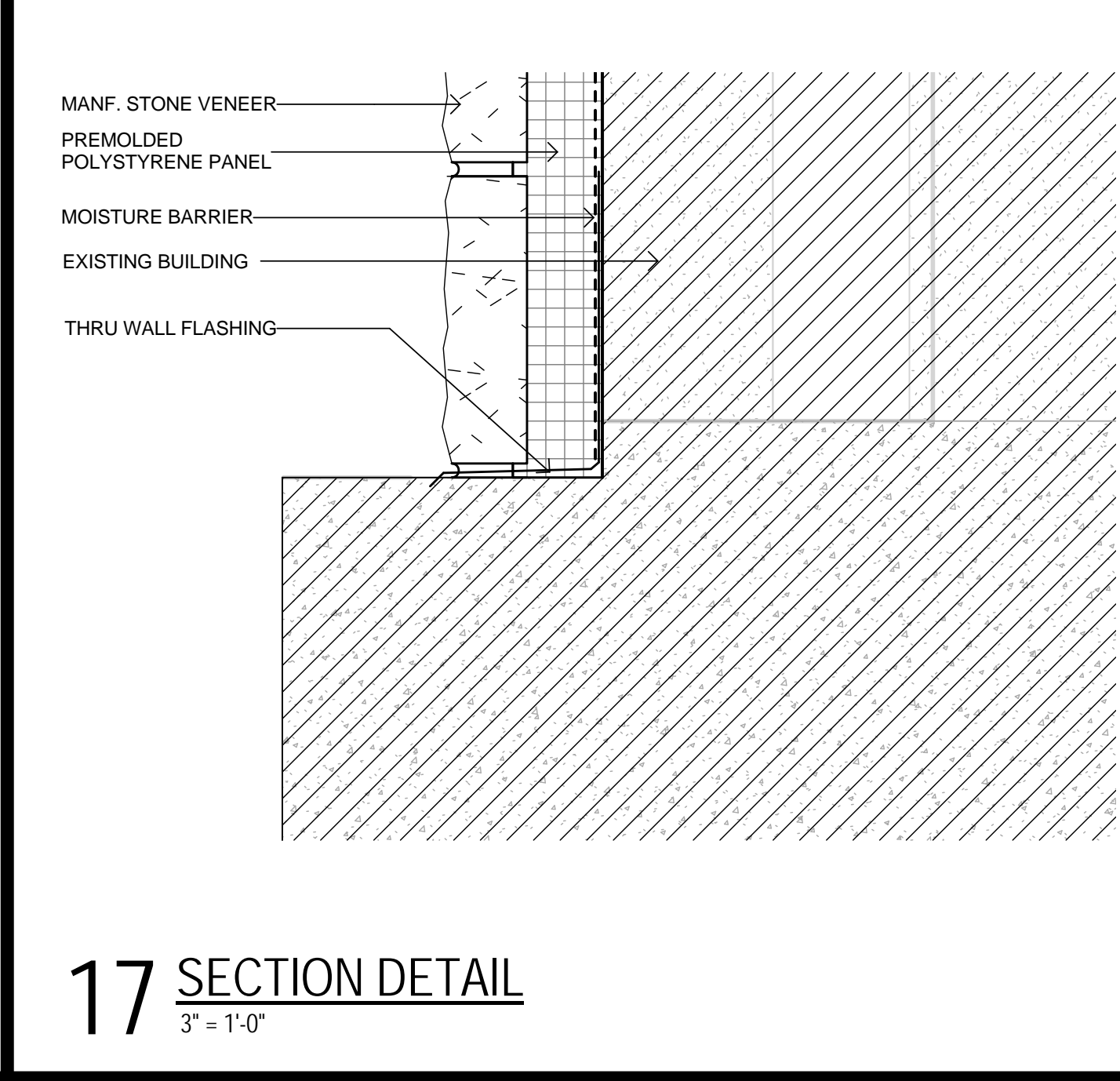
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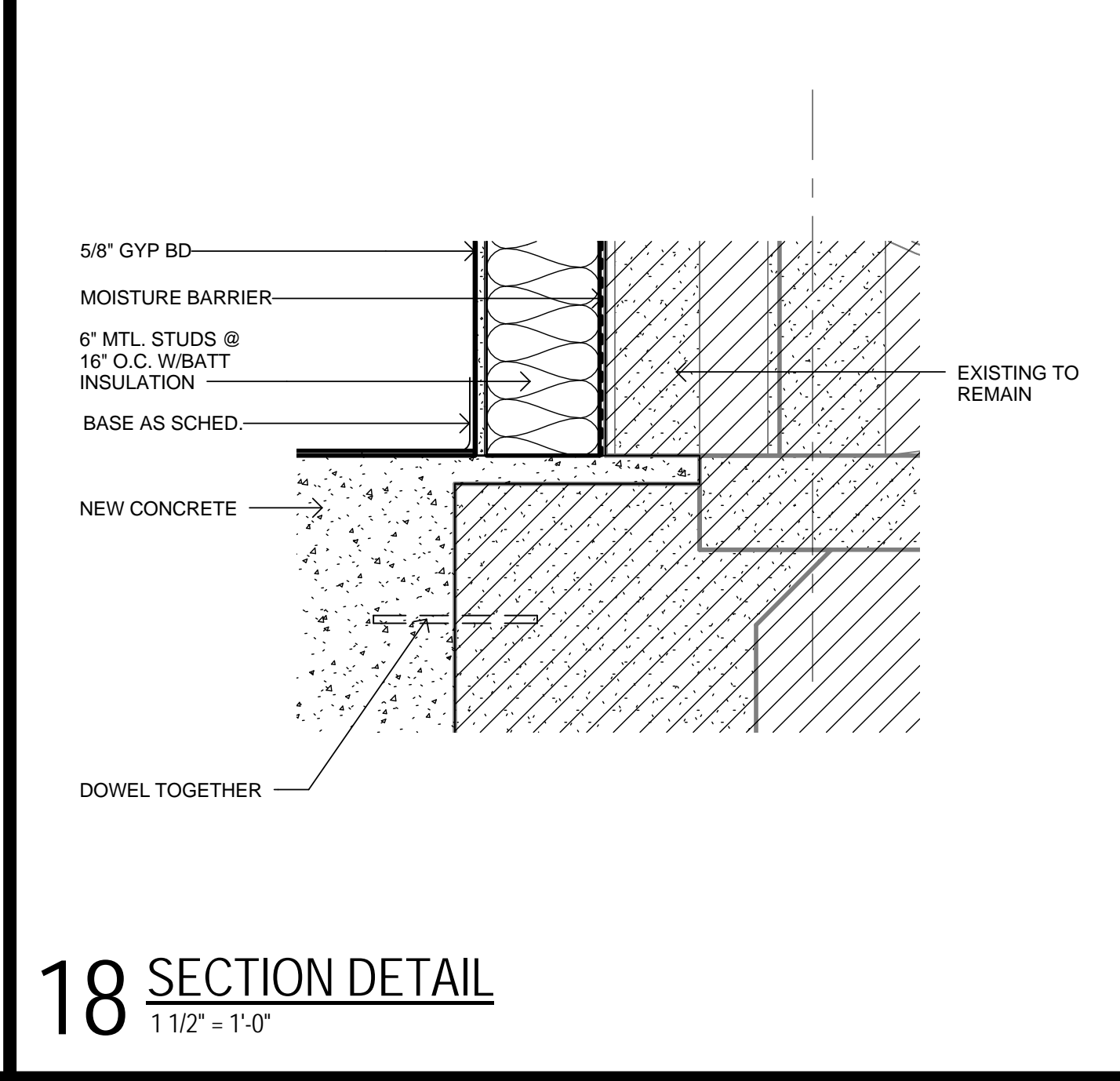
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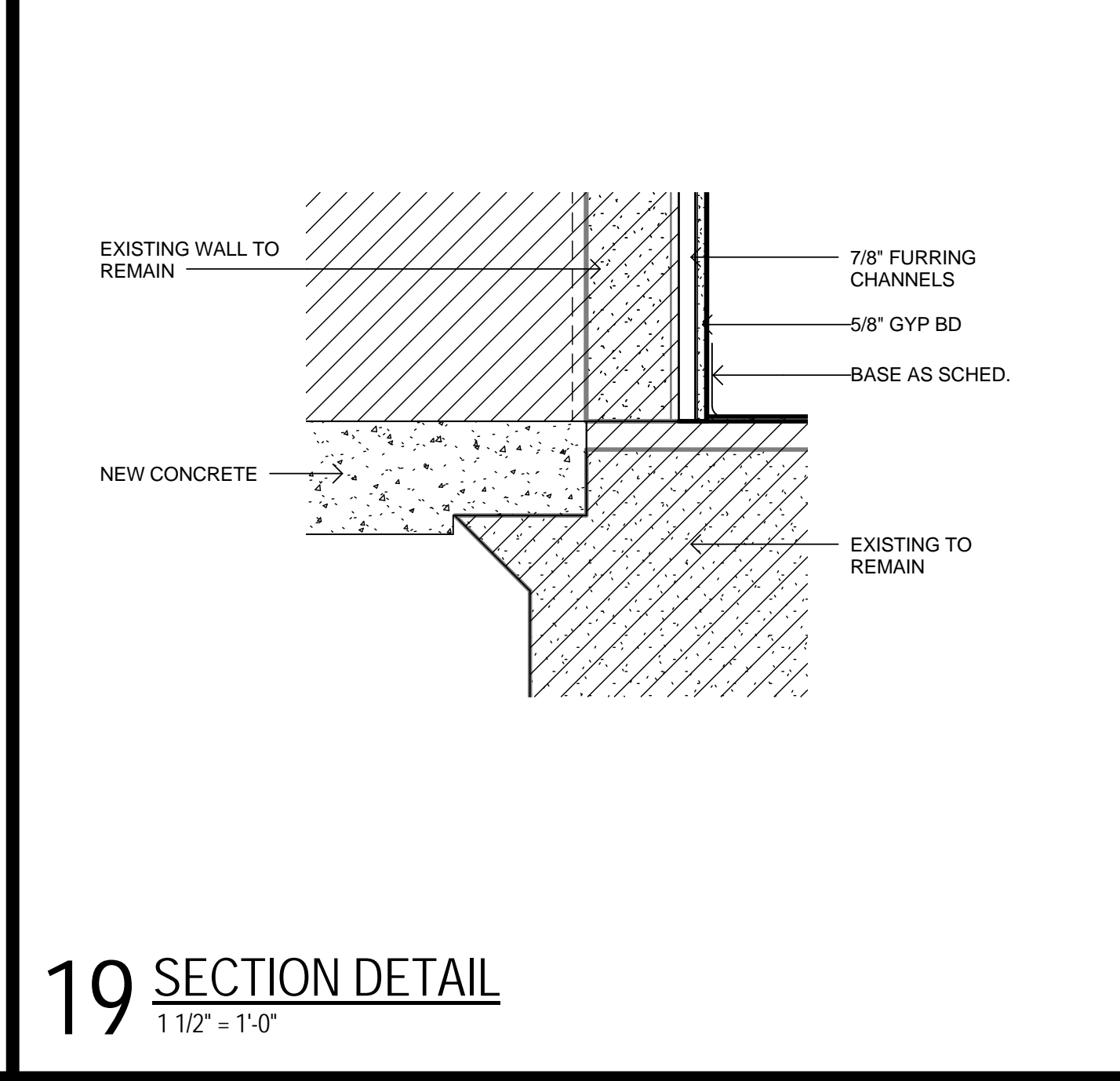
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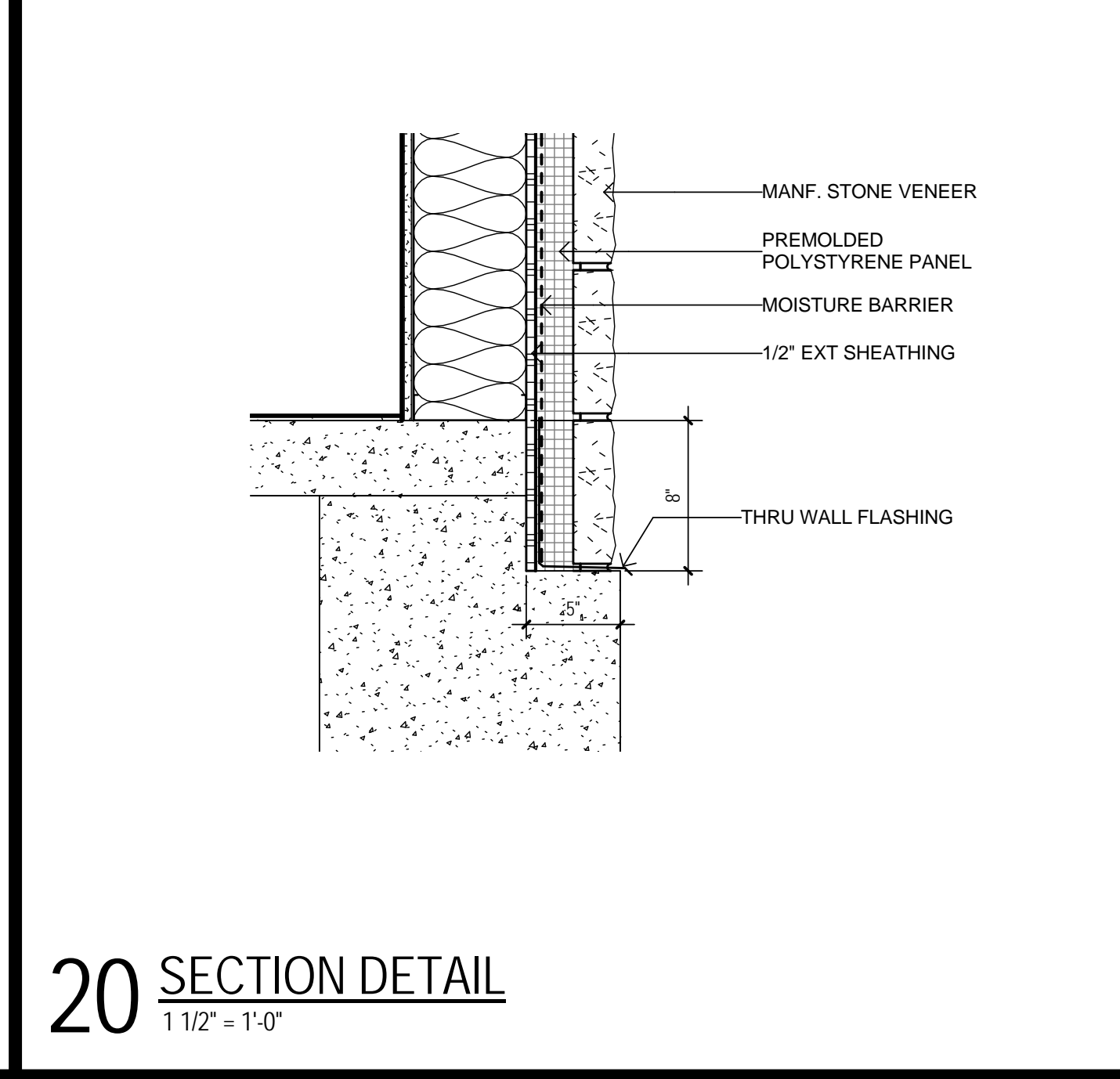
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3" = 1'-0"



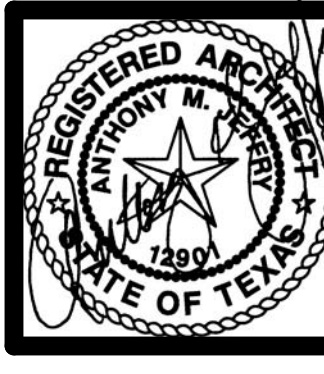
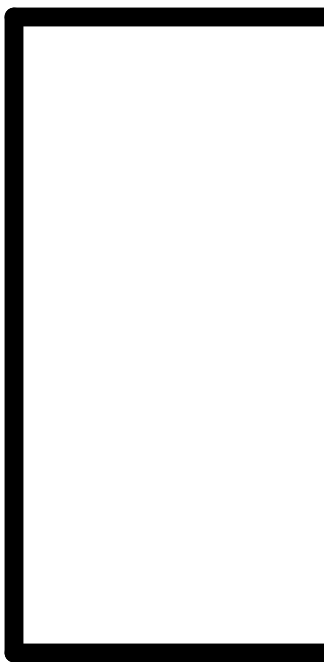
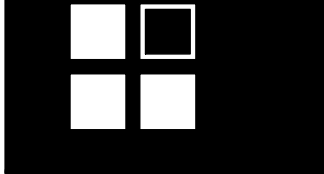
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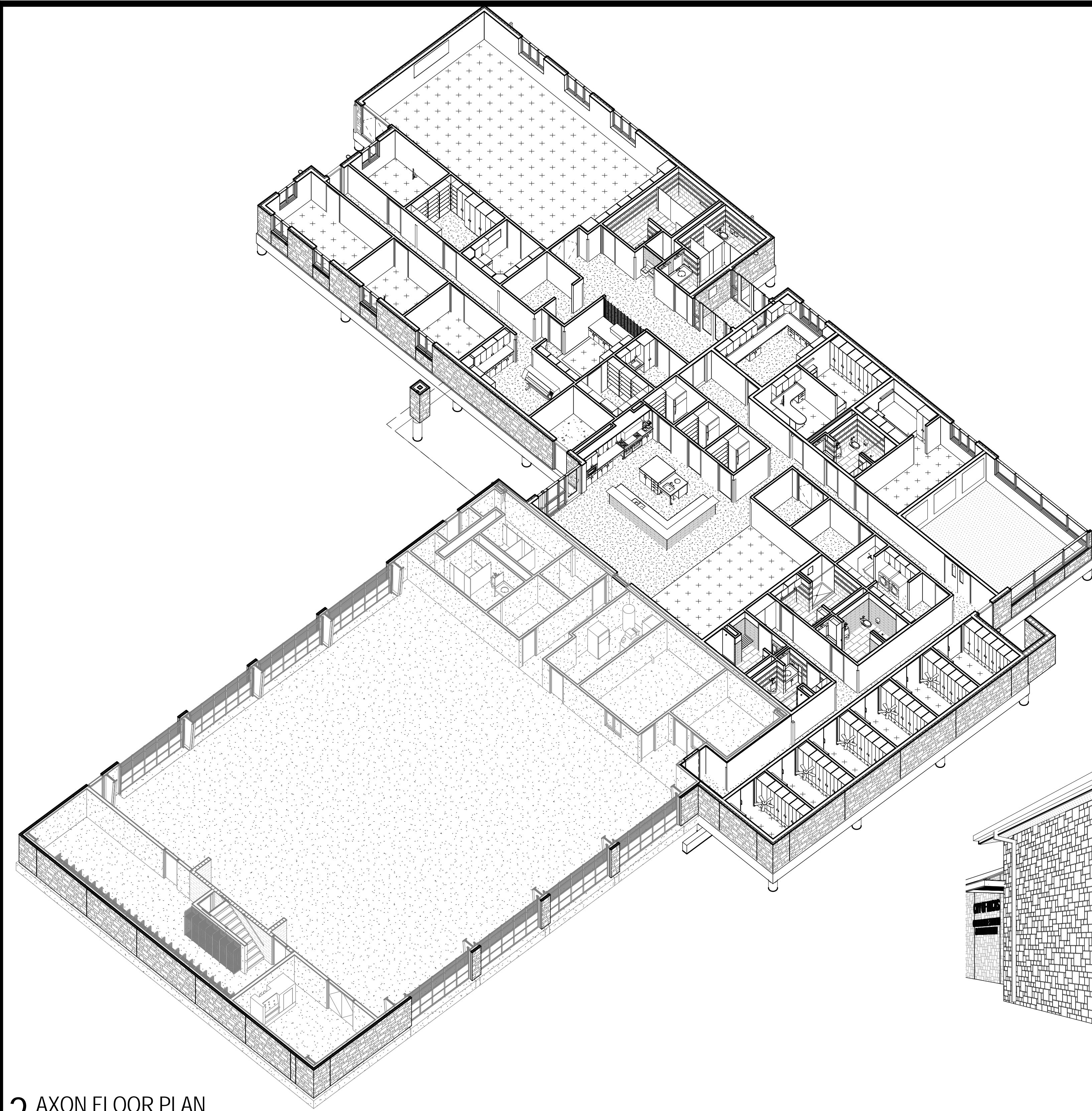


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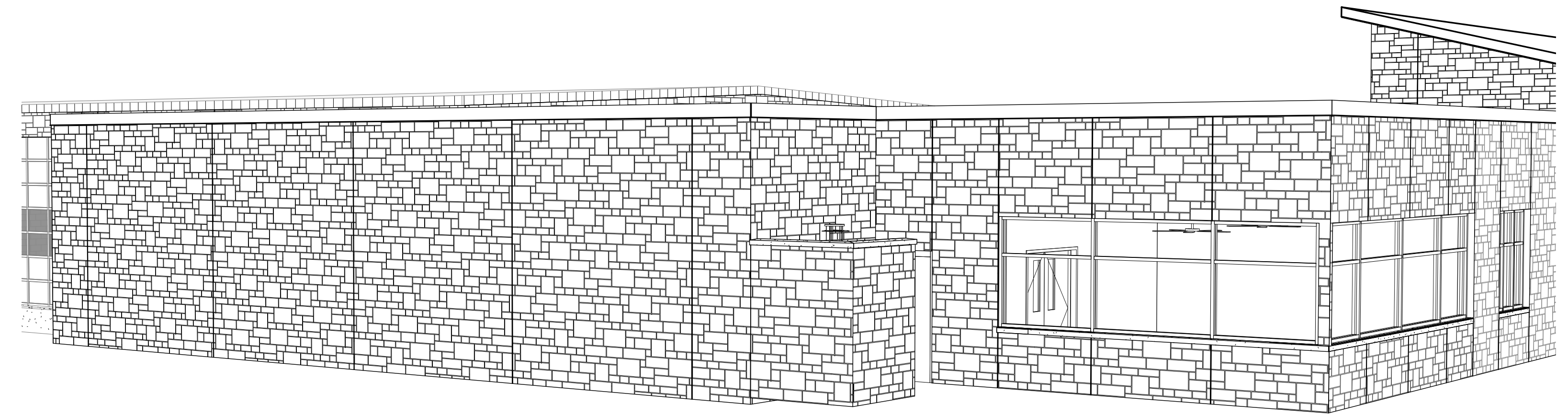


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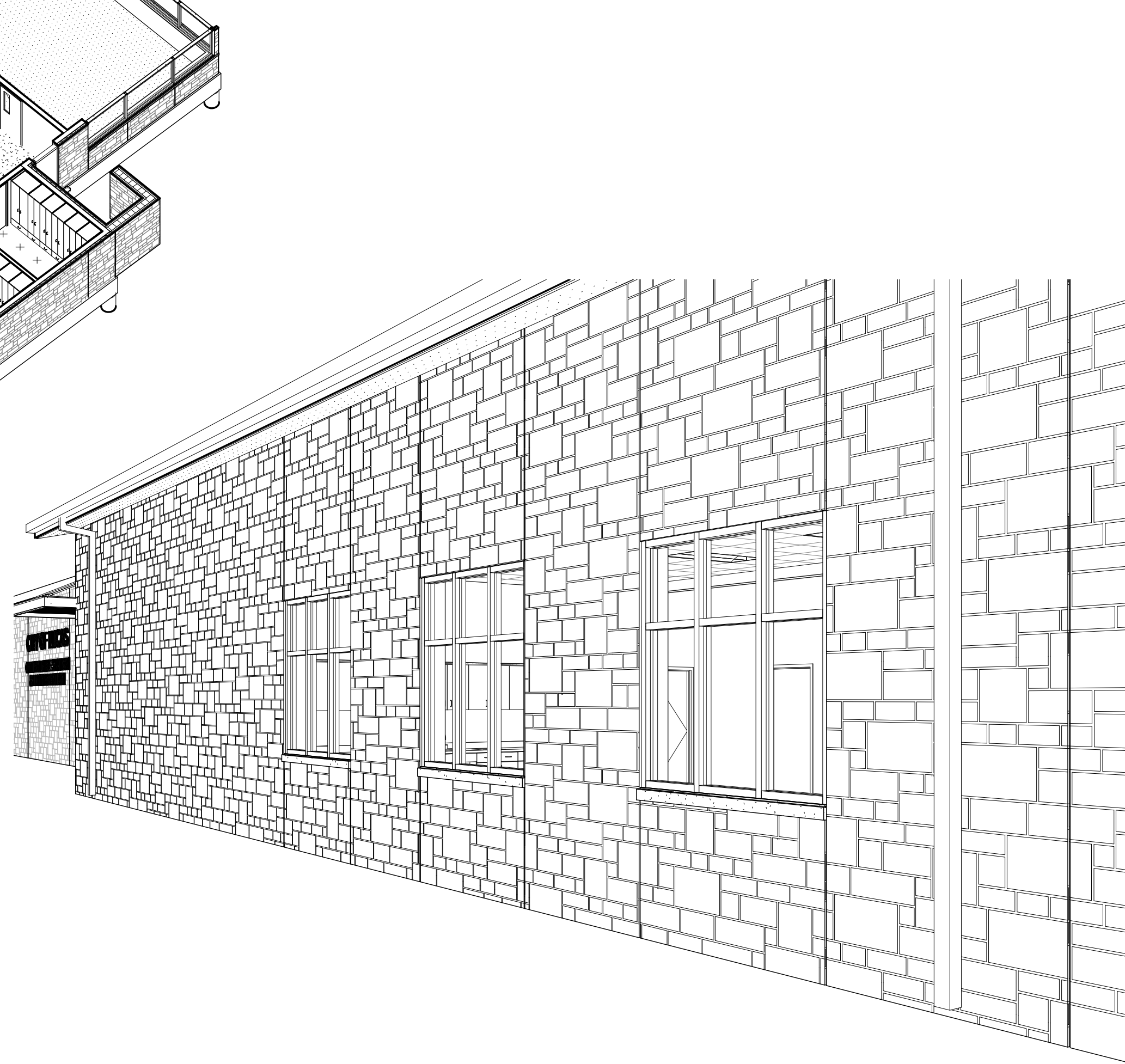




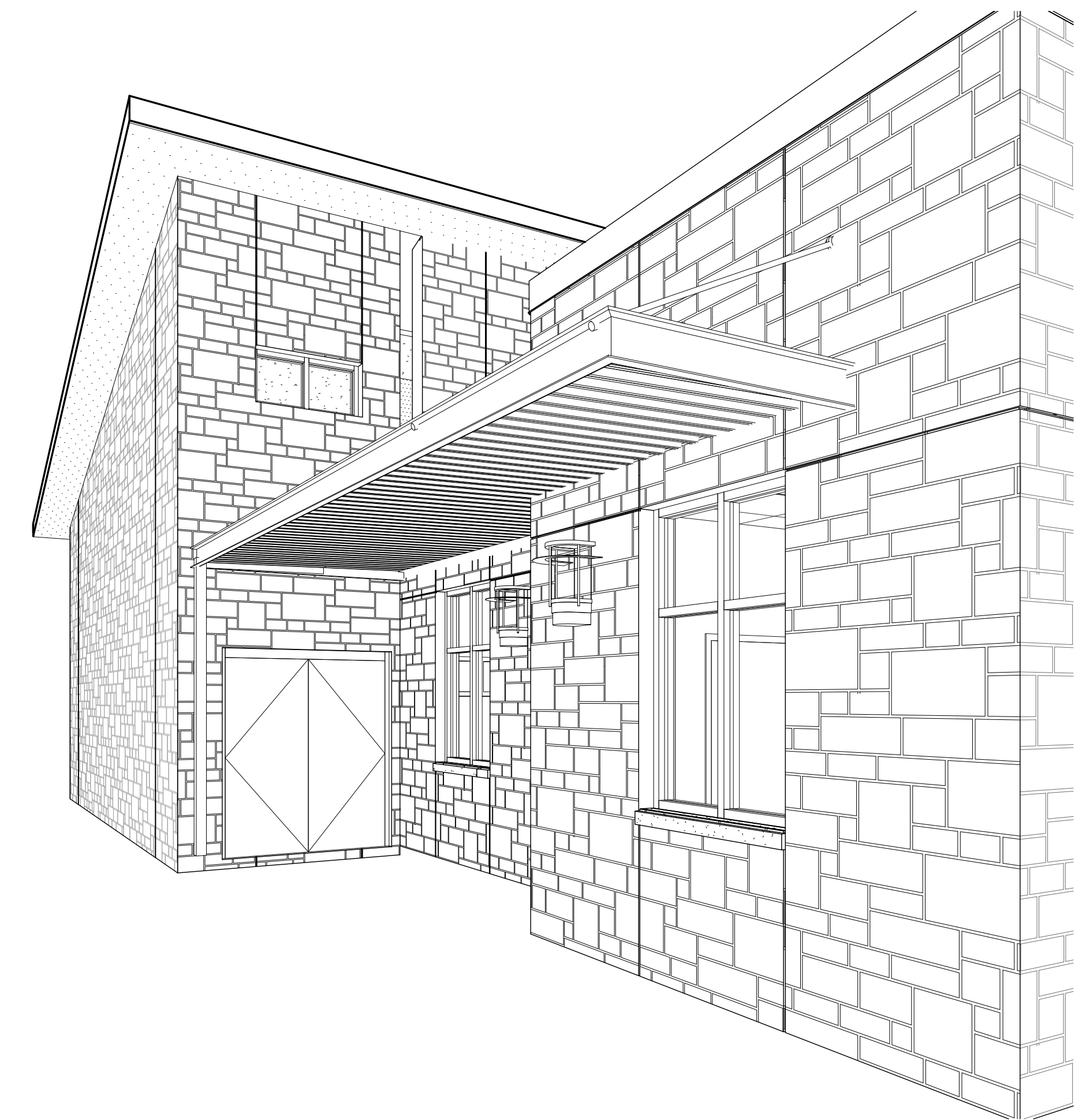
2 AXON FLOOR PLAN



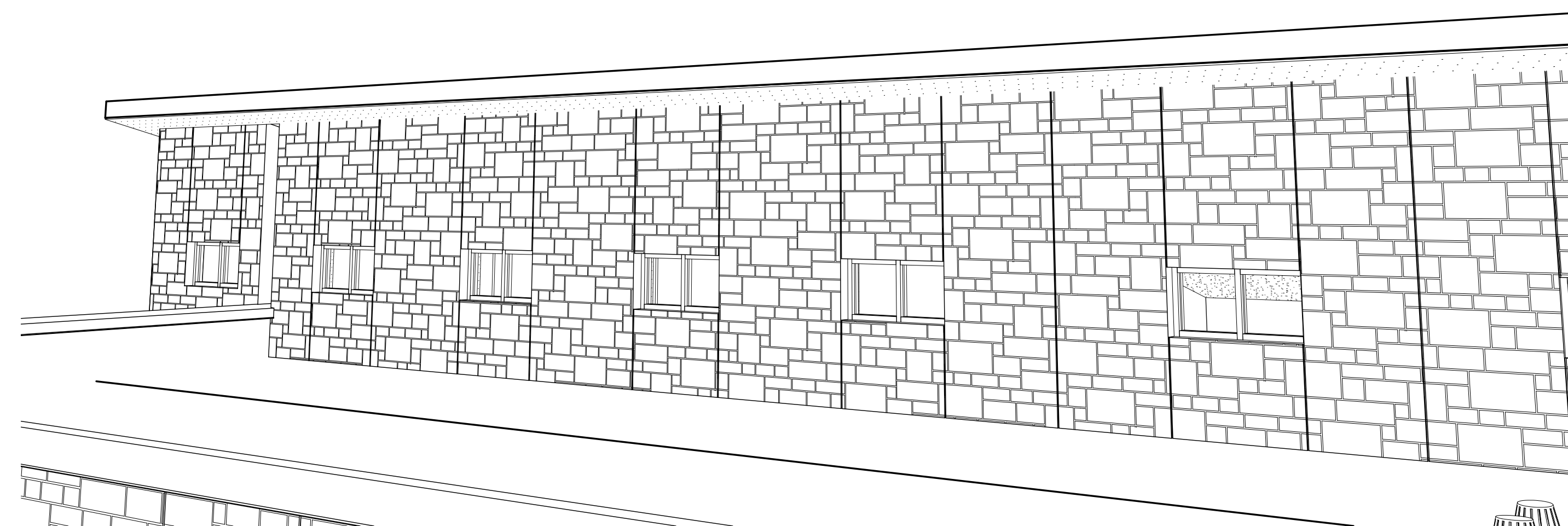
1 FITNESS 135



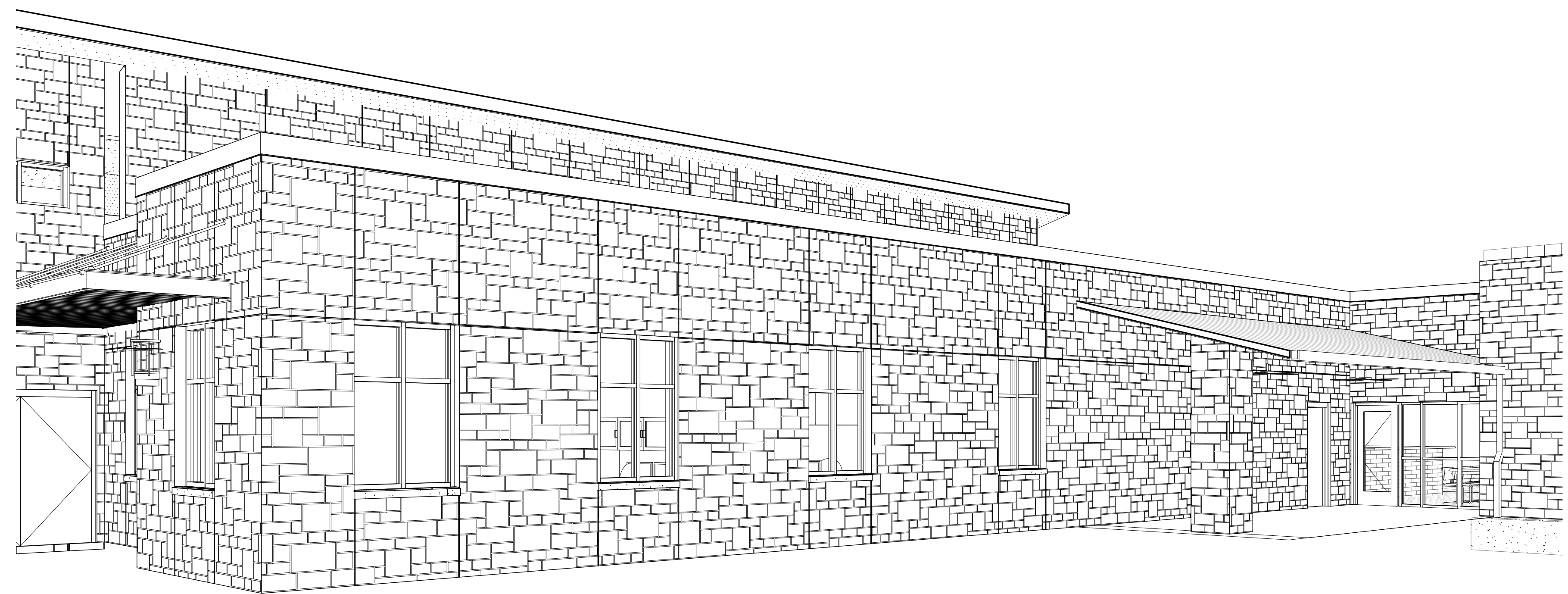
3 TRAINING 105



4 ADMIN / TRAINING AREA



6 TRAINING 105 CLEARSTORY

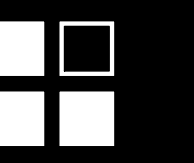


5 PATIO AREA

Original Issue Date: 04/01/14
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A10.1

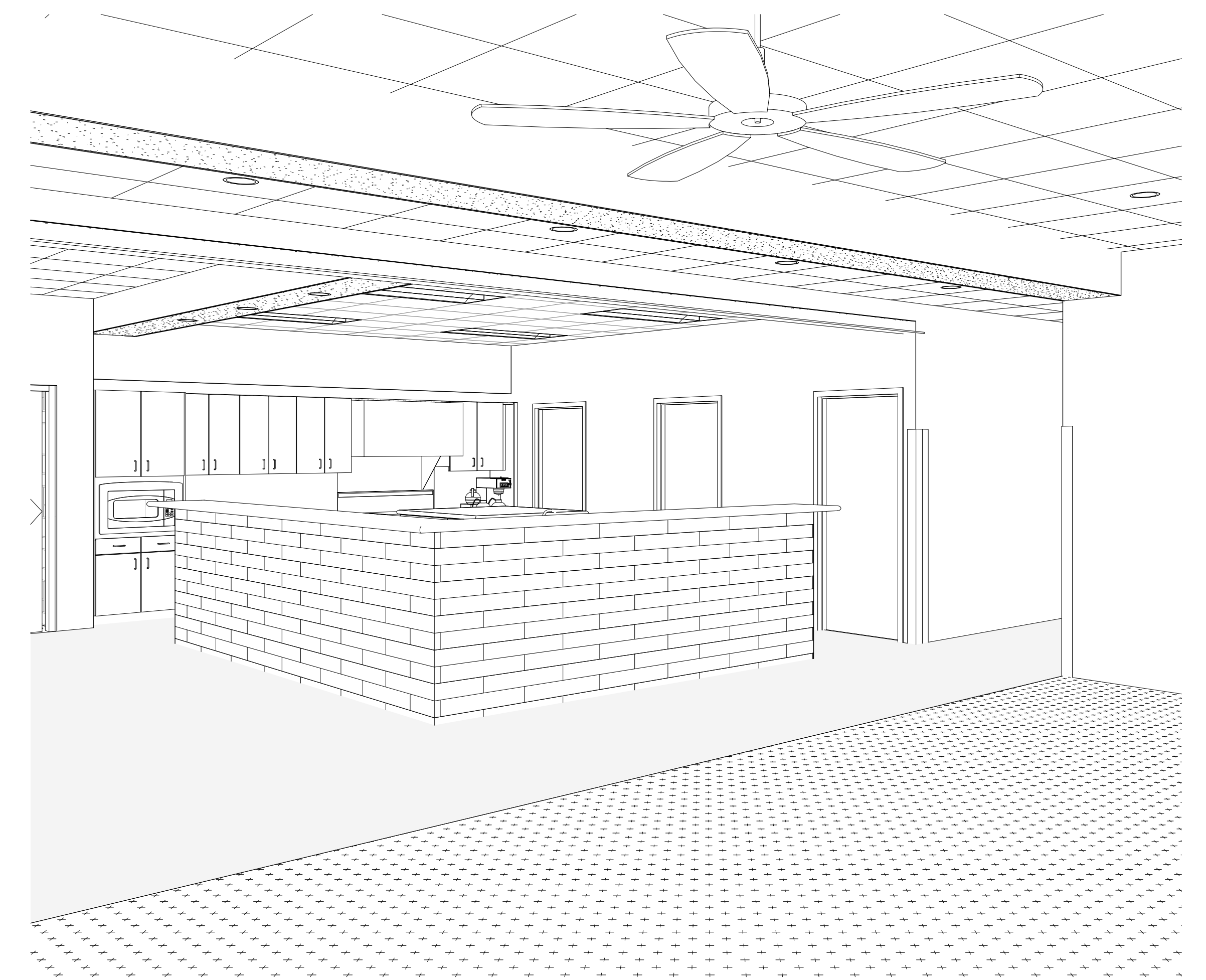
3D VIEWS



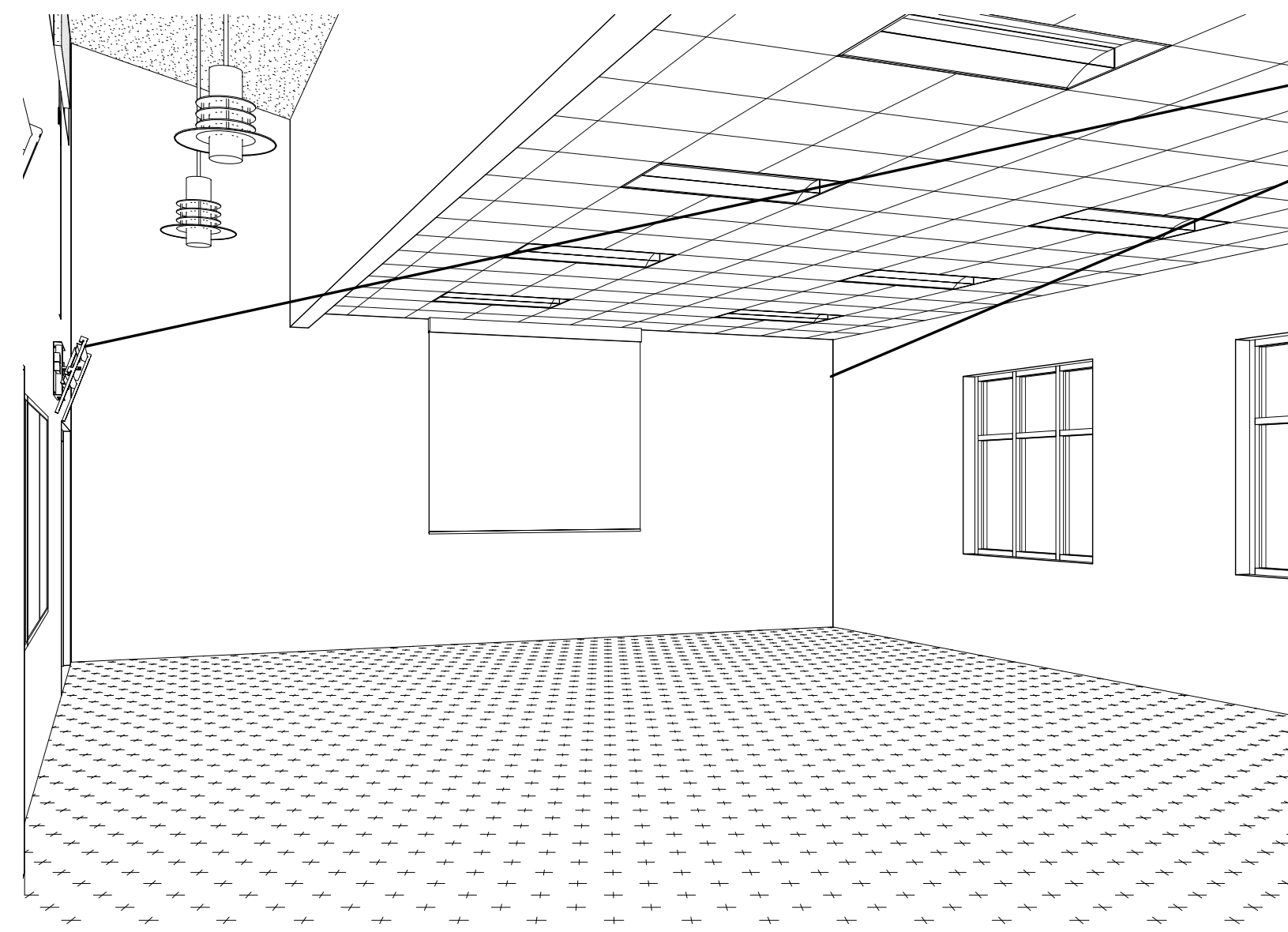
1 RECEPTION 109



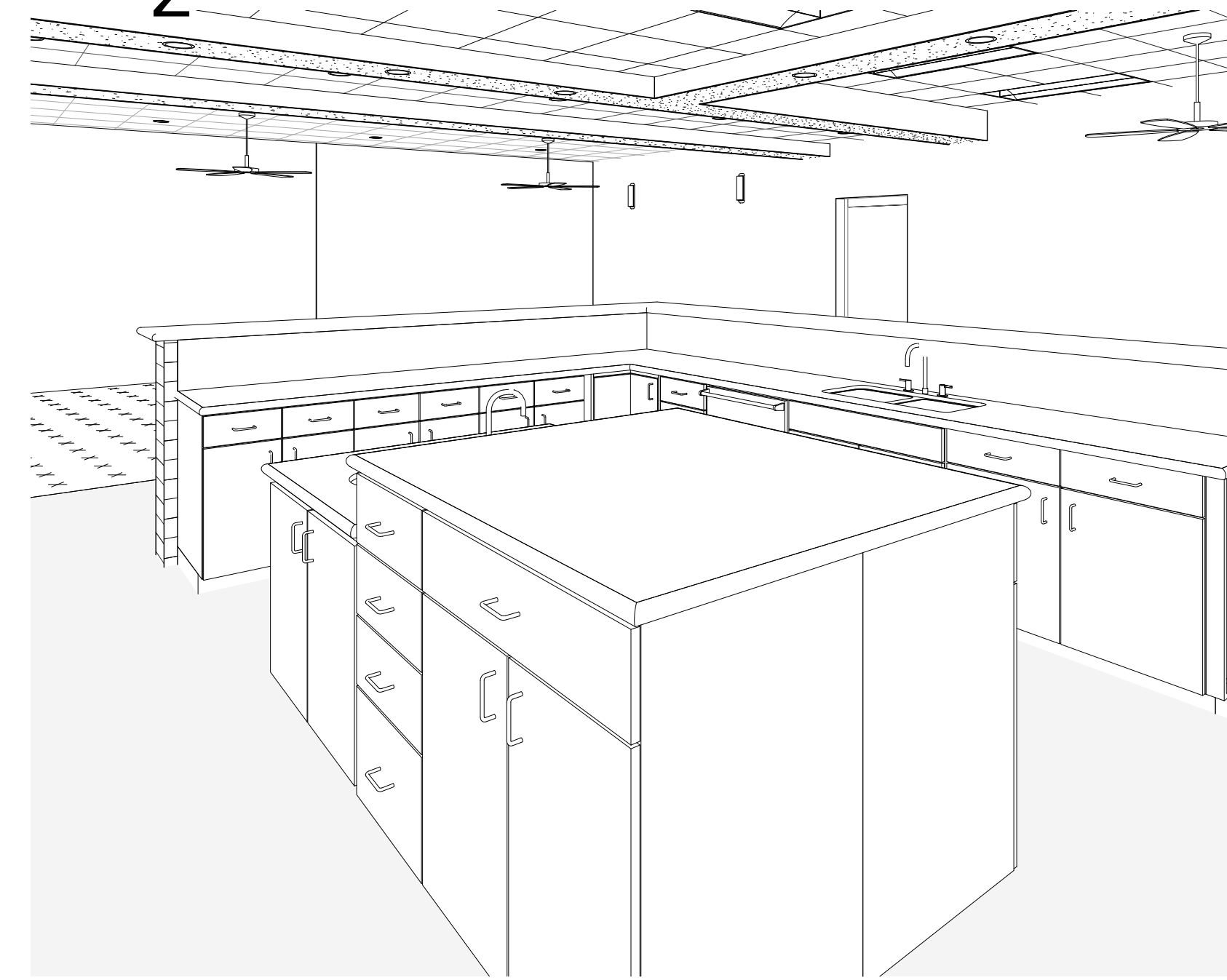
2 CORRIDOR 117 TOWARD LOBBY



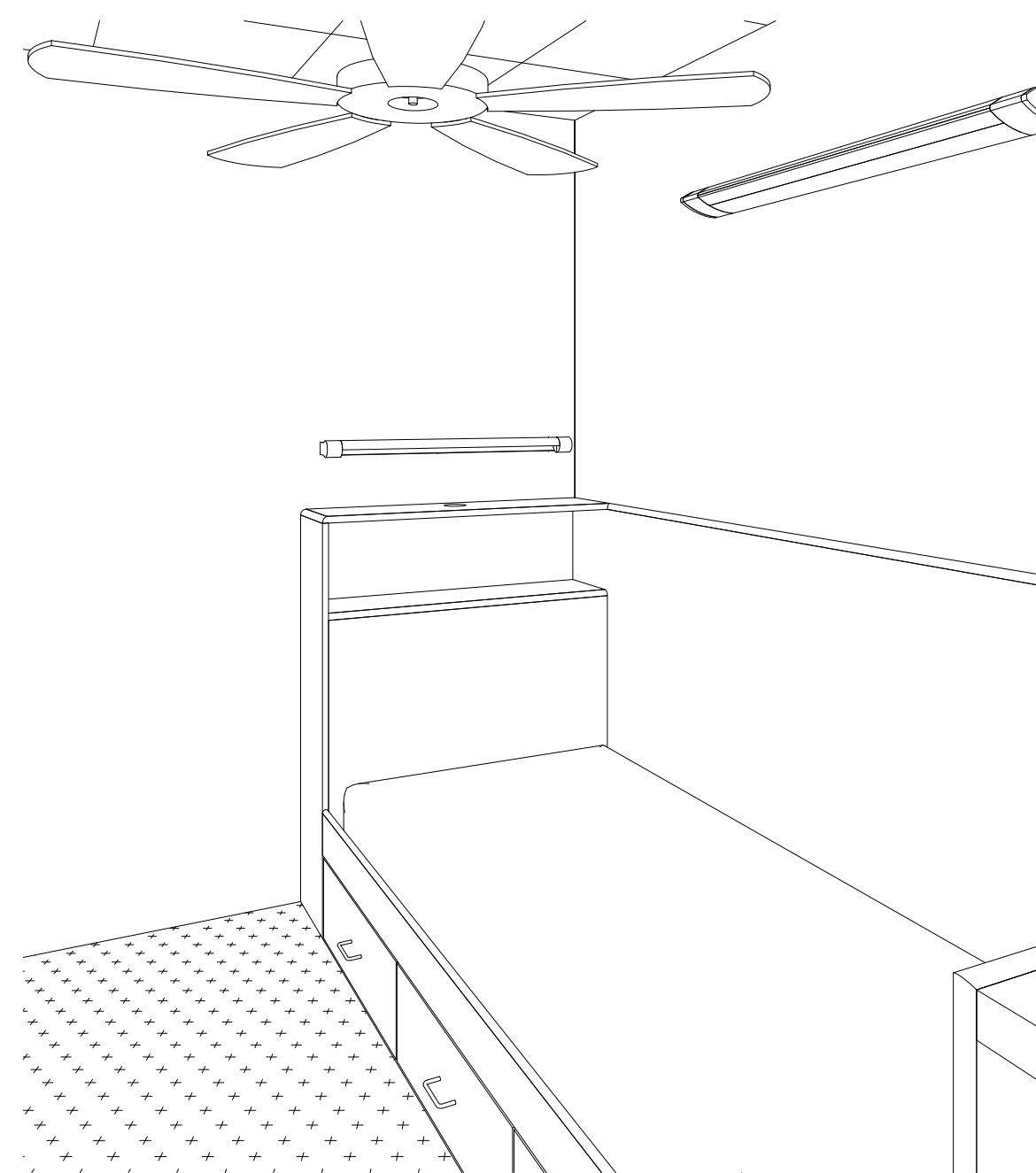
5 LIVING TOWARD KITCHEN



7 TRAINING TOWARD FRONT



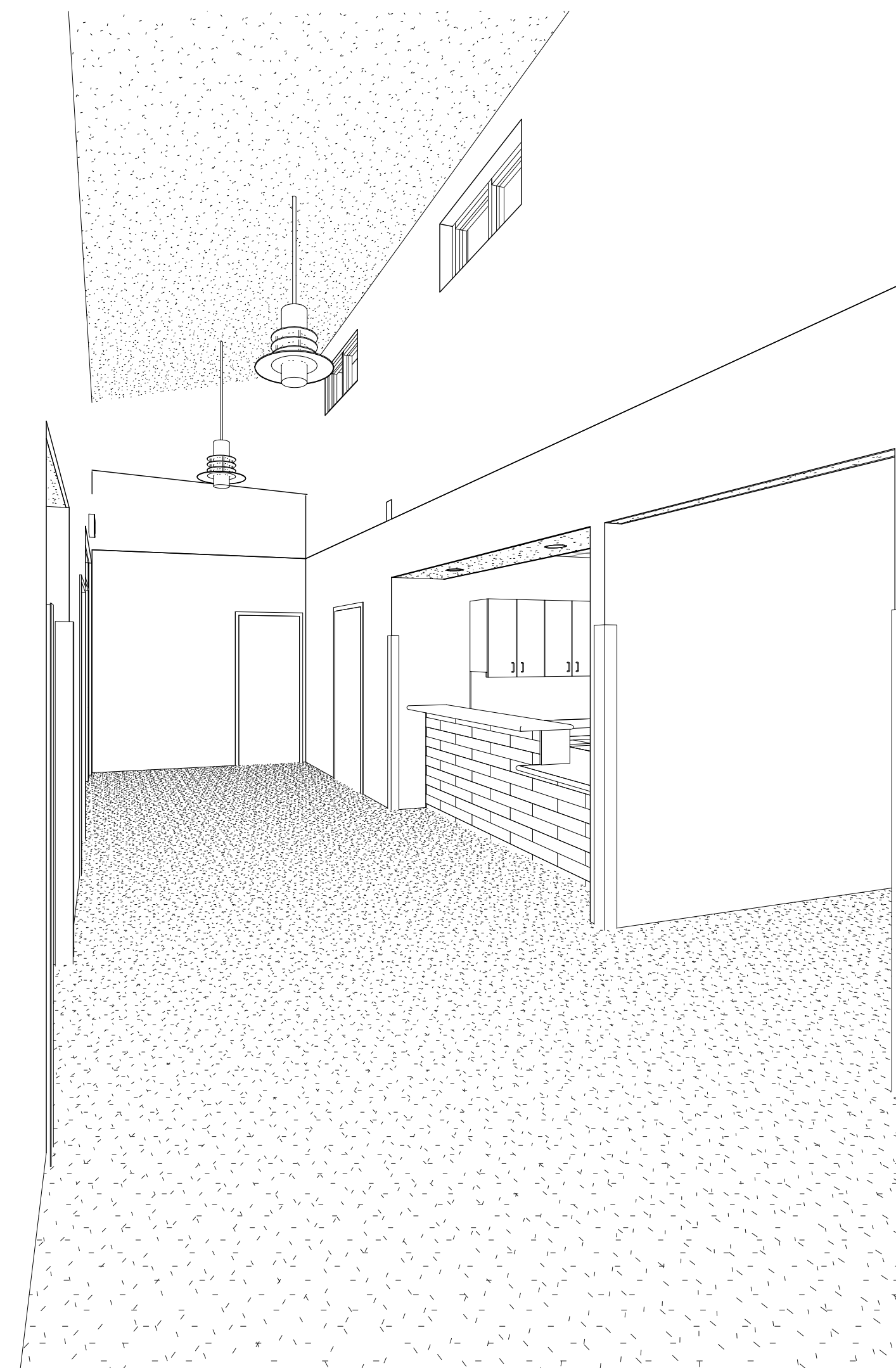
9 KITCHEN 124



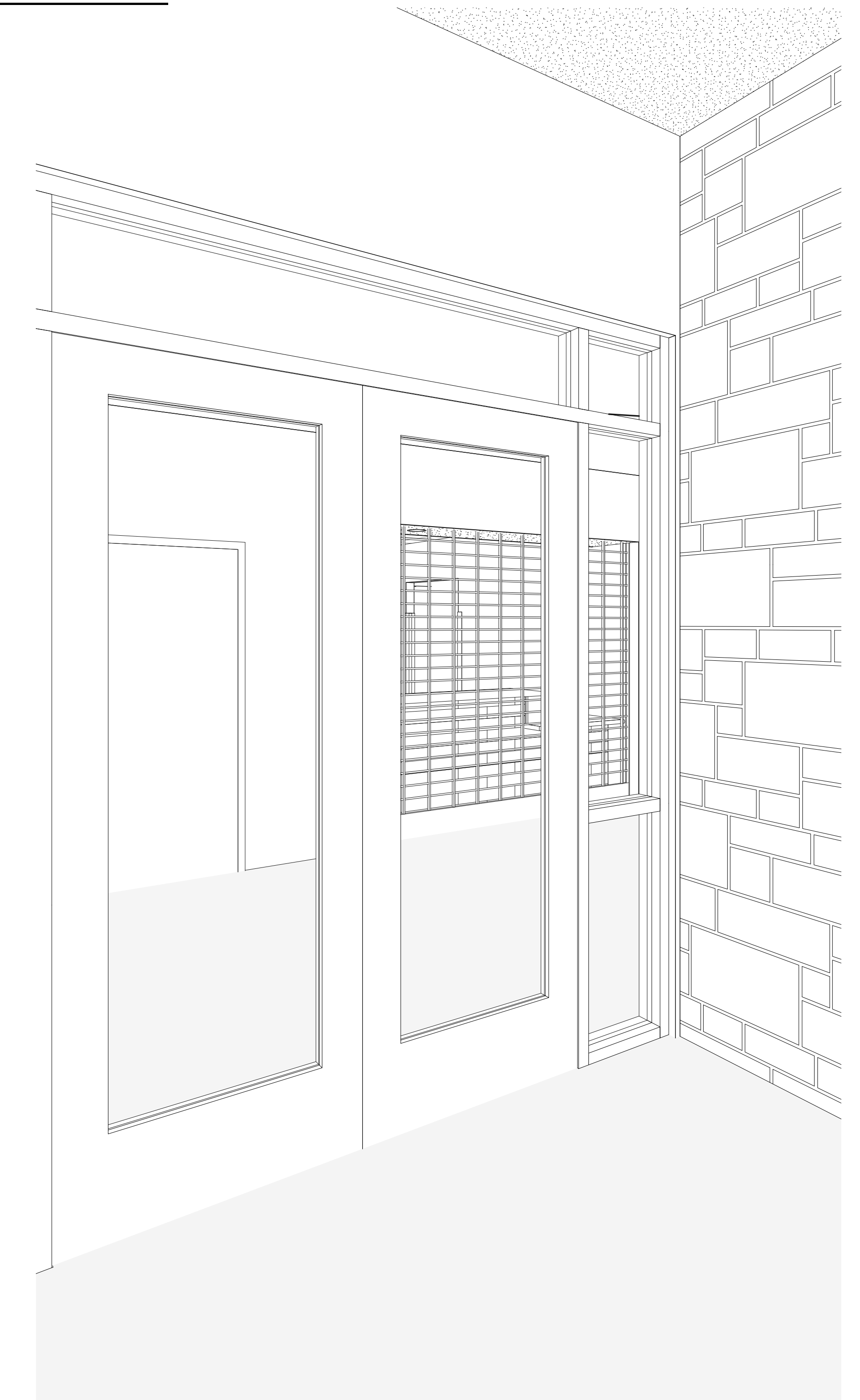
3 DORM TYP.



6 LOBBY TOWARD TRAINING



4 LOBBY TOWARD FIRE STATION

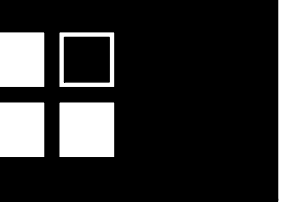


8 ENTRY THRU TO LOBBY

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Sheet No.
A10.2
3D VIEWS

GENERAL

- 1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE.
- 2. LOADS THAT HAVE BEEN USED IN THE STRUCTURAL DESIGN INCLUDE THE FOLLOWING:

DEAD LOADS:

DEAD LOADS HAVE BEEN CALCULATED TO INCLUDE THE ACTUAL WEIGHT OF ALL WORK SHOWN ON THE STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

ROOF DEAD LOADS:

INSULATION..... 6.0 PSF
METAL DECK..... 3.0 PSF
ROOF MEMBRANE..... 1.0 PSF
SPRINKLERS..... 2.0 PSF
CEILING..... 2.0 PSF
MEP..... 4.0 PSF
TOTAL DEAD LOAD..... 18.0 PSF

ROOF LIVE LOAD (BEFORE REDUCTIONS)..... 20 PSF

SNOW LOAD:

GROUND SNOW LOAD (Pg) = 10 psf
SNOW IMPORTANCE FACTOR = 1.2 (CATAGORY IV)

FLOOR LIVE LOADS:

CORRIDORS AND STAIRWAYS.....100 PSF
ASSEMBLY AREAS.....100 PSF
LIGHT STORAGE AREAS.....125 PSF
ALL OTHER AREAS.....100 PSF

WIND LOADS:

WIND PRESSURES IN ALL DIRECTIONS HAVE BEEN CALCULATED BASED ON A WIND SPEED OF 90 MPH.

WIND LOADS ARE CALCULATED IN ACCORDANCE WITH ASCE 7-05 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".

WIND IMPORTANCE FACTOR - I = 1.15 (CATEGORY IV)
WIND EXPOSURE CATEGORY - C

UPLIFT ON ROOF:

REFER TO DIAGRAMS ON 90.02.

SEISMIC LOADS:

BASED ON INTERNATIONAL BUILDING CODE (IBC 2009)
BUILDING CLASSIFICATION..... IV
IMPORTANCE FACTOR, I..... 1.5
OCCUPANCY CATEGORY..... IV
SHORT PERIOD SPECTRAL ACCELERATION..... Ss = XXX
ONE SECOND SPECTRAL ACCELERATION..... S1 = XXX
SITE CLASSIFICATION..... C
SPECTRAL RESPONSE COEFFICIENT..... SDS = XXX
SPECTRAL RESPONSE COEFFICIENT..... SD1 = XXX
SEISMIC DESIGN CATEGORY..... A
BASIS SEISMIC-FORCE-RESISTING SYSTEM ... ORDINARY STEEL CONCENTRICALLY BRACED FRAMES

DESIGN BASE SHEAR..... XXX
SEISMIC RESPONSE COEFFICIENT CS..... XXX
RESPONSE MODIFICATION FACTOR R..... XXX
ANALYSIS PROCEDURE..... EQUIVALENT LATERAL FORCE
- 3. COMPLETE SHOP DRAWINGS FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS. REVIEW OF SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK.
- 4. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE SHOWN ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
- 5. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL DETAILS.
- 6. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- 7. PRINCIPAL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRIC, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS AND SIMILAR DETAILS NOT SHOWN. SIZE AND LOCATION OF ALL OPENINGS SHALL BE VERIFIED BY THE CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.
- 8. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
- 9. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.
- 10. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.
- 11. CONSTRUCTION MATERIALS SHALL NOT BE STORED ON FLOORS OR ROOFS IN EXCESS OF THE DESIGN LIVE LOADS. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON FLOORS OR ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE THESE REQUIREMENTS.
- 12. IF ANY INCONSISTENCIES OR DISCREPANCIES OCCUR WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE GREATER QUANTITY OF ITEMS SHOWN, AND THE MOST COSTLY PRODUCT OR INSTALLATION METHOD SHALL BE PROVIDED, UNLESS INSTRUCTED OTHERWISE BY THE ENGINEER. IT SHALL BE DEEMED THAT THE CONTRACTOR BID AND INTENDS TO EXECUTE THE MORE STRINGENT OR HIGHER QUALITY REQUIREMENTS WITHOUT ANY INCREASE TO THE CONTRACT SUM OR CONTRACT TIME.
- 13. THE CONSTRUCTION DATUM AT FINISHED FLOOR = 100' - 0". REFER TO THE CIVIL PLANS FOR THE ACTUAL ELEVATION AT THE BUILDING.

METAL DECKING

- 1. ALL METAL DECKING SHALL COMPLY WITH THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE FOR DESIGN AND ERECTION.
- 2. METAL DECKING SHALL BE INSTALLED CONTINUOUSLY ACROSS 3 OR MORE SPANS. DECKING SHALL BE ATTACHED TO STEEL AND FRAMEWORK IMMEDIATELY AFTER ALIGNMENT.
- 3. TYPICAL ROOF DECK SHALL BE 22 GAUGE, 3" DEEP WIDE RIB DECK, ASTM A446, MINIMUM YIELD POINT OF 33,000 PSI, WITH MANUFACTURER'S STANDARD BAKED ON COATING, U.N.O. AT APPARATUS BAYS. ATTACH TO SUPPORTS IN 24/4 PATTERN WITH 5/8" DIA. PUDDLE WELDS. PROVIDE 8-#10 TEK SCREW SIDELAP FASTENERS PER SPAN. METAL DECK SHALL HAVE A DIAPHRAGM SHEAR CAPACITY OF 310 PLF.

EARTHWORK AND FOUNDATIONS

- 1. THE FOUNDATION DESIGN IS IN ACCORDANCE WITH A GEOTECHNICAL REPORT BY ALPHA TESTING, INC. DATED DECEMBER 18, 2013 (PROJECT NUMBER G132036). EXCERPTS FROM THE ABOVE REFERENCED REPORT ARE PROVIDED FOR INFORMATIONAL PURPOSES. REFER TO THE GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION REQUIREMENTS.
- 2. RECOMMENDATIONS FROM THE GEOTECHNICAL REPORT ALLOW FOR MAXIMUM TOTAL MOVEMENT AFTER CONSTRUCTION OF 1".
- 3. A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE RETAINED BY THE OWNER, TO OBSERVE ALL GRADING OPERATIONS AND THE REQUIRED TESTING FOR IMPLEMENTING THE RECOMMENDATIONS OF THE AFOREMENTIONED GEOTECHNICAL REPORT AND THE SPECIFICATIONS. THESE TESTS AND OBSERVATIONS SHOULD INCLUDE BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:
 - OBSERVATION AND TESTING DURING SITE PREPARATION AND EARTHWORK
 - CONSULTATION AS REQUIRED DURING CONSTRUCTION
 - VERIFY THAT THE BUILDING PAD IS SUITABLE FOR CONSTRUCTION
 - OBSERVATION OF THE PIER DRILLING OPERATION AND VERIFICATION THAT THE BEARING STRATA OF THE DESIGN BEARING CAPACITY HAS BEEN ENCOUNTERED.
- 4. LOCATE ALL UTILITIES AND UNDERGROUND SERVICES PRIOR TO FOUNDATION EXCAVATION. THE ENGINEER SHALL BE NOTIFIED IN CASE OF CONFLICT.

THE SUBGRADE SHALL BE STRIPPED OF ANY EXISTING PAVEMENTS, STRUCTURES, SURFACE VEGETATION, HIGHLY ORGANIC SOIL, AND ANY OTHER DELETERIOUS MATERIALS. EXCAVATE TO PROPOSED BEARING ELEVATIONS, AND REMOVE ANY LOOSE MATERIALS, DETACHED ROCK OR UNSUITABLE FILL MATERIAL, AND BACKFILL WITH LEAN CONCRETE AS OUTLINED IN THE GEOTECHNICAL REPORT.
- 6. THE CONTRACTOR SHALL ENGAGE A REGISTERED SURVEYOR TO PERFORM SURVEYS, LAYOUTS, AND MEASUREMENTS FOR PIER WORK. THIS INCLUDES LAYOUT WORK FOR EACH PIER TO LINES AND LEVELS REQUIRED BEFORE EXCAVATION, AND MEASUREMENTS OF EACH PIER'S ACTUAL FINAL LOCATION. PIERS SHALL BE CONSTRUCTED WITHIN THE FOLLOWING CENTERLINE TOLERANCES:
 - MAXIMUM PERMISSIBLE VARIATION OF LOCATION: NOT MORE THAN 1".
 - SHAFTS OUT OF PLUMB: NOT MORE THAN 1% OR 2"
 - CONCRETE CUT-OFF ELEVATION : PLUS 1" TO MINUS 2".
- 7. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER 24 HOURS PRIOR TO COMMENCEMENT OF DRILLING. EACH PIER EXCAVATION SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETING.

DRILLED PIERS ARE DESIGNED FOR AN ALLOWABLE END BEARING OF 20,000 PSF FOR BEARING IN TAN WEATHERED SHALY LIMESTONE AND/OR GRAY SHALY LIMESTONE, AND AN ALLOWABLE SKIN FRICTION OF 3,000 PSF AT A MINIMUM PENETRATION OF 3'-0" INTO TAN WEATHERED SHALY LIMESTONE. A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY THAT THESE VALUES ARE APPROPRIATE FOR THE MATERIALS ENCOUNTERED.

CONCRETE AND REINFORCING STEEL SHALL BE PLACED IMMEDIATELY AFTER THE EXCAVATION HAS BEEN COMPLETED AND INSPECTED BY THE GEOTECHNICAL ENGINEER TO ASSURE COMPLIANCE WITH DESIGN ASSUMPTIONS AND TO VERIFY:
 - THE BEARING STRATUM
 - THE MINIMUM PENETRATION
 - THE REMOVAL OF ALL SMEAR ZONES AND CUTTINGS
 - THAT GROUNDWATER SEEPAGE IS CORRECTLY HANDLED
 - THE COMPETENCE OF THE BEARING STRATUM FOR THE FULL SECTION OF THE DESIGN PENETRATION
- PROVIDE PIER BOLSTERS AND CENTERING DEVICES FOR PIER REINFORCEMENT BY PIERSEARCH OR APPROVED EQUAL.
- 10. "MUSHROOMING" AT THE TOP OF THE PIERS IS PROHIBITED.
- 11. EXCAVATIONS FOR THE SHAFTS MUST BE MAINTAINED IN THE DRY. IT SHOULD BE ANTICIPATED THAT SEEPAGE WILL BE ENCOUNTERED DURING EXCAVATION OF THE SHAFT AND THAT CASING WILL BE REQUIRED. THE CASING SHALL BE SEATED IN THE TOP OF THE ROCK BEARING STRATUM WITH ALL SOIL, WATER AND LOOSE MATERIAL OR DETACHED ROCKS REMOVED PRIOR TO BEGINNING THE DESIGN PENETRATION. CARE MUST THEN BE TAKEN THAT A SUFFICIENT HEAD OF PLASTIC CONCRETE IS MAINTAINED WITHIN THE CASING DURING EXTRACTION.
- PIER EXCAVATIONS SHALL BE DRY AND FREE OF SOIL AND DELETERIOUS MATERIALS PRIOR TO CONCRETE PLACEMENT. THE PENETRATION OF INDIVIDUAL SHAFTS SHALL BE EXCAVATED IN A CONTINUOUS OPERATION AND CONCRETE PLACED AS SOON AS PRACTICAL AFTER COMPLETION OF THE DRILLING IN ORDER TO PREVENT DETERIORATION OF BEARING SURFACES AND TO REDUCE THE POSSIBILITY OF SEEPAGE PROBLEMS. NO SHAFT SHALL BE LEFT OPEN FOR MORE THAN 8 HOURS.
- 14. THE GRADE BEAMS SHALL BE FORMED ON BOTH SIDES. EARTH FORMING IS PROHIBITED.
- 14. JOINTS IN CONCRETE ABUTTING THE BUILDING SHALL BE THOROUGHLY SEALED TO PREVENT THE INFILTRATION OF SURFACE WATER.
- 15. A 10 MIL POLYETHYLENE VAPOR BARRIER SHALL BE PLACED BENEATH THE SLAB TO RETARD MOISTURE MIGRATION THROUGH THE SLAB.
- 16. AFTER THE AREA BENEATH THE SLAB HAS BEEN STRIPPED, 5 FEET OF EXISTING SOIL SHALL BE REMOVED AND REPLACED WITH 5 FEET OF SELECT FILL.
- 17.

CAST IN PLACE CONCRETE

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- 2. MILD STEEL REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60.
- 3. WELDED STEEL WIRE FABRIC SHALL CONFORM TO ASTM A 185. ALL WELDED STEEL WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS, NOT IN ROLLS.
- 4. MILD STEEL REINFORCEMENT AND ACCESSORIES SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI SP-66.
- 5. PORTLAND CEMENT SHALL BE A SINGLE BRAND CONFORMING TO ASTM C 150, TYPE I OR II, UNLESS OTHERWISE NOTED.
- 6. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C 33. ALL CONCRETE SHALL USE NORMAL WEIGHT AGGREGATES, UNLESS NOTED OTHERWISE.
- 7. ALL ADDITIVES FOR AIR ENTRAINMENT, WATER REDUCTION, AND SET CONTROL SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. THE USE OF CALCIUM CHLORIDE IS PROHIBITED.
- 8. MIXES SHALL BE DESIGNED TO PROVIDE CONCRETE WITH A COMPRESSIVE STRENGTH AT 28 DAYS (F'c) AS FOLLOWS:
 - PIERS.....3,000 PSI
 - STRUCTURAL SLAB AND GRADE BEAMS.....5,000 PSI
 - ALL OTHER CONCRETE.....3,000 PSI
- 9. THE MAXIMUM NOMINAL SIZE OF COARSE AGGREGATE SHALL BE AS FOLLOWS:
 - ELEVATED SLABS AND BEAMS.....3/4"
 - PIERS AND SLABS-ON-GRADE.....1 1/2"
 - ALL OTHER CONCRETE.....1"
- 10. CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED AS FOLLOWS:
 - 3/4" MAX. AGGREGATE.....3 1/2% TO 6 1/2%
 - 1" MAX. AGGREGATE.....3% TO 6%
 - 1 1/2" MAX. AGGREGATE.....3% TO 6%AIR CONTENT SHALL BE CHECKED BY AN ACI APPROVED TESTER WITH AN AIR METER.
- 11. CONCRETE SLUMPS SHALL BE AS FOLLOWS:
 - RAMPS AND SLOPING SURFACES.....3" MAX.
 - CONCRETE CONTAINING SUPERPLASTICIZER.....8" MAX.
 - PIERS.....6" MAX.
 - ALL OTHER CONCRETE.....4" MAX.
- 12. MILD STEEL REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".
- 13. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS (UNLESS NOTED OTHERWISE ON THE DRAWINGS):
 - GRADE BEAMS.....1 1/2" TOP AND SIDES
 -3" BOTTOM
 - SUSPENDED SLAB.....1 1/2" TOP
 -2" BOTTOM
 - SLABS-ON-GRADE.....1 1/2" TOP
 -3" BOTTOM
 - PIERS.....3" SIDES AND BOTTOM
- 14. REINFORCING BARS NO. 11 AND SMALLER SHALL BE CONTACT LAP SPliced 65 BAR DIAMETERS, UNLESS NOTED OTHERWISE. BARS LARGER THAN NO. 11 SHALL BE MECHANICALLY SPliced WITH APPROVED DEVICES. WELDED WIRE FABRIC SHALL BE SPliced BY LAPPING ONE FULL MESH AND LACING THE SPlices WITH WIRE. ALL SPlices SHALL BE STAGGERED.
- 15. WELDING OF MILD STEEL REINFORCEMENT SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - REINFORCING STEEL," AWS D-1.4.
- 16. THE TESTING LABORATORY SHALL BE NOTIFIED AFTER THE MILD STEEL REINFORCEMENT AND EMBEDS ARE POSITIONED PRIOR TO EACH CONCRETE PLACEMENT. NO CONCRETE SHALL BE PLACED UNTIL THESE ITEMS ARE CHECKED AND APPROVED BY THE TESTING LABORATORY.
- 17. EACH AREA OF CONCRETE WORK SHALL BE FINISHED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS. CHAMFERS SHALL BE PROVIDED IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS.
- 18. THE USE OF FLY ASH AS A PARTIAL REPLACEMENT FOR CEMENT WILL BE ALLOWED AT THE CONTRACTOR'S OPTION. FLY ASH SHALL MEET THE REQUIREMENTS OF ASTM C 618, CLASS F OR C, WITH THE FOLLOWING AMENDMENTS: A CLASS F FLY ASH CAN REPLACE 20 TO 30 PERCENT OF THE PORTLAND CEMENT AND A CLASS C FLY ASH CAN REPLACE 25 TO 35 PERCENT. REFER TO SPECIFICATIONS FOR MINIMUM CONTENT REQUIREMENTS AND SUBMITTAL REQUIREMENTS. FLY ASH SHALL NOT BE USED IN CONCRETE MIXES FOR STRUCTURAL SLAB AND OTHER ARCHITECTURALLY EXPOSED CONCRETE.
- 19. EMBEDDED ITEMS WITH HEADED CONCRETE ANCHORS (HCA) SHALL BE INSTALLED IN PLASTIC CONCRETE IN ORDER TO MINIMIZE ADJACENT VOIDS AND ENSURE PROPER BEHAVIOR OF HCA. THE CONCRETE SURROUNDING THESE EMBEDDED ITEMS SHALL BE THOROUGHLY CONSOLIDATED.
- 20. FLOOR SLAB THICKNESS IS BASED UPON SERVICE LOADS ONLY. PLACEMENT OF A CRANE OR TRUCK ON THE FLOOR SLAB FOR ERECTION PURPOSES IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND ADEQUATE SLAB TO SUPPORT CRANE LOADS IF CRANES ARE REQUIRED TO BE PLACED ON THE SLAB.
- 21. CONCRETE SHALL REACH 75% OF SPECIFIED STRENGTH BEFORE CONSTRUCTION LOADS ARE APPLIED.
- 22. IF THE AIR TEMPERATURE IS EXPECTED TO BE GREATER THAN 90 DEGREES WITHIN 24 HOURS AFTER PLACEMENT, HOT WEATHER CONCRETE PROCEDURES SHALL BE USED. CURING COMPOUNDS SHALL NOT BE USED ON STRUCTURAL SLAB.

STEEL

- 1. STRUCTURAL STEEL SHALL BE NEW STEEL AND SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- 2. STRUCTURAL STEEL W-SHAPES SHALL CONFORM TO ASTM A 992, UNLESS NOTED OTHERWISE. OTHER ROLLED SHAPES AND PLATES SHALL CONFORM TO ASTM A 36, UNLESS NOTED OTHERWISE.
- 3. STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A 53, TYPE "E" OR "S", GRADE B.
- 4. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A 500, GRADE B.
- 5. SHEAR STUDS SHALL CONFORM TO AWS D1.1, TYPE B.
- 6. ALL STRUCTURAL STEEL CONNECTIONS AND DETAILS SHALL CONFORM TO THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", DATED MARCH 2005, EXCLUDING SECTION 4.4.
- 7. ALL CONNECTIONS NOT FULLY DETAILED ON DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS. CONNECTION DESIGNS SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE AISC MANUAL, THIRTEENTH EDITION LRFD. CONNECTIONS SHALL BE DESIGNED FOR THE FACTORED LOADS SHOWN ON THE DRAWINGS. WHERE DESIGN LOADS ARE NOT SHOWN, THE CONNECTION SHALL BE DESIGNED FOR ONE-HALF OF THE TOTAL UNIFORM LOAD TABULATED IN THE "FACTORED UNIFORM LOAD TABLES" IN PART 4 OF THE AISC MANUAL FOR THE GIVEN BEAM, SPAN, AND GRADE OF STEEL SPECIFIED. EACH CONNECTION SHALL BE SHOWN IN DETAIL ON THE SHOP DRAWINGS AND SUBMITTED TO THE ENGINEER-OF-RECORD FOR REVIEW.
- 8. UNLESS NOTED OTHERWISE, ANCHOR RODS FOR CONNECTION OF COLUMN BASE PLATES TO CONCRETE FOUNDATION ELEMENTS SHALL CONFORM TO ASTM F 1554, GRADE 36.
- 9. UNFINISHED THREADED FASTENERS SHALL CONFORM TO ASTM A 307, GRADE A BOLTS AND NUTS WITH HEXAGONAL HEADS. UNFINISHED THREADED FASTENERS SHALL BE USED ONLY FOR BOLTED CONNECTIONS OF SECONDARY FRAMING MEMBERS TO PRIMARY MEMBERS, FOR TEMPORARY BRACING TO FACILITATE ERECTION, AND FOR ANCHORAGE TO MASONRY CONSTRUCTION.
- 10. BOLTED CONNECTIONS FOR PRIMARY MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS", DATED JUNE 30, 2004. UNLESS NOTED OTHERWISE, ALL PRIMARY CONNECTIONS WITH HIGH STRENGTH BOLTS SHALL USE ASTM A 325 BOLTS AND HEAVY HEX NUTS.
- 11. WELDED CONSTRUCTION SHALL CONFORM TO AWS D-1.1, "STRUCTURAL WELDING CODE." WELDING PROCESSES AND OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS STANDARD QUALIFICATION PROCEDURE. ELECTRODES FOR FIELD AND SHOP WELDS SHALL BE E70, UNLESS NOTED OTHERWISE. ALL WELDS SHALL BE INSPECTED PER AWS STANDARDS. DEFICIENCIES SHALL BE CORRECTED.
- 12. STEEL MEMBERS SHALL NOT BE SPICED EXCEPT WHERE SHOWN ON THE DRAWINGS.
- 13. ALL STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.
- 14. ALL ROOF FRAMING SHALL BE PITCHED AND / OR SET ON A SLOPE TO ACHIEVE THE END AND CENTER SPAN ELEVATIONS SHOWN ON THE DRAWINGS.
- 15. ALL STEEL SHAPES, PLATES, AND PIPE SHALL BE PRIMED IN THE SHOP IN ACCORDANCE WITH THE SPECIFICATIONS. ALL BOLTED CONNECTIONS AND FIELD WELDS SHALL BE PAINTED AFTER ERECTION. ANY DAMAGE TO SHOP COATINGS SHALL BE TOUCHED UP AFTER ERECTION.
- 16. ALL EXTERIOR EXPOSED STEEL SHALL BE HOT-DIP GALVANIZED PER THE SPECIFICATIONS. ANY DAMAGE TO GALVANIZED MEMBERS SHALL BE TOUCHED UP AFTER ERECTION.
- 17. WELDS AT ARCHITECTURALLY EXPOSED STEEL SHALL BE GROUND SMOOTH.

LIGHTGAGE METAL FRAMING

- 1. ALL STUD AND JOIST MEMBERS SHALL BE BY CLARK. STUDS SHALL HAVE A 1 5/8 INCH FLANGE AND JOISTS SHALL HAVE A 2 INCH FLANGE UNLESS NOTED OTHERWISE. TRACK MEMBERS SHALL HAVE THE SAME GAGE AS THE STUD SPECIFIED. ALL SCREWS SHALL BE TEKs BY ITW BUILD-EX, OR EQUAL.
- 2. ALL MEMBERS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.
- 3. WITH EACH TYPE OF METAL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING LINTELS, CLIP ANGLES, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.
- 4. FOR 16 GAUGE AND HEAVIER STUDS AND JOISTS, FABRICATE COMPONENTS OF STEEL SHEET WITH A MINIMUM YIELD POINT OF 50,000 PSI, ASTM A-570, GRADE 50.
- 5. FOR 16 GAUGE AND HEAVIER TRACK, FABRICATE COMPONENTS OF STEEL SHEET WITH A MINIMUM YIELD POINT OF 33,000 PSI, ASTM A-611, GRADE C.
- 6. FOR 18 GAUGE AND LIGHTER STUDS, JOISTS, AND TRACK, FABRICATE COMPONENTS OF STEEL SHEET WITH A MINIMUM YIELD POINT OF 33,000 PSI, ASTM A-611, GRADE C.
- 7. PROVIDE MANUFACTURER'S STANDARD GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A653.
- 8. ALL FRAMING MEMBERS SHALL BE SQUARE CUT FOR A SNUG FIT TO THE ATTACHING MEMBERS. AXIALLY LOADED STUDS SHALL BE INSTALLED TO ENSURE THAT THE ENDS ARE SQUARE AND TOUCH THE RUNNERS. ANY STUDS WHICH DO NOT BEAR DIRECTLY ON THE RUNNERS SHALL HAVE A 14 GAGE CLIP ANGLE ADDED TO THE SIDE OF THE STUD.
- 9. ALL MEMBERS MAY BE INSTALLED WITH SCREWS FOR ERECTION PURPOSES. AFTER ERECTION, ALL CONNECTING MEMBERS SHALL BE WELDED TOGETHER IN THE FIELD. ALL STUDS SHALL BE WELDED TO THE TOP AND BOTTOM TRACKS.
- 10. INSTALL HORIZONTAL BRIDGING IN ALL STUDS AT 4 FEET ON CENTER.
- 11. NO SPICES OF STUDS IS ALLOWED.
- 12. AT ALL STEEL COLUMNS IN STUD WALLS, WELD A STUD TO EACH FACE OF THE COLUMN WITH A 3 INCH LONG STITCH WELD AT 24 INCHES ON CENTER.
- 13. EXTERIOR WALLS OF LIGHTGAGE FRAMING TO HAVE 1/2" EXTERIOR GRADE PLYWOOD SHEATHING COMPLYING WITH DOC PS 1 OR PS 2, FULL HEIGHT. PLYWOOD SHEATHING SHALL BE ATTACHED TO STEEL FRAMING WITH NO. 8 OR NO. 10, FLAT-HEAD SELF-DRILLING TAPPING SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE STUDS. PROVIDE SOLID BLOCKING AT ALL PANEL EDGES TO RECEIVE EDGE FASTENERS.
- 14. INTERIOR DESIGNATED SHEAR WALLS OF LIGHTGAGE FRAMING TO HAVE 1/2" PLYWOOD SHEATHING COMPLYING WITH DOC PS 1 OR PS 2, FULL HEIGHT. PLYWOOD SHEATHING SHALL BE ATTACHED TO STEEL FRAMING WITH NO. 8 OR NO. 10, FLAT-HEAD SELF-DRILLING TAPPING SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE STUDS. PROVIDE SOLID BLOCKING AT ALL PANEL EDGES TO RECEIVE EDGE FASTENERS.
- 15. PROVIDE FLAT STRAP BOTTOM BRIDGING AT LEAST ONE INCH WIDE BY 12 GAGE AT 1/4 POINTS OF JOISTS, OR 8'-0" O.C. WHICHEVER IS LEAST. BRIDGING SHALL BE ATTACHED TO JOISTS WITH A MINIMUM OF TWO #12 TEK SCREWS. ANY TOP FLANGE BRIDGING REQUIRED FOR ERECTION SHALL BE INSTALLED AS REQUIRED.
- 16. CLIPS, HOLD-DOWNS, AND JOIST HANGERS SHALL BE SIMPSON CONNECTORS AND SHALL BE INSTALLED ACCORDING TO THE SPECIFICATIONS OF SIMPSON STRONG-TIE COMPANY, INC.
- 17. SILL PLATES AT EXTERIOR WALLS AND DESIGNATED SHEAR WALLS SHALL BE BOLTED TO THE FOUNDATION WITH EITHER SIMPSON TITAN HD (1/2 INCH DIA, 4 INCH MINIMUM EMBEDMENT) AT 16 INCHES O.C. OR SIMPSON SSB16 ANCHOR BOLTS AT 24 INCHES O.C.
- 18. HOLD-DOWNS AT EXTERIOR WALLS AND DESIGNATED SHEAR WALLS SHALL BE SIMPSON S/HD15S HOLDDOWN WITH 1 INCH DIAMETER ANCHOR RODS (12" MIN. EMBEDMENT) OR 1 INCH DIAMETER ANCHOR ROD WITH SET XP ADHESIVE (18 INCH MIN. EMBEDMENT).

Original Issue Date: 1-31-14
Revisions:

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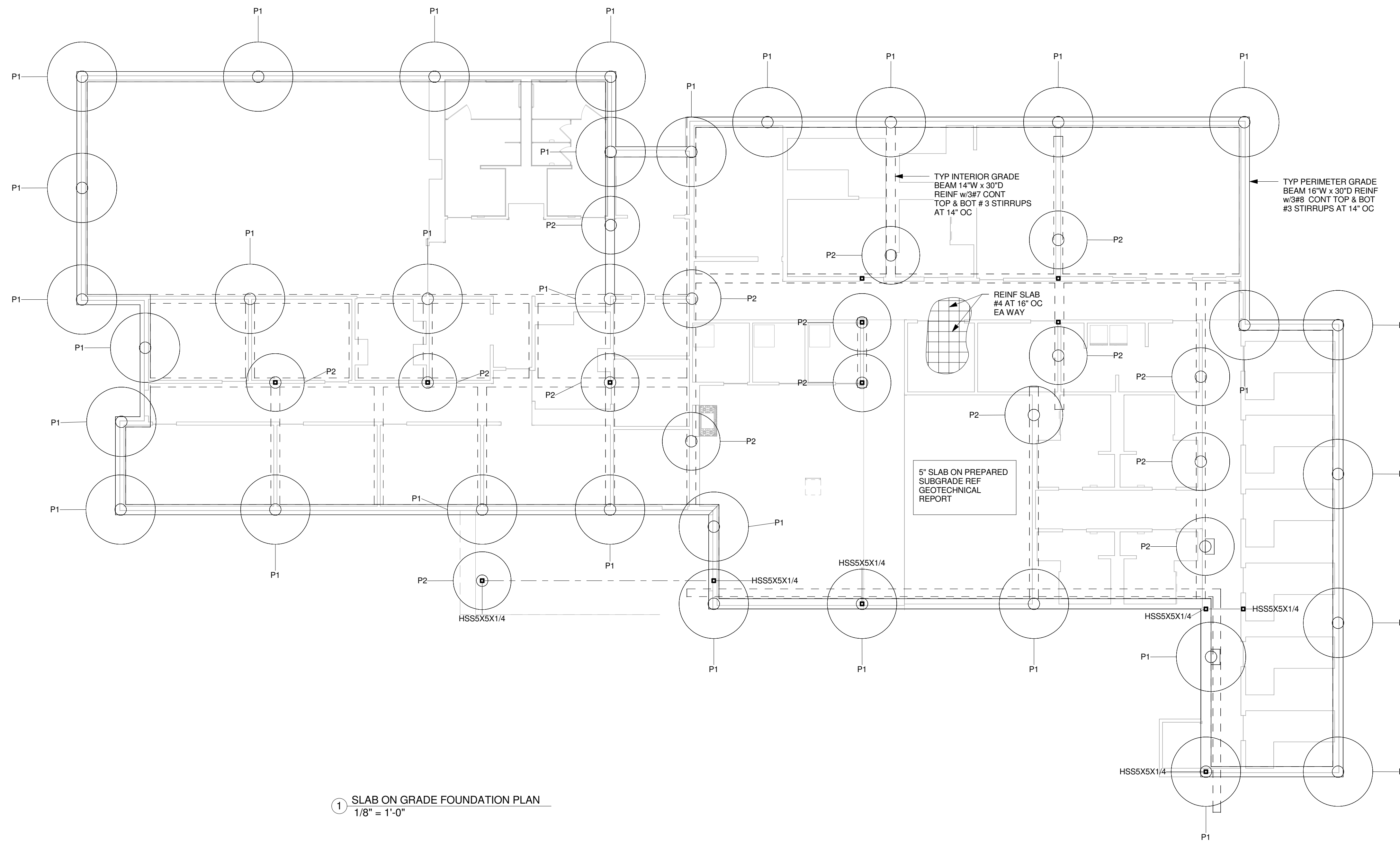
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S.0

GENERAL NOTES

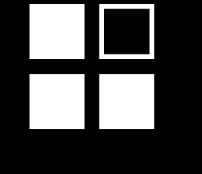


① SLAB ON GRADE FOUNDATION PLAN
1/8" = 1'-0"

Original Issue Date: 1-21-14
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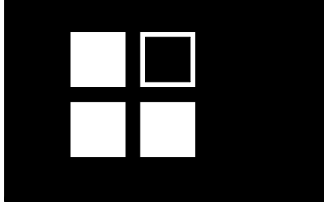
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S.1
SLAB ON GRADE FOUNDATION PLAN



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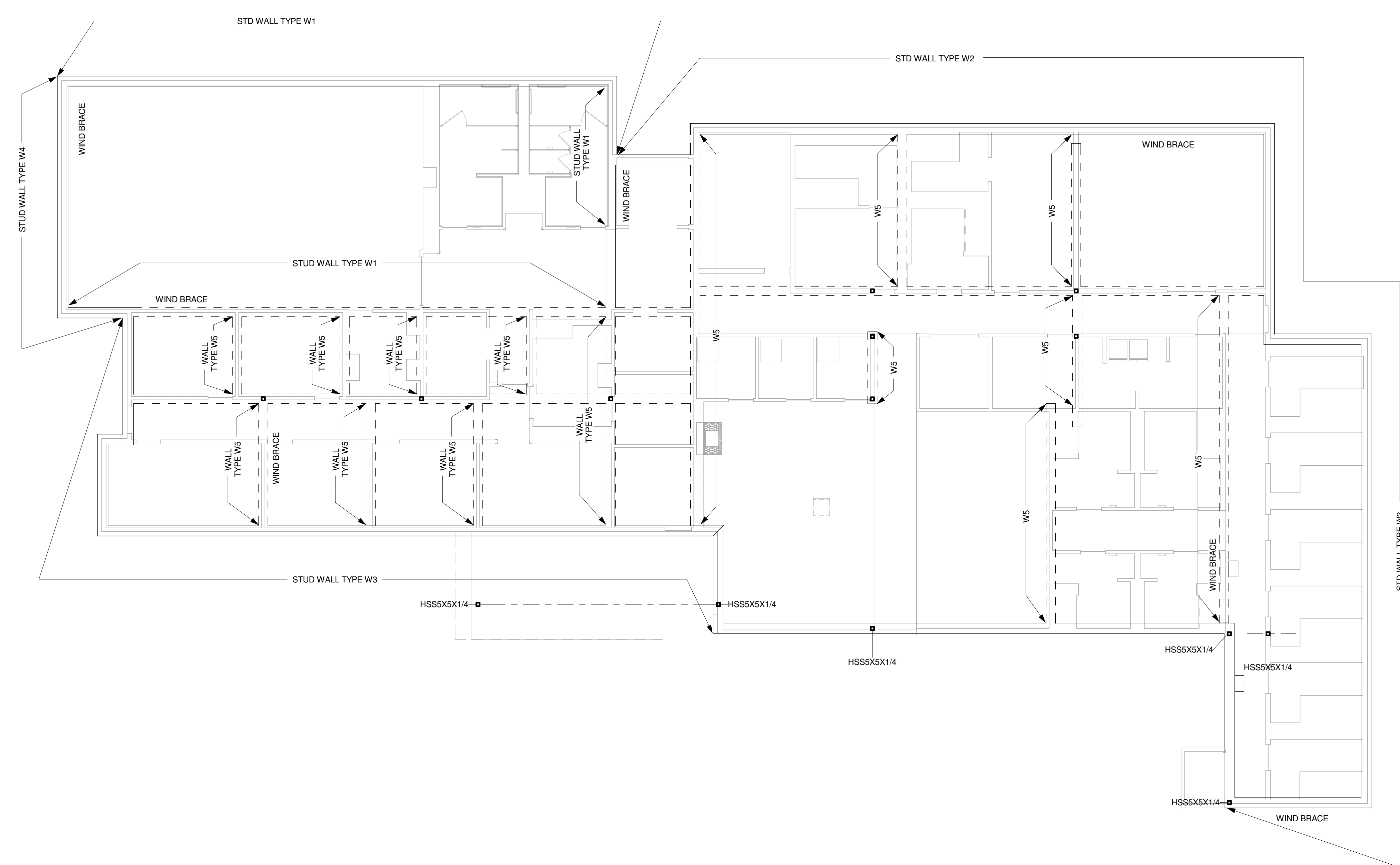
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 TEXAS REGISTRATION No. 61307
 DATE: 1/28/14

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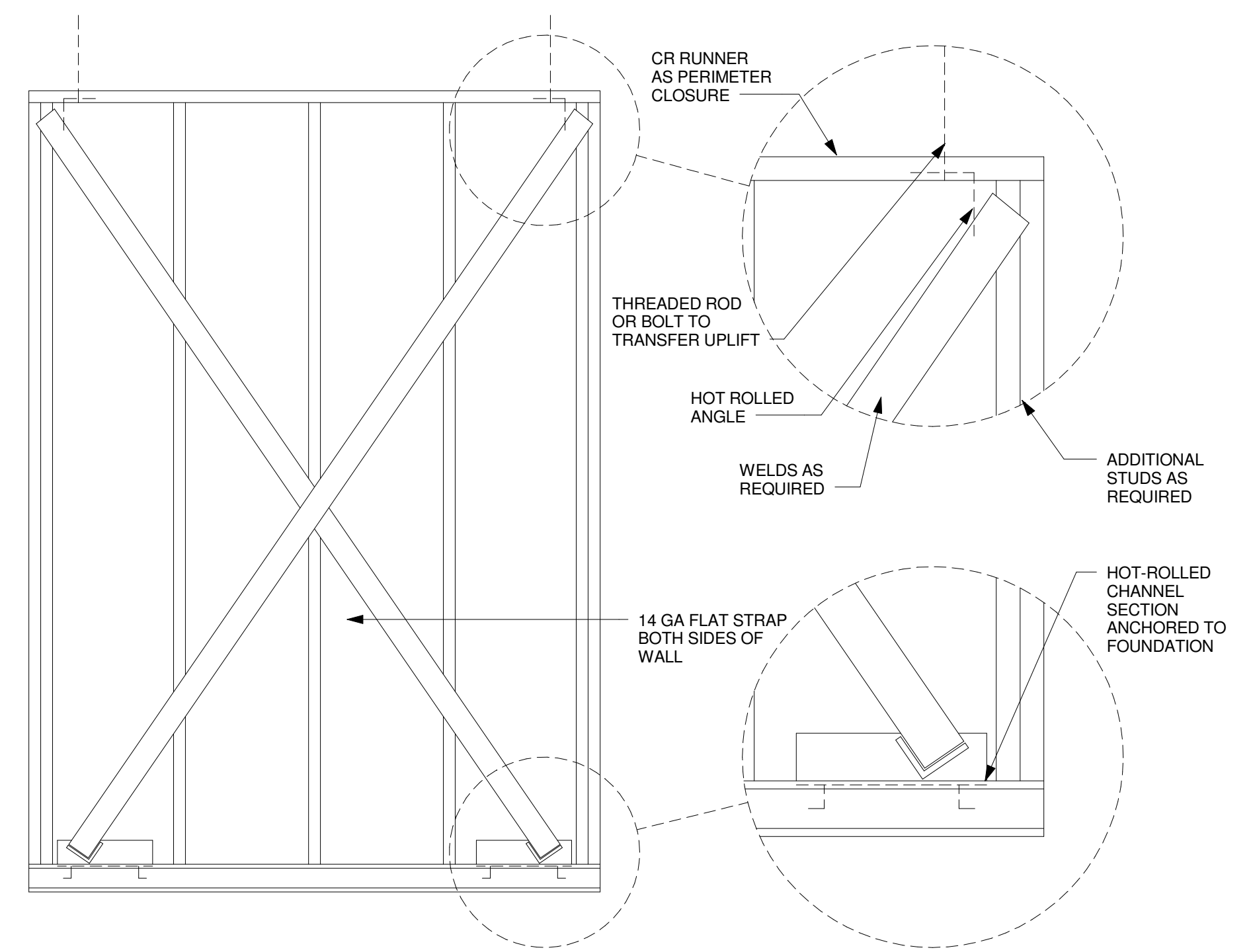
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S.2
 LOAD BEARING LIGHT GAGE METAL STUD WALL PLAN

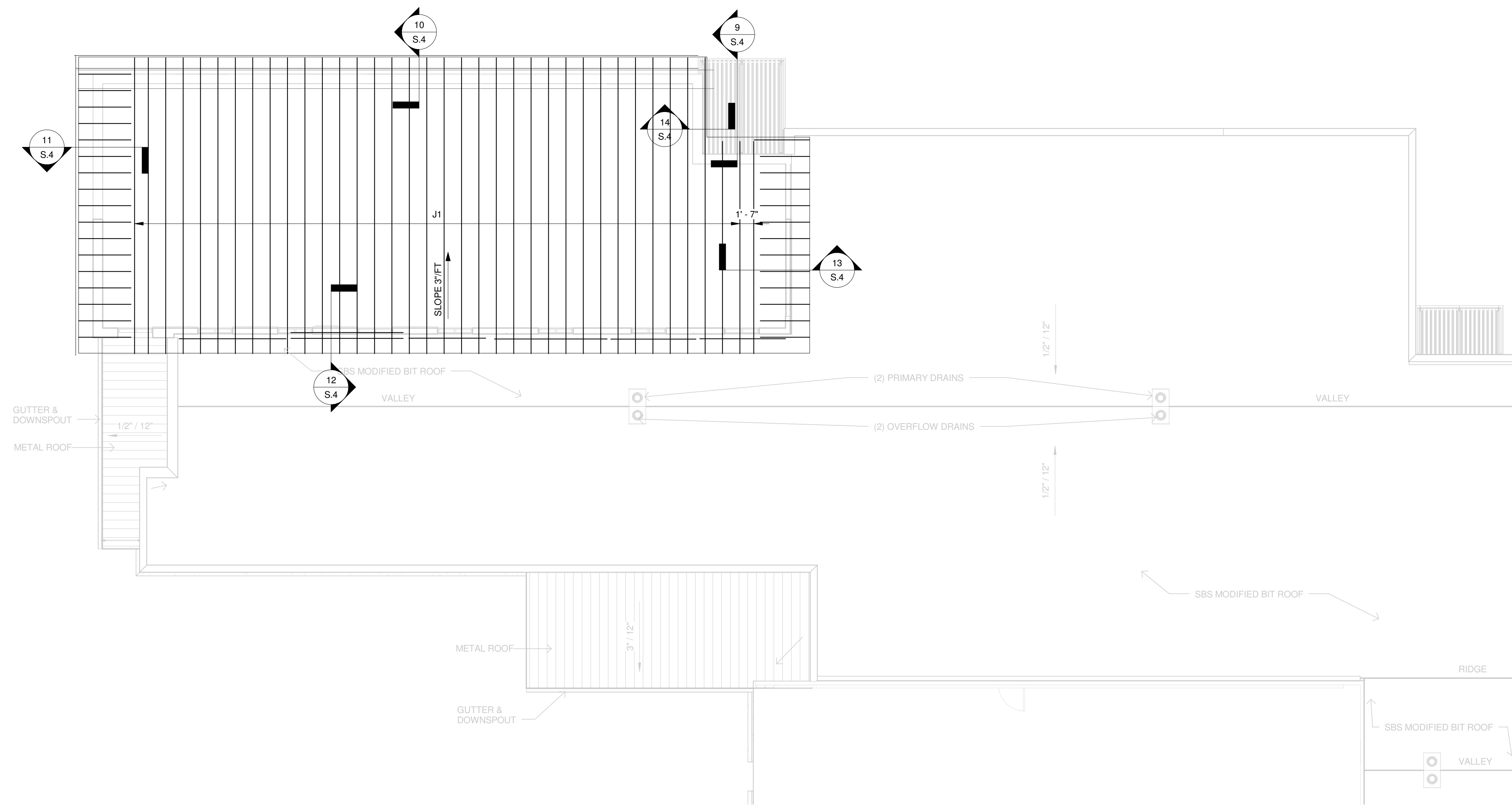


METAL STUD WALL SCHEDULE					
TYPE	SIZE	MAX SPA	Ag(N ²)	Ix(N ⁴)	Sx(N ³)
W1	800S162-43	1'-4"	0.537	4.633	1.158
W2	600S200-43	2'-0"	0.492	2.683	0.894
W3	600S200-43	2'-0"	0.492	2.683	0.894
W4	1000S162-97	2'-0"	1.372	16.967	3.393
W5	600S137-33	2'-0"	0.318	1.582	0.527

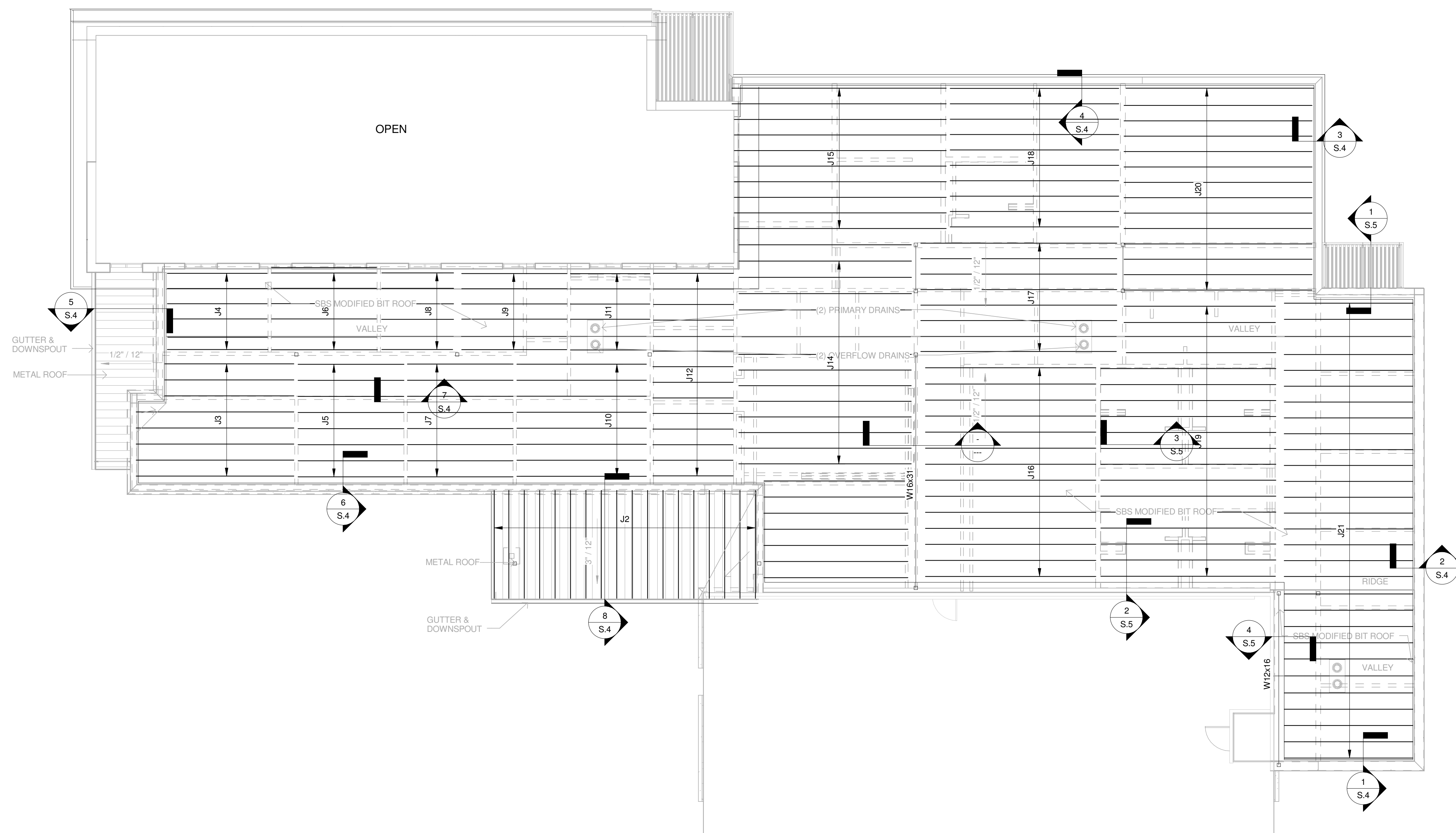
1 LOAD BEARING LIGHT GAGE METAL STUD WALL PLAN
 1/8" = 1'-0"



2 TYP WIND BRACE
 3/4" = 1'-0"



1 HIGH ROOF FRAMING PLAN
1/8" = 1'-0"



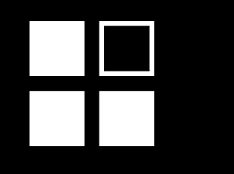
3 LOW ROOF FRAMING PLAN
1/8" = 1'-0"

ROOF JOIST SCHEDULE						
MARK	SIZE	MAX SPAN	MAX SPA	Ag(N ¹)	k(N ¹)	Sx(N ¹)
J1	1200S162-97	29'-0"	1'-4"	1.56	26.966	4.494
J2	600S162-43	11'-0"	2'-0"	0.447	2.316	0.772
J3	800S200-97	20'-0"	2'-0"	1.271	11.203	2.801
J4	600S200-68	14'-0"	2'-0"	0.764	4.101	1.367
J5	600S200-68	14'-0"	2'-0"	0.764	4.101	1.367
J6	600S200-68	14'-0"	2'-0"	0.764	4.101	1.367
J7	600S200-68	10'-0"	2'-0"	0.764	4.101	1.367
J8	600S162-43	14'-0"	2'-0"	0.447	2.316	0.772
J9	600S200-68	14'-0"	2'-0"	0.764	4.101	1.367
J10	800S162-68	17'-0"	2'-0"	0.836	7.089	1.772
J11	600S162-43	11'-0"	2'-0"	0.447	2.316	0.772
J12	600S162-43	11'-0"	2'-0"	0.447	2.316	0.772
J13	800S200-97	19'-0"	2'-0"	1.271	11.203	2.801
J14	1000S162-97	22'-0"	2'-0"	1.372	16.967	3.393
J15	1200S200-68	25'-0"	2'-0"	1.192	21.947	3.658
J16	1000S162-97	23'-0"	2'-0"	1.372	16.967	3.393
J17	1200S162-97	26'-0"	2'-0"	1.56	26.966	4.494
J18	1000S162-97	22'-0"	2'-0"	1.372	16.967	3.393
J19	1000S200-68	21'-0"	2'-0"	1.05	13.994	2.799
J20	1000S200-97	24'-0"	2'-0"	1.474	19.336	3.867
J21	800S200-68	18'-0"	2'-0"	0.907	8.14	2.035

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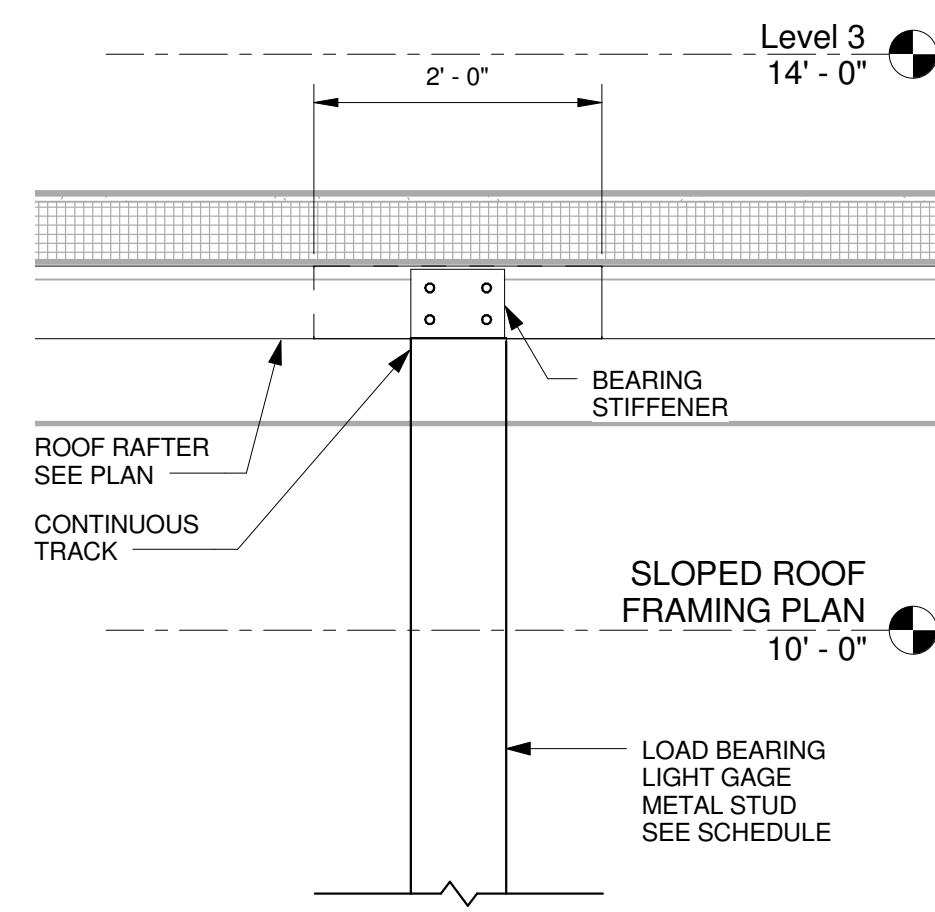
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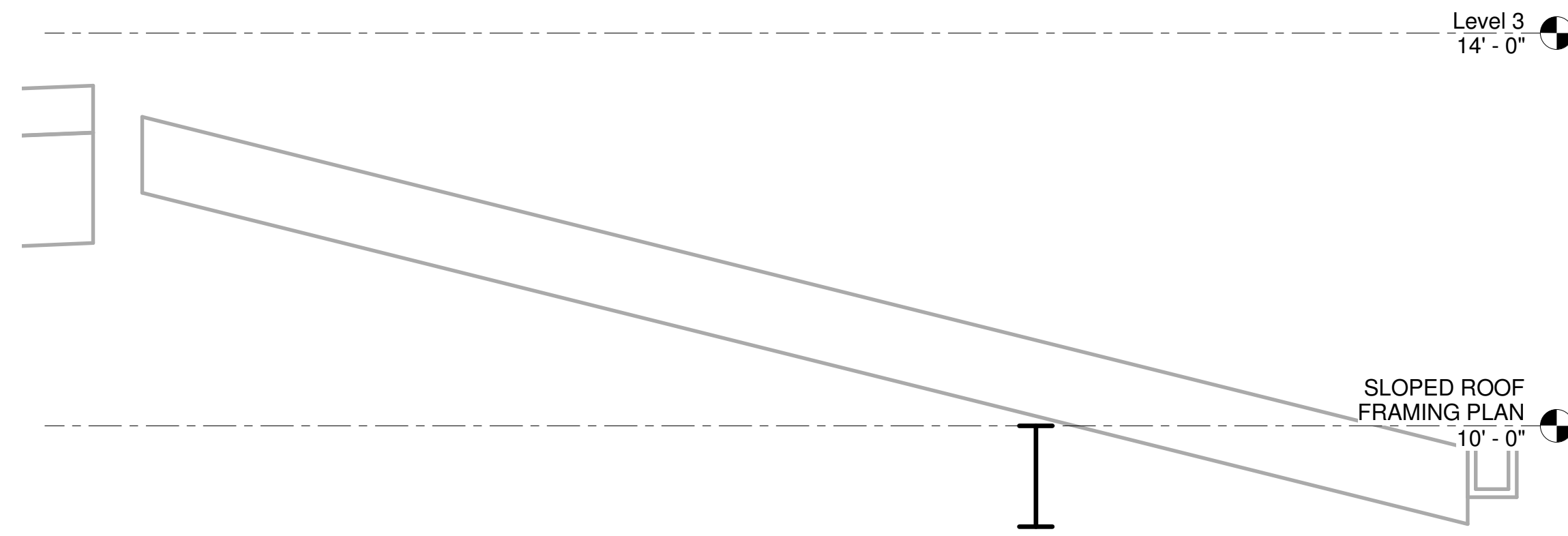
S.3

ROOF FRAMING PLAN

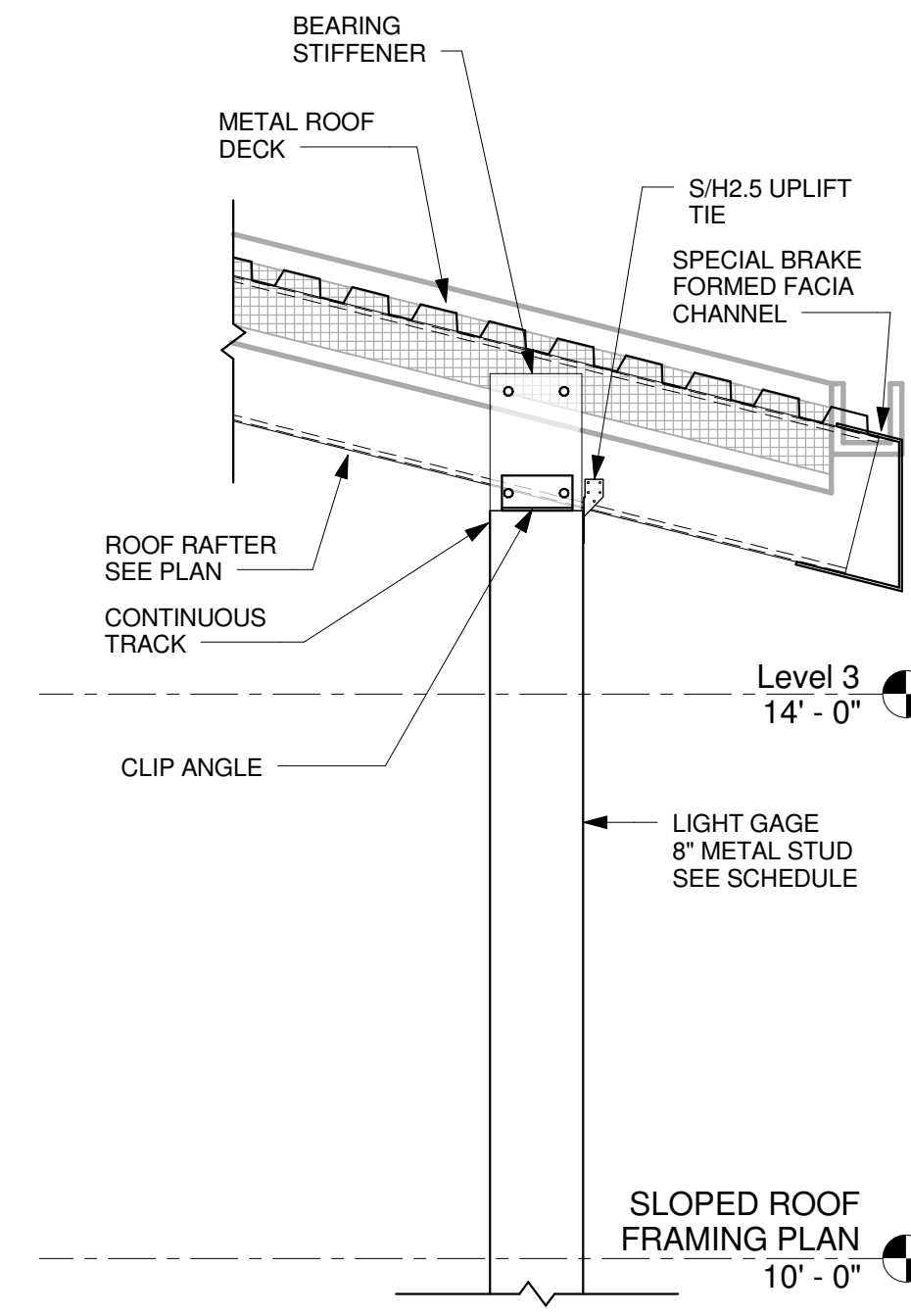


NOTE: BLOCKING BETWEEN RAFTERS NOT SHOWN FOR CLAIRITY

7 FRAMING AT ROOF (7)
3/4" = 1'-0"

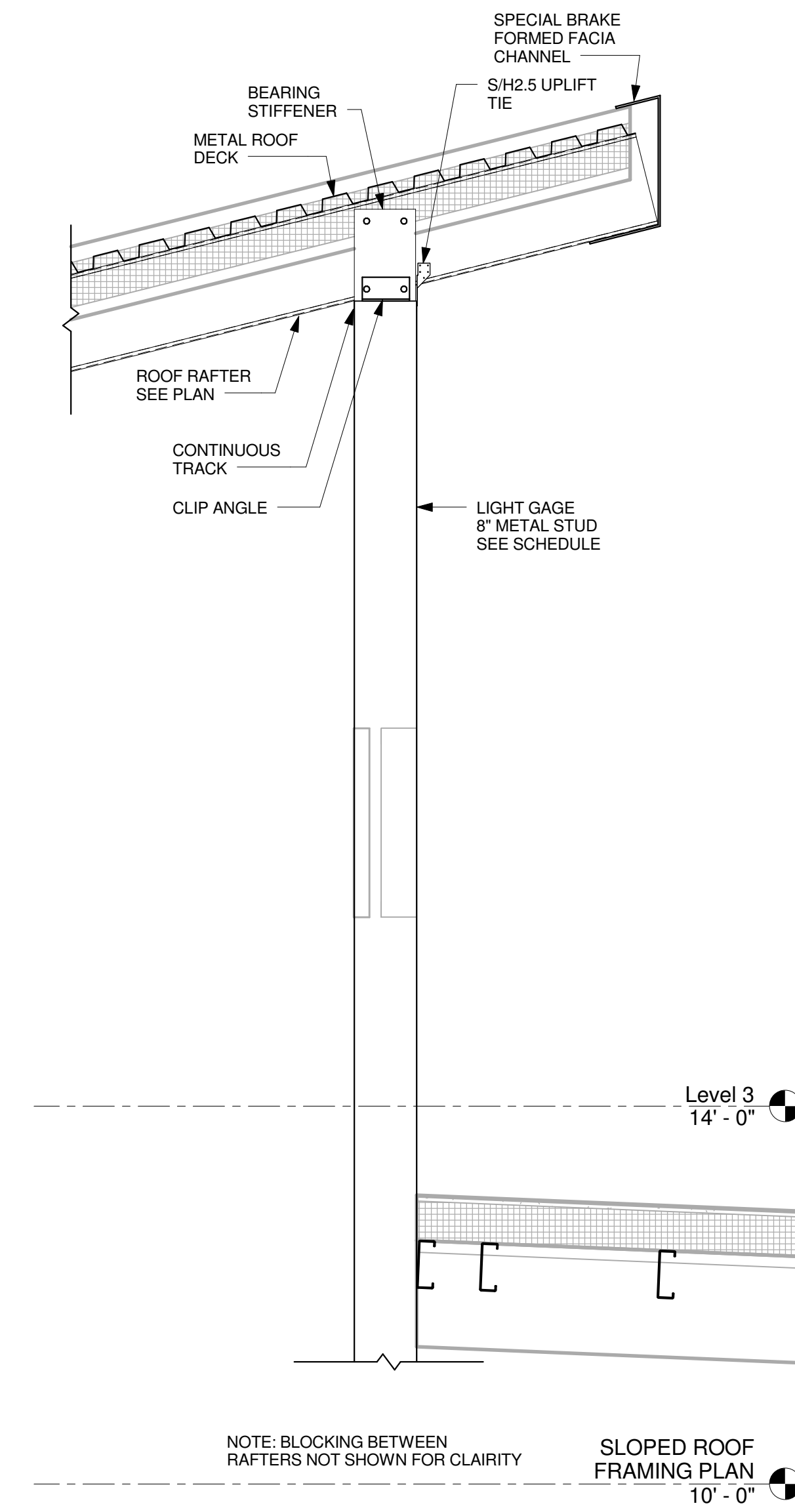


8 FRAMING AT ROOF (8)
3/4" = 1'-0"



NOTE: BLOCKING BETWEEN RAFTERS NOT SHOWN FOR CLAIRITY

10 FRAMING AT ROOF (10)
3/4" = 1'-0"



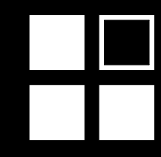
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12 FRAMING AT ROOF (12)
3/4" = 1'-0"

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Project Status

NOT INTENDED FOR BIDDING. PERMIT OR CONSTRUCTION PURPOSES:
FRANK J. REILLY
TEXAS REGISTRATION No. 61307
DATE: 1-28-2014

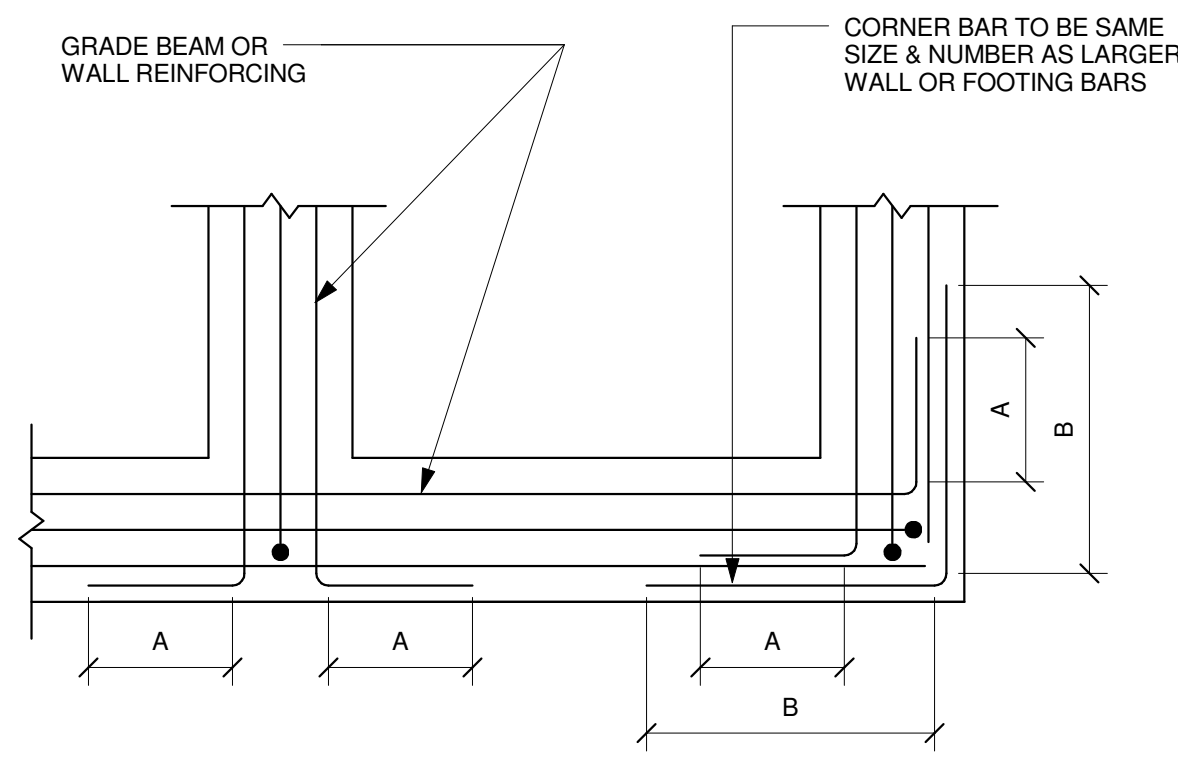
Job No.

1215

Sheet No.

S.5

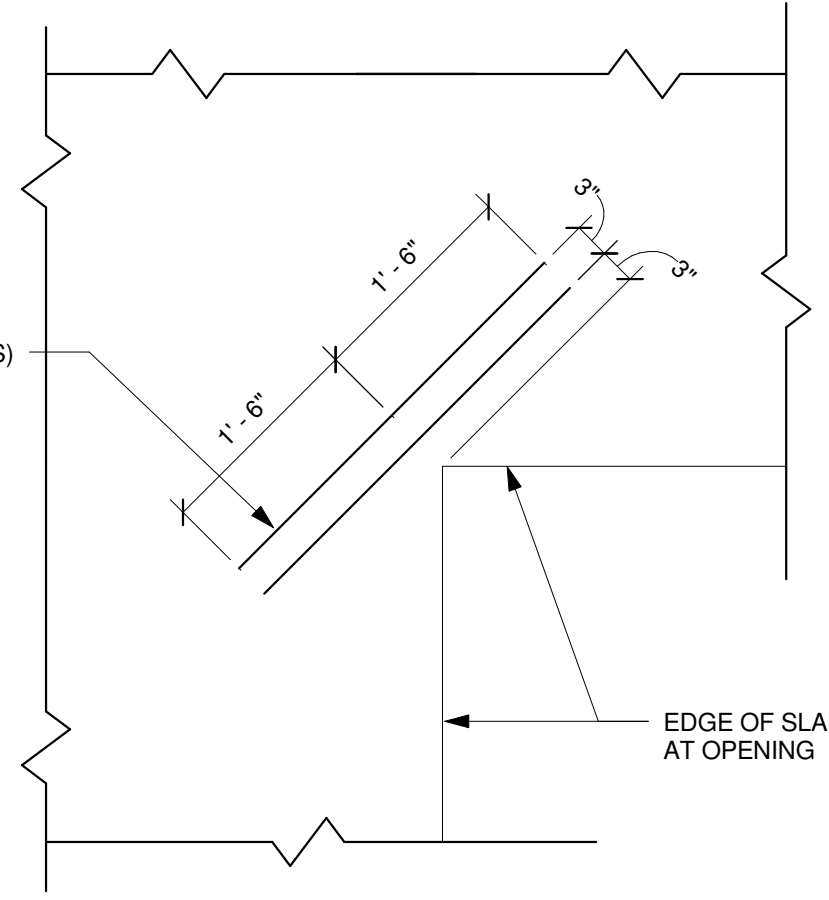
FRAMING DETAILS



- NOTES:
1. A = STD. ACI HOOK (12" MIN.)
 2. B = 40 BAR DIAMETERS
 3. TURN DOWN ENDS OF CENTER BARS (STANDARD ACI HOOK - 12" MIN.)

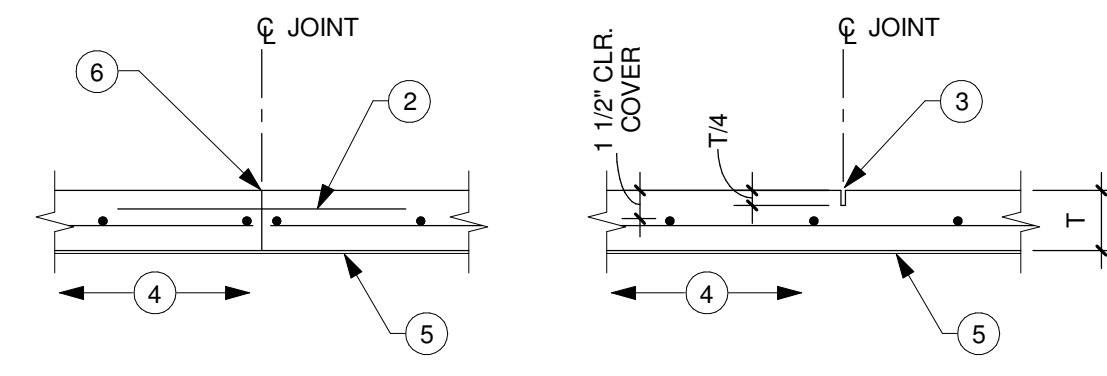
1 TYPICAL CORNER BAR DETAIL
3/4" = 1'-0"

2#4 x 3'-0" AT 2'
BELOW TOP OF SLAB
(TYP RE-ENTRANT BARS)



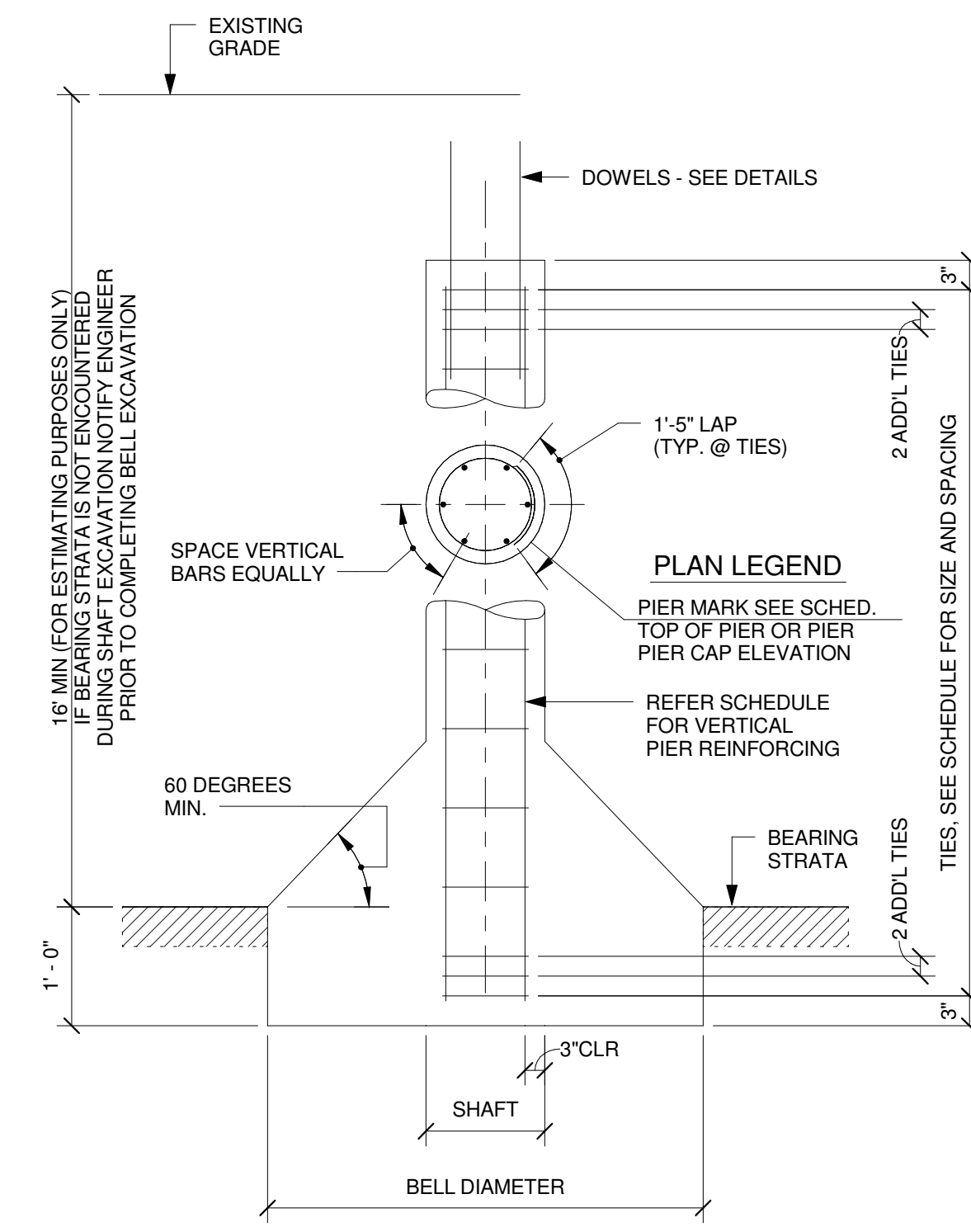
NOTE: PROVIDE RE-ENTRANT BARS AT ALL SUCH SLAB CONDITIONS INCLUDING RE-ENTRANT CORNERS, OPENINGS, ISOLATION JOINTS AND POUR JOINTS

2 TYP RE-ENTRANT CORNER DETAIL
3/4" = 1'-0"



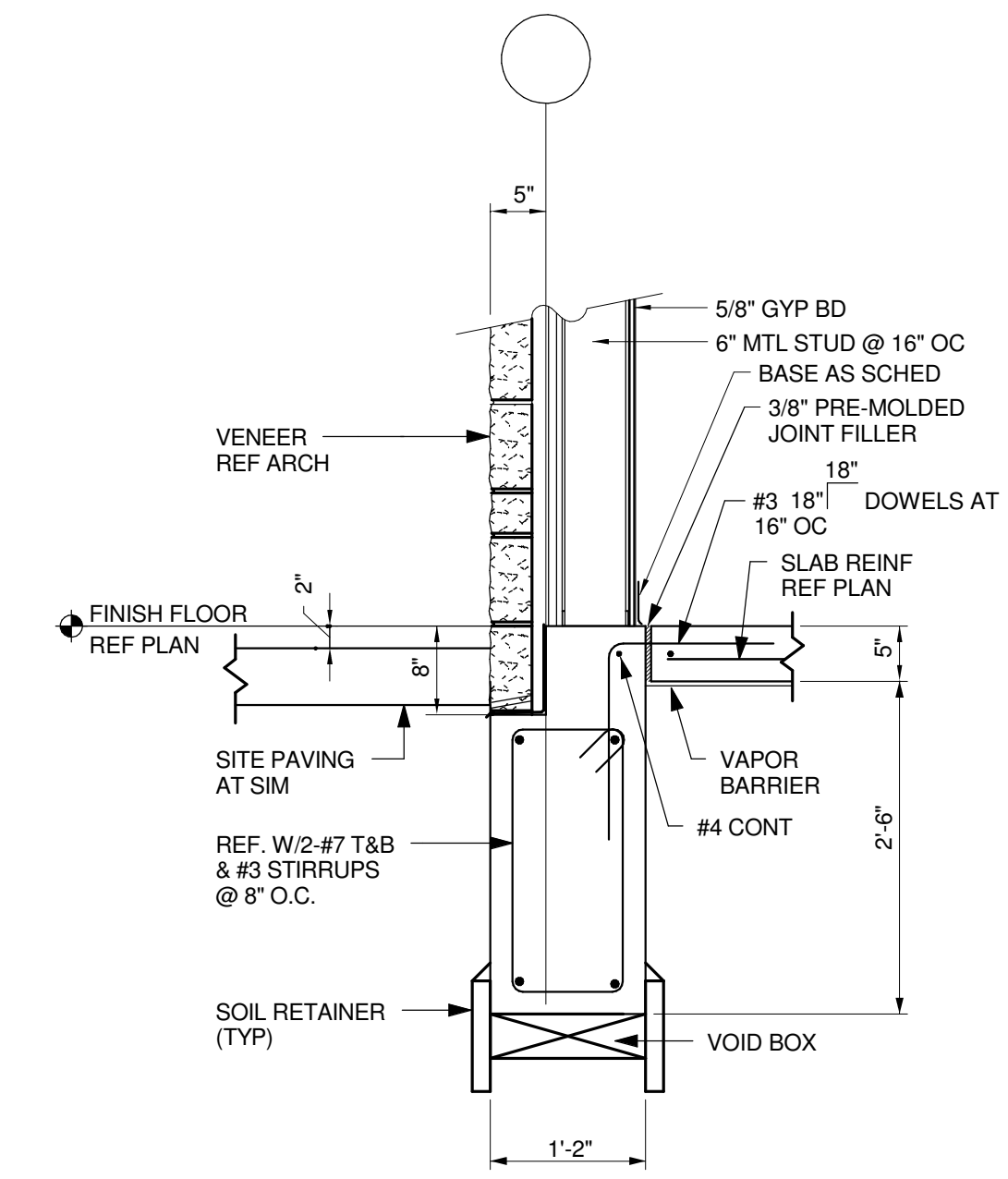
- NOTES:
1. FOR SLAB THICKNESS "T", REINFORCING AND JOINT LOCATION REF. PLAN.
 2. 1/2" DIA. x 2'-0" LONG SMOOTH DOWELS AT 18" O.C.
 3. 1/8" WIDE SAWCUT AS SOON AS POSSIBLE AFTER FINISHING THE SLAB WITHOUT DISLODGING AGGREGATE. FILL SAWCUT WITH MMSO BY METZGER/MCGUIRE OR APPROVED EQUAL.
 4. SUBGRADE REF. EARTHWORK AND FOUNDATION SECTION OF GENERAL NOTES.
 5. 15 MIL POLYOLEFIN VAPOR BARRIER. REF. PLAN FOR LOCATIONS.
 6. FILL CONSTRUCTION JOINTS WITH SAME MATERIAL USED TO FILL CONTROL JOINTS. SAWCUT AS REQUIRED TO PROVIDE MINIMUM 1/8" WIDE JOINT PRIOR TO FILLING.

3 TYPICAL SLAB ON GRADE DETAILS
3/4" = 1'-0"



BELLED PIER SCHEDULE				
MARK	SHAFT DIA	BELL DIA	VERT BARS	TIES
P1	18"	54"	8#6	#3@10"
P2	18"	45"	8#6	#3@10"

4 TYP BELLED PIER DETAIL
3/4" = 1'-0"



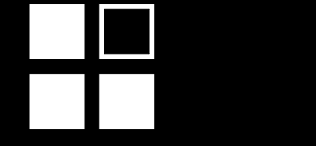
NOTE: REFER GRADE BEAM SCHEDULE FOR DIMENSIONS AND REINF NOT SHOWN.

5 EXTERIOR GRADE BEAM
3/4" = 1'-0"

Original Issue Date: 1-21-14
Revisions:

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FOUNDATION DETAILS

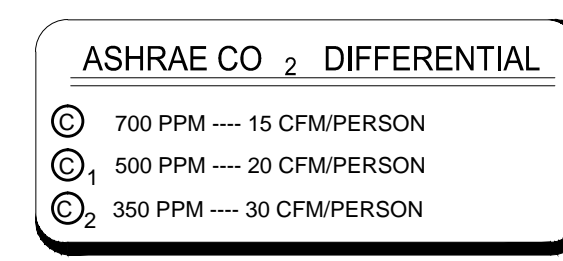
MEP ABBREVIATIONS

ABV.	ABOVE
AC	ALTERNATING CURRENT
AC	AIR CONDITIONER
AC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	ABOVE GRADE AND GFI
AHAP	AS HIGH AS POSSIBLE
AHU	AIR HANDLING UNIT
ALT.	ALTERNATE
AMB.	AMBIENT TEMPERATURE (F. DEGREE)
AMP.	AMPERE
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
AUS.	AVERAGE
B.	BOILER
B.G.	BELOW GRADE
BMS	BUILDING MANAGEMENT SYSTEM
BRD	BAROMETRIC RELIEF DAMPER
BTU	BRITISH THERMAL UNIT
CD	CONSTRUCTION DOCUMENTS
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHL.	CHILLER
CHEM.	CHEMICAL
CHP	CHILLED WATER PUMP
CKT.	CIRCUIT
CLG	CEILING
CMPR.	COMPRESSOR
CT	COOLING TOWER
CWP	CONDENSER WATER PUMP
CJ	CONDENSING UNIT
DB	DRY BULB
DEFL.	DEFLECTION
DEG. F	DEGREES FAHRENHEIT
DET.	DETAIL
DD	DESIGN DEVELOPMENT
DA	DIAMETER
DISC.	DISCONNECT SWITCH
DM.	DIMENSION
EA	EXHAUST AIR
EDB	ENTERING DRY BULB
EA	EXHAUST FAN
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMCS	ENERGY MGMT. CONTROL SYSTEM
E.S.P.	EXTERNAL STATIC PRESS. (IN. W.G.)
EWB	EXITING WATER BULB
EWT	ENTERING WATER TEMPERATURE
EXH.	EXHAUST
EXST.	EXISTING
F/A	FREE AREA OPENING (SQ. FT.)
FCU	FAN COIL UNIT
FHP	FRACTIONAL HORSE POWER
FLR.	FLOOR
FM	COOL FINS PER INCH
FT	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT OR FEET
GFI	GROUND FAULT INTERRUPTER
GPM	GALLONS PER MINUTE
HD	HEAD
HOA	HANDS/OFF/AUTO. MOTOR STARTER
HP	HORSE POWER
HPU	HEAT RAMP UNIT
HR.	HOURS
HT.	HEIGHT
HTR	HEATING
HTR	HEATER
HVAC	HEAT, VENT AND AIR CONDITIONING
HW	HOT WATER PUMP
HW	HOT WATER UNIT
HX	HEAT EXCHANGER
HZ	FREQUENCY (HERTZ)
ID	INSIDE DIAMETER OR DIMENSION
IN.	INCHES
KWH	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MCA	MINIMUM CURRENT AMPS
MOCP	MAX. OVER CURRENT PROTECTION
MBH	1000 BTU PER HOUR
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MVD	MANUAL VOLUME DAMPER
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONSTRUCTION
NK	NECK DIMENSION
NO.	NUMBER
OA	OUTSIDE AIR
OAR	OWNER'S AUTHORIZED REPRESENTATIVE
ODD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
ORIG.	ORIGINAL
P.D.	PRESSURE DROP (FT)
PH.	PHASE
PMB	POWERED MIXING BOX
PLBG.	PLUMBING
PRES.	PRESSURE
PRESS.	PRESSURE
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RD.	RADIUS
RE.	REFERENCE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SS	SINGLE SPEED MOTOR
SBS	START STOP STATUS
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SAC	STAND ALONE DIGITAL CONTROLLER
SEER	SEASON ENERGY EFFICIENCY RATIO
SENS.	SENSIBLE
SP	STATIC PRESSURE
SO	SQUARE
STR.	MOTOR STARTER
TEMP.	TEMPERATURE
T.S.P.	TOTAL STATIC PRESSURE (IN. W.G.)
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V.	VOLT
VAV	VARIABLE AIR VALVE
VEL.	VELOCITY
W.	WATT
WI	WITH
W/O	WITHOUT
W.S.G.	WATER GAUGE
WB	WET BULB
WP.	WEATHERPROOF
WPD	WATER PRESSURE DROP
WPS	WEATHERPROOF GFI
XMR.	TRANSFORMER

DUCTWORK LEGEND

16x12	SHEET METAL DUCT	16x12
→	DIRECTION OF FLOW	→
=====	INTERNALLY INSULATED SHEET METAL DUCT	=====
-----	HIDDEN SHEET METAL DUCT	-----
	ROUND ELBOW DOWN (R/A SIMILAR)	
	ROUND ELBOW UP (R/A SIMILAR)	
	RADIUS ELBOW (R=1.5 MIN.)	
	45 DEGREE ELBOW (R=1.5 MIN.)	
	SIZE OR SHAPE TRANSITION	
	TURNING VANES (RECTANGULAR, SMOOTH RADIUS)	
	FLEXIBLE DUCT CONN. W/DAMPER	
	BRANCH TAKE-OFF	
	WYE JUNCTION	
	SUPPLY DUCT SECTION UP	
	SUPPLY DUCT SECTION DOWN	
	RETURN DUCT SECTION UP	
	RETURN DUCT SECTION DOWN	
	EXHAUST DUCT SECTION UP	
	90 DEGREE S/A ELBOW DOWN	
	90 DEGREE S/A ELBOW UP	
	90 DEGREE R/A ELBOW DOWN	
	EXHAUST DUCT SECTION DOWN	
	90 DEGREE R/A ELBOW UP	
	RADIUS ELBOW (R=1.5 MIN.)	
	SQUARE ELBOW WITH DOUBLE WALL TURNING VANES	
	BRANCH TAKE-OFF WITH VANED EXTRACTOR	
	SPIN-IN TAP WITH DAMPER	
	TEE WITH SQUARE ELBOWS, TURNING VANES & SPLITER DAMPER	
	SIDEWALL SUPPLY GRILLE OR REGISTER WITH AIR EXTRACTOR	
	S/A GRILLE/REGISTER W/ ROUND NECK & FLEX CONNECTION. 4-WAY THROW (U.N.O.)	
	S/A GRILLE/REGISTER W/ SQUARE NECK. 4-WAY THROW (U.N.O.)	
	R/A GRILLE OR REGISTER	
	VOLUME DAMPER	
	COUNTER WEIGHTED BACKDRAFT DAMPER	
	FIRE DAMPER	
	FIRE/SMOKE DAMPER (WITH SM. DET.)	
	SMOKE DAMPER (WITH SM. DET.)	
	MOTORIZED DAMPER	
	STATIC PRESSURE SENSOR	
	AIRFLOW MEASURE STATION	
	ACCESS DOOR	
	DUCT MOUNTED SMOKE DETECTOR (TUBE SENSING TYPE)	

ALL SYMBOLS ON THIS LIST ARE NOT NECESSARILY USED ON THIS PROJECT.



HVAC & PLUMBING, VALVE & FITTINGS SYMBOLS

	TEE
	TEE, UP
	TEE, DOWN
	SINGLE SWEEP TEE
	CROSS
	LATERAL
	45 DEGREE ELBOW
	90 DEGREE ELBOW
	90 DEGREE ELBOW UP
	90 DEGREE ELBOW DOWN
	CAP
	SINGLE W.F. LATERAL STUB
	DOUBLE W.F. LATERAL STUB
	SINGLE W.F. LAT. & TRAP
	DOUBLE W.F. LAT. & TRAP
	FLOOR DRAIN RISER W/TRAP
	FLOOR CLEAN OUT
	CLEAN OUT
	HUB DRAIN
	DOWN SPOUT
	FIRE HOSE CABINET
	VENT THRU ROOF
	OVERFLOW ROOF DRAIN
	ROOF DRAIN
	CHECK VALVE
	OS & Y VALVE
	GLOBE VALVE
	GATE VALVE
	BALANCING VALVE (WITH PETE'S PLUG EITHER SIDE)
	BUTTERFLY VALVE
	BALL VALVE
	SOLENOID VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	CONTROL, 2 WAY VALVE
	CONTROL, 3 WAY VALVE
	MOTORIZED ISOLATION VALVE (2-POSITION-24V)
	MOTORIZED CONTROL VALVE (MODULATING-24V)
	FLOOR CONTROL VALVE
	ANGLE GLOBE VALVE
	MANUALLY CALIBRATED BALANCING VALVE
	AUTOMATIC FLOW CONTROL VALVE
	STRAINER & BLOW OFF VALVE
	PRESSURE GAUGE & COCK
	UNION OR COMPANION FLANGES
	THERMOMETER
	PRESSURE & TEMPERATURE TAP (PETE'S PLUG)
	THERMOSTAT
	HUMIDISTAT
	FLOW METER
	ANCHOR (PIPE)
	EXPANSION JOINT
	PIPE GUIDE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	HOSE END DRAIN
	HOSE BIBB
	THERMOMETER & WELL
	TEMPERATURE SENSOR
	FLOW SWITCH
	PRESSURE SENSOR
	COMPRESSED AIR TAP
	FLOAT AND THERM. TRAP
	BUCKET STEAM TRAP
	PIPE SIZE REDUCER (CONCENTRIC)
	PIPE SIZE REDUCER (ECCENTRIC)

ALL SYMBOLS ON THIS LIST ARE NOT NECESSARILY USED ON THIS JOB.

FIRE PROTECTION SYMBOLS

(ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.)

	FLOW SWITCH
	POST INDICATOR VALVES (PIV)
	OPEN SCREW AND YOKE VALVE (OS&Y)
	FIRE DEPARTMENT CONNECTION
	UP AND DOWN SPRINKLER AT SAME LOCATION
	UP SPRINKLER
	SYSTEM RISER
	HOSE VALVE (ANGLE VALVE)
	RISE UP ON PIPING
	DROP IN PIPING
	TAMPER SWITCH FOR VALVES
	PENDANT SPRINKLER
	UPRIGHT SPRINKLER OR RISE (SPRIG)
	PENDANT SPRINKLER ON DROP
	SIDEWALL SPRINKLER

GENERAL HVAC NOTES:

- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED WITHIN FURRED CHASES OR ABOVE SUSPENDED CEILING.
- ALL DUCTWORK SIZES ARE PROVIDED IN CLEAR INSIDE AIRSTREAM DIMENSIONS. INCREASE DUCT SIZES TO ACCOMMODATE ANY INTERNAL INSULATION REQUIREMENTS (AS SPECIFIED). PROVIDE A MINIMUM OF 15 LINEAR FT. OF INTERNAL ACOUSTIC LINER ON SUPPLY AND RETURN AIR DUCTWORK FROM ANY FCU, AHU, AC, OR RTU (UNO). PROVIDE 18" INTERNAL LINER FOR MIXING OR VAV BOXES.
- PROVIDE FLEXIBLE CONNECTIONS ON AT THE INTAKE AND DISCHARGE OF ALL MOTOR DRIVEN EQUIPMENT.
- PROVIDE VIBRATION ISOLATORS FOR MOTOR-DRIVEN MECHANICAL EQUIPMENT.
- ALL FLEXIBLE DUCTWORK SHALL HAVE A MAXIMUM DEVELOPED LENGTH OF (5) FIVE FT.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED MEIP DEVICES INCLUDING BUT NOT LIMITED TO LIGHTS, DIFFUSERS, GRILLES ETC..
- AIR DEVICE DUCT SIZES SHALL BE THE SAME SIZE AS SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE. REFER TO THE SCHEDULES FOR THE CFM RANGES. PROVIDE A TRANSITION FROM THE NECK SIZE TO THE REQUIRED DUCT SIZE SHOWN.
- CONTRACTOR SHALL VERIFY THE EQUIPMENT CLEARANCE REQUIREMENTS WITH THE MANUFACTURER'S RECOMMENDATIONS. EXACT LOCATION OF SELECTED EQUIPMENT SHALL BE COORDINATED WITH THE STRUCTURE TO PROVIDE RECOMMENDED CLEARANCES FOR MAINTENANCE.
- PROVIDE FIRE DAMPERS, FIRE/SMOKE DAMPERS AND FIRE STOP AS REQUIRED BY CODE AUTHORITIES FOR DUCT PENETRATIONS THROUGH FIRE OR SMOKE RATED WALL AND CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
- LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED MAINTENANCE ACCESS FOR ALL UNIT ACCESS PANELS, CONTROLS AND VALVING.
- SMOKE DETECTORS SHALL BE FURNISHED BY THE FIRE ALARM CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN THE DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. DETECTORS SHALL BE PROVIDED IN THE SUPPLY AND THE RETURN DUCTWORK (PRIOR TO MIXING WITH THE OUTSIDE AIR) FOR ANY AIR HANDLING UNIT SYSTEM 2000 CFM SUPPLY AIR AND ABOVE. THE DETECTOR SHALL BE HARDWIRED TO THE UNITS STARTER TO SHUT DOWN THE FAN UPON DETECTION OF PRODUCTS OF COMBUSTION AS WELL AS SEND AN ALARM SIGNAL TO THE FIRE ALARM PANEL (IF PROVIDED). FOR VAV SYSTEMS THE BMS SHALL DISABLE ASSOCIATED MIXING BOXES UPON DETECTION OF SMOKE AT EITHER OF THE AHU/S SMOKE DETECTORS. ENABLE MIXING BOX FANS UPON SMOKE SIGNAL CLEAR.
- ANY DUCTWORK EXPOSED TO VIEW SHALL BE INTERNALLY LINED VERSES EXTERNALLY INSULATED.
- FINISH ALL EXPOSED TO VIEW DUCTWORK AND WALL LOUVERS PER ARCHITECTS RECOMMENDATIONS.
- ALL FLOOR BRANCHES OF PIPE RISERS SHALL BE PROVIDED WITH SHUT OFF VALVES AND DRAIN CONNECTION.
- UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS, HUMIDISTAT AND CO2 SENSORS 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY THE ARCHITECT/ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CAN NOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON PROPER LOCATION.
- DUCTWORK AND ITS CONSTRUCTION WILL BE GALVANIZED SHEET METAL AND CONSTRUCTED ACCORDING TO THE LATEST SMACNA STANDARDS.
- ALL DUCTWORK IS SHOWN IN SCHEMATIC FORM. DUCT RISES AND DROPS ARE NOT SHOWN. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES. EACH TRADE SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES.
- PIPING IS SHOWN IN SCHEMATIC FORM. ROUTE PIPING AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS. COORDINATE WITH OTHER TRADES AS REQUIRED. PIPING SHALL BE INSTALLED WITH ADEQUATE SLOPE AS REQUIRED FOR EACH PARTICULAR SYSTEM.

GENERAL PROJECT NOTES:

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY ALL NATIONAL, STATE AND LOCAL CODES.
- CONTRACT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON THE OTHER CONTRACT DRAWINGS.
- WHEN TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURE SHALL BE USED.
- ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE LATEST EDITION NATIONAL ELECTRIC CODE AND DIVISION 16 (23) OF THE SPECIFICATION.
- ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
- LOCATION AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES.
- PROVIDE REMOTE BALANCING DAMPERS SIMILAR TO YOUNG CONCEALED REGULATORS FOR ALL TAPS MADE ABOVE INACCESSIBLE CEILING OR WALLS. FINISH CONCEALMENT COVERS PER ARCHITECTS RECOMMENDATIONS.
- AHU AND FCU FANS SHALL OPERATE CONTINUOUSLY DURING THE OCCUPIED MODE OF OPERATION WITH ASSOCIATED OUTSIDE AIR MOTORIZED DAMPERS IN THE FULL OPEN POSITION (UNLESS NOTED OTHERWISE OR CCV SYSTEM). DAMPER SHALL BE CLOSED WITH THE FANS OPERATIONAL IN THE MOURNING WARM UP OR COOL DOWN MODES.
- CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 10'-0" BETWEEN OUTSIDE AIR INTAKE POINTS AND ANY EXHAUST AIR, CONTAMINATED RELIEF AIR OR PLUMBING VENT TERMINATION POINTS.
- CONDENSATE PIPING DOWN TO A PLUMBING FIXTURE SHALL BE FULLY INSULATED WITHIN WALL. PROVIDE ESCUTCHEON PLATE AT WALL. PIPING SHALL NOT BE ROUTED EXPOSED TO VIEW.
- PRESSURIZED LIQUID, GAS, AIR SYSTEM PIPE AND ELECTRICAL CONDUIT SHALL NOT BE ROUTED BENEATH ANY SUSPENDED EQUIPMENT. FIRE PROTECTION, ELECTRICAL AND MECHANICAL CONTRACTORS SHALL COORDINATE TRADES.
- ALL REMOTE MOUNTED DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT SHALL HAVE I.D. NAME PLATES.
- PIPING ON ROOF - CONTRACTOR SHALL PROVIDE ROOF PIPE SUPPORTS ON 10'-0" CENTERS. EACH CHANGE IN DIRECTION, EACH ROOFTOP UNIT AND EACH PIPE PENETRATION THROUGH ROOF. REFER TO MECHANICAL SPECIFICATIONS FOR REQUIRED OFFSETS OR LOOPS FOR PIPE EXPANSION.

GENERAL PLUMBING NOTES:

- PLUMBING CONTRACTOR IS TO PROVIDE FIRE STOPS AT ALL PIPING FLOOR PENETRATIONS PER SPECIFICATIONS.
- COORDINATE ROUTING OF ALL PIPING WITH NEW STRUCTURE, DUCTWORK, EQUIPMENT, ETC. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- SLOPE ALL DRAIN PIPING 2'-12" AND SMALLER @ 1/4" FT. AND ALL DRAIN PIPING 3" AND LARGER @ 1/8" FT.
- PROVIDE CLEAN OUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS. EVERY 75 FEET IN HORIZONTAL RUNS AND ELSE WHERE AS INDICATED.
- UNLESS OTHERWISE NOTED ALL PIPING SHALL BE NO LESS THAN 3/4" .
- UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF ROOF DECKING, WITH SPACE FOR INSULATION REQUIRED.
- INSTALL PIPING SO THAT VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- WHEN DOMESTIC COLD AND HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
- INSTALL ALL PIPING WITHOUT FORGING OR SPRINGING.
- SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERNATION AND REPAIRS.
- PROVIDE ALL PLUMBING FIXTURES WITH ACCESSIBLE QUARTER TURN BALL VALVES.
- TRAP PRIMERS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND FLOOR SINKS UNLESS NOTED OTHERWISE ON DRAWINGS. REFER TO SPECIFICATIONS FOR TRAP PRIMER REQUIREMENTS.
- REFER TO PLUMBING RISER DIAGRAMS FOR ADDITIONAL PIPING AND PIPE SIZES NOT SHOWN ON FLOOR PLANS.
- TERMINATE GAS VENTS A MINIMUM OF 2'-0" ABOVE ROOF WITH RAIN CAP.
- FIRE PROTECTION PER NFPA 13 AND ALL OTHER APPLICABLE SECTIONS. FF PIPE SHALL NOT BE ROUTED BENEATH SUSPENDED MECHANICAL EQUIPMENT.
- EXISTING FIRE PROTECTION SPRINKLER HEADS LOCATED IN NON-CEILING AREA SHALL BE TO UPRIGHT HEADS MODIFY EXISTING SECONDARY F.P. PIPING AND SWING ARMS AS REQ'D TO PROVIDE FULL COVERAGE TO NEW FLOOR PLAN LAYOUT.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF GAS SERVICE AND METER WITH GAS COMPANY. CONTRACTOR SHALL PAY ALL FEES, PERMITS AND CHARGES ASSOCIATED WITH THE INSTALLATION OF BOTH THE GAS METER AND SERVICE.
- GAS PIPING ON ROOF - CONTRACTOR SHALL PROVIDE ROOF PIPE SUPPORTS ON 10'-0" CENTERS. EACH CHANGE IN DIRECTION, EACH ROOFTOP UNIT AND EACH PIPE PENETRATION THROUGH ROOF. REFER TO MECHANICAL SPECIFICATIONS FOR REQUIRED OFFSETS OR LOOPS FOR PIPE EXPANSION.
- GAS PIPING INSIDE BUILDING - ALL GAS PIPING INSIDE BUILDING SHALL BE SLEEVED. CONTRACTOR SHALL EXTEND BOTH ENDS OF SLEEVE OUTSIDE BUILDING, WHERE GAS SLEEVES TERMINATE INTO WALL BOXES. CONTRACTOR SHALL INSTALL A 2" VENT FROM EACH WALL BOX AND EXTEND VENT UP THROUGH ROOF. CONTRACTOR SHALL PROVIDE GOOSENECK VENTS AT EACH ROOF PENETRATION.
- ALL PIPING (DOM./FP/RAIN/PRODUCTION) MATERIAL SHALL NOT BE CONSTRUCTED FROM PVC IN THIS AREA ABOVE THE SCHEDULED CEILING, WHICH IS UTILIZED AS A RETURN AIR PLENUM. ALL WIRE THAT IS NOT IN CONDUIT SHALL BE PLENUM RATED WITHIN THIS AREA.

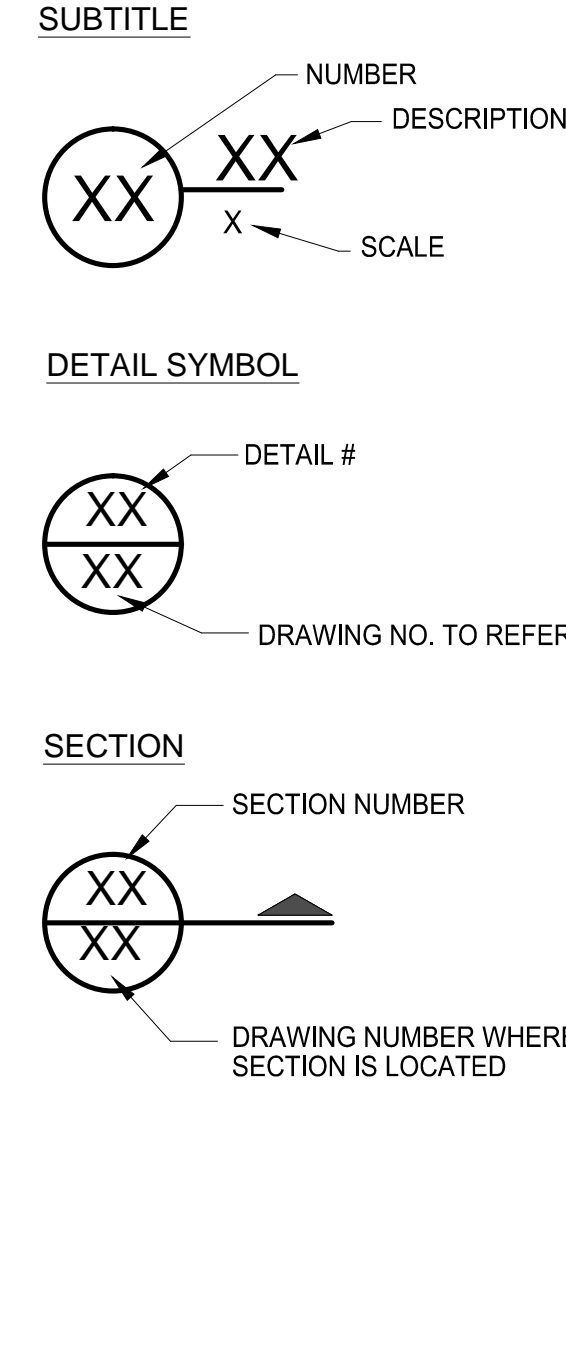
PIPING DESIGNATIONS

(ALL DESIGNATIONS MAY NOT APPEAR ON DRAWINGS.)

SYMBOL	DESCRIPTION
SS	SANITARY SEWER
D	EQUIP. OR FIXTURE DRAIN LINE
PR	PRESSURE RELIEF DISCHARGE
OD	OVERFLOW DRAIN
V	PLUMBING VENT
DCW	DOMESTIC COLD WATER
DTW	DOMESTIC TEMPERED WATER (130 F)
DTWR	DOMESTIC TEMPERED WATER RECIRC.
FW	FIRE LINE
MG	BRANCH FIRE LINE WITH SPRINKLER HEADS
GN	MEDIUM PRESSURE NATURAL GAS LINE
LGN	LOW PRESSURE NATURAL GAS LINE
RL	REFRIGERANT LIQUID LINE
RS	REFRIGERATED SUCTION LINE
HWS	HOT WATER FOR HEATING SUPPLY
HWR	HOT WATER FOR HEATING RETURN
CD	CONDENSATE DRAIN LINE (HVAC)
PC	PUMPED CONDENSATE
AW	ACID WASTE PIPING
AV	ACID VENT PIPING
A	COMPRESSED AIR (SHOP)
MA	MEDICAL AIR
LA	LABORATORY AIR
MV	MEDICAL VACUUM
LV	LABORATORY VACUUM
O	MEDICAL OXYGEN

DRAWING SYMBOLS

(ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.)



MECHANICAL LEGEND

SCALE: N.T.S.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE TYPE	MANUFACTURER	VALVE / FAUCET	TRAP	WASTE	VENT	CW	HW	DESCRIPTION, TRIM AND NOTES
WC-1	WATER CLOSET	ZURN Z5810.043.01.00.00	-	INT	4"	2"	1"	-	WALL MOUNTED, VITREOUS CHINA ELONGATED BOWL WATER CLOSET, HARD WIRED WITH SENSOR OPERATED 1.6 GPF FLUSH VALVE WITH 2" GLAZED TRAPWAY PROVIDE WITH ELONGATED OPEN FRONT SEAT WITH SLOW CLOSING RING
WC-1H	ADA WATER CLOSET	ZURN Z5810.043.01.00.00	-	INT	4"	2"	1"	-	WALL MOUNTED, VITREOUS CHINA ELONGATED BOWL WATER CLOSET, HARD WIRED WITH SENSOR OPERATED 1.6 GPF FLUSH VALVE WITH 2" GLAZED TRAPWAY PROVIDE WITH ELONGATED OPEN FRONT SEAT WITH SLOW CLOSING RING
U-1H	URINAL	ZURN Z5798.205.00	-	2"	2"	1-1/2"	3/4"	-	WALL HUNG, WALL OUTLET, ULTRA LOW CONSUMPTION URINAL WITH TOP SPUD BATTERY-POWERED EXPOSED ZEG6003EV HIGH EFFICIENCY FLUSH VALVE. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
L-1H	LAVATORY	JUST UOF-1619	KOHLER K-T14415-4 PURIST	1-1/2"	1-1/2"	1-1/4"	1/2"	1/2"	PROVIDE UNDERCOUNTER TYPE 304 STAINLESS STEEL LAVATORY (17.5" x 13") WITH OVERFLOW ASSEMBLY AND FULLY COATED UNDERSIDE WITH MCGUIRE 155 LAT WC OFFSET PLUG DRAIN. WALL MOUNT FAUCET WITH ADA LEVER HANDLES AND 1.5 GPM AERATOR. MOUNT VALVES AT 38" A.F.F. (4" ABOVE COUNTER).
MS-1	MOP SINK	FIAT TERAZZO TSBC 1612	SPEAKMAN SC-5811	3"	3"	1-1/2"	3/4"	3/4"	MOP SINK WITH DROPPED FRONT EDGE. CAST BRASS DRAIN BODY, SS STRAINER, LINT BASKET, SS CAPS AND SS THRESHOLD. PROVIDE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREADS. PROVIDE WITH FIAT 832-AA 30' LONG FLEXIBLE HEAVY DUTY RUBBER HOSE, SS GRIP. PROVIDE FIAT E-UJ-AA VINYL GUARD ON ALL EXPOSED SIDES. PROVIDE MOP HOLDER MOUNTED ABOVE MOP SINK.
SH-1	SHOWER	-	LEONARD PAM I-ST-TB-VP W/ 501P(G) HAND SHOWER, D-2L DIVERter VALVE AND H-07 SHOWER HEAD	2"	2"	2"	1/2"	1/2"	CONCEALED IN-WALL SHOWER WITH PRESSURE BALANCING VALVE. SHOWER VALVE SHALL BE BRASS AND STAINLESS STEEL CONSTRUCTION WITH CHECK STOPS AND VANDAL RESISTANT SCREWS. PROVIDE HAND HELD SHOWER WITH 60" CHROME HOSE, 24" GLIDE RAIL, INLINE VACUUM BREAKER, SUPPLY ELBOW AND FLANGE, AND DIVERter VALVE WITH LEVER HANDLE. SHOWER HEAD SHALL BE BRASS CONSTRUCTION, CHROME PLATED FINISH, BALL JOINT, LEVER ADJUSTABLE SPRAY, VANDAL RESISTANT SCREWS AND 2.5 GPM FLOW RATE. PROVIDE ZURN Z4158 SHOWER DRAIN WITH TYPE 'B' STRAINER.
SH-1H	SHOWER	-	LEONARD PAM I-ST-TB-VP W/ 501P(G) HAND SHOWER, D-2L DIVERter VALVE AND H-07 SHOWER HEAD	2"	2"	2"	1/2"	1/2"	CONCEALED, ANTI-SCALD BALANCED PRESSURE SHOWER VALVE WITH INTEGRAL VOLUME CONTROL/DIVERter AND INTEGRAL STOPS AND HANDHELD SPRAY COMBINATION. CHROME PLATED BRASS WALL PLATE AND LEVEL HANDLE, ADJUSTABLE TEMPERATURE LIMIT STOP, BRASS BODY. CHROME PLATED BRASS SUPPLY ELL WITH WALL FLANGES, 80" STAINLESS STEEL HOSE WITH RUBBER LINER, SWIVEL CONNECTOR, INLINE VACUUM BREAKER, 42" CHROME PLATED BRASS SLIDE BAR WITH MOUNTING SCREWS. PROVIDE WITH SPEAKMAN VS-1000AF HANDSHOWER WITH FLOW CONTROL DEVICE AND S-2292-E2 SHOWER HEAD AND S-2500 ARM AND FLANGE PROVIDE ZURN Z4158 SHOWER DRAIN WITH TYPE 'B' STRAINER.
EW-C-1H	WALL MOUNTED ELECTRIC WATER COOLER (ADA)	HALSEY TAYLOR HAC8FS-QADA	-	1-1/2"	2"	1-1/2"	1/2"	-	SELF CONTAINED, WATER COOLER THAT SHALL DELIVER A MINIMUM OF 8.0 GPH OF WATER AT 50°F COOLED FROM 80°F INLET WATER AND 90°F AMBIENT. UNIT SHALL BE ACTIVATED FROM BOTH FRONT AND SIDE PUSH BARS USING LESS THAN 5 POUNDS OF FORCE. SUBBLERS SHALL BE ONE-PIECE, CHROME PLATED, TWO-STREAM WITH AN INTEGRALLY DESIGNED NON-SQUIRT FEATURE. TOPS SHALL BE CONSTRUCTED FROM 300 SERIES STAINLESS STEEL AND HAVE AN INTEGRAL DRAIN. CABINETS SHALL BE STAINLESS STEEL. EVAPORATOR SHALL BE AN INSULATED, TUBE ON TANK. COOLING SYSTEM SHALL USE R-134a AND AN ADJUSTABLE THERMOSTAT WITH AN OFF POSITION. PROVIDE UNIT WITH CONCEALED SUPPORT CARRIER.
FD-1	FLOOR DRAIN	JR SMITH 2005-P050-U	-	3"	3"	2"	1/2"	-	CAST IRON FLOOR DRAIN WITH BOTTOM OUTLET, REVERSIBLE FLASHING COLLAR, SEEPAGE OPENINGS AND ADJUSTABLE NICKEL BRONZE STRAINER HEAD. PROVIDE VANDAL PROOF SCREWS AND 1/2" TRAP PRIMER CONNECTION. PROVIDE AUTOMATIC TRAP PRIMER AS SPECIFIED AND MAKE FINAL CONNECTION. VERIFY ROUND OR SQUARE HEAD BASED UPON FLOOR COVERING.
FS-1	FLOOR SINK	J.R. SMITH 3001	-	3"	3"	2"	1/2"	-	12" SQUARE TOP, CAST IRON RECEPTOR WITH TRAP PRIMER. PROVIDE AUTOMATIC TRAP PRIMER AS SPECIFIED AND MAKE FINAL CONNECTION.
F.C.O.	INTERIOR FLOOR CLEAN-OUT	JR SMITH 4023S-F-C-U	-	-	-	-	-	-	CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORATED SECURED NICKEL BRONZE TOP, TAPER THREAD WITH BRONZE PLUG, FLANGE WITH FLASHIG CLAMP AND VANDAL PROOF TOP.
G.C.O./D.CO.	EXTERIOR FLOOR CLEAN-OUT	JR SMITH 4103S-F-C-U	-	-	-	-	-	-	CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORATED SECURED NICKEL BRONZE TOP (HEAVY DUTY), TAPER THREAD WITH BRONZE PLUG, FLANGE WITH FLASHIG CLAMP AND VANDAL PROOF TOP.
W.C.O.	WALL CLEAN-OUT	JR SMITH 4532S-U	-	-	-	-	-	-	CAST IRON CLEANOUT TEE WITH COUNTERSUNK TAPER THREAD-BRONZE PLUG, STAINLESS STEEL ROUND COVER AND VANDAL PROOF SCREW.
OD-1	OVERFLOW ROOF DRAIN	J.R. SMITH 1015-C-U-CID	-	-	4"	-	-	-	DUCO CAST IRON BODY WITH ADJUSTABLE EXTENSION SLEEVE, REVERSIBLE COLLAR, COMBINED FLASHING CLAMP AND GRAVEL STOP, UNDERDECK CLAMP, WITH CAST IRON VANDAL PROOF DOME. INSTALL TO PROVIDE OVERFLOW PROTECTION FOR RD-1.
DS	DOWNSPOUT NOZZLE	JR SMITH 1770-BS	-	-	6"	-	-	-	CAST BRONZE DOWNSPOUT NOZZLE WITH FLANGE AND BIRDSCREEN.

- CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF ALL PLUMBING FIXTURES INCLUDING HANDICAPPED (ADA) FIXTURES.
- ALL PLUMBING FIXTURES DESIGNATED HANDICAPPED (ADA) SHALL BE INSTALLED TO MEET ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES SET FORTH IN THE AMERICANS WITH DISABILITY ACT (ADA).
- CONTRACTOR SHALL FURNISH AND INSTALL ON EACH PLUMBING FIXTURE REQUIRED THE FOLLOWING: 17 GAUGE CHROME PLATED BRASS P-TRAP W/ CLEANOUT, 17 GAUGE TAILPIECE, CHROME PLATED HEAVY BRASS NIPPLES AND SET SCREW FLANGES, AND CHROME PLATED BRASS ANGLE SUPPLIES (KEYLESS) WITH RIGID RISERS. LAVATORIES SHALL BE SUPPLIED WITH FLAT CHROME PLATED BRASS GRID STRAINERS AND SINKS SHALL BE SUPPLIED WITH BASKET STRAINERS AS SPECIFIED ABOVE.
- ALL PLUMBING FIXTURES DESIGNATED HANDICAPPED (ADA) SHALL HAVE THE FOLLOWING WHERE REQUIRED: FLUSH VALVE INSTALLED WHERE THE HANDLE FACES INTO THE OPEN AREA WITHIN THE STALL, OFFSET LAVATORY/SINK STRAINERS, SEAMLESS VINYL PIPING INSULATORS FOR P-TRAP, OFFSET DRAIN, ANGLE SUPPLIES AND RISERS.

PUMP SCHEDULE

DESIG	TYPE	SERVES	GPM	HEAD FT	MOTOR DATA			MFG	MODEL NUMBER	NOTES
					HP	V/PH	RPM			
RCP-1	INLINE	HOT WATER RECIRC	2	15	1/25	115/1	-	GRUNDFOS	2P310	1

- PROVIDE WITH AQUASTAT SET AT 120F TO ENERGIZE/DENERGIZE PUMP

WATER HEATER SCHEDULE

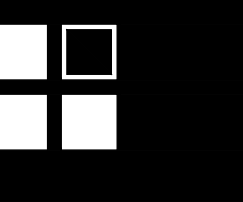
MARK	ELECTRIC DATA			GPH RECOVERY AT 100°F RISE	OUTLET TEMP	INPUT M.B.H	COMBUSTION AIR INTAKE	EXHAUST FLUE	STORAGE CAPACITY (GAL)	MANUFACTURER AND MODEL	REMARKS
	SERVICE	Kw	Amps								
WH-1	120/1	-	6.0	230	140	199	3"	3"	100	AO SMITH BTH-150	SEE 1 - 4

- NOTES:
- PROVIDE STAINLESS STEEL BRAIDED FLEXIBLE CONNECTORS
 - ALL ITEMS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES.
 - PROVIDE COMBUSTION AIR IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - PROVIDE AN ACID NEUTRALIZATION CARTRIDGE FOR DRAIN CONDENSATE PRIOR TO DISCHARGE INTO MOP SINK.

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Job No.
1215

Sheet No.
MP0.1
PLUMBING
SCHEDULES

OUTDOOR CONDENSING UNIT SCHEDULE

DESIG.	NOMINAL TONNAGE	COOLING CAP MBTUH	HEATING CAP. MBTUH	REF. TYPE	IEER	OUTDOOR DB	ELECTRICAL			MFG	MODEL NUMBER	WEIGHT (LBS)	NOTES
							V/PH	MCA	MOPP				
CU-1	8	88.5	87	R410-A	23.0	105	208/3	43	50	DAKIN	RXYQ96PBTJ	620	2,3,5
CU-2	18	209.5	196	R410-A	17.2	105	208/3	41.3/36.1	1.2	DAKIN	REYQ216PBTJ	1,133	1-6

NOTES:

1. PROVIDE MANIFOLD KIT.
2. MOUNT CONDENSING UNIT ON LONGITUDINAL FRAME IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE UNIT MOUNTED DISCONNECT.
4. HEAT RECOVERY CONDENSING UNIT.
5. PROVIDE WITH INTELLIGENT MANAGER CONTROL SYSTEM WHICH SHALL BE LOCATED IN DATA CLOSET
6. PROVIDE 60 AMP BREAKER FOR CONDENSING UNIT SECTION AND 50 AMP BREAKER FOR OTHER CONDENSING UNIT SECTION. SCOR RATING IS 22 KAC

ROOF VENTILATOR SCHEDULE

MARK	SERVICES	MAXIMUM CFM	MAX P.D. (W.G.)	MIN. THROAT AREA (SQ. FT.)	DUCT SIZE	MANUF.	MODEL NO.	OP. WEIGHT (>200 LBS)	REMARKS
VH-1	INTAKE	600	0.06	1.45	12"	GREENHECK	GRSE	-	SEE NOTES

NOTES:

1. PROVIDE BIRDSCREEN
2. PROVIDE MANUFACTURER'S ROOF CURB WITH HINGED ADAPTER

VRV INDOOR UNIT MODELS

DESIGN	SERVES	TYPE	TOTAL CAP. MBTUH	SENSIBLE CAP. MBTUH	HEATING CAP. MBTUH	CFM	OA CFM	SP IN W.G.	ELECTRICAL			MFG	MODEL NUMBER	NOTES
									V/PH	MCA	MOP			
VRV-1A	TRAINING ROOM	CASSETTE	45.2	33.0	57.6	1000	160	-	208/1	1.5	15.0	DAKIN	FXFQ46PVJU	SEE NOTES
VRV-1B	TRAINING ROOM	CASSETTE	33.9	27.0	42.6	1000	160	-	208/1	1.4	15.0	DAKIN	FXFQ36PVJU	SEE NOTES
VRV-2	LOBBY	HIGH STATIC UNIT	25.0	23.2	35.6	1050	70	0.6	208/1	2.3	15.0	DAKIN	FXMQ30PVJU	SEE NOTES
VRV-3	OFFICE 115	CASSETTE	6.1	5.8	8.8	175	15	-	208/1	0.8	15.0	DAKIN	FXQ07MVJU9	SEE NOTES
VRV-4	RADIO ROOM 106	WALL MOUNTED	7.3	6.2	9.1	75	-	-	208/1	0.3	15.0	DAKIN	FXAQ07PVJU	SEE NOTES
VRV-5	RECEPTION/COPY	HIGH STATIC UNIT	17.0	14.1	23.3	415	60	0.6	208/1	1.6	15.0	DAKIN	FXM018PVJU	SEE NOTES
VRV-6	CHIEF 114	CASSETTE	11.8	9.9	18.1	475	20	-	208/1	0.8	15.0	DAKIN	FXQ015MVJU9	SEE NOTES
VRV-7	OFFICE 113	CASSETTE	5.9	5.3	8.8	475	15	-	208/1	0.8	15.0	DAKIN	FXMQ30PVJU	SEE NOTES
VRV-8	OFFICE 112	CASSETTE	5.9	5.3	8.8	250	15	-	208/1	0.8	15.0	DAKIN	FXQ07MVJU9	SEE NOTES
VRV-9	WATCH 118	CASSETTE	6.4	5.7	8.9	200	20	-	208/1	0.8	15.0	DAKIN	FXAQ07PVJU	SEE NOTES
VRV-10	LIEUTENANT AREA	HIGH STATIC UNIT	7.1	6.4	9.2	115	25	0.6	208/1	0.6	15.0	DAKIN	FXMQ07PVJU	SEE NOTES
VRV-11	BATTALION CHIEF AREA	HIGH STATIC UNIT	6.6	6.5	9.0	230	30	0.6	208/1	0.6	15.0	DAKIN	FXMQ07PVJU	SEE NOTES
VRV-12	FITNESS	CASSETTE	29.3	28.0	41.7	1165	70	-	208/1	1.4	15.0	DAKIN	FXFQ36PVJU	SEE NOTES
VRV-13	KITCHEN/LIVING AREA	HIGH STATIC UNIT	64.1	54.2	86.4	1905	270	0.6	208/1	9.0	15.0	DAKIN	FXMQ07MVJU9	SEE NOTES
VRV-14	IT	WALL MOUNTED	5.9	5.9	-	175	-	-	208/1	0.3	15.0	DAKIN	FXAQ07PVJU	SEE NOTES
VRV-15	DORMS	HIGH STATIC UNIT	33.9	28.3	43.2	920	75	0.6	208/1	2.9	15.0	DAKIN	FXMQ36PVJU	SEE NOTES
VRV-16	ELEC. ROOM	WALL MOUNTED	6.9	5.6	-	125	-	-	208/1	0.3	15.0	DAKIN	FXAQ07PVJU	SEE NOTES

NOTES:

1. REFRIGERANT R-410A
2. PROVIDE BUILT-IN DRAIN PUMP OR OPTIONAL CONDENSATE PUMP.
3. PROVIDE MANUFACTURER'S WASHABLE ANTIBACTERIAL FILTER.
5. EACH INDOOR UNIT WILL HAVE INDIVIDUAL TEMPERATURE CONTROL, NO GROUPING OF INDOOR UNITS WILL BE ACCEPTED.
6. PROVIDE REFRIGERANT BOX LOCATED IN ACCESSIBLE PLACE SERVING UNITS AS INDICATED ON PIPING DIAGRAM. SERVE WITH 208-230 SINGLE PHASE, 0.1 MCA EACH.
7. PROVIDE WITH ONE HVAC SERVICE TOOL KIT (TO INCLUDE NECESSARY TORQUE WRENCHES) FOR PROJECT.
8. PROVIDE FRESH AIR INTAKE KIT (DAKIN KDDQ4XA60) FOR ALL CASSETTES AND FILTER RACK FOR DUCTED FAN COILS.

FAN SCHEDULE

DESIG.	SERVES	TYPE	DRIVE	CFM	E.S.P. (IN W.G.)	FAN RPM	MOTOR		MAX Dba	MFG	MODEL NUMBER	NOTES
							HP / WATTS	V/PH				
EF-1	TOILET 145	CEILING EXHAUST	DIRECT	185	0.50	1,100	173	120/1	49	GREENHECK	SP-B200	2, 3, 4, 6
EF-2	TOILET 146	CEILING EXHAUST	DIRECT	185	0.50	1,100	173	120/1	49	GREENHECK	SP-B200	2, 3, 4, 6
EF-3	TOILET 148	CEILING EXHAUST	DIRECT	185	0.50	1,100	173	120/1	49	GREENHECK	SP-B200	2, 3, 4, 6
EF-4	TOILET 147	CEILING EXHAUST	DIRECT	185	0.50	1,100	173	120/1	49	GREENHECK	SP-B200	2, 3, 4, 6
EF-5	LAUNDRY/JAN 136	CEILING EXHAUST	DIRECT	170	0.50	1,027	173	120/1	47	GREENHECK	SP-B200	2, 3, 4, 6
EF-6	TOILET 130	CEILING EXHAUST	DIRECT	185	0.50	1,100	173	120/1	49	GREENHECK	SP-B200	2, 3, 4, 6
EF-7	MENS 104	CEILING EXHAUST	DIRECT	185	0.50	1,100	173	120/1	49	GREENHECK	SP-B200	2, 3, 4, 6
EF-8	WOMENS 103	CEILING EXHAUST	DIRECT	185	0.50	1,100	173	120/1	49	GREENHECK	SP-B200	2, 3, 4, 6

NOTES:

1. NOT USED
2. SUPPORT WITH VIBRATION ISOLATORS.
3. PROVIDE WITH BACKDRAFT DAMPER
4. PROVIDE WITH SPEED SWITCH
5. INTERLOCK FAN WITH THERMOSTAT (SET AT 85°F)
6. FAN CONTROLLED WITH WALL SWITCH AND TIME DELAY (15 MIN ADJUSTABLE) ACTIVATED WHEN FAN IS SWITCHED OFF.

AIR DEVICE SCHEDULE

DESIG	MFG	DESCRIPTION	MAX CFM	MAX NECK VEL (FPM)	MAX NC	NECK SIZE INCHES	MATERIAL	OBJD	MODEL NUMBER	NOTES
A	TITUS	24"x24" ARCHITECTURAL FACE, ROUND NECK CEILING SUPPLY DIFFUSER	95	500	-	6" Ø	ALUM.	N	OMNI-AA	1,2,3,5
			210	600	-	8" Ø				
			330	600	-	10" Ø				
			550	700	18	12" Ø				
B	TITUS	24"x24" PERFORATED RETURN GRILLE FOR LAY-IN CEILING	95	500	-	6" Ø	ALUM.	N	PAR-AA	1,2,3,5
			210	600	-	8" Ø				
			330	600	-	10" Ø				
			550	700	18	12" Ø				
C	TITUS	12"x12" ARCHITECTURAL FACE, ROUND NECK CEILING SUPPLY DIFFUSER	95	500	-	6" Ø	ALUM.	N	OMNI-AA	1,2,3,5
			210	600	-	8" Ø				
D	TITUS	12"x12" SURFACE MOUNTED CEILING DIFFUSER W/ ROUND NECK	100	500	-	6" Ø	ALUM.	N	250-AA	1,2,3,5
			175	500	-	8" Ø				
E	TITUS	SIDEWALL GRILLE WITH LONG FRONT BLADES WITH 3/4". GRILLE FACE SHALL BE 2" LARGER THAN NECK SIZE	-	-	-	18"x6"	ALUM	N	300FL	2,3
F	TITUS	12"x12" PERFORATED RETURN AIR GRILLE FOR SURFACE MOUNT APPLICATIONS.	100	500	-	6" Ø	ALUM.	N	PAR-AA	1,2,3,4
			200	800	24	6"x6"				
G	TITUS	SIDEWALL RETURN AIR GRILLE WITH LONG FRONT BLADES WITH 3/4". GRILLE FACE SHALL BE 2" LARGER THAN NECK SIZE	600	500	13	18"x12"	ALUM.	N	350FL	2
			1250	600	22	18"x18"				

NOTES:

- 1) MATCH FRAME OF AIR DEVICE WITH CEILING REFERENCE ARCH. ROOM FINISH SCHEDULE.
- 2) COORDINATE COLOR WITH ARCHITECT.
- 3) REFER TO HVAC DRAWINGS FOR ANY NECK SIZES OTHER THAN THOSE SHOWN ABOVE.
- 4) ALL RETURN AIR GRILLES NOT DUCTED SHALL HAVE INTERIOR INSULATED BOOT TO PREVENT VIBRATION TO CEILING PLENUM.
- 5) ALL SUPPLY GRILLES SHALL HAVE INSULATED PANELS ON BACKSIDE OF GRILLE

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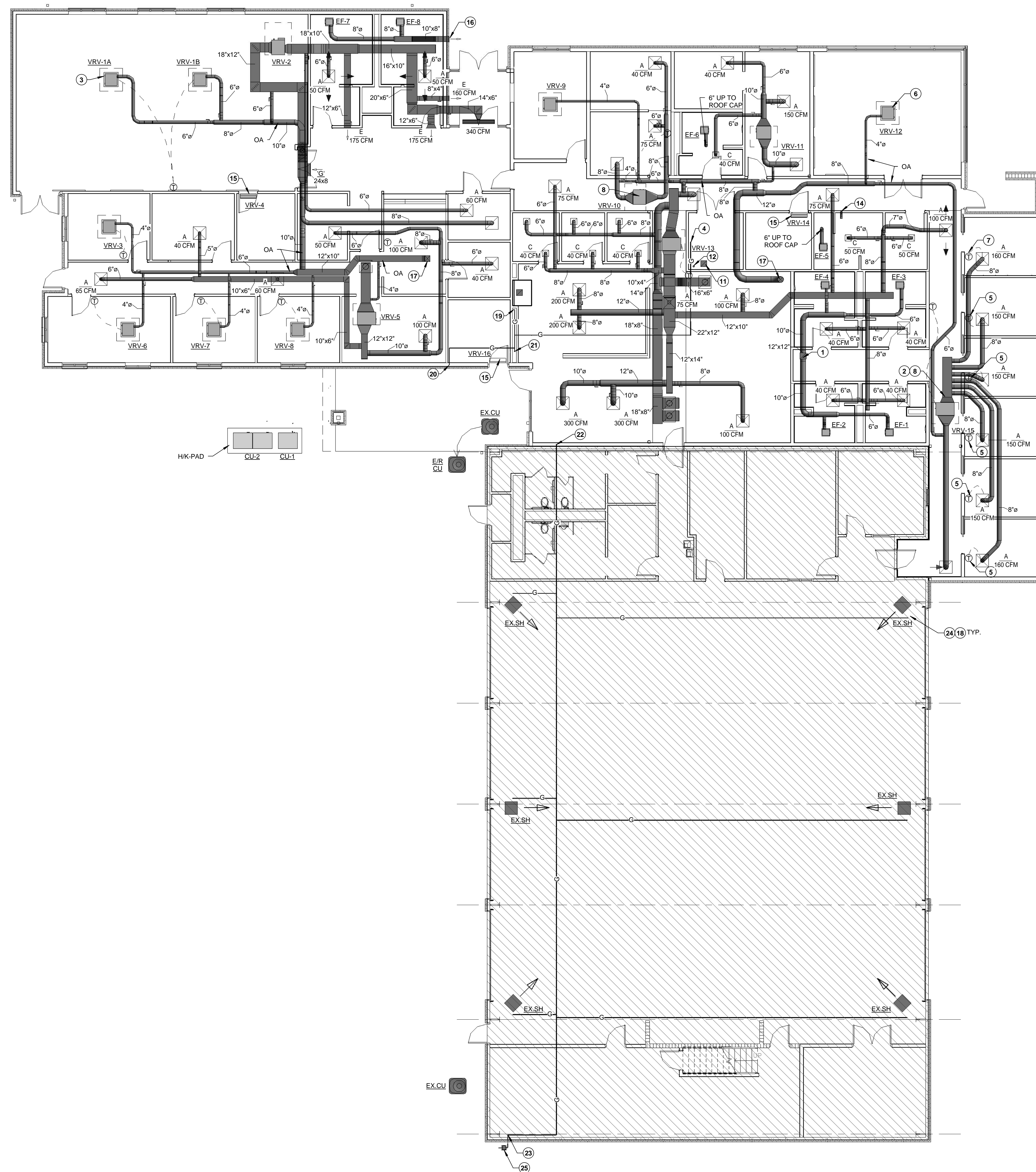
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TXAS REGISTRATION #97033
DATE: 04, April 2014

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1215

Sheet No.
MP0.2
MECHANICAL
SCHEDULES



GENERAL NOTES:

- COORDINATE WITH ALL TRADES BEFORE INSTALLING ANY EQUIPMENT, CONDENSATE DRAINS, REFRIGERANT LINES, OR DUCTWORK.
- UNLESS OTHERWISE NOTED ALL AIR DEVICES SHALL BE DESIG. "A".
- ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA FOR APPROPRIATE PRESSURE.
- ALL SHEET METAL DUCTWORK PENETRATING FIRE RATED WALLS SHALL BE MINIMUM OF 24 GAUGE. ALL OTHER DUCT SHALL BE CONSTRUCTED AS SPECIFIED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".
- UNIT SMOKE DETECTORS SHALL BE INSTALLED TO COMPLY WITH APPLICABLE CODES AND NFPA.
- UNLESS OTHERWISE NOTED ALL RETURN AIR GRILLES AND EXHAUST GRILLES DESIG. "B".
- INSTALL CONDENSING UNITS AND SIZE REFRIGERANT LINES PER MANUFACTURER'S GUIDELINES AND REQUIREMENTS.
- PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR SERVICE OF INDOOR VRV UNITS.
- ALL RUNOUTS TO AIR DEVICES SHALL INCLUDE BALANCING DAMPERS IN ALL SUPPLY AIR, RETURN AIR, AND EXHAUST AIR TAPS AND BRANCH DUCTWORK UNLESS OTHERWISE NOTED. PROVIDE REMOTE BALANCING DAMPERS FOR ALL TAPS MADE ABOVE INACCESSIBLE CEILINGS.
- ALL DIFFUSERS SHALL BE 4 WAY UNLESS OTHERWISE NOTED.
- PROVIDE CONDENSATE PUMPS FOR ALL CEILING AND WALL MOUNTED UNITS. TERMINATE DRAIN IN CLOSEST APPROVED RECEPTOR.

NOTES BY SYMBOL "O":

- 12" x 12" EXHAUST UP TO ROOF CAP.
- PROVIDE ZONING KIT EQUAL TO DAIKIN DZK30E4 WITH ONE ZONE CAPPED.
- COORDINATE LOCATION OF VRV UNIT IN CEILING TILE. TYPICAL ALL ROOMS WITH CASSETTES.
- GAS LINE TO WATERHEATER.
- PROVIDE WIRELESS THERMOSTAT (DAIKIN DZK-ZTS-1) IN EACH DORM ROOM. COORDINATE LOCATION.
- COORDINATE VRV LOCATION WITH CEILING FANS AND LIGHTS. VRV SHALL NOT BE ADJACENT TO LIGHT FIXTURES
- PROVIDE MAIN ZONE THERMOSTAT (DAIKIN DZK-MTS-1).
- INSTALL VRV UNITS WITH MANUFACTURER'S RECOMMENDED CLEARANCES REQUIRED FOR MAINTENANCE AND FILTER REMOVAL. COORDINATE WITH ALL OTHER TRADES TO ENSURE FILTER ACCESSIBILITY. TYPICAL ALL TYPES OF VRV UNITS.
- EXHAUST DUCT UP TO ROOF CAP.
- CONTRACTOR SHALL CONNECT DUCTWORK TO KITCHEN HOOD AND EXHAUST CAP. EXHAUST DUCT SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH APPLICABLE CODES.
- 12" x 12" COMBUSTION AIR DUCT HIGH AND LOW IN ACCORDANCE WITH CODE.
- WATER HEATER FLUE UP TO ROOF.
- DIFFUSERS SHALL BE MOUNTED SO THE AIR DISCHARGES TOWARDS THE CENTER OF ROOM. GRILLE SHALL BE INSTALLED BE NON-VISIBLE FROM FLOOR ELEVATION.
- PROVIDE 4" DUCT WORK (CONFIRM EXACT SIZE WITH DRYER MANUFACTURER) TO WALL MOUNTED DRYER VENT CAP.
- WALL MOUNTED VRV TO BE INSTALLED ABOVE ROOM DOOR. MOUNT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE INSTALLATION OF THERMOSTAT WITH ROOM EQUIPMENT.
- PROVIDE WALL LOUVER FOR EF-7/8.
- OUTSIDE AIR UP TO ROOF CAP.
- CONVERT LP INFRARED HEATERS TO NATURAL GAS HEATERS WITH ORIFICE CHANGE. TYPICAL FOR 6 HEATERS.
- GAS LINE DOWN TO RANGE.
- GAS LINE DOWN TO OUTSIDE GRILL.
- GAS LINE UP TO ROOF. SEE M2.2 FOR CONTINUATION.
- GAS LINE THROUGH WALL. SEE M2.2 FOR CONTINUATION.
- GAS LINE UP.
- CONNECT NEW GAS LINE TO EXISTING SPACE HEATERS. TYPICAL FOR 6 HEATERS.
- APPROXIMATE LOCATION OF NEW GAS METER.

1 FLOOR PLAN - MECHANICAL
1/8" = 1'-0"



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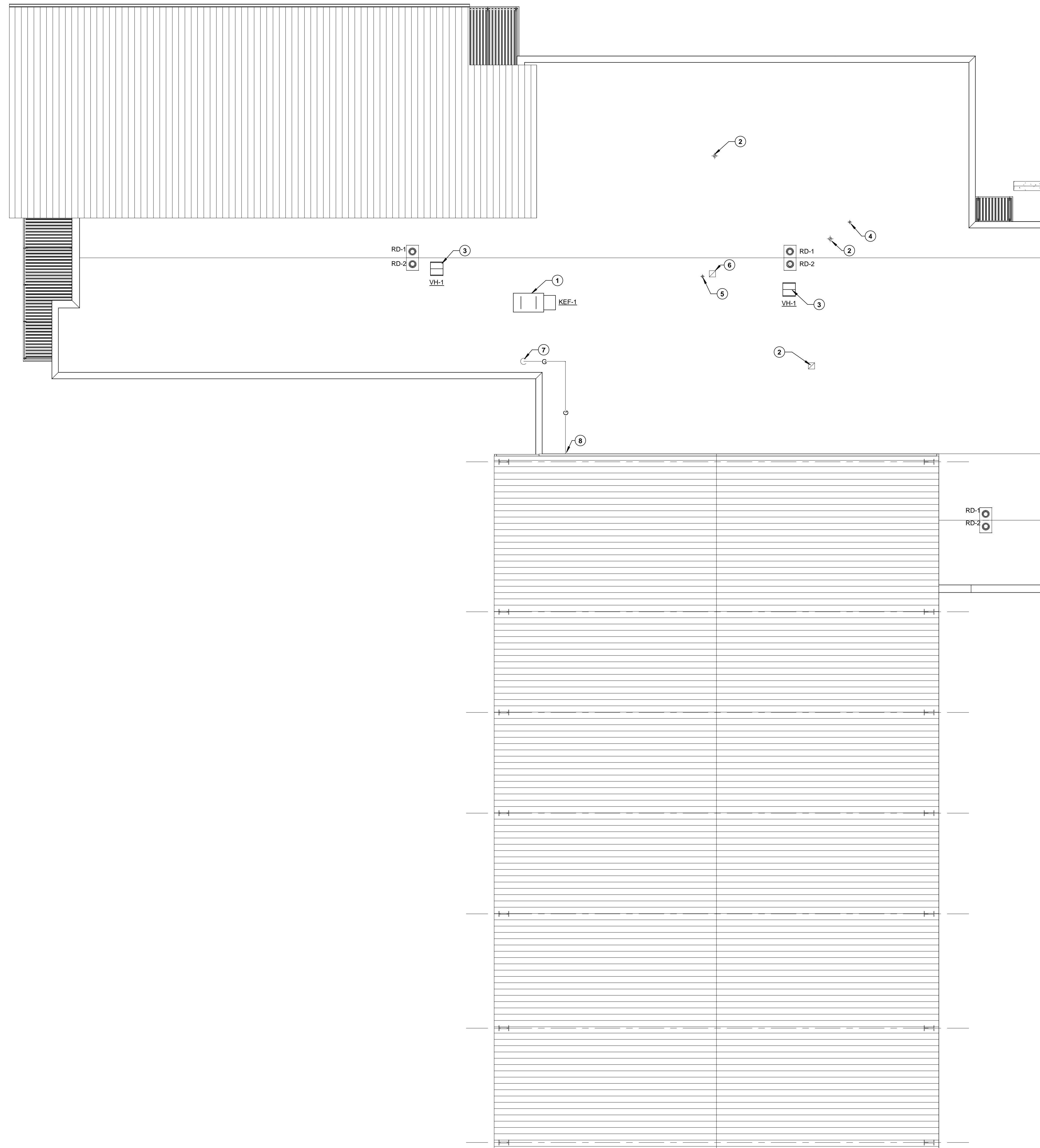
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MICHAEL JOSEPH SMITH P.E.
TEXAS REGISTRATION NO. 16743
DATE: 04 APRIL 2014

Job No.
1215

Sheet No.
M2.1
FLOOR PLAN HVAC



GENERAL NOTES:

1. COORDINATE LOCATIONS OF ROOF MOUNTED EQUIPMENT TO ALLOW FOR SERVICE ACCESS AND CLEARANCES AS REQUIRED BY MANUFACTURER.
2. VERIFY ALL EXHAUST AIR OUTLETS AND PLUMBING VENTS ARE MINIMUM OF 12" FROM ANY FRESH AIR OPENING.

NOTES BY SYMBOL "O":

1. KITCHEN EXHAUST FAN.
2. ROOF CAP FROM EXHAUST FAN.
3. ROOF CAP FOR OUTSIDE AIR TO BE LOCATED IN THIS APPROXIMATE AREA. CONFIRM LOCATION WITH ARCHITECT PRIOR TO SUBMITTAL.
4. DRYER VENT.
5. WATER HEATER FLUE.
6. COMBUSTION AIR INTAKE HOOD.
7. GAS LINE DOWN THROUGH ROOF IN PITCH PAN. SEE M2.1 FOR CONTINUATION. SEE DETAIL.
8. GAS LINE THROUGH WALL TO EXISTING SPACE HEATERS. SEE M2.1 FOR CONTINUATION.

1 ROOF PLAN - MECHANICAL
1/8" = 1'-0"

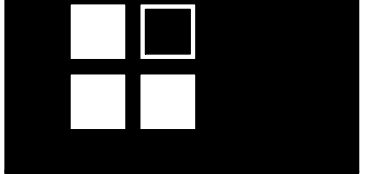


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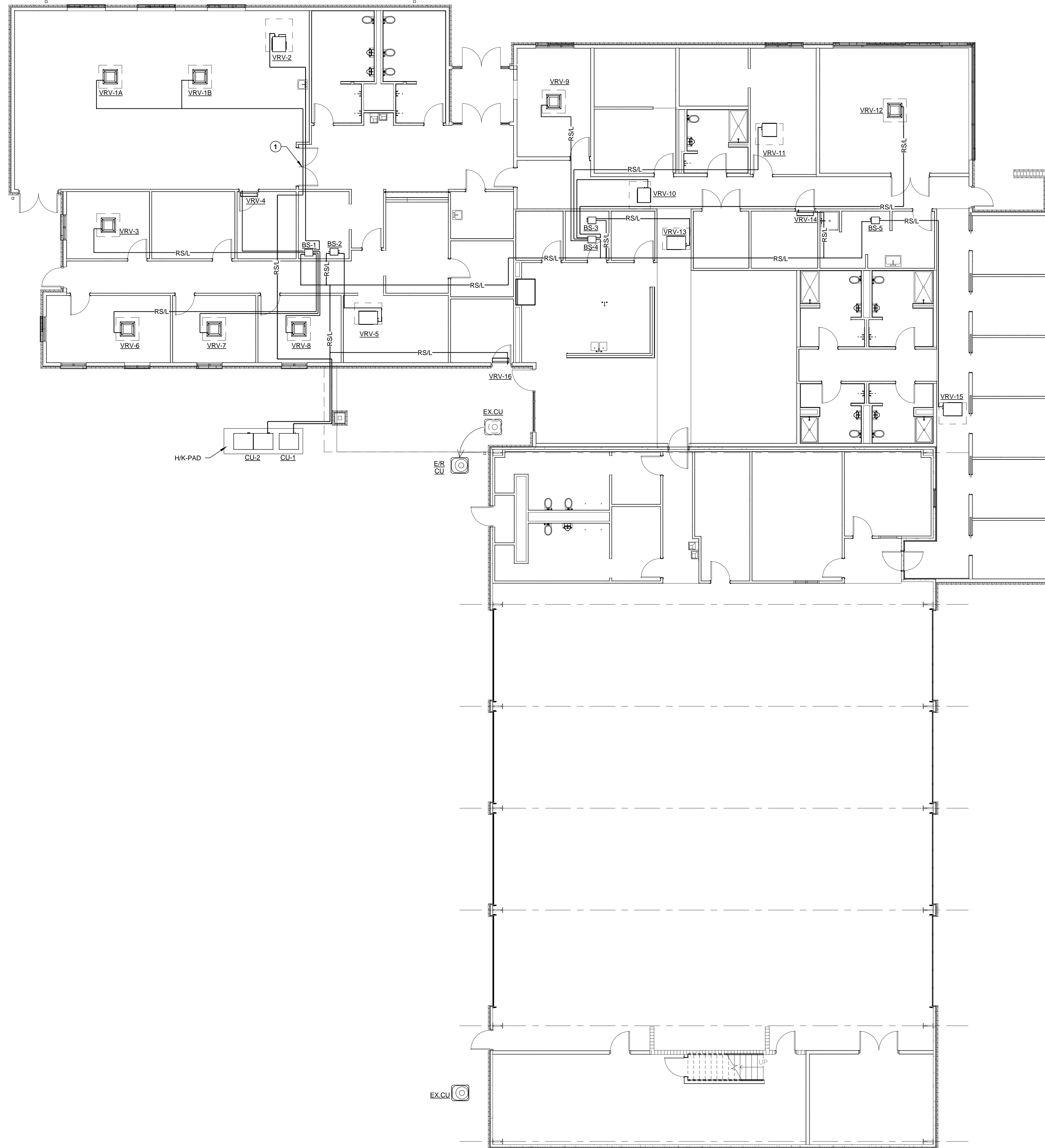
Sheet No.
M2.2
ROOF PLAN HVAC

NOTES BY SYMBOL "O":

- 1. PIPING TO BE ROUTED IN FURR DOWN. COORDINATE WITH OTHER TRADES.

GENERAL NOTES:

- 1. COORDINATE WITH ALL TRADES BEFORE INSTALLING ANY EQUIPMENT, CONDENSATE DRAINS, REFRIGERANT LINES, OR DUCTWORK.
- 2. PIPING IS INDICATED AS SINGLE LINE. REFER TO SCHEMATIC FOR RECOMMENDED REFRIGERANT PIPE SIZES.
- 3. INSTALL CONDENSING UNITS AND SIZE REFRIGERANT LINES PER MANUFACTURER'S GUIDELINES AND REQUIREMENTS. THE ROUTING INDICATED ON THIS SHEET IS NOT MEANT TO INDICATE THE ONLY ROUTING FOR THIS PIPING.
- 4. PROVIDE FULL PORT REFRIGERANT VALVES ON ALL EQUIPMENT SUPPLIED BY VRV MANUFACTURER.
- 5. ALL CONDENSATE LINES ARE PUMPED, SHALL BE ROUTED AS HIGH AS POSSIBLE, AND SLOPED AT 1/8" PER FOOT.
- 6. NO EXPOSED PIPING UNLESS APPROVED BY ARCHITECT. PIPING IN APPARATUS BAY SHALL BE TIGHT TO STRUCTURAL AND ADJUNCT WALLS AND AS HIGH AS POSSIBLE. MAKE EVERY EFFORT TO HIDE PIPING FROM GROUND LEVEL.



1 FLOOR PLAN - PIPING
1/8" = 1'-0"



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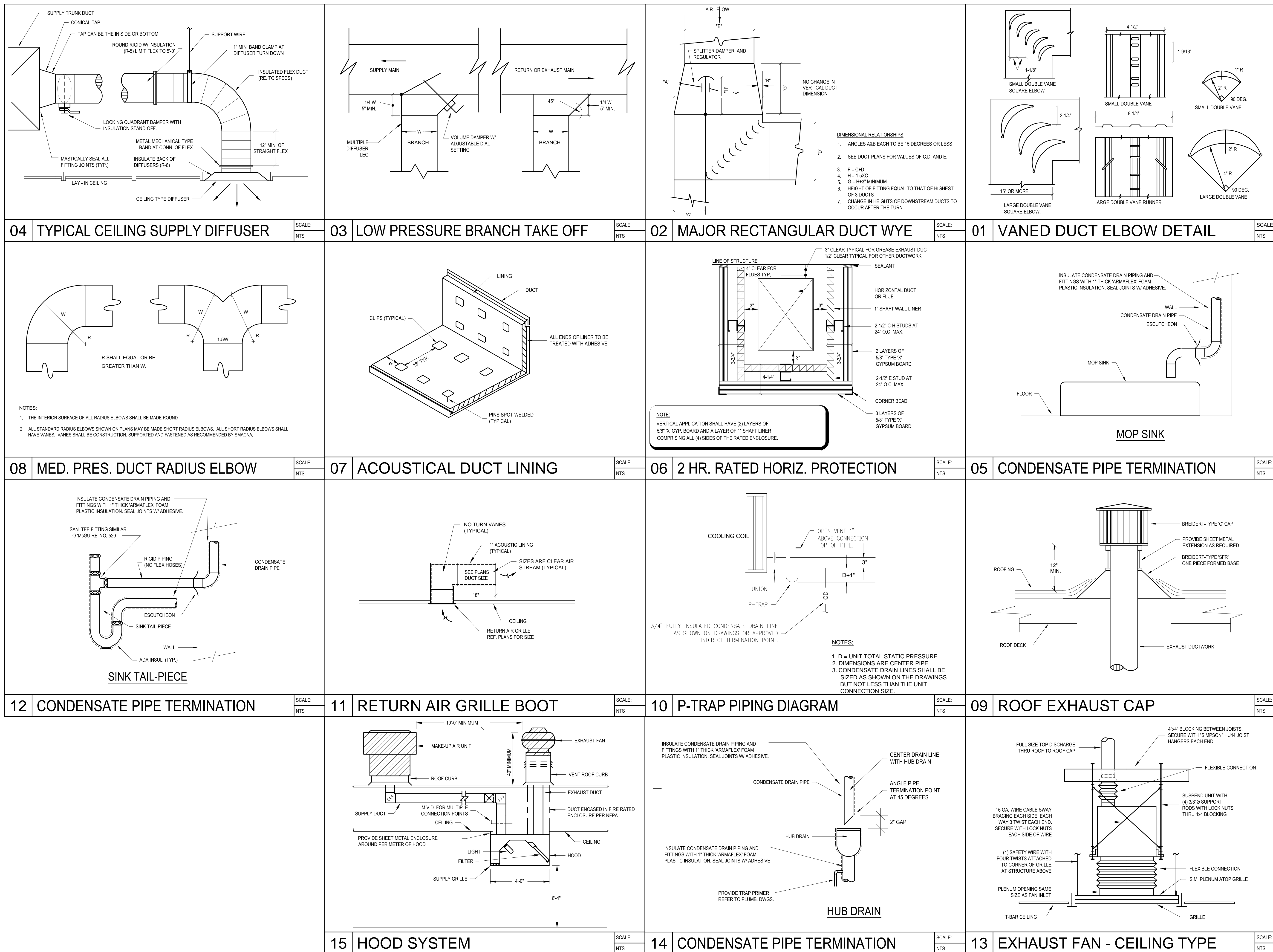
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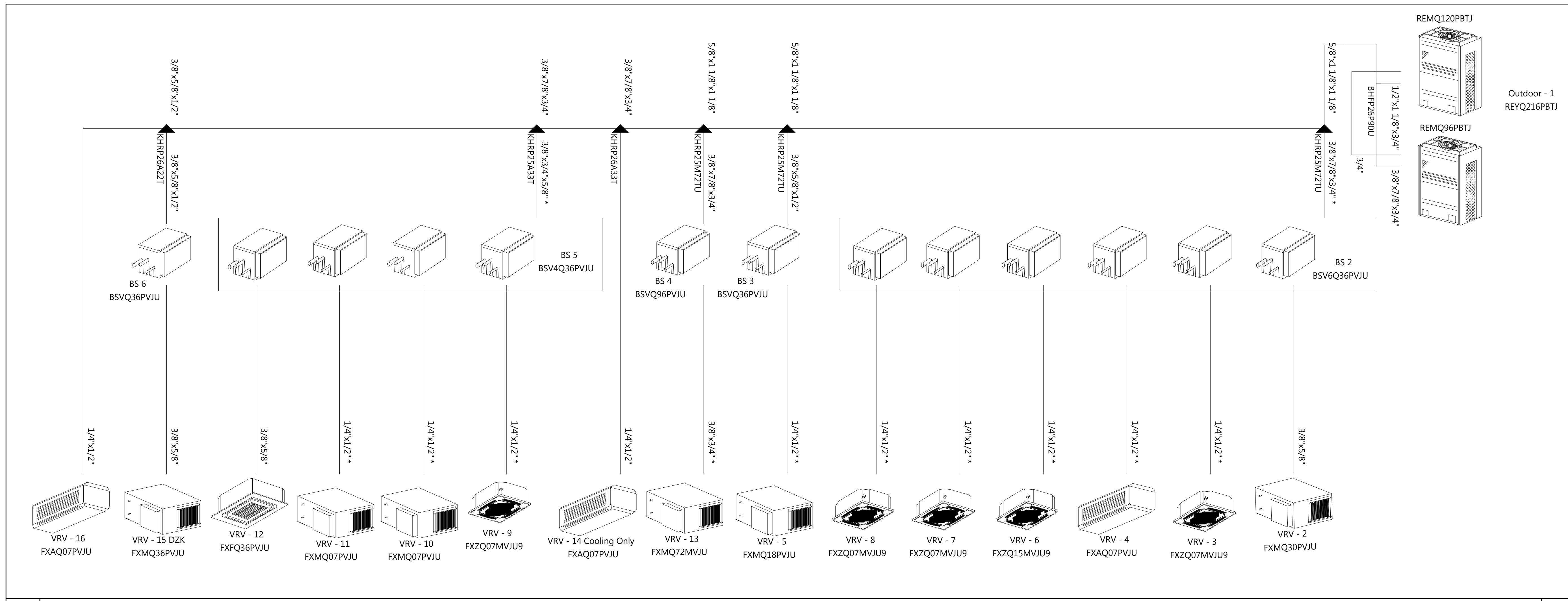
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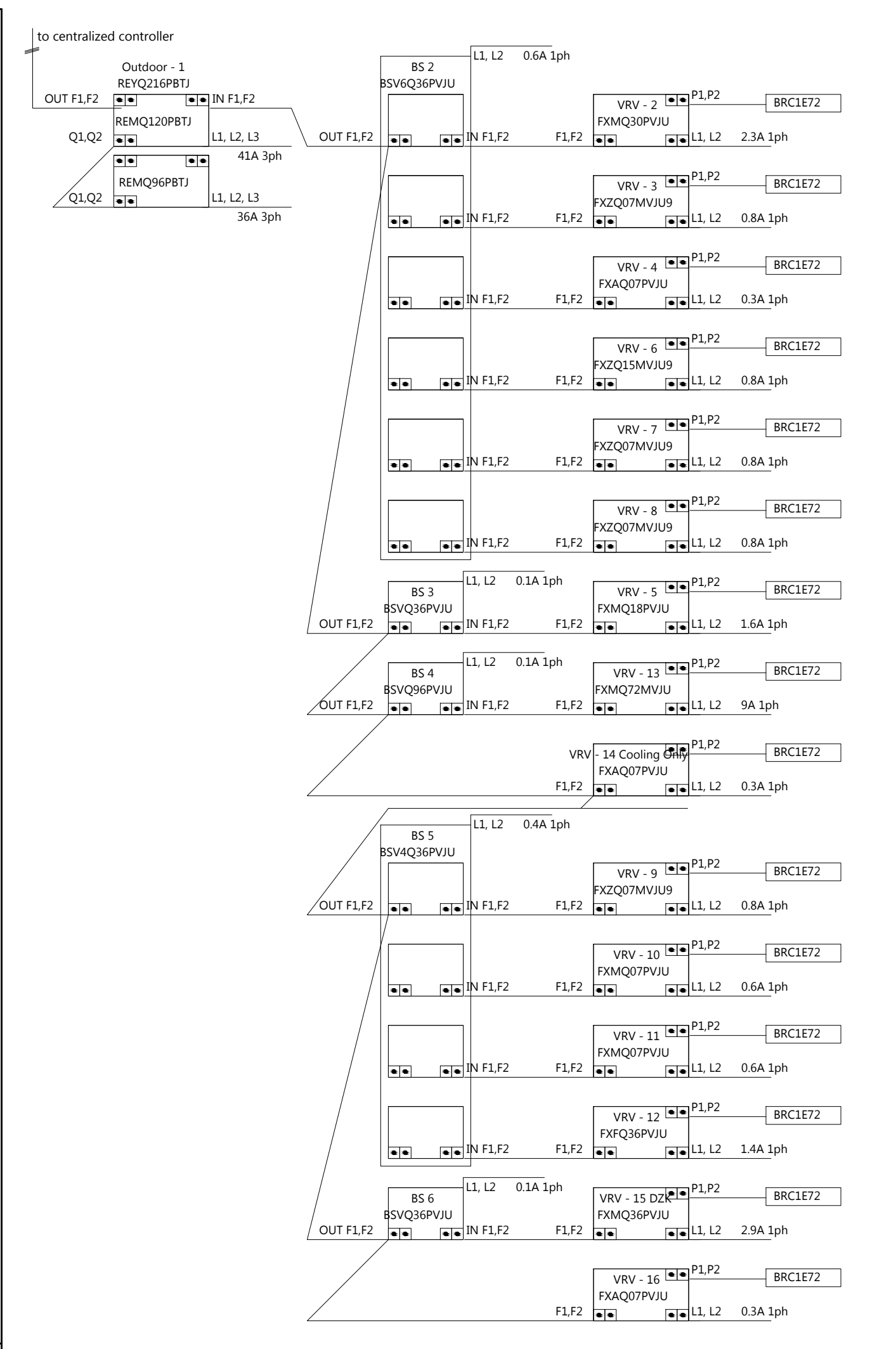
Sheet No.
M3.1
HVAC PIPING PLAN





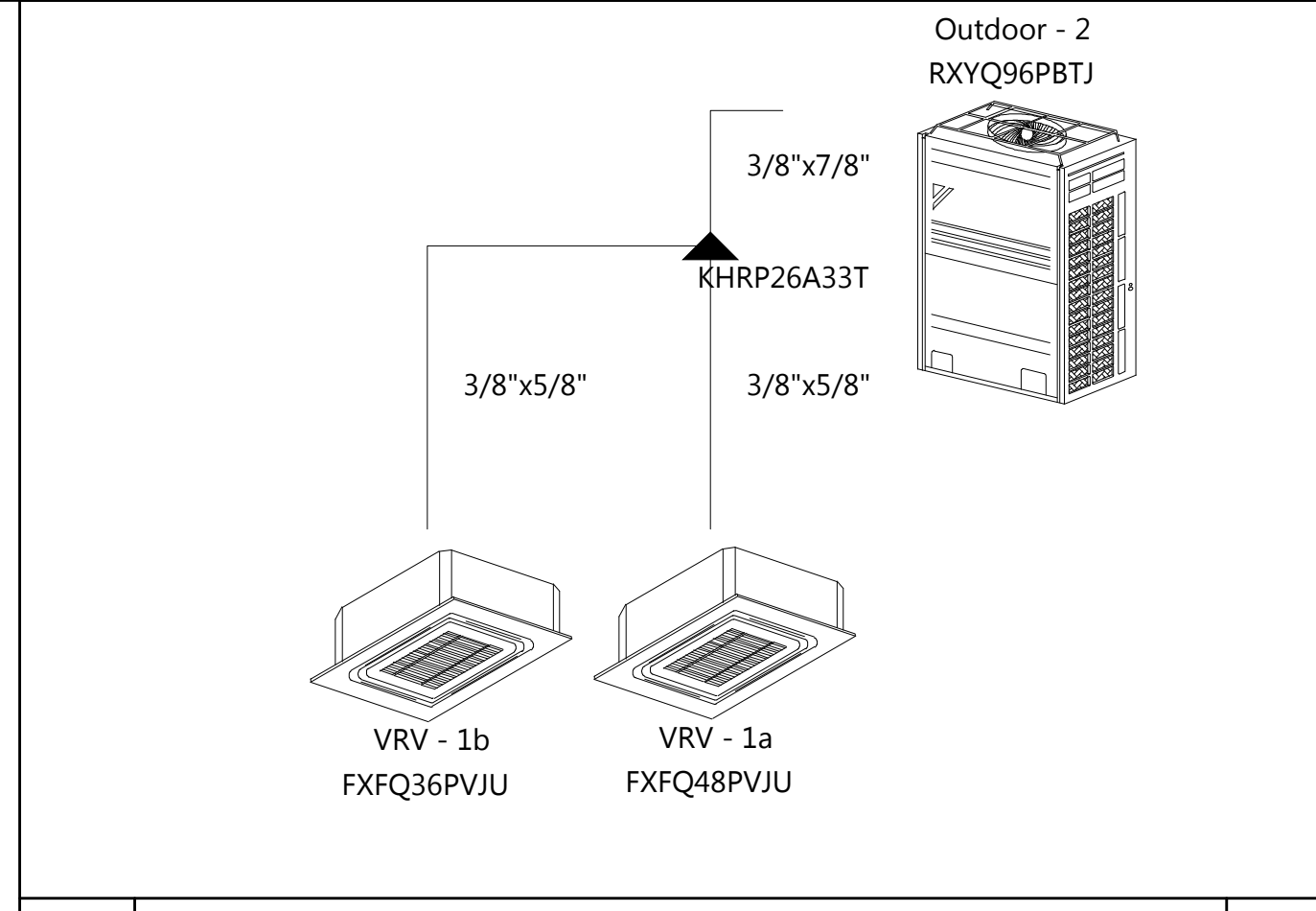
02 VRV REFRIGERANT PIPING CU-1

SCALE: NTS



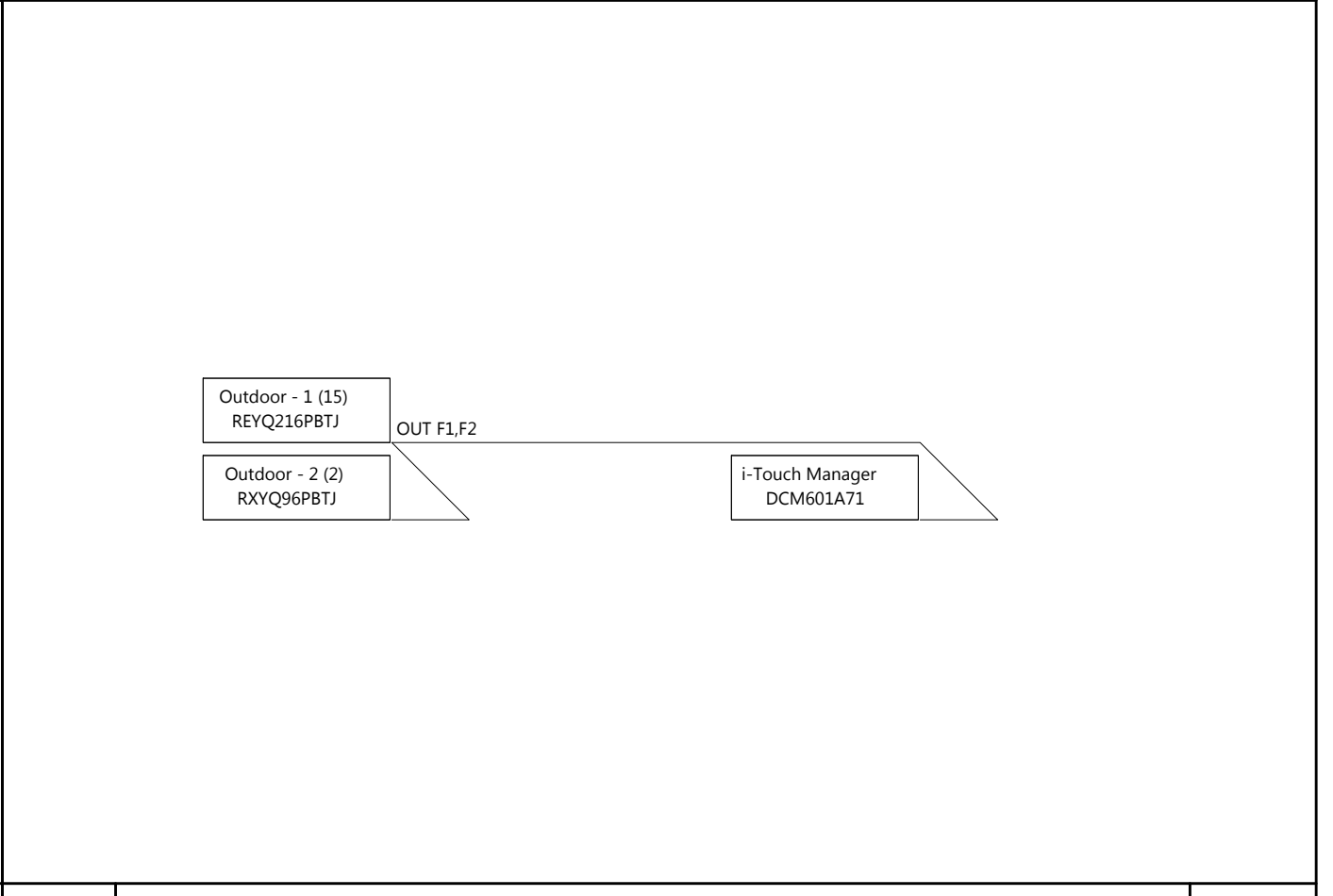
03 WIRING CONTROL DIAGRAM

SCALE: NTS



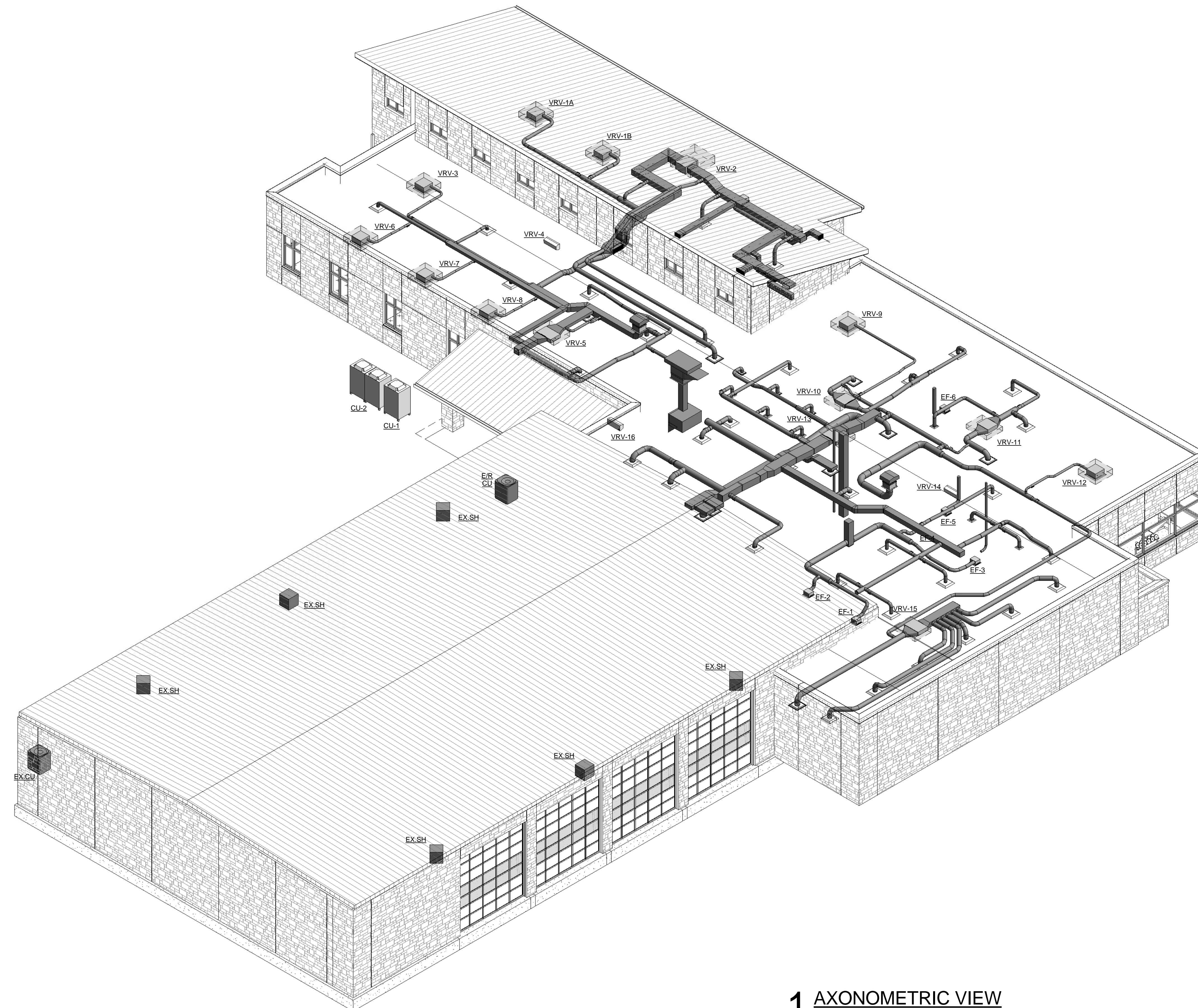
04 VRV REFRIGERANT PIPING CU-2

SCALE: NTS



03 WIRING CONTROL DIAGRAM

SCALE: NTS



1 AXONOMETRIC VIEW

GENERAL NOTES:

1. AXONOMETRIC VIEW IS PROVIDED TO SHOW GENERAL DUCT LAYOUT. THIS DOES NOT RELIEVE THE CONTRACTOR FROM COORDINATION AND ALL PROJECT REQUIREMENTS FOR SHOP DRAWINGS.

ELECTRICAL ABBREVIATIONS
(ALL ABBREVIATIONS MAY NOT APPEAR ON DRAWINGS.)

2SCP	2-SPEED, CONSEQUENT POLE	FLEX	FLEXIBLE	NFS	NON-FUSIBLE SAFETY SWITCH
2SSW	2-SPEED, SEPARATE WINDING	FS	FUSIBLE SAFETY SWITCH OR FUSIBLE SWITCH	NIC	NOT IN CONTRACT
A	AMPERE(S)	FVNR	FULL VOLTAGE, NON-REVERSING	NL	NIGHT LIGHT
AC	ALTERNATING CURRENT	FVR	FULL VOLTAGE, REVERSING	NO	NORMALLY OPEN
ACCU	AIR-COOLED CONDENSING UNIT	G	GROUND	NTS	NOT TO SCALE
ADA	AMERICANS WITH DISABILITIES ACT ABOVE FINISHED FLOOR	GFCI	GROUND FAULT CIRCUIT INTERRUPT	OH	OVERHEAD
AFC	ABOVE FINISHED CEILING	HACR	HEATING AND AIR CONDITIONING RATING	P	POLE(S)
AFG	ABOVE FINISHED GRADE	HID	HIGH INTENSITY DISCHARGE	PA	PUBLIC ADDRESS SYSTEM
AHU	AIR HANDLING UNIT	HOA	HAND-OFF-AUTOMATIC	PF	POWER FACTOR
AIC	AMPERE INTERRUPTING CAPACITY(ROOT MEAN SQUARE SYMMETRICAL)	HP	HORSEPOWER	PL	PILOT LIGHT
ALT	ALTERNATE	HPS	HIGH PRESSURE SODIUM	PNL	PANELBOARD
APPROX	APPROXIMATE OR APPROXIMATELY	HVAC	HEATING, VENTILATION AND AIR CONDITIONING	PVC	POLYVINYL CHLORIDE
ARCH	ARCHITECT	HZ	HERTZ	RC	REMOTE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH	IES	ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA	RCP	REFLECTED CEILING PLAN
AUX	AUXILIARY	IG	ISOLATED GROUND	REC	RECEPTACLE(S)
AWG	AMERICAN WIRE GAGE	IMC	INTERMEDIATE METALLIC CONDUIT	RGS	RIGID GALVANIZED STEEL
BFC	BELOW FINISHED CEILING	JBOX	JUNCTION BOX	RVSS	REDUCED VOLTAGE, SOLID STATE
BFG	BELOW FINISHED GRADE	KA	KILOAMPERE(S)	SF	SQUARE FOOT OR FEET
BLDG	BUILDING	KW	KILOWATT(S)	SPDT	SINGLE-POLE, DOUBLE-THROW
C	CONDUIT OR TUBING	KWH	KILOWATT-HOUR(S)	SPST	SINGLE-POLE, SINGLE-THROW
CATV	CABLE TELEVISION	KV	KILOVOLT(S)	SS	START-STOP
CB	CIRCUIT BREAKER	KVA	KILOVOLT-AMPERE(S)	SW	SWITCH
CCTV	CLOSED-CIRCUIT TELEVISION	KVAR	KILOVOLT-AMPERE(S) REACTIVE	SWBD	SWITCHBOARD
CKT	CIRCUIT	LPS	LOW PRESSURE SODIUM	TA	TRIP AMPERE(S)
CLG	CEILING	LTG	LIGHTING	TAS	TEXAS ACCESSIBILITY STANDARDS
COMM	COMMUNICATIONS	m	METER(S)	TEL	TELEPHONE
CT(S)	CURRENT TRANSFORMER(S)	MAX	MAXIMUM	TEMP	TEMPORARY
DC	DIRECT CURRENT	MCA	MAXIMUM CURRENT AMPACITY	TU	TEXAS UTILITIES ELECTRIC
DISC	DISCONNECT	MCB	MAIN CIRCUIT BREAKER	TV	TELEVISION
DPDT	DOUBLE-POLE, DOUBLE THROW	MCP	MOTOR CIRCUIT PROTECTOR	TYP	TYPICAL
DPST	DOUBLE-POLE, SINGLE THROW	MH	METAL HALIDE	UG	UNDERGROUND
DWG(S)	DRAWING(S)	MIC	MICROPHONE	UL	UNDERWRITERS LABORATORIES, INC.
EC	EMPTY CONDUIT OR TUBING	MIN	MINIMUM	UPS	UNINTERRUPTIBLE POWER SUPPLY
EGS	ENGINE-GENERATOR SET	MLO	MAIN LUGS ONLY	UNO	UNLESS NOTED OTHERWISE
EHH	ELECTRICAL HANDHOLE	mm	MILLIMETER(S)	V	VOLTAGE OR VOLT(S)
ELEV	ELEVATION	MMS	MANUAL MOTOR STARTER	VA	VOLT-AMPERE(S)
EMERG	EMERGENCY	MOCP	MAXIMUM OVER-CURRENT PROTECTION	VFD	VARIABLE FREQUENCY DRIVE
EMH	ELECTRICAL MANHOLE	MTS	MANUAL TRANSFER SWITCH	W	WATT(S)
EMT	ELECTRICAL METALLIC TUBING	MVA	MEGAVOLT-AMPERE(S)	WP	WEATHERPROOF
ER	EXISTING TO BE REMOVED AND REINSTALLED AFTER MODIFICATION	MVAR	MEGAVOLT-AMPERE(S) REACTIVE	W	WITH
EWC	ELECTRICAL WATER COOLER	MW	MEGAWATT(S)	W/O	WITHOUT
EX	EXISTING	NC	NORMALLY CLOSED	XFMR	TRANSFORMER
F	FUSE(S)	NEC	NATIONAL ELECTRICAL CODE	XP	EXPLOSION-PROOF
FAAP	FIRE ALARM ANNUNCIATOR PANEL	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	Δ	DELTA
FACP	FIRE ALARM CONTROL PANEL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	#	NUMBER
FBO	FURNISHED BY OWNER				
FL	FLOOR				
FLA	FULL LOAD AMPERE(S)				

WIRING METHOD NOTES:

1. DON'T COMBINE NEUTRALS AND GROUNDS OF SEPARATE BRANCH CIRCUITS.
2. DO NOT USE MC OR AC CABLE.
3. WIRE SHALL BE COPPER THWN - SOLID FOR SIZES 12, 10, 8; STRANDED FOR SIZES 6 AND LARGER.

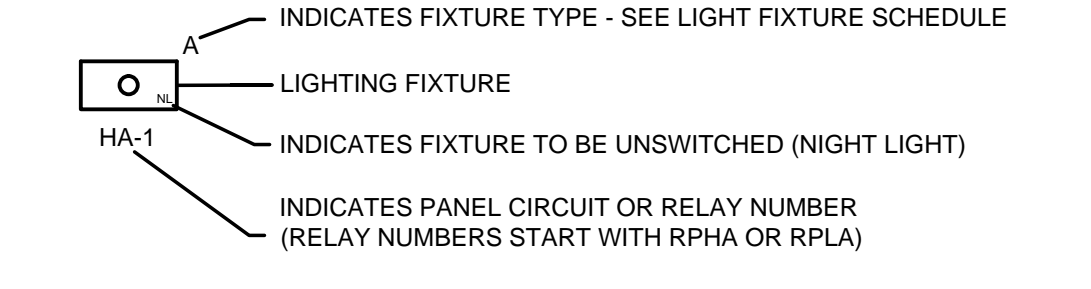
ELECTRICAL SYMBOLS LIST
(ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.)

○	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED LIGHT FIXTURE.	Ⓢ	— SINGLE-POLE SWITCH AT 48" ABOVE FINISHED FLOOR WITH SECURITY DETENTION PLATE.
⊗	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED EMERGENCY LIGHT FIXTURE.	Ⓣ	— SINGLE-POLE SWITCH AT 48" ABOVE FINISHED FLOOR UNO.
○	— WALL-MOUNTED RECESSED OR SURFACE LIGHT FIXTURE.	Ⓝ	— SINGLE-POLE DIMMING SWITCH AT 48" ABOVE FINISHED FLOOR UNO.
○	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED INDIVIDUAL LIGHT FIXTURE.	Ⓜ	— TWO-POLE SWITCH AT 48" ABOVE FINISHED FLOOR UNO.
⊗	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED INDIVIDUAL EMERGENCY LIGHT FIXTURE.	Ⓜ	— THREE-WAY SWITCH AT 48" ABOVE FINISHED FLOOR UNO.
○	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED INDIVIDUAL LIGHT FIXTURE.	Ⓜ	— FOUR-WAY SWITCH AT 48" ABOVE FINISHED FLOOR UNO.
⊗	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED INDIVIDUAL EMERGENCY LIGHT FIXTURE.	Ⓜ	— KEY-OPERATED SWITCH AT 48" ABOVE FINISHED FLOOR UNO.
○	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED INDIVIDUAL LIGHT FIXTURE.	Ⓜ	— SINGLE-POLE SWITCH AND PILOT LIGHT AT 48" ABOVE FINISHED FLOOR UNO.
⊗	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED INDIVIDUAL EMERGENCY LIGHT FIXTURE.	Ⓜ	— TIME SWITCH AT 48" ABOVE FINISHED FLOOR UNO.
○	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED INDIVIDUAL LIGHT FIXTURE.	Ⓜ	— SINGLE-POLE SWITCH WITH WEATHERPROOF COVERPLATE AT 48" ABOVE FINISHED GRADE OR FLOOR UNO.
⊗	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED INDIVIDUAL EMERGENCY LIGHT FIXTURE.	Ⓜ	— NURSE CALL SYSTEM DEVICE; SEE NURSE CALL SYSTEM DEVICE SCHEDULE ON DRAWINGS.
○	— CEILING-MOUNTED RECESSED, SURFACE OR SUSPENDED CONTINUOUS-ROW LIGHT FIXTURE.	Ⓜ	— PAGING SYSTEM DEVICE; SEE PAGING SYSTEM DEVICE SCHEDULE ON DRAWINGS.
○	— CEILING-MOUNTED SURFACE OR SUSPENDED FLUORESCENT STRIP.	Ⓜ	— FIRE ALARM SYSTEM MANUAL PULL STATION AT 48" ABOVE FINISHED FLOOR UNO.
⊗	— CEILING-MOUNTED SURFACE OR SUSPENDED FLUORESCENT STRIP ON EMERGENCY.	Ⓜ	— FIRE ALARM SYSTEM SMOKE DETECTOR; SUBSCRIPTED D INDICATES DUCT MOUNTING AND SUBSCRIPTED U INDICATES UNDER FLOOR MOUNTING.
○	— WALL WASH DOWNLIGHT; UNSHADED HALF INDICATES ILLUMINATION DIRECTION.	Ⓜ	— FIRE ALARM SYSTEM HEAT DETECTOR.
○	— POLE MOUNTED FLOODLIGHTS (2 LUMINAIRES SHOWN).	Ⓜ	— FIRE ALARM SYSTEM STROBE LIGHT AT 80" AFF OR 6" BFC, WHICHEVER IS LOWER; SUBSCRIPTED 1 INDICATES 110 CANDELA INTENSITY.
⊗	— CEILING-MOUNTED SURFACE OR SUSPENDED SINGLE-FACE EXIT SIGN WITH DIRECTIONAL ARROW AS INDICATED; SHADED QUADRANT INDICATES FACE OF SIGN.	Ⓜ	— FIRE ALARM SYSTEM HORN AT 90" AFF OR 6" BFC, WHICHEVER IS LOWER.
⊗	— CEILING-MOUNTED SURFACE OR SUSPENDED DOUBLE-FACE EXIT SIGN WITH DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACES OF SIGN.	Ⓜ	— FIRE ALARM SYSTEM BELL AT 90" AFF OR 6" BFC, WHICHEVER IS LOWER; SUBSCRIPTED 1 INDICATES 110 CANDELA INTENSITY.
⊗	— WALL-MOUNTED EXIT SIGN WITH DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT(S) INDICATE FACE(S) OF SIGN.	Ⓜ	— FIRE ALARM SYSTEM BELL/STROBE LIGHT AT 80" AFF 1 INDICATES 110 CANDELA INTENSITY.
⊗	— EMERGENCY LIGHT FIXTURE	Ⓜ	— SPRINKLER SYSTEM TAMPER SWITCH
○	— JUNCTION BOX	Ⓜ	— SPRINKLER SYSTEM FLOW SWITCH
○	— SINGLE RECEPTACLE; NEMA 5-20R AT 18" ABOVE FINISHED FLOOR UNO.	Ⓜ	— SPRINKLER SYSTEM PRESSURE SWITCH
○	— DUPLEX RECEPTACLE; NEMA 5-20R AT 18" ABOVE FINISHED FLOOR UNO.	Ⓜ	— CLOCK SYSTEM SINGLE RECEPTACLE; NEMA 5-15R AT 80" ABOVE FINISHED FLOOR UNO.
○	— QUADRUPLEX RECEPTACLE; NEMA 5-20R AT 18" ABOVE FINISHED FLOOR UNO.	Ⓜ	— SOUND SYSTEM DEVICE; SEE SOUND SYSTEM DEVICE SCHEDULE ON DRAWINGS.
Ⓜ	— RECEPTACLE WITH WEATHERPROOF COVERPLATE; DUPLEX NEMA 5-20R 18" ABOVE FINISHED GRADE OR FLOOR UNO.	Ⓜ	— SOUND SYSTEM SPEAKER; CEILING-MOUNTED 2-GANG, 4" DEEP BOX WITH 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING
Ⓜ	— DUPLEX RECEPTACLE WITH DETENTION PLATE	Ⓜ	— PUSHBUTTON
Ⓜ	— GROUND-FAULT CIRCUIT INTERRUPTER RECEPTACLE; DUPLEX NEMA 5-20R 18" ABOVE FINISHED GRADE OR FLOOR UNO.	Ⓜ	— ELECTRIC DOOR OPENER
Ⓜ	— ISOLATED GROUND RECEPTACLE; DUPLEX NEMA 5-20R AT 18" ABOVE FINISHED FLOOR UNO	Ⓜ	— TELEVISION OUTLET; SINGLE GANG 2.5" DEEP BOX AT 72" AFF, UNLESS NOTED OTHERWISE, (WITH 1" CONDUIT TO ABOVE NEAREST CEILING) AND ADJACENT NEMA 5-20R DUPLEX RECEPTACLE.
Ⓜ	— RECEPTACLE MOUNTED n INCHES ABOVE FINISHED FLOOR OR GRADE; NEMA 5-20R UNO	Ⓜ	— DUCT SMOKE DETECTOR
Ⓜ	— SPECIAL-PURPOSE RECEPTACLE; SEE SPECIAL-PURPOSE RECEPTACLE, CONNECTION AND FLOOR BOX SCHEDULE ON DRAWING.	Ⓜ	— SECURITY CAMERA
Ⓜ	— HARDWARE CONNECTION OR PROVISION FOR CONNECTION; SEE SPECIAL-PURPOSE RECEPTACLE, CONNECTION AND FLOOR BOX SCHEDULE ON DRAWING.	Ⓜ	— MOTOR SYMBOL; THE NUMBER INSIDE INDICATES HP.
Ⓜ	— MULTIOUTLET ASSEMBLY	Ⓜ	— COMBINATION DISCONNECT SWITCH/MOTOR STARTER.
Ⓜ	— FLOOR-MOUNTED SINGLE RECEPTACLE; NEMA 5-20R UNO.	Ⓜ	— NON FUSED DISCONNECT SWITCH
Ⓜ	— FLOOR-MOUNTED DUPLEX RECEPTACLE; NEMA 5-20R UNO.	Ⓜ	— FUSED DISCONNECT SWITCH
Ⓜ	— FLOOR-MOUNTED SERVICE BOX; SEE SPECIAL PURPOSE RECEPTACLE, CONNECTION AND FLOOR BOX SCHEDULE ON DRAWING.	Ⓜ	— LOW VOLTAGE PANEL
Ⓜ	— DATA SYSTEM JACK; SINGLE GANG BOX AT 18" AFF WITH 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING; SUBSCRIPTED NUMBER MOUNTING HEIGHT AFF	Ⓜ	— HIGH VOLTAGE PANEL
Ⓜ	— TELEPHONE SYSTEM VOICE JACK; SINGLE GANG BOX AT 18" AFF WITH 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING; SUBSCRIPTED NUMBER INDICATES MOUNTING HEIGHT AFF	Ⓜ	— MICROPHONE RECEPTACLE
Ⓜ	— COMBINATION VOICE AND DATA JACK; 1-GANG BOX AT 18" AFF WITH 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING; SUBSCRIPTED NUMBER INDICATES MOUNTING HEIGHT AFF	Ⓜ	— SWITCH
Ⓜ	— DATA SYSTEM FIBER OPTIC JACK; SINGLE GANG BOX AT 18" AFF WITH 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING; SUBSCRIPTED NUMBER MOUNTING HEIGHT AFF	Ⓜ	— FUSE
Ⓜ	— INMATE PHONE, VOICE AND DATA JACK; 1-GANG BOX AT 48" AFF WITH 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING; SUBSCRIPTED NUMBER INDICATES MOUNTING HEIGHT AFF	Ⓜ	— GROUND
Ⓜ	— WALL PHONE, VOICE AND DATA JACK; 1-GANG BOX AT 48" AFF WITH 1" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING; SUBSCRIPTED NUMBER INDICATES MOUNTING HEIGHT AFF	Ⓜ	— OVERLOADS
Ⓜ	— REMOTE DOOR UNLOCK PUSH BUTTON	Ⓜ	— CIRCUIT BREAKER
Ⓜ	— CEILING MOUNTED WIRELESS WIFI ANTENNA	Ⓜ	— TRANSFORMER
		Ⓜ	— AUTOMATIC TRANSFER SWITCH
		Ⓜ	— OCCUPANCY SENSOR
		Ⓜ	— OCCUPANCY SENSOR 'SWITCH PACK' OR 'POWER PACK' REFER TO DETAIL 8 ON SHEET E3
		Ⓜ	— MAGNETIC DOOR LOCK
		Ⓜ	— PUSH BUTTON - OPEN, STOP, CLOSE
		Ⓜ	— PUSH BUTTON - DOOR OPENER
		Ⓜ	— CARD READER
		Ⓜ	— CONTROLLED DOOR
		Ⓜ	— MOTION DETECTOR

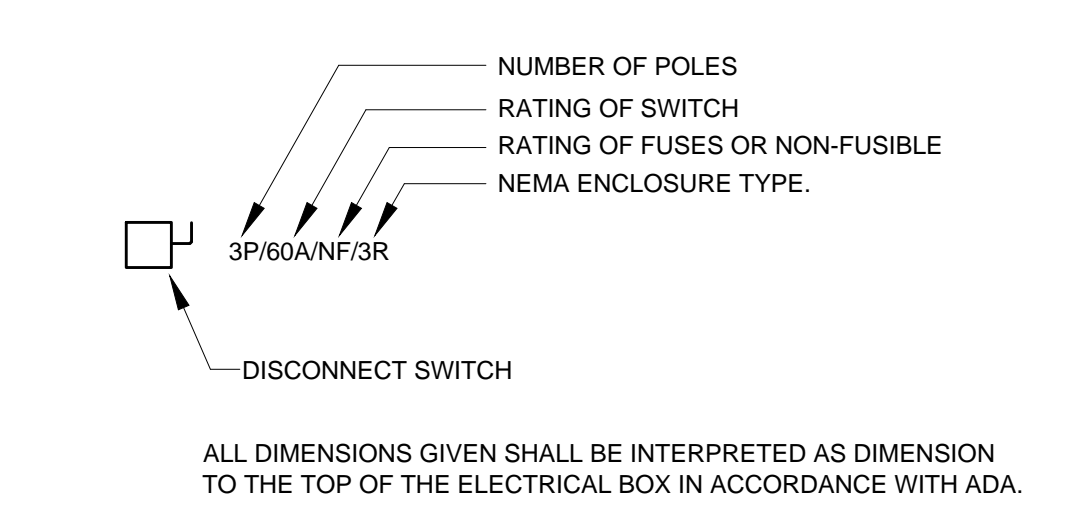
ELECTRICAL CONVENTIONS
(ALL CONVENTIONS MAY NOT APPEAR ON DRAWINGS.)

GENERAL NOTES APPLY TO ELECTRICAL DRAWING SET.
DRAWING NOTES APPLY TO DRAWING ON WHICH NOTE APPEARS.
SYMBOL NOTES APPLY TO DRAWING ON WHICH AND WHERE SYMBOL APPEARS.
WIRE SIZES ARE INDICATED BY AMERICAN WIRE GAGE OR CIRCULAR MILS.

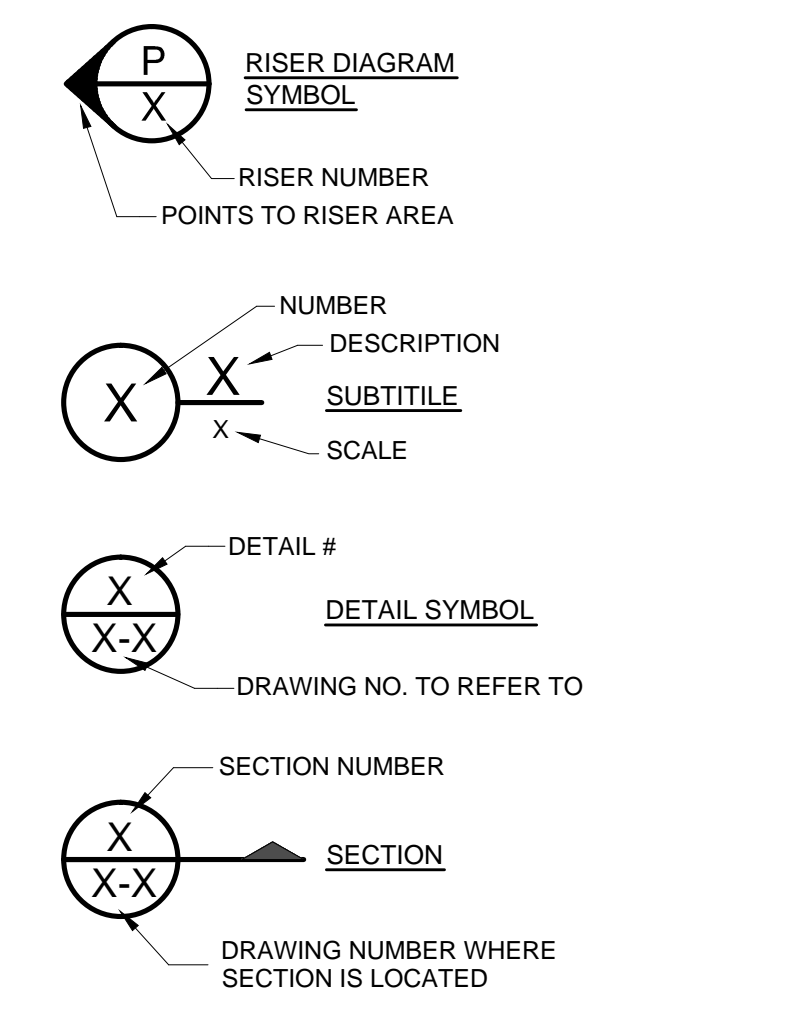
TYPICAL LIGHTING NOTATIONS SHOWN ON LIGHTING PLAN:



TYPICAL POWER NOTATIONS SHOWN ON POWER PLAN:



DRAWING SYMBOLS
(ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.)



1 ABBREVIATIONS, SYMBOLS AND GENERAL NOTES
SCALE: N.T.S.

Original Issue Date: 04-04-14
Revisions:

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Texas Registration 109959
DATE: 04-Apr-2014

Job No.
1215

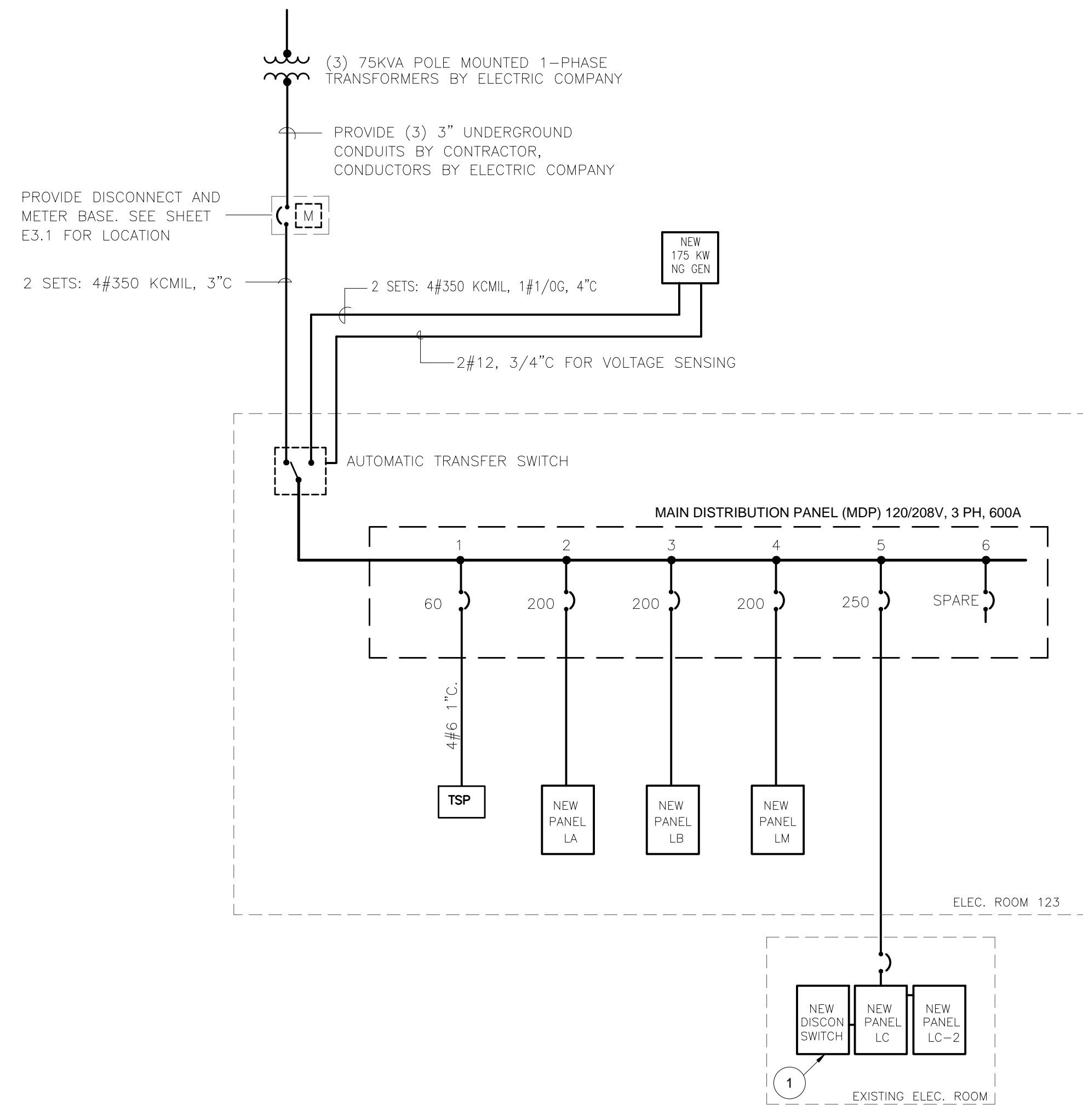
Sheet No.
E0.0
ELECTRICAL
LEGEND

LIGHT FIXTURE SCHEDULE		LUCAS FIRE STATION	
TYPE	DESCRIPTION	VOLTS	WATTS
A	RECESSED LED 2' X 4' FIXTURE, APPROX. 8100 LUMENS, 0-10V CONTINUOUS DIMMING DRIVER (STANDARD), ELECTRONIC DRIVERS ACCESSED IN PLENUM, 4000K 85-CRI, 60,000-HRS PER ANSI TM-21. METALUX 24EN-LD1-66-UNV-L840-CD1-U CREE AR24-40L-40K-10V COLUMBIA LSEF24-40L-G-R-EDU LITHONIA 2VTL4 48L ADP D47 LP840 NX	120	67
AE	SAME AS TYPE "A" EXCEPT WITH BATTERY BACK-UP	120	67
B	RECESSED LED 2' X 4' FIXTURE, APPROX. 4200 LUMENS, 0-10V CONTINUOUS DIMMING DRIVER (STANDARD), ELECTRONIC DRIVERS ACCESSED IN PLENUM, 4000K 85-CRI, 60,000-HRS PER ANSI TM-21. METALUX 24EN-LD1-35-UNV-L840-CD1-U CREE AR24-40L-40K-10V COLUMBIA LSEF24-40L-WG-R-EDU LITHONIA 2VTL4 40L ADP D40 LP840 NX	120	42
BE	SAME AS TYPE "B" EXCEPT WITH BATTERY BACK-UP	120	42
C	RECESSED 4" LED CAN, APPROX. 1300 LUMENS, 4000K 85-CRI, WHITE REFLECTOR TRIM, 0-10V CONTINUOUS DIMMING DRIVER (STANDARD), ELECTRONIC DRIVERS. PORTFOLIO LDM202010TE ERW4413840 4LW1L1 CREE KR4-8L-40K-120-(TRAC DIMMING)	120	22
D	VANITY LIGHT ABOVE MIRROR, ELECTRONIC DRIVER (<10% THD), MOUNT HORIZONTAL ABOVE MIRROR AS DIRECTED. BRUSHED NICKEL FINISH, 2'-0" LENGTH, 3500K ARCHITECTURAL LTG WKS TRW-2-HP14-LED-120-6N MODERN FORMS WS-3228-6N DYNVON LTG 3-5154-24 LIGHTWAY VLXV-24-LED-U-28W-4-6N-WSA XAL LTG NB22-634-732-7160-4-66-0220	120	39
F1	CEILING FAN WITH LOW PROFILE MOUNTING, 42", HANG TRUE CANOPY, EXTRA QUIET MOTOR, BRUSHED SATIN NICKEL FINISH WITH LIGHT KIT, 3/4-WAY ROCKER SWITCH AT ENTRY AND RED, WHITE FAN SPEED CONTROL, 7'100-0 AT BED. QUORUM 43425-65-2409-665	120	96
F2	CEILING FAN WITH LOW PROFILE MOUNTING, 52", HANG TRUE CANOPY, EXTRA QUIET MOTOR, SATIN NICKEL, FAN WITH SATIN NICKEL WALNUT BLADES AND WHITE FAN SPEED CONTROL, INSTALL SATIN NICKEL SIDE DOWN ON BLADES. QUORUM 43525-65	120	66
F3	CEILING FAN WITH LOW PROFILE MOUNTING, 52", HANG TRUE CANOPY, EXTRA QUIET MOTOR, SATIN NICKEL, FAN WITH SATIN NICKEL WALNUT BLADES AND WHITE FAN SPEED CONTROL, INSTALL SATIN NICKEL SIDE DOWN ON BLADES. QUORUM 136825-61378-808 LIGHT KIT	120	80
G	RECESSED LED 2' X 2' FIXTURE, APPROX. 3456 LUMENS, 0-10V CONTINUOUS DIMMING DRIVER (STANDARD), ELECTRONIC DRIVERS ACCESSED IN PLENUM, 4000K 85-CRI, 60,000-HRS PER ANSI TM-21. METALUX 22EN-LD1-34-UNV-L840-CD1-U CREE AR22-32L-40K-10V FOCAL POINT FANL22-AC-L1-L38-LD1-120-G1-WH LITHONIA 2VTL2 24L ADP D24 LP840 NX	120	35
G1	RECESSED LED 2' X 2' FIXTURE, APPROX. 3456 LUMENS, 0-10V CONTINUOUS DIMMING DRIVER (STANDARD), ELECTRONIC DRIVERS ACCESSED IN PLENUM, 4000K 85-CRI, 60,000-HRS PER ANSI TM-21, COMPLETE WITH DRY-WALL FRAME-IN KIT FOR HARD CEILINGS. METALUX 22EN-LD1-34-UNV-L840-CD1-U-DF-22-U CREE AR22-32L-40K-10V FOCAL POINT FANL22-AC-L1-L38-LD1-120-G1-WH LITHONIA 2VTL2 24L ADP D24 LP840 NX	120	35
G1E	SAME AS TYPE "G1" EXCEPT WITH BATTERY BACK-UP	120	35
H	RECESSED 4" LED CAN, APPROX. 460 LUMENS, SHOWER LIGHT RATED FOR DAMP LOCATIONS, 0-10V CONTINUOUS DIMMING DRIVER (STANDARD), ELECTRONIC DRIVERS, 4000K 85-CRI. HALO H465TCPUNVD10-EL4-05-840-TL422WHS PHILIPS LIGHTOLIER GP46206/914 (P46206 by Insulated Ceiling) PRISCOLITE 83465-120-L46L-CA30K-WH TECH BRF-LXW4600V84RF-F-W	120	14
J	WALL MOUNTED BED LIGHT, MOUNT AS DIRECTED, DIMMER SWITCH MOUNTED ON WALL, RAL CUSTOM FINISH SELECTED BY ARCHITECT, ACRYLIC OPEL LENS, 0-10V DIMMING, PROVIDE ADDITIONAL WALL DIMMER FOR SOLERA. STILE SLWZ-1-ZYNLED-L16-0VA-49K-120-0-LBC-004-XX-AFL-DML SOLERA CURVED-LED-120-0PL-L16-0VA-49K-120-0-LBC-004-XX-AFL-DML BIRCHWOOD HAL-LED-225-RSM-L8RH-40-2-SC-FW-120-EB-D1-HLA2	120	50
K	WALL MOUNTED LIGHT, 4' LONG WITH BATTERY BACK-UP, WHITE FINISH, WITH HOWARD F32TR8X1LED22W/IS LED LAMP-INSTANT START BALLAST. CORONET 850VM-4FT-1-32WTS-UNV-WB-EM ALERA CV-4-1TB-PERF-WM-E120-MW METALUMEN OSWA1T9-4-UP-7-W-4120-INSTANT START	120	25
L	RECESSED 8" LED CAN, APPROX. 3000 LUMENS, RATED FOR DAMP LOCATIONS, OPEN SPECULAR CLEAR REFLECTOR, 0-10V CONTINUOUS DIMMING DRIVER (STANDARD), ELECTRONIC DRIVERS, 4000K 85-CRI. PORTFOLIO LDM202010-ERW430-840-4LW4-L1 CREE KR820L-40K-120-10V PRISCOLITE LFL-LED-4-FLP-LED-40K DMF LIGHTING LDM-30-NC-1-0/LDM-30-DL-40-D-W	120	56
LE	SAME AS TYPE "L" EXCEPT WITH BATTERY BACK-UP	120	43
P	PENDANT, HANG STRAIGHT SWIVEL, 4.000K, TITANIUM GRAY FINISH, NON DIMMING, DRIVER STEM LENGTH AS SPECIFIED BY ARCHITECT, OPAL LENS. LUMINS W775-LTW66-120-GRT-SH US ARCH CLX-WA-48LED-MT-WV-3500MA-SM(4 FT MAX)-STD FINISH	120	54
PE	SAME AS TYPE "P" EXCEPT WITH BATTERY BACK-UP	120	54
UC	LED UNDERCOUNTER/CLOSET LIGHT, 2'-0" WITH ROCKER SWITCH FOR SEPARATE SWITCHES. METALUX HU10-24-D-80-30-P INSIGHT LIGHTING PL-4-20K-160UNT-ACV-MW- LITHONIA RAZ24 JESCO S401-24-40-WH	120	16
W1	WALL MOUNT, CAST ALUMINUM BODY, ACRYLIC LENS/METAL REFLECTOR, DARK BRONZ FINISH, ELECTRONIC DRIVER - WET LOCATION LISTED, BATTERY BACK-UP. ELA ARC-24WB-OP-76LED-120-CA-06-TSS-GR-BBU LIGHTWAY MS9W-1158-LED-U-4-21V-4-21-WSA VISA CB6292-LCW2700-PAINTED	120	60
W2	WALL MOUNT, WHITE ACRYLIC DIFFUSER, OPEN TOP AND BOTTOM, MATT SILVER FINISH, ELECTRONIC DRIVER - WALL MOUNT. TLJ TGR-CNC-L120-0-100-277-TE350-SM-40K LIGHTWAY ACJW-16-LED-U-21W-4-P2-WSADM VISA CB6292-LCW2700-PAINTED	120	20
S1	POST TOP, ALUMINUM BODY, APPROX. 4100 LUMENS, SPUN ALUMINUM SHADE, 4000K COLOR TEMPERATURE, BE SEALED, ELECTRONIC DRIVER, - 16' POLE MOUNT, MATTE SILVER FINISH LUMINS W603-L1W56-120-MST-PAAS16	120	54
S2	POST TOP, ALUMINUM BODY, APPROX. 4100 LUMENS EACH, SPUN ALUMINUM SHADE, 4000K COLOR TEMPERATURE, BE SEALED, ELECTRONIC DRIVER, - 16' POLE MOUNT, MATTE SILVER FINISH LUMINS (2)W603-L1W56-120-MST-PAAS16	120	108
X	SINGLE/DUAL FACE EXIT SIGN WITH RED LED LAMP, UNIVERSAL ARROWS, UNIVERSAL MOUNTING, THERMOPLASTIC HOUSING, EXTRA PANEL FOR FIELD CONVERSION TO DOUBLE-FACE DUALLITE LX-U-R-W LITHONIA LGM 5 W 3 R 120/277 EL N SURRELITES LPX-70-RWH BEOHELLI VA45ALR	120	4

NOTES: 1. ALL DRIVERS ARE SPECIFICATION GRADE, ELECTRONIC (<10% THD).
2. ALL LED COLORS ARE 4000K OR AS NOTED.
3. ALL EXTERIOR FIXTURES SHALL BE CONTROLLED BY ELECTRONIC TIMER W/BATTERY CARRY OVER AND PHOTO CELL AT ROOF.
4. EXIT SIGNS SHALL BE UNIVERSAL MOUNT WITH UNIVERSAL ARROWS.
5. ALL REQUESTS FOR SUBSTITUTIONS/ALTERNATES MUST BE SUBMITTED TO ENGINEER 10 WORKING DAYS PRIOR TO BID FOR APPROVAL. ALL SUBMISSIONS SHALL INCLUDE DETAILED CUT SHEETS AND PERFORMANCE DATA FOR CONSIDERATION.
6. ALL FIXTURES SHALL HAVE A MAXIMUM WATTAGE LABEL.
7. REFER TO SPECIFICATIONS SECTIONS FOR ADDITIONAL REQUIREMENTS

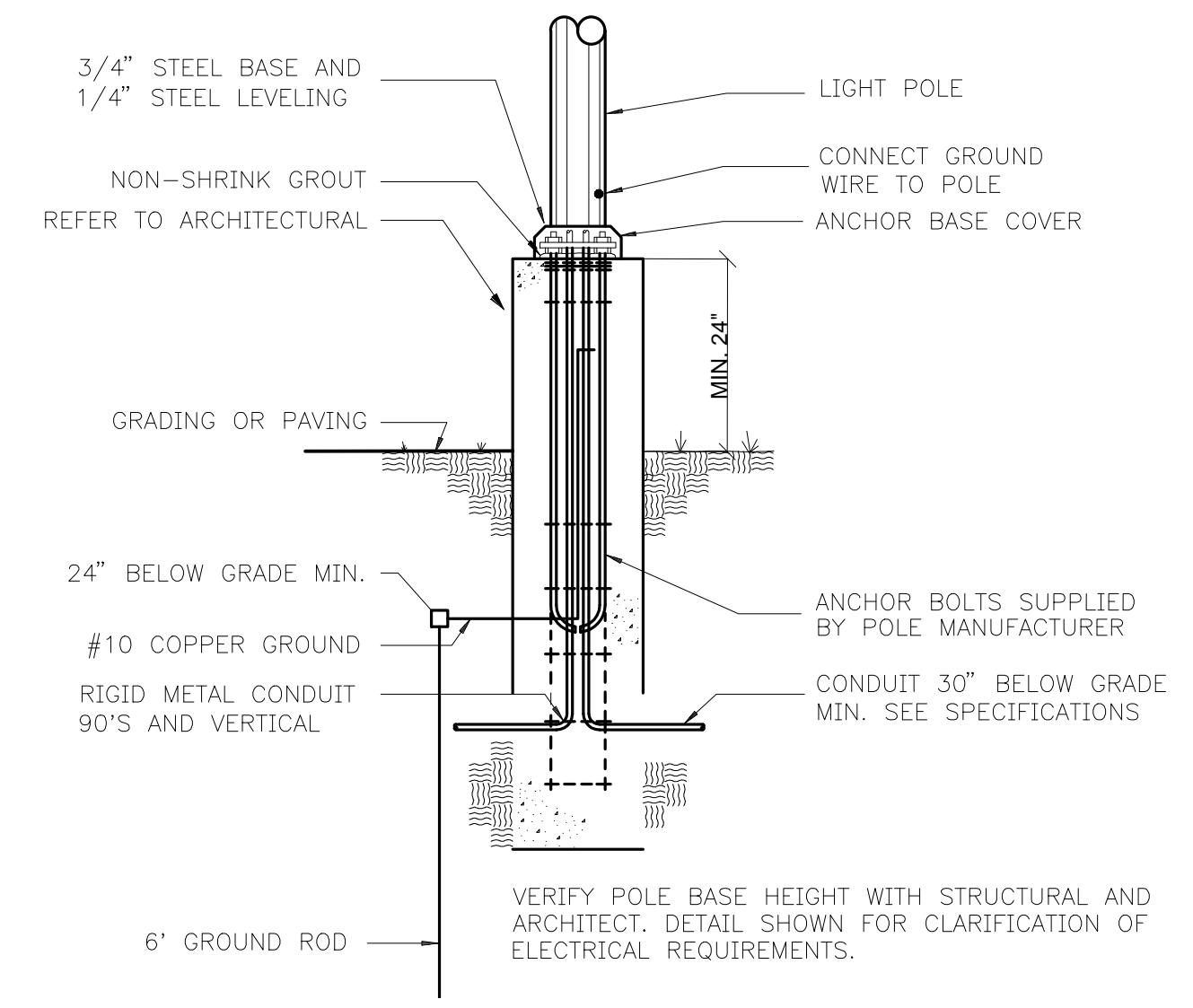
3 LIGHTING SCHEDULE

SCALE: N.T.S.



1 ONE LINE DIAGRAM

SCALE: N.T.S.



2 POLE BASE DETAIL

N.T.S.

ARC FLASH HAZARDS:
Warning - Arc Flash Hazards exist when open panels are energized. Do not work on energized equipment without personal protection equipment (PPE) rated for the incident energy.
The Arc Flash Boundary has been calculated at 28 inches. Remain 28 inches away from open energized panels unless wearing PPE.
The Incident Energy has been calculated at 9.2 Joules/cm². PPE should equal or exceed this rating.

NOTES BY SYMBOL

1. REPLACE EXISTING 120/240 VOLT SINGLE PHASE PANELS WITH NEW 120/208 VOLT 3 PHASE PANELS.

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Revisions:
50% CD

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TXAS REGISTRATION NO. 1108939
DATE: 04-Apr-2014

Job No.
1215

Sheet No.
E0.1
ONE LINE / SCHEDULE

LOAD SUMMARY - DISTRIBUTION PANEL DP												
CKT	DESCRIPTION	CONNECTED LOAD (KVA)						CONNECTED LOAD				
		LTG	RCPT	MTR	HEAT	KITCH	MISC	KVA	AMPS	KVA	AMPS	
1	SPD											
2	PANEL LA	0.00	33.30	1.10	0.00	0.00	0.00	34.40	95.48	22.75	63.15	
3	PANEL LB	7.91	5.70	0.00	0.00	0.00	0.00	13.61	37.78	15.59	43.27	
4	PANEL LM	0.00	0.00	43.38	0.00	0.00	6.68	50.06	138.95	60.91	169.06	
5	EXISTING PANEL (NOTE 1) LC	6.00	6.50	17.00	10.00	2.50	8.00	50.00	138.79	54.88	228.65	
6	BLANK/SPARE											
CONNECTED LOAD		13.91	45.50	61.48	10.00	2.50	14.68					
DIVERSITY (N.E.C.)		1.25	NEC	10.85	1.00	0.65	1.00					
DESIGN LOAD (N.E.C.)		17.39	27.75	72.33	10.00	1.63	14.68					

DESIGN KVA	143.77
SPARE 10%	14.38
DESIGN AMPS	438.99

MAIN TYPE:	MCB
VOLTAGE:	120/208V, 3PH, 4 W
MAIN SIZE (A):	600
AIC RATING:	42,000
MOUNTING:	SURFACE

NOTES: 1. PEAK DEMAND OBTAINED FROM ELECTRIC COMPANY- 40KW
125% of 40KW = 50KW

PANELBOARD SCHEDULE															
MAIN SIZE: 150 A		MAIN TYPE: MLO		SECTION 1		PANEL NAME: LA									
AIC RATING: 18,000		MOUNTING: SURFACE		LOAD (KVA)		LOAD (KVA)									
				VOLTAGE: 208 /120V 3PH,4W											
DESCRIPTION	AMPS POLE	LTG	RCPT	MTR	HEAT	KITCH	MISC	MISC	KITCH	HEAT	MTR	RCPT	LTG	AMPS POLE	DESCRIPTION
1	RCPT WATCH 118	201						1	A	2				1.08	RCPT FLR TRIN 105
3	RCPT WATCH 118	201						3	B	4				1.08	RCPT FLR TRIN 105
5	RCPT LT DORM 129	201						5	C	6			1.10	MOTORIZED WINDOW	
7	RCPT LT OFFICE 128	201						7	A	8			0.54	RCPT TRAINING 105	
9	RCPT B-CHF DORM 133	201						9	B	10			0.90	RCPT TRAINING 105	
11	RCPT B-CHF OFF 133	201						11	C	12			0.72	RCPT TRAINING 105	
13	RCPT FITNESS 135	201						13	A	14			0.90	RCPT TOIL 103/104, WC	
15	RCPT FITNESS 135	201						15	B	16			0.90	RCPT OFF 115, STR 11	
17	RCPT PANTR 125/8/7	201						17	C	18			0.90	RCPT RADIO 106	
19	RCPT PANTR 125/8/7	201						19	A	20			0.72	RCPT RAD 106, VEN 10	
21	RCPT DATA 135	201						21	B	22			0.54	RCPT VENDING 107	
23	RCPT DATA 135	201						23	C	24			0.90	RCPT EXM 102, STR 11	
25	RCPT KITCHEN 124	201						25	A	26			0.90	RCPT TRAINING 111	
27	RCPT KITCHEN 124	201						27	B	28			0.90	RCPT COPY 111	
29	RCPT KITCHEN 124	201						29	C	30			0.72	RCPT OFFICE 112	
31	RCPT KITCHEN 124	201						31	A	32			0.72	RCPT OFFICE 113/114	
33	RCPT KITCHEN 124	201						33	B	34			1.08	RCPT OFFICE 113/114	
35	RCPT WASHER	201						35	C	36			1.08	RCPT DDORM BED	
37	RCPT TOIL 145/8/7/8	201						37	A	38			1.08	RCPT DORM DESK	
39	RCPT DINING 120	201						39	B	40			1.20	RCPT KITCHEN	
41	SPARE	201						41	C	42			201	SPARE	
TOTALS		0.00	16.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	16.88	0.00	201	TOTALS

PANELBOARD SCHEDULE															
MAIN SIZE: A		MAIN TYPE: MLO		SECTION 1		PANEL NAME: LC									
AIC RATING: 18,000		MOUNTING: SURFACE		LOAD (KVA)		LOAD (KVA)									
				VOLTAGE: 208 /120V 3PH,4W											
DESCRIPTION	AMPS POLE	LTG	RCPT	MTR	HEAT	KITCH	MISC	MISC	KITCH	HEAT	MTR	RCPT	LTG	AMPS POLE	DESCRIPTION
1	LTGS RM 101, 102, 103							100/3						100/3	SUB PANEL C2
3	VENT WOMENS RR							3	B	4					
5	LTGS HIGH BAY							5	C	6					
7	LTGS HIGH BAY							7	A	8			201	RCPT REFRIGERATOR	
9	LTGS HIGH BAY							9	B	10			201	RCPT ICE MACHINE	
11	LTGS RM 111							11	C	12			201	RCPT RM 102 WEST	
13	LTGS RM 112							13	A	14			201	RCPT RM 102 EAST	
15	STOVE	202						15	B	16			201	RCPT RM 101	
17								17	C	18			201	SUMP PUMP	
19	WATER HEATER	202						19	A	20			201	VENT FAN	
21								21	B	22			201	WASHER	
23	DRYER	30/2						23	C	24			201	RCPT REST ROOM	
25								25	A	26			201	LTGS REST ROOM	
27	HEAT	80/2						27	B	28			201	OH DOOR WEST	
29								29	C	30			201	OH DOOR WEST	
31	AIR COMPRESSOR	50/2						31	A	32			201	OH DOOR EAST	
33								33	B	34			201	OH DOOR EAST	
35	COMPRESSOR SCBA	80/2						35	C	36			201	RCPT HBAY EAST	
37								37	A	38			201	RCPT HBAY WEST	
39	RCPT RM 102							39	B	40			201	RCPT RM 111	
41	RCPT RM 112							41	C	42			201	VENT MENS RR	
TOTALS		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	201	TOTALS

REMARKS: MAXIMUM DEMAND OBTAINED FROM ELECTRIC COMPANY (GCEC) INDICATES 40 KW FOR EXISTING PANELS C AND C-2
TRANSITION ALL CIRCUITS FROM EXISTING 120/240 SINGLE PHASE PANEL TO THIS NEW PANEL C-2.
INFORMATION WAS TAKEN FROM SITE OBSERVATIONS. CONTRACTOR TO VERIFY ALL CIRCUITS BEFORE STARTING WORK.

VRV INDOOR UNIT MODELS										
ITEM	SERVES	ELECTRICAL			CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT		
		V/PH	MCA	MOCPP						
VRV-1A	TRAINING ROOM	208/1	1.5	15	LM-7/3	15/2	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-1B	TRAINING ROOM	208/1	1.4	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-2	LOBBY	208/1	2.3	15	LM-9/11	15/2	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-3	OFFICE 115	208/1	0.8	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-4	RADIO ROOM 106	208/1	0.3	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-5	RECEPTION/COPY	208/1	1.6	15	LM-13/15	15/2	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-6	CHIEF 114	208/1	0.8	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-7	OFFICE 113	208/1	0.8	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-8	OFFICE 112	208/1	0.8	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-9	WATCH 118	208/1	0.8	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-10	LIEUTENANT AREA	208/1	0.6	15	LM-9/11	15/2	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-11	BATTALION CHIEF AREA	208/1	0.6	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-12	FITNESS	208/1	1.4	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-13	KITCHEN/LIVING AREA	208/1	9.0	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-14	IT	208/1	0.3	15	LM-13/15	15/2	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-15	DORMS	208/1	2.9	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
VRV-16	ELEC ROOM	208/1	0.3	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		

BRANCH SELECTOR SCHEDULE										
ITEM	LOCATION	ELECTRICAL			CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT		
		V/PH	MCA	MOCPP						
BS-1	VENDING 107	208/1	0.6	15	LM-2/4	15/2	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
BS-2	VENDING 107	208/1	0.1	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
BS-3	PANTRY 126	208/1	0.1	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		
BS-4	LAUNDRY/JANITOR 136	208/1	0.4	15			2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER		

FAN SCHEDULE										
ITEM	SERVES	MOTOR		CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT			
		WATTS	V/PH							
EF-1	TOILET 145	173	120/1	SAME CIRCUIT AS LIGHT IN ROOM	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER				
EF-2	TOILET 146	173	120/1	SAME CIRCUIT AS LIGHT IN ROOM	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER				
EF-3	TOILET 148	173	120/1	SAME CIRCUIT AS LIGHT IN ROOM	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER				
EF-4	TOILET 147	173	120/1	SAME CIRCUIT AS LIGHT IN ROOM	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER				
EF-5	LAUNDRY/JAN 136	173	120/1	SAME CIRCUIT AS LIGHT IN ROOM	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER				
EF-6	TOILET 130	173	120/1	SAME CIRCUIT AS LIGHT IN ROOM	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER				
EF-7	TOILET 104	173	120/1	SAME CIRCUIT AS LIGHT IN ROOM	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER				
EF-8	TOILET 103	173	120/1	SAME CIRCUIT AS LIGHT IN ROOM	2 #12, 1 #12G, 3/4" C	MANUAL MOTOR STARTER				
KEF-1	ROOF									

OUTDOOR CONDENSING UNIT SCHEDULE										
ITEM	LOCATION	ELECTRICAL			CIRCUIT	C/B	WIRE & CONDUIT	DISCONNECT		
		V/PH	MCA	MOCPP						
CU-1	EXTERIOR	208/3	43	60	LM-19/21/23	60/3	3 #6, 1 #10G, 1" C	3P/60ANF/SR		
CU-1	EXTERIOR	208/3	41.3	60	LM-14/16/18	60/3	3 #6, 1 #10G, 1" C	3P/60ANF/SR		
CU-2	EXTERIOR	208/3	36.1	50	LM-20/22/24	50/3	3 #6, 1 #10G, 1" C	3P/60ANF/SR		

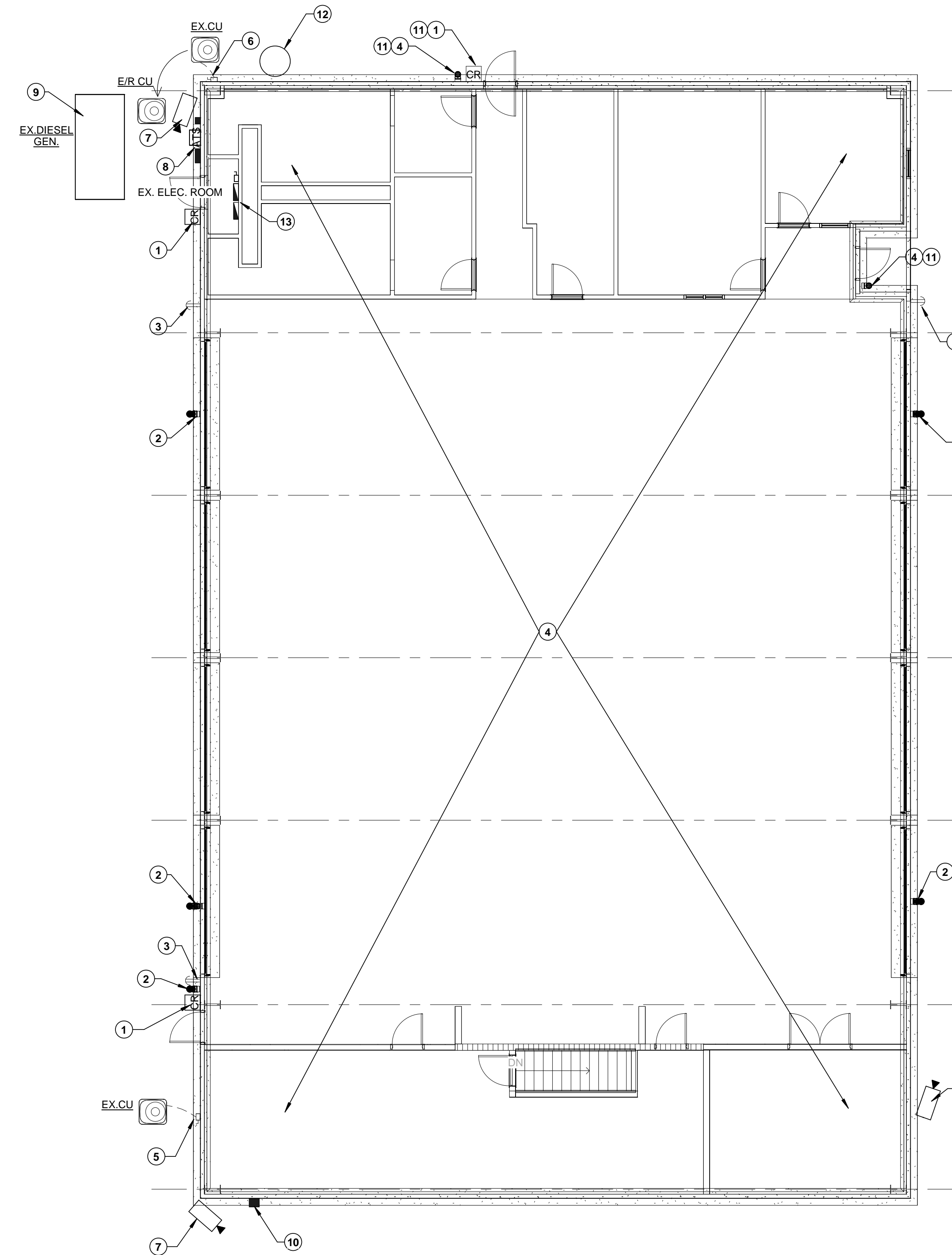
PANELBOARD SCHEDULE															
MAIN SIZE: 150 A		MAIN TYPE: MLO		SECTION 1		PANEL NAME: LB									
AIC RATING: 18,000		MOUNTING: SURFACE		LOAD (KVA)		LOAD (KVA)									
				VOLTAGE: 208 /120V 3PH,4W											
DESCRIPTION	AMPS POLE	LTG	RCPT	MTR	HEAT	KITCH	MISC	MISC	KITCH	HEAT	MTR	RCPT	LTG	AMPS POLE	DESCRIPTION
1	BLANK							1	A	2				1.80	RCPT EXT WALLS
3	BLANK							3	B	4			0.90	RCPT ROOF	
5	BLANK							5	C	6			1.00	RCPT GENSET	
7	BLANK							7	A	8			1.00	RCPT FIRE ANN. PANE	
9	BLANK							9	B	10			201	RCPT FIRE ANN. PANE	
11	BLANK							11	C	12</					

GENERAL NOTES:

1. ALL EXTERIOR ELECTRICAL DEVICES SHALL BE REMOVED DURING REMODELING OF EXTERIOR WALL SURFACE. EXTEND EXISTING RECESSED ELECTRICAL BOXES AND REINSTALL EXTERIOR DEVICES TO SAME LOCATION.
2. TEMPORARILY REMOVE ALL EXTERIOR WALL MOUNTED CONDUITS FOR REMODELING OF EXTERIOR WALL SURFACE. REINSTALL ALL AFTER REMODEL.

NOTES BY SYMBOL "O":

1. CARD READER.
2. LED LIGHT FIXTURE.
3. RECEPTACLE WITH WEATHER PROOF COVER.
4. WALL SCONCE LIGHT FIXTURE.
5. DISCONNECT SWITCH FOR HVAC CONDENSING UNIT.
6. DISCONNECT SWITCH FOR HVAC CONDENSING UNIT. RELOCATE (AFTER REMODELING OF EXTERIOR WALL) TO NEW LOCATION SHOWN ON E4.
7. EXTERIOR CAMERAS. TO BE MOVED AND RE-INSTALLED BY OWNER.
8. ELECTRIC METER, AUTOMATIC TRANSFER SWITCH AND CONNECTION BOX TO BE REMOVED.
9. 45KW GENERATOR TO BE DEMOLISHED AND RETURNED TO OWNER.
10. ELECTRICAL BOX WITH VERTICAL CONDUIT UP THE WALL AND DOWN THE WALL TO UNDERGROUND.
11. DEMO EXISTING LIGHT FIXTURE AND CARD READER.
12. EXISTING RADIO ANTENNA TO BE RELOCATED. COORDINATE NEW LOCATION WITH OWNER.
13. EXISTING ELECTRICAL PANELS. REMOVE AND REPLACE WITH NEW 120/208 3 PHASE. SEE SHEET E3.1



1 FLOOR PLAN - DEMO
1/8" = 1'-0"

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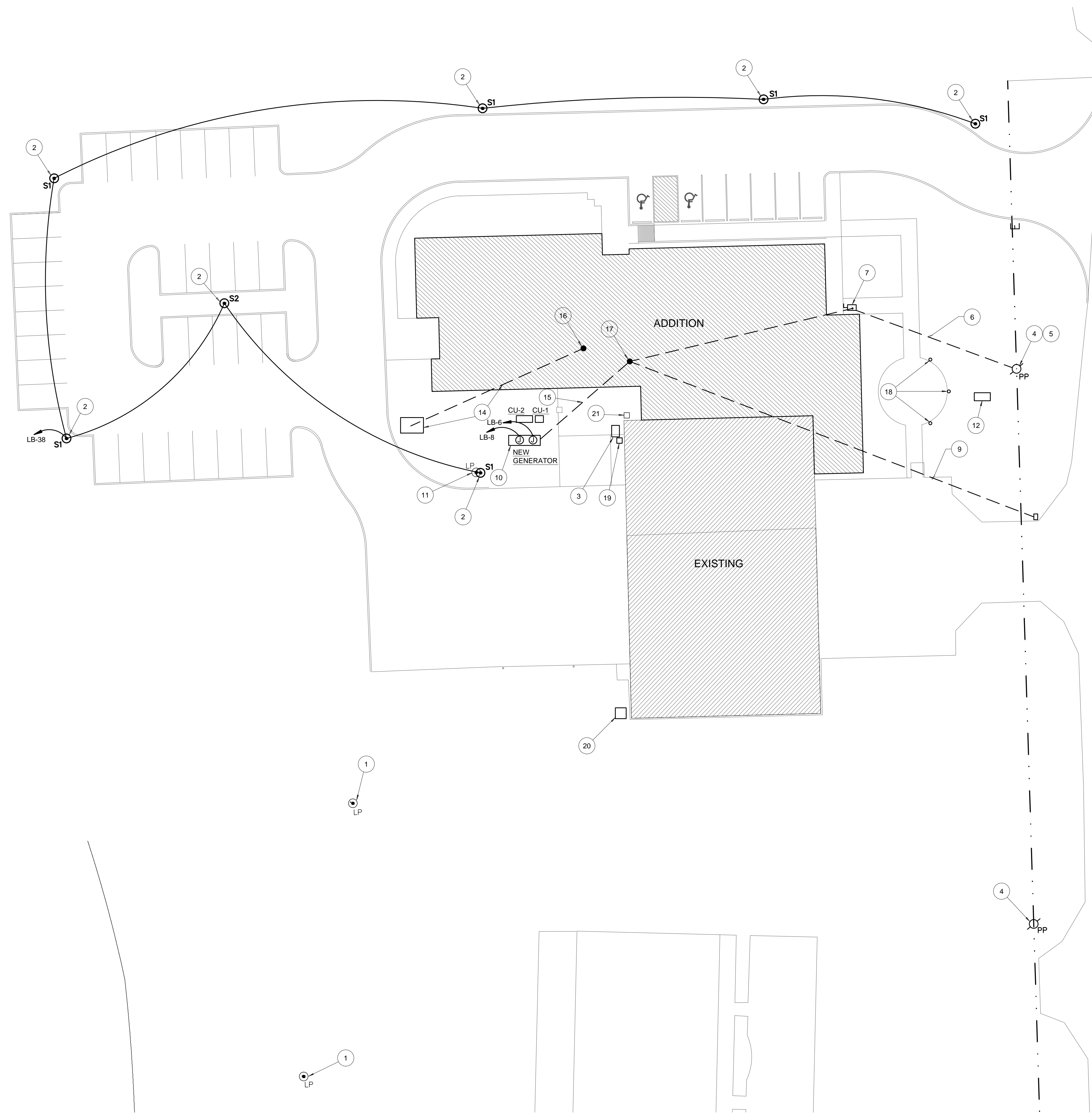
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Sheet No.
ED2.1
FLOOR PLAN - DEMO



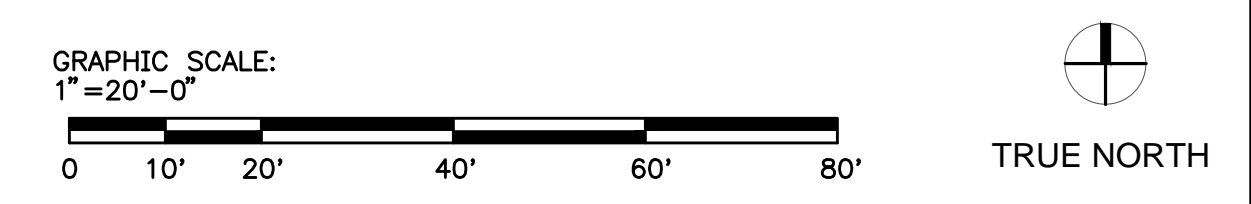
1 ELECTRICAL SITE PLAN
SCALE: 1" = 20' - 0"

GENERAL NOTES:

- A. MEET WITH THE ELECTRIC UTILITY COMPANY REPRESENTATIVE PRIOR TO BIDDING THE PROJECT. REVIEW THE SITE PLAN AND THE ELECTRICAL RISER DIAGRAM AND VERIFY THE REQUIREMENTS FOR PROVIDING ELECTRIC SERVICE TO THE BUILDING. DETERMINE WHAT WORK WILL BE PERFORMED BY THE POWER COMPANY AND WHAT WORK WILL BE PERFORMED BY THE CONTRACTOR. OBTAIN COPIES OF APPROPRIATE DETAILS, STANDARDS AND INSTRUCTIONS. UTILITY LOCATIONS SUBJECT TO CHANGE DURING THIS COORDINATION. ALL CHANGES MUST BE ACCOUNTED FOR IN THE BID. NO ADDITIONAL FUNDS WILL BE PROVIDED FOR FAILING TO COORDINATE THIS WORK. REQUEST THE AMOUNT OF ANY UTILITY CHARGES TO BE CHARGED TO THE PROJECT. INCLUDE THESE COSTS IN THE BID.
- B. PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION, AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE INSTALLATION OF ELECTRICAL SERVICE AS DIRECTED BY THE UTILITY COMPANY.
- C. WORK INCLUDED:
 - 1. FURNISH AND INSTALL UNDERGROUND PRIMARY 4" CONDUITS WITH ONE SPARE, FOR THE PRIMARY SERVICE CONDUCTORS.
 - 2. FURNISH AND INSTALL CONDUITS, WIRES, TRANSFORMER PADS AND METERING EQUIPMENT TO PROVIDE AN ELECTRICAL SERVICE ENTRANCE AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN. COORDINATE WORK WITH THE CITY ELECTRIC AND COMMUNICATION UTILITY COMPANIES. VERIFY ALL REQUIREMENTS, AND INSTALL SERVICE ENTRANCE EQUIPMENT IN EXACT COMPLIANCE WITH UTILITY COMPANY AND LOCAL GOVERNMENTAL AGENCY REQUIREMENTS.
 - 3. ARRANGE WITH THE UTILITY COMPANIES TO INSPECT THE WORK.
 - 4. INCLUDE IN THE BID, ALL UTILITY COMPANY CHARGES AND COSTS RELATED TO THE INSTALLATION OF THE SERVICES.
- D. PROVIDE WIRE AND CONDUIT TO SITE LIGHTING. CALCULATE VOLTAGE DROP PER N.E.C.
- E. PROVIDE LUTRON PHOTOCCELL TIMECLOCK(S) CONTROL FOR ALL EXTERIOR AND SITE LIGHT FIXTURES UNLESS NOTED OTHERWISE.
- F. COORDINATE ALL SITE WORK WITH CIVIL ENGINEER PRIOR TO WORK.
- G. SEE SPECIFICATIONS FOR WIRE AND CONDUIT REQUIREMENTS.

NOTES BY SYMBOL "○":

- 1. EXISTING POLE MOUNTED LIGHT FIXTURE TO REMAIN.
- 2. NEW POLE MOUNTED LIGHT FIXTURES. SEE LIGHTING SCHEDULE.
- 3. EXISTING GENERATOR SET. REMOVE AND RETURN TO OWNER.
- 4. EXISTING POWER POLE AND OVERHEAD CABLES.
- 5. EXISTING LOCATION OF DATA/ VOICE/ TV CONNECTIONS.
- 6. UNDERGROUND UTILITY TRENCH BY CONTRACTOR TO GCEC SPECIFICATIONS. COORDINATE ROUTE WITH CIVIL ENGINEER.
- 7. MAIN DISCONNECT SWITCH. SEE SHEETS E0.1 AND E3.1.
- 8. APPROXIMATE LOCATION OF NEW ELECTRICAL ROOM.
- 9. PROVIDE 2 - 1" UNDERGROUND CONDUITS FOR FUTURE TRAFFIC LIGHT. TERMINATE IN 4"x4" JUNCTION BOX AND PLACE MARKER. COORDINATE EXACT LOCATION WITH OWNER.
- 10. NEW 175 KW NATURAL GAS GENSET. PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
- 11. EXISTING POLE MOUNTED LIGHT FIXTURE. REMOVE AND REPLACE WITH NEW. DISCONNECT FROM EXISTING CIRCUIT AND RE-WIRE TO NEW ELECTRICAL ROOM 123.
- 12. MAINTAIN EXISTING MONUMENT LIGHT FED FROM EXISTING ELECTRICAL ROOM.
- 13. NEW PARKING AREA LIGHTS. REFER TO LIGHT FIXTURE SCHEDULE.
- 14. RELOCATED RADIO ANTENNA BY OTHERS. PROVIDE 2 - 2" UNDERGROUND CONDUITS TO RADIO ROOM.
- 15. UNDERGROUND CONDUIT FOR SECONDARY CONDUCTORS. COORDINATE EXACT LOCATION WITH CIVIL ENGINEER.
- 16. APPROXIMATE LOCATION OF RADIO ROOM 106.
- 17. APPROXIMATE LOCATION OF ELECTRICAL ROOM 123.
- 18. THREE NEW FLAG POLE LIGHTS. PROVIDE 1 - 1" UNDER GROUND CONDUIT AND CAP 6" A.F.G.
- 19. RELOCATED CONDENSING UNIT FOR EXISTING FACILITY. SEE NOTE 21.
- 20. EXISTING CONDENSING UNIT TO REMAIN.
- 21. EXISTING CONDENSING UNIT TO BE RELOCATED. SEE SHEET E4.1.



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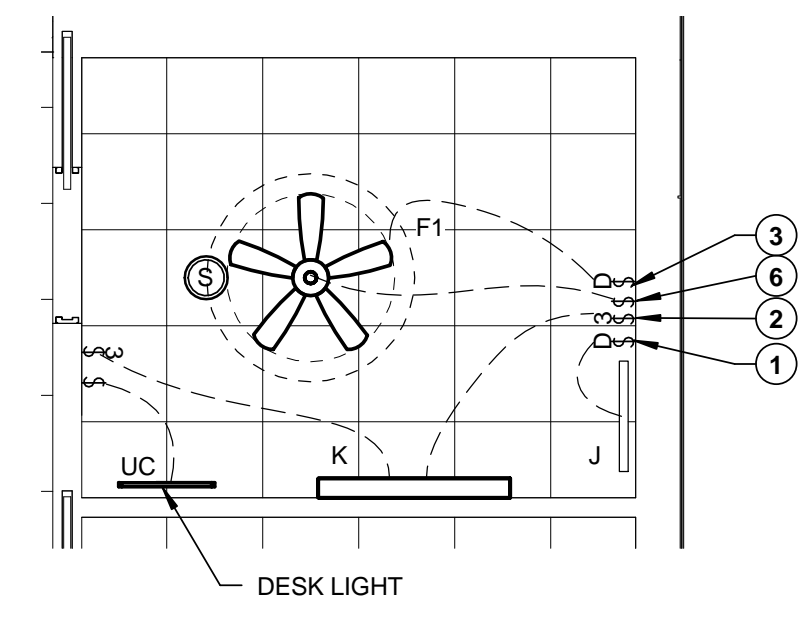
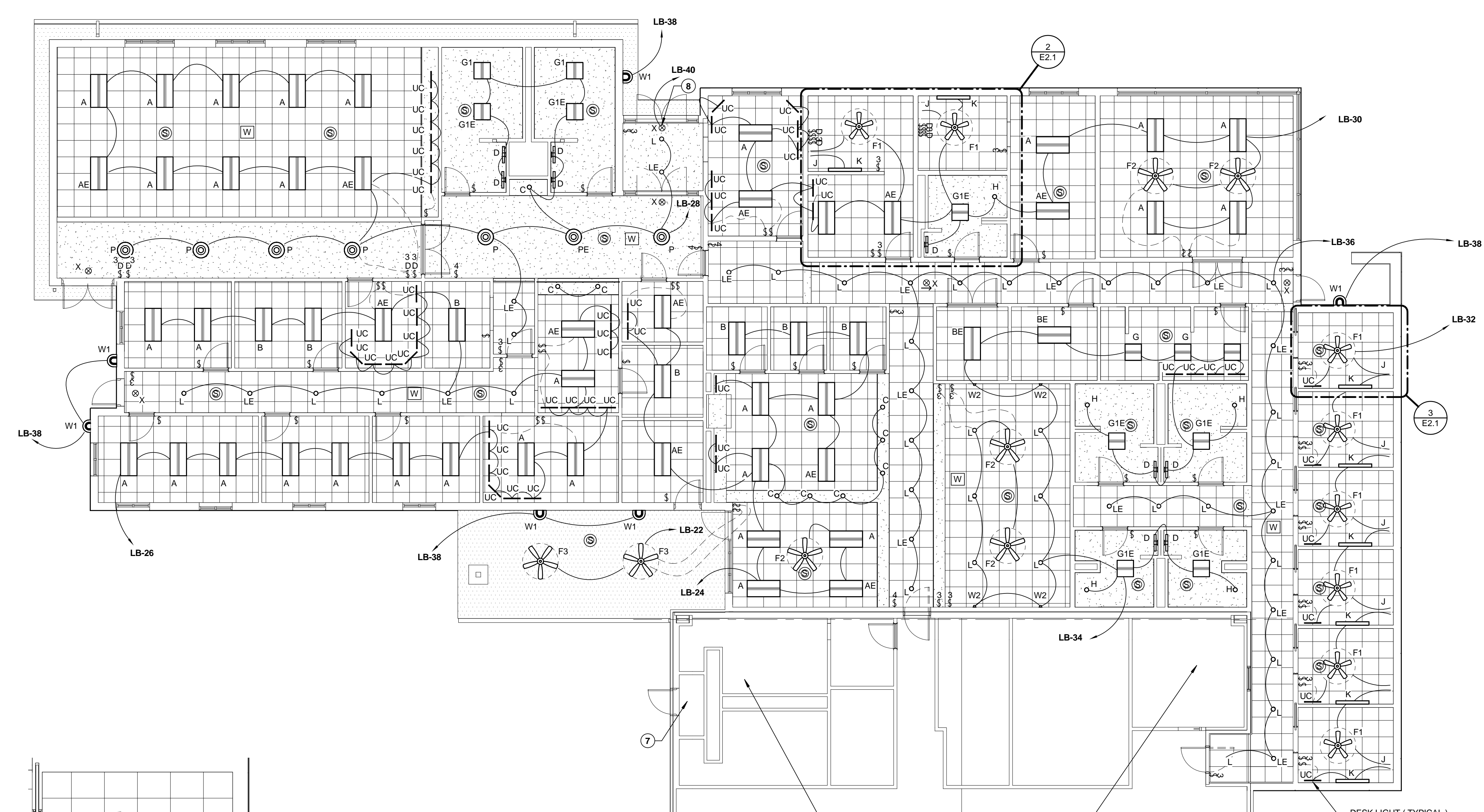
Sheet No.
E1.0
ELECTRICAL
SITE PLAN

GENERAL NOTES:

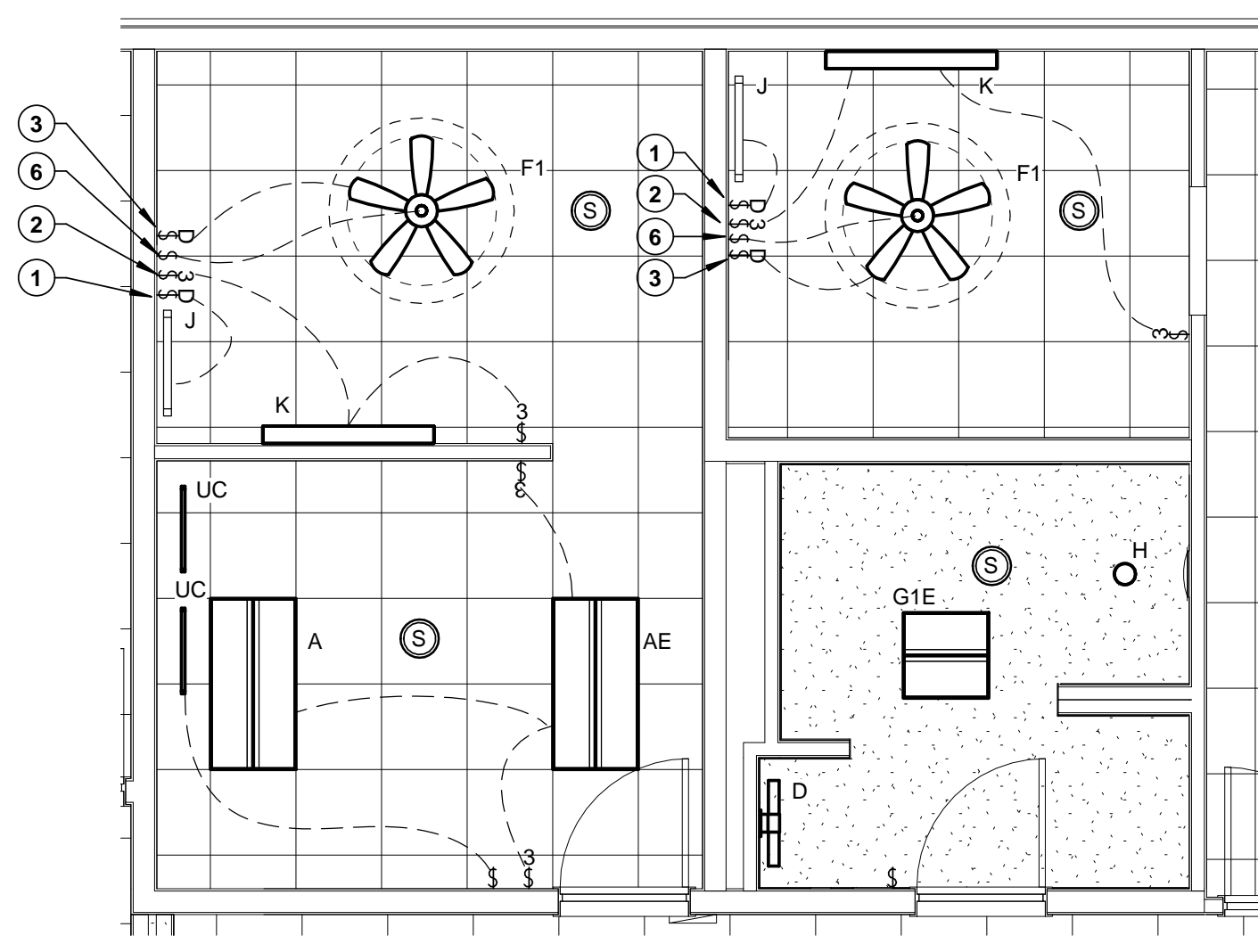
- COORDINATE ALL CEILING TYPES AND CORRESPONDING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN
- ALL LIGHTING CIRCUITS SHALL BE CONTROLLED VIA THE LIGHTING RELAY CONTROL SYSTEM FOR AUTOMATIC CONTROLS AS REQUIRED BY CODE.
- ALL INTERIOR SPACES SHALL BE PROVIDED WITH OCCUPANCY SENSORS AND MANUAL CONTROL OVER-RIDES EXCEPT THE FOLLOWING:
 - DORM ROOMS, DAY ROOM, KITCHEN = MANUAL CONTROL ONLY
 - MECHANICAL ROOMS, ELECTRICAL ROOMS = TIMER SWITCHES ONLY
- ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL U.N.O.
- TOILET EXHAUST FANS TO BE SWITCHED WITH LIGHTS.
- ALL LIGHT FIXTURES ARE SWITCHED BY ONE (1) SWITCH UNLESS NOTED OR DIRECTED OTHERWISE.
- ALL EMERGENCY EXIT FIXTURES ARE ON CIRCUIT LB-40.
- SPEAKER AND WIFI ANTENNA LOCATIONS ARE SHOWN FOR COORDINATION PURPOSES ONLY. DEVICES (AND CABLING) SHALL BE SUPPLIED AND INSTALLED BY OWNER. NO WORK FOR CONTRACTOR.
- ALL UNDERCABINET LIGHT IN EACH ROOM SWITCHED SEPARATELY FROM ROOM LIGHTS.

NOTES BY SYMBOL "O":

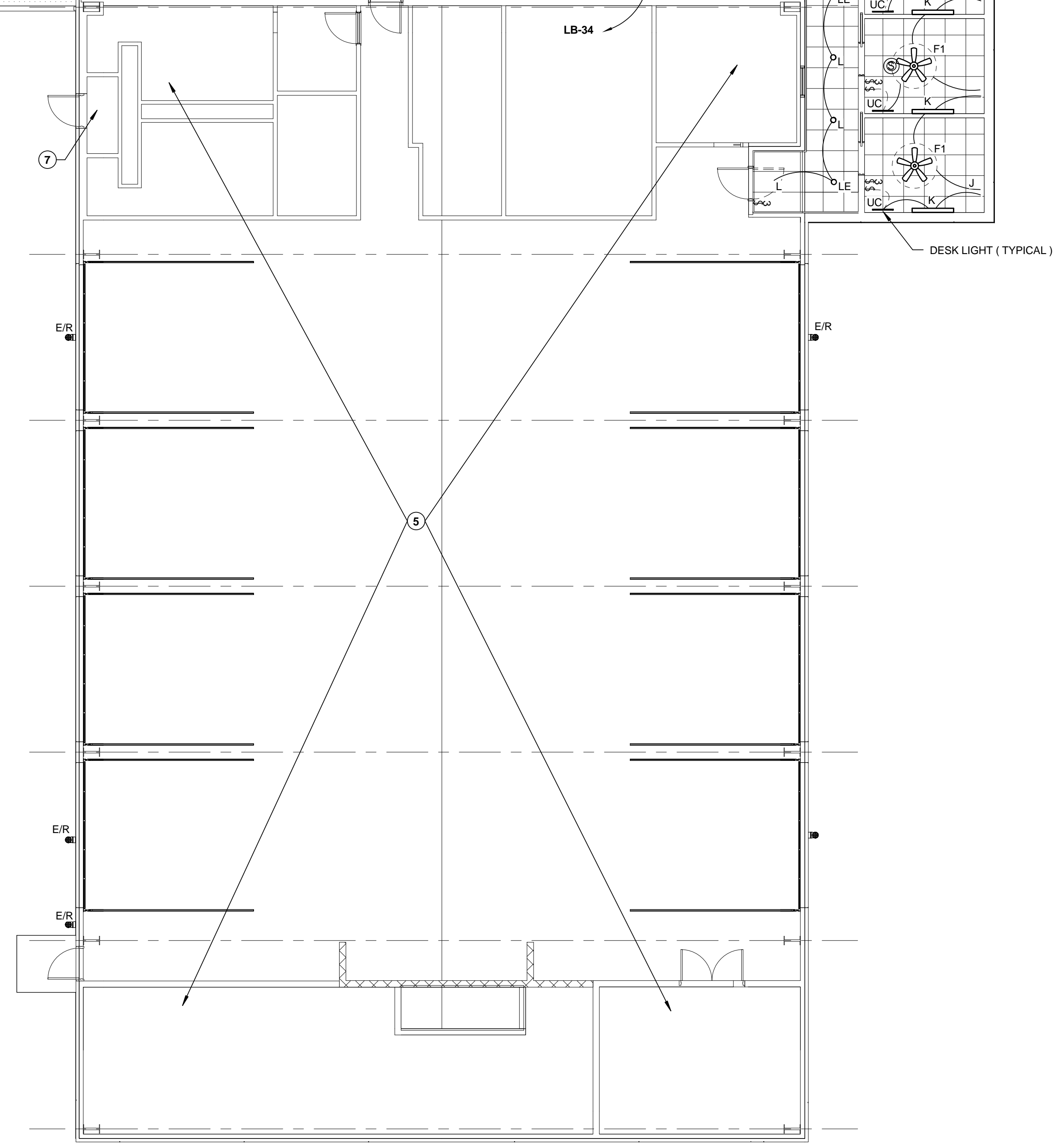
- DIMMER TO BED LIGHT.
- THREE-WAY SWITCH TO ROOM LIGHT.
- CEILING FAN SPEED CONTROL, QUORUM SPEED CONTROL.
- NOT IN USE.
- NO WORK IN THIS INTERIOR AREA.
- SWITCH FOR FAN LIGHT.
- EXISTING ELECTRICAL ROOM. SEE SHEET E3.1.
- CONNECT ALL EMERGENCY EXIT LIGHTS TO CIRCUIT LB-40.



3 ENLARGED DORM ROOM - LIGHTING
 1/4" = 1'-0"



2 ENLARGED LIEUTENANTS OFFICE - LIGHTING
 1/4" = 1'-0"



1 FLOOR PLAN - LIGHTING
 1/8" = 1'-0"

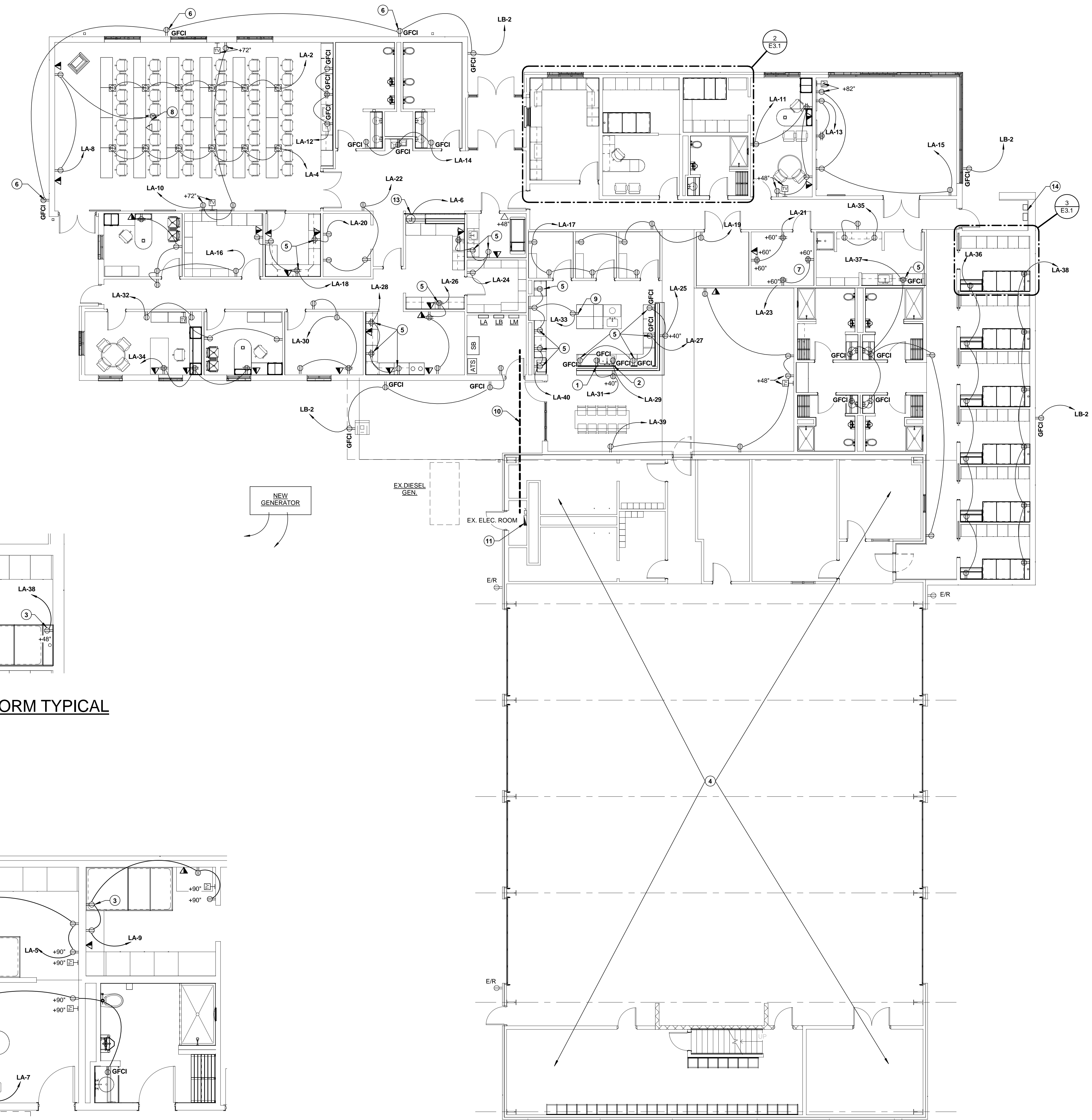


GENERAL NOTES:

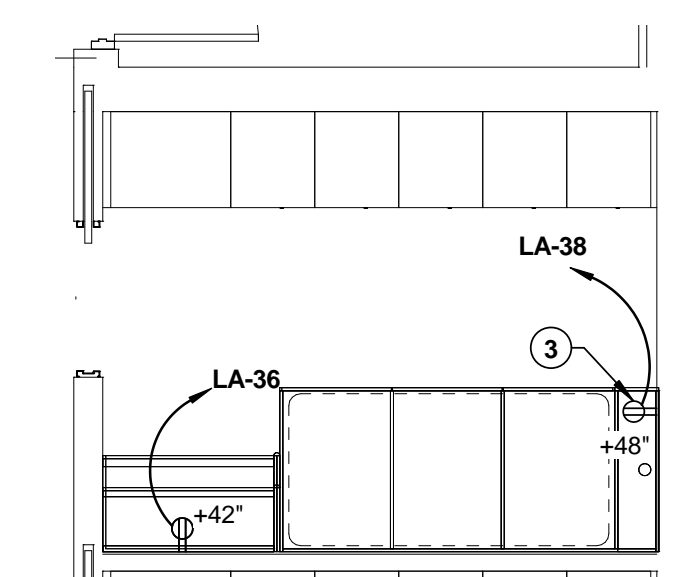
- ALL WIRING DEVICES SHALL BE WHITE WITH ACRYLIC COVERPLATES.
- INTERCOM SYSTEM NOTIFICATION SEQUENCING
 EACH STATION HAS SPECIFIC EMERGENCY ALERT TONES BROADCASTED OVER INTERCOM SYSTEM. WHEN A STATION'S SPECIFIC TONE SOUNDS AT A STATION, THE FOLLOWING OCCURS:
 A. CORRIDOR LIGHTS AND WATCH ROOM LIGHTS TURN ON.
 B. RANGE / OVEN AND MICROWAVE OVEN TURN OFF.
 C. RESET TIMER (WITH MANUAL PUSH BUTTON RESET ON WALL NEAR WATCH 106 ENTRY) TO RETURN DEVICES TO PREVIOUS STATE.
- PROVIDE A COMPLETE LEVITON GREENMAX CONTROL SYSTEM OR EQUAL TO CONTROL SYSTEMS ABOVE.

NOTES BY SYMBOL "O":

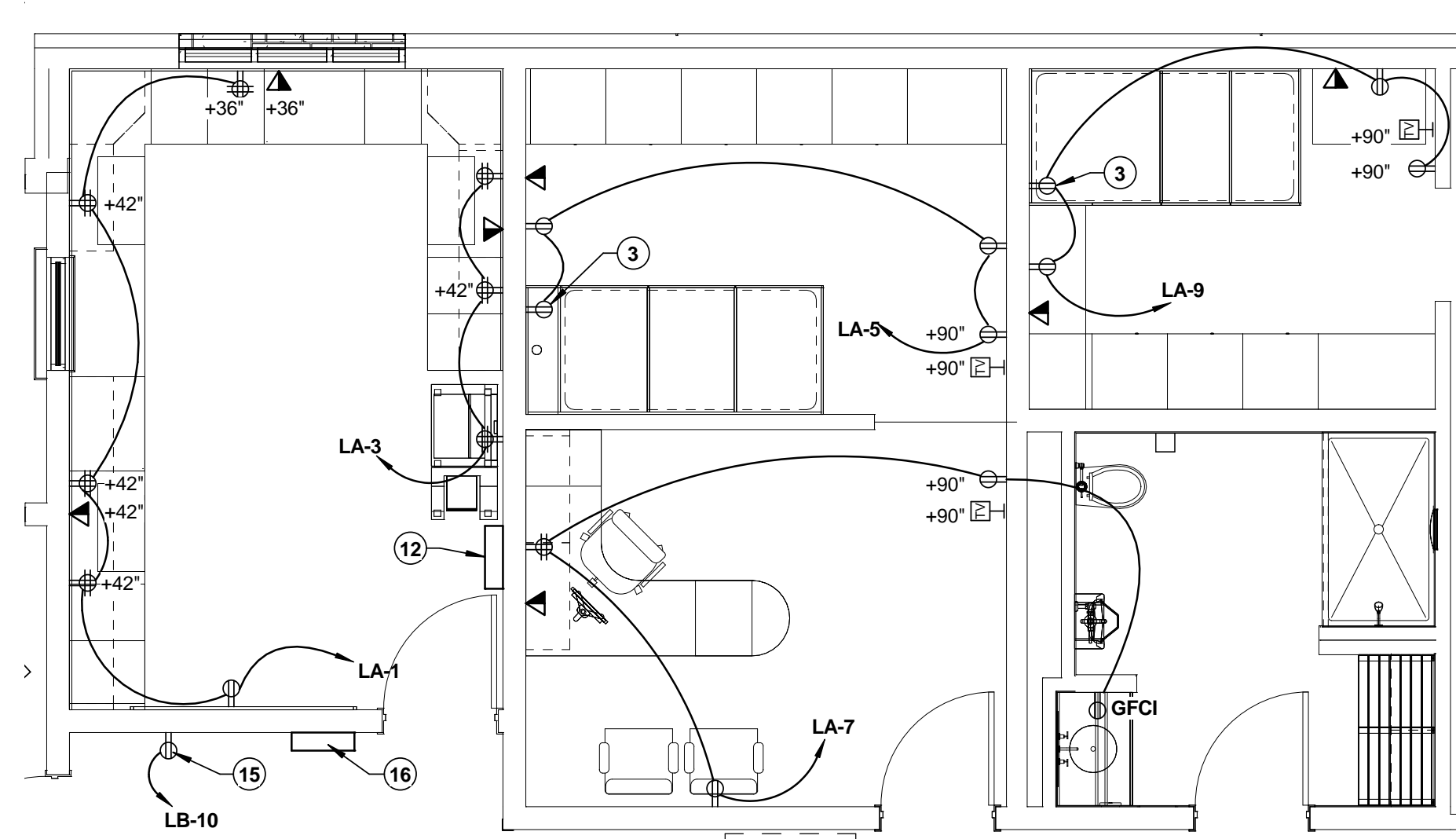
- RECEPTACLE FOR GARBAGE DISPOSAL. PROVIDE SWITCH ABOVE COUNTER.
- RECEPTACLE FOR DISHWASHER.
- RECEPTACLE WITH INTEGRAL USB CHARGING OUTLET. TYPICAL OF 8. MOUNT IN HEADBOARD AT 48" A.F.F., HUBBELL MODEL US 20X2W OR EQUAL.
- NO INTERIOR WORK IN THIS AREA. SEE SHEET ED2.1 FOR EXTERIOR WORK.
- MOUNT RECEPTACLE ABOVE COUNTER.
- MOUNT RECEPTACLE UNDER ROOF OVERHANG. PROVIDE WEATHER RESISTANT COVERS. SEE SHEET E3.2 FOR SIMILAR RECEPTACLES ON PARAPET.
- PROVIDE 3/4" PLYWOOD AN 4 WALLS.
- CEILING MOUNTED DUPLEX AND DATA FOR PROJECTOR.
- RECEPTACLE ON CENTER ISLAND.
- PROVIDE 1-2" CONDUIT ABOVE CEILING FOR NEW FEED FROM ELECTRICAL 123 TO EXISTING ELECTRICAL ROOM.
- EXISTING PANEL TO BE REMOVED AND REPLACED WITH NEW 120/208 3 PHASE PANELS. PANEL TO BE FED FROM NEW DISTRIBUTION PANEL IN ELECTRICAL 123.
- LOCATION OF BUMP OUT RESET PANEL. COORDINATE EXACT LOCATION WITH OWNER.
- MOUNT J-BOX ABOVE CEILING FOR MOTORIZED GATE.
- ELECTRICAL METER BASE AND DISCONNECT.
- POWER FOR FIRE ALARM ANNUNCIATION PANEL.
- GENERATOR ANNUNCIATION PANEL.



3 ENLARGED DORM TYPICAL
 1/4" = 1'-0"



2 ENLARGED PLAN - LIEUTENANT/WATCH
 1/4" = 1'-0"

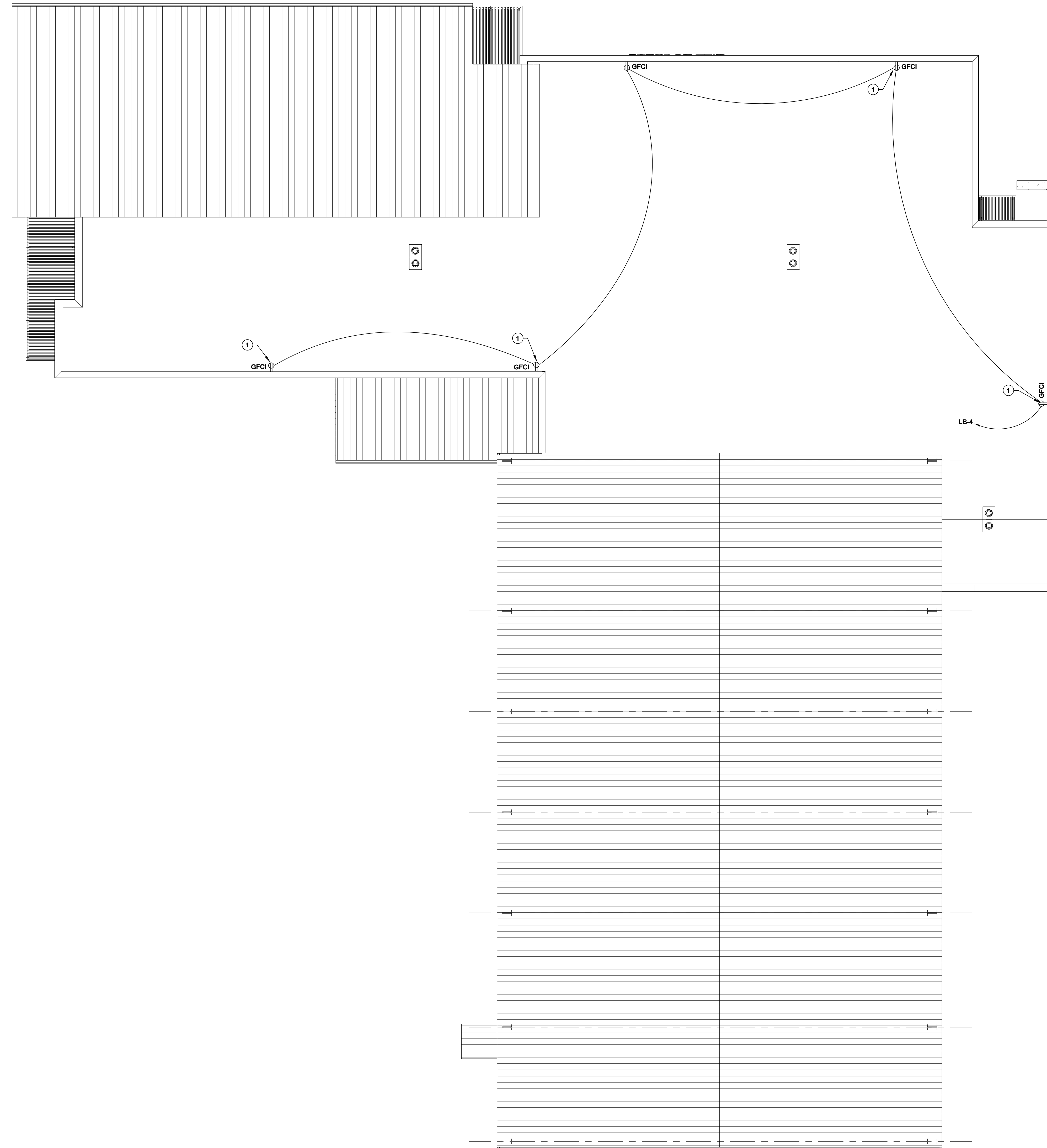


1 FLOOR PLAN - POWER
 1/8" = 1'-0"



NOTES BY SYMBOL "O":

- 1. MOUNT RECEPTACLE AT BACK (ROOF SIDE) OF PARAPET. PROVIDE WEATHER RESISTANT COVERS.



1 ROOF PLAN - POWER
1/8" = 1'-0"



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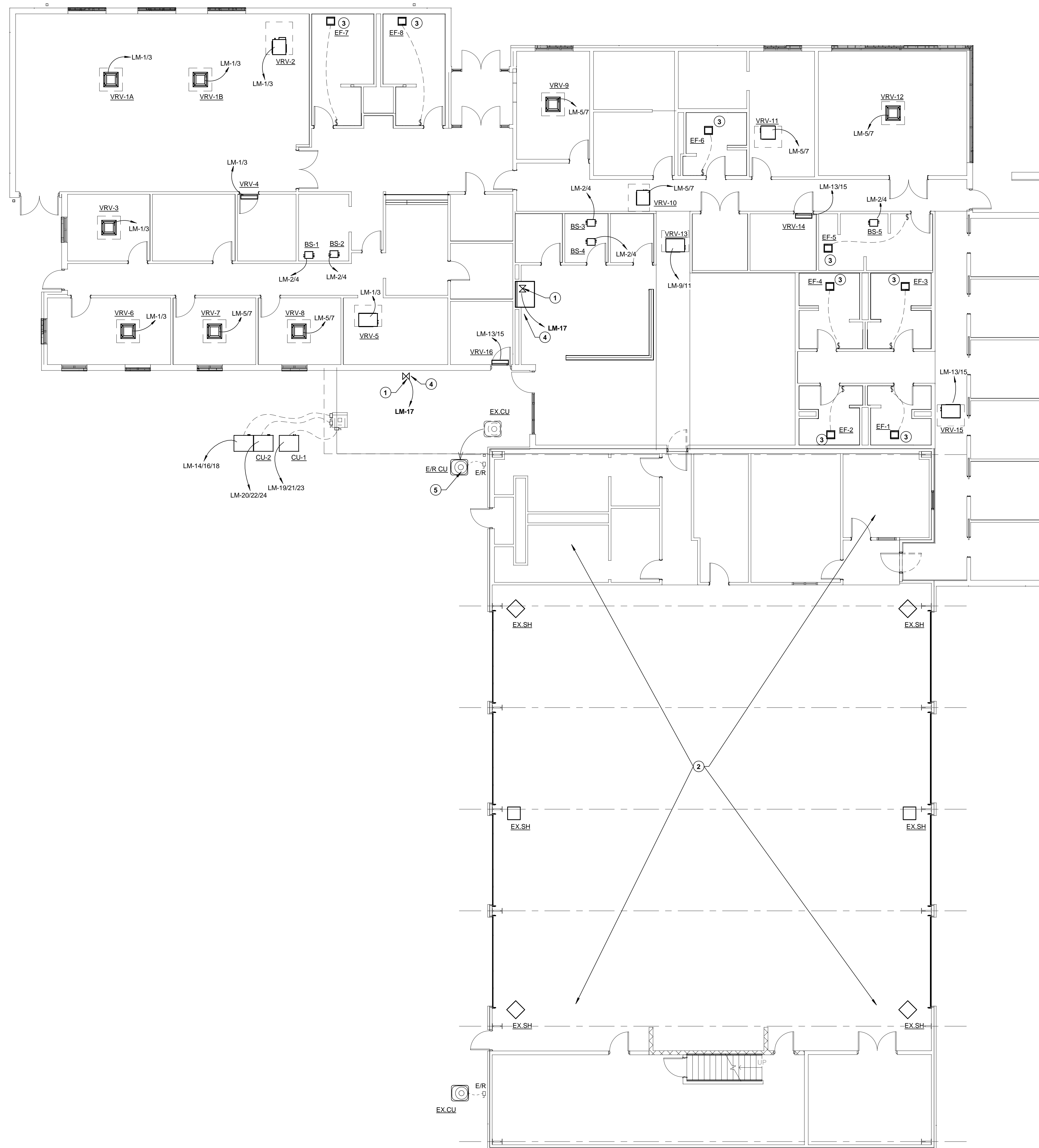
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Sheet No.
E3.2
ROOF PLAN - POWER



1 FLOOR PLAN - POWER TO MECHANICAL
1/8" = 1'-0"

GENERAL NOTES:

- REFER TO THE 'POWER TO MECHANICAL' SCHEDULE FOR BRANCH CIRCUIT REQUIREMENTS OF MECHANICAL EQUIPMENT. VERIFY VOLTAGE, PHASE, MCA AND MOCF OF EQUIPMENT SUBMITTALS WITH THIS SCHEDULE.
- COORDINATE THE PROVISION OF DISCONNECT SWITCHES AND MOTOR STARTERS WITH MECHANICAL CONTRACTOR.
- WHERE EQUIPMENT IS SCHEDULED BUT NOT SHOWN ON THESE DRAWINGS, REFER TO THE MECHANICAL FOR LOCATION.
- COORDINATE WITH MECHANICAL, PLUMBING AND FIRE PROTECTION TRADES AND IDENTIFY ALL MISCELLANEOUS MECHANICAL EQUIPMENT REQUIRING POWER. PROVIDE CONDUIT, WIRE, DISCONNECT SWITCH, OVER CURRENT AND SHORT CIRCUIT PROTECTION FOR ALL EQUIPMENT, WHETHER SHOWN OR NOT.
- EXACT MECHANICAL EQUIPMENT LOCATION AND TYPE SHALL BE COORDINATED WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
- ALL CONDUIT AND/OR WIRING SHALL BE INSTALLED BETWEEN THE BOTTOM AND TOP OF CORD OF JOIST. DO NOT INSTALL CONDUIT WITHIN 3'-0" OF ANY A/C UNITS UNLESS THE CONDUIT AND/OR WIRING SERVICES THE A/C UNIT.

NOTES BY SYMBOL "O":

- PROVIDE GAS VALVE CUT-OFF WIRING TO BUMP OUT SYSTEM.
- NO WORK IN THIS AREA.
- FAN ON SAME CIRCUIT AS LIGHT IN ROOM. DEDICATED SWITCH FOR FAN.
- INSTALL GAS VALVE RESET BUTTON NEXT TO DEVICE.
- RELOCATED CONDENSING UNIT. RE-USE CIRCUIT.

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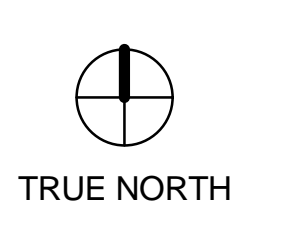
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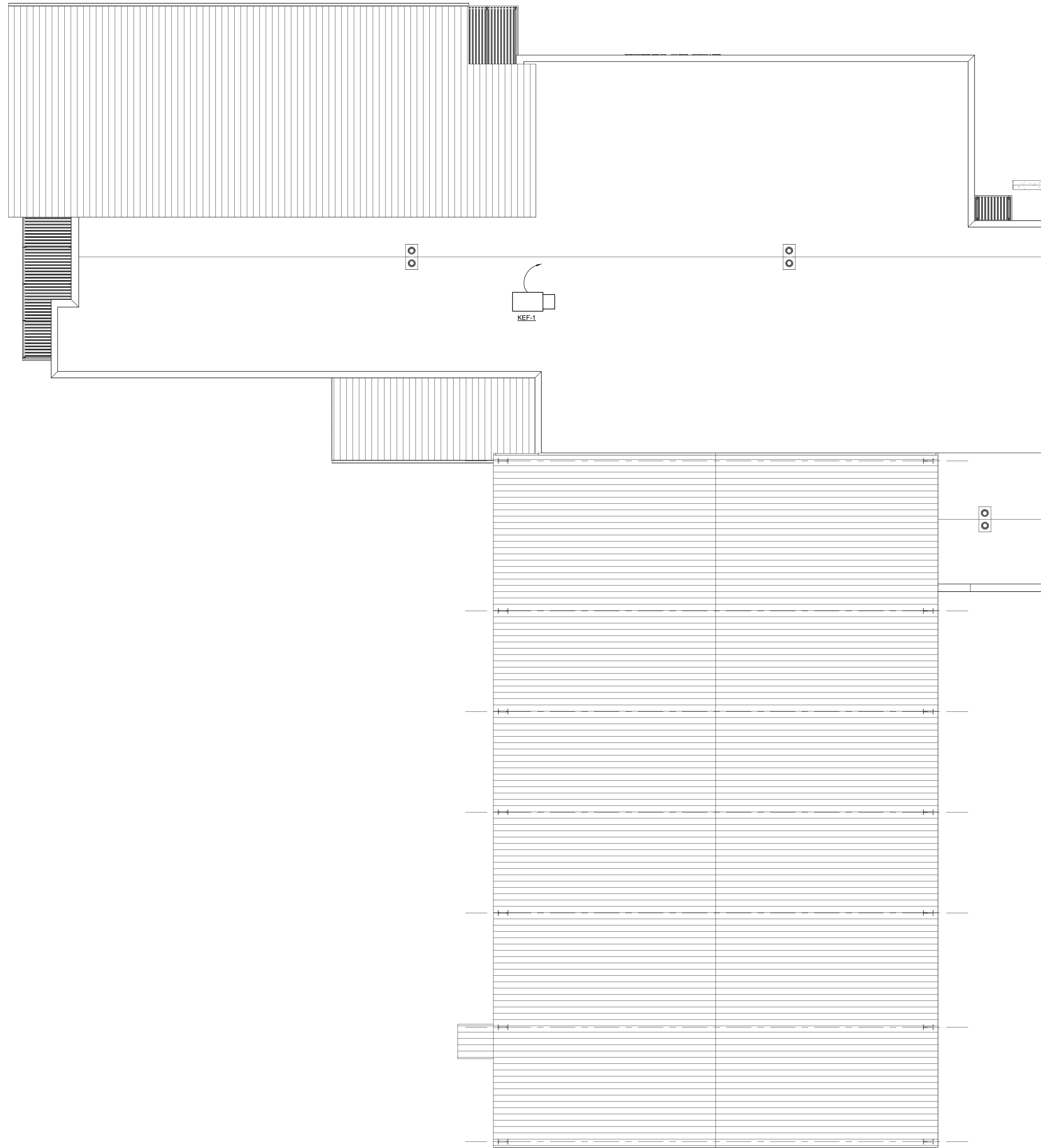
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Sheet No.
E4.1
FLOOR PLAN - POWER
TO MECHANICAL





GENERAL NOTES:

1. REFER TO THE 'POWER TO MECHANICAL' SCHEDULE FOR BRANCH CIRCUIT REQUIREMENTS OF MECHANICAL EQUIPMENT. VERIFY VOLTAGE, PHASE, MCA AND MOCOP OF EQUIPMENT SUBMITTALS WITH THIS SCHEDULE.
2. COORDINATE THE PROVISION OF DISCONNECT SWITCHES AND MOTOR STARTERS WITH MECHANICAL CONTRACTOR.
3. WHERE EQUIPMENT IS SCHEDULED BUT NOT SHOWN ON THESE DRAWINGS, REFER TO THE MECHANICAL FOR LOCATION.
4. COORDINATE WITH MECHANICAL, PLUMBING AND FIRE PROTECTION TRADES AND IDENTIFY ALL MISCELLANEOUS MECHANICAL EQUIPMENT REQUIRING POWER. PROVIDE CONDUIT, WIRE, DISCONNECT SWITCH, OVER CURRENT AND SHORT CIRCUIT PROTECTION FOR ALL EQUIPMENT, WHETHER SHOWN OR NOT.
5. EXACT MECHANICAL EQUIPMENT LOCATION AND TYPE SHALL BE COORDINATED WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
6. ALL CONDUIT AND/OR WIRING SHALL BE INSTALLED BETWEEN THE BOTTOM AND TOP OF CORD OF JOIST. DO NOT INSTALL CONDUIT WITHIN 3'-0" OF ANY A/C UNITS UNLESS THE CONDUIT AND/OR WIRING SERVES THE A/C UNIT.

NOTES BY SYMBOL "O":

- 1.

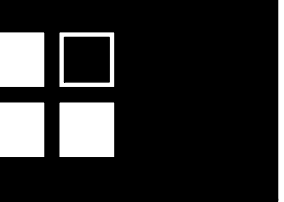
1 ROOF PLAN - POWER TO MECHANICAL
1/8" = 1'-0"



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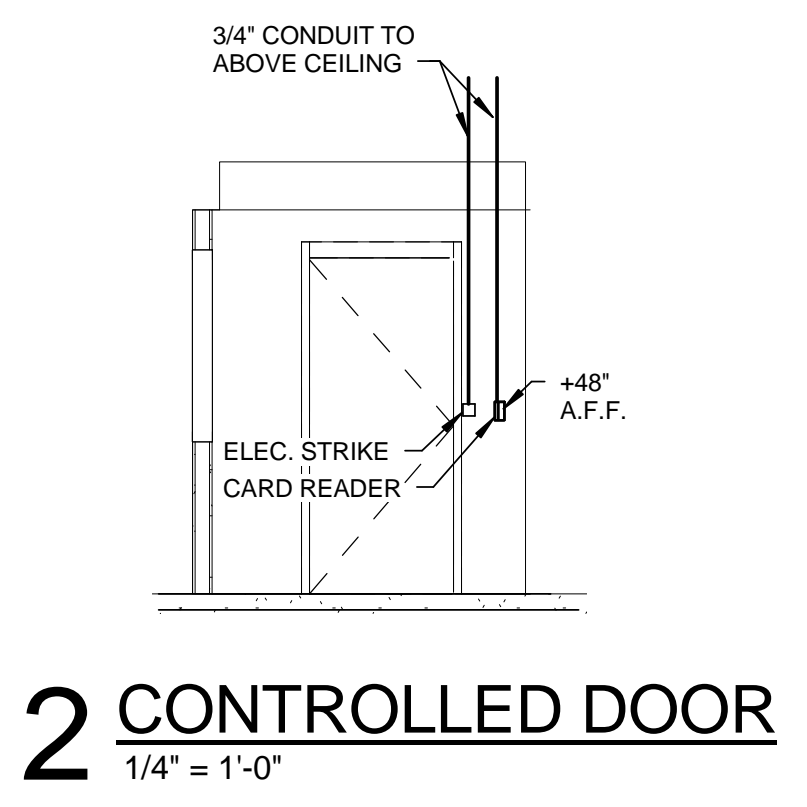
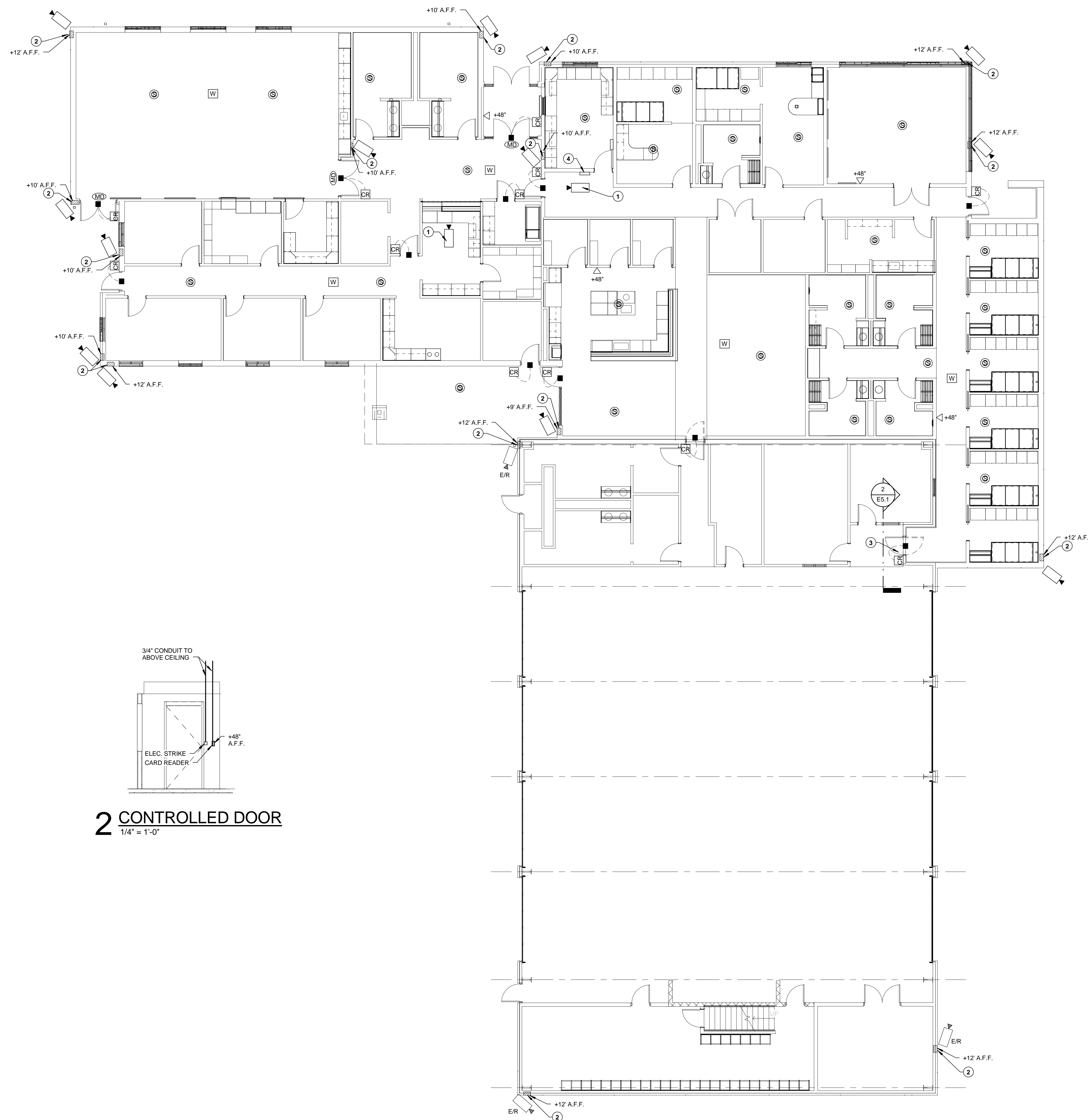


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Sheet No.
E4.2
ROOF PLAN - POWER
TO MECHANICAL



2 CONTROLLED DOOR
1/4" = 1'-0"

1 FLOOR PLAN - SECURITY
1/8" = 1'-0"

GENERAL NOTES:

1. MOUNT ALL CARD READERS AT 48" A.F.F.

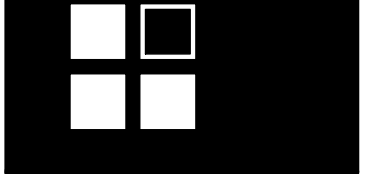
NOTES BY SYMBOL "O":

1. CEILING MOUNTED CAMERA. NO WORK HERE. NIC.
2. PROVIDE 1-GANG RECESSED BOX FOR CAMERA. STUB 3/4" CONDUIT ABOVE CEILING. INSTALL BOX AT HEIGHT INDICATED. NOT REQUIRED FOR CEILING MOUNTED CAMERAS. CAMERA AND WIRING BY OTHERS.
3. PROVIDE 2-3/4" CONDUITS FROM DEVICES TO ABOVE CEILING. SEE DETAIL 2. TYPICAL FOR ALL ACCESS CONTROLS.
4. FIRE ALARM PANEL.

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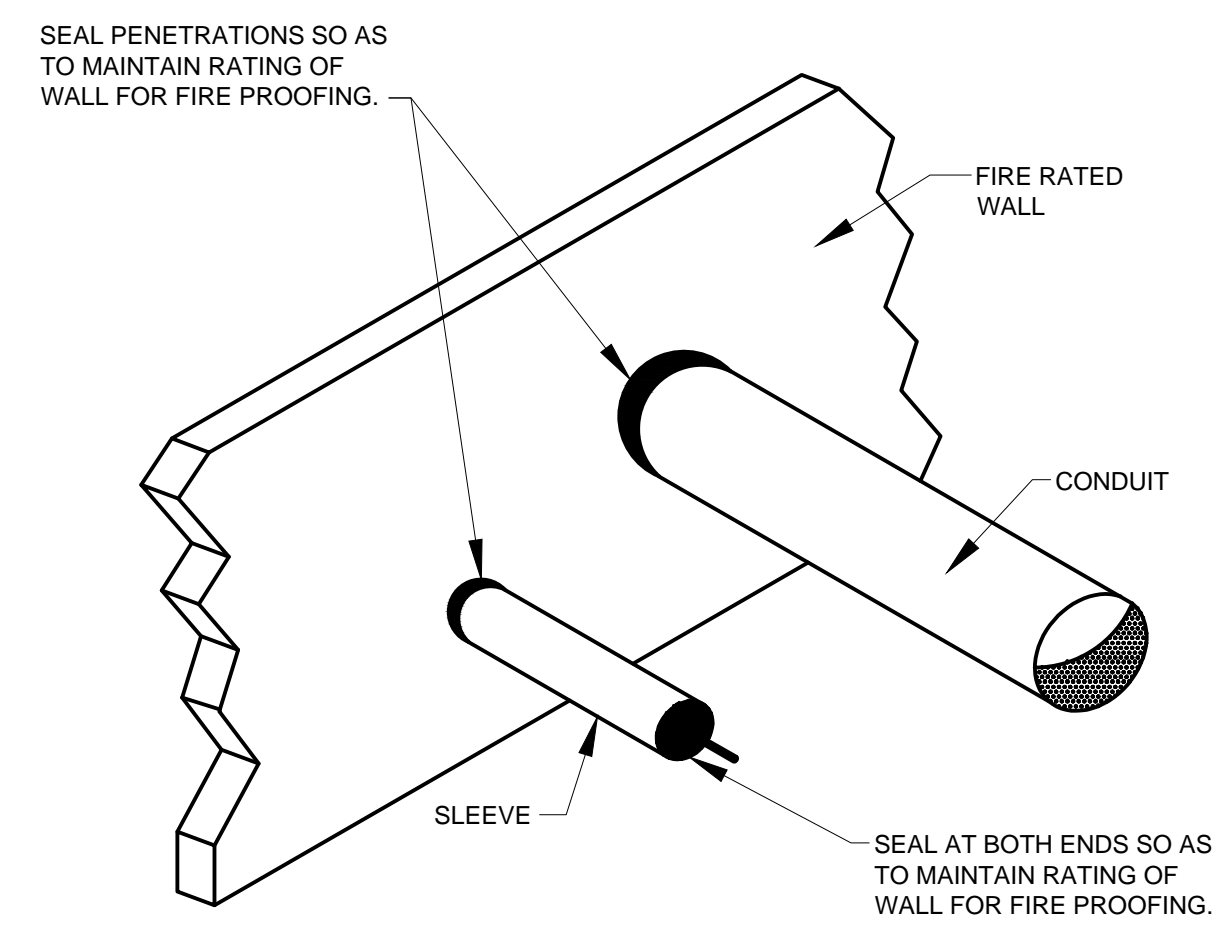
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UNDER THE SUPERVISION OF:

JOHN VINCENT, P.E.
TX REG. REGISTRATION #198939
DATE: 04 APRIL 2014

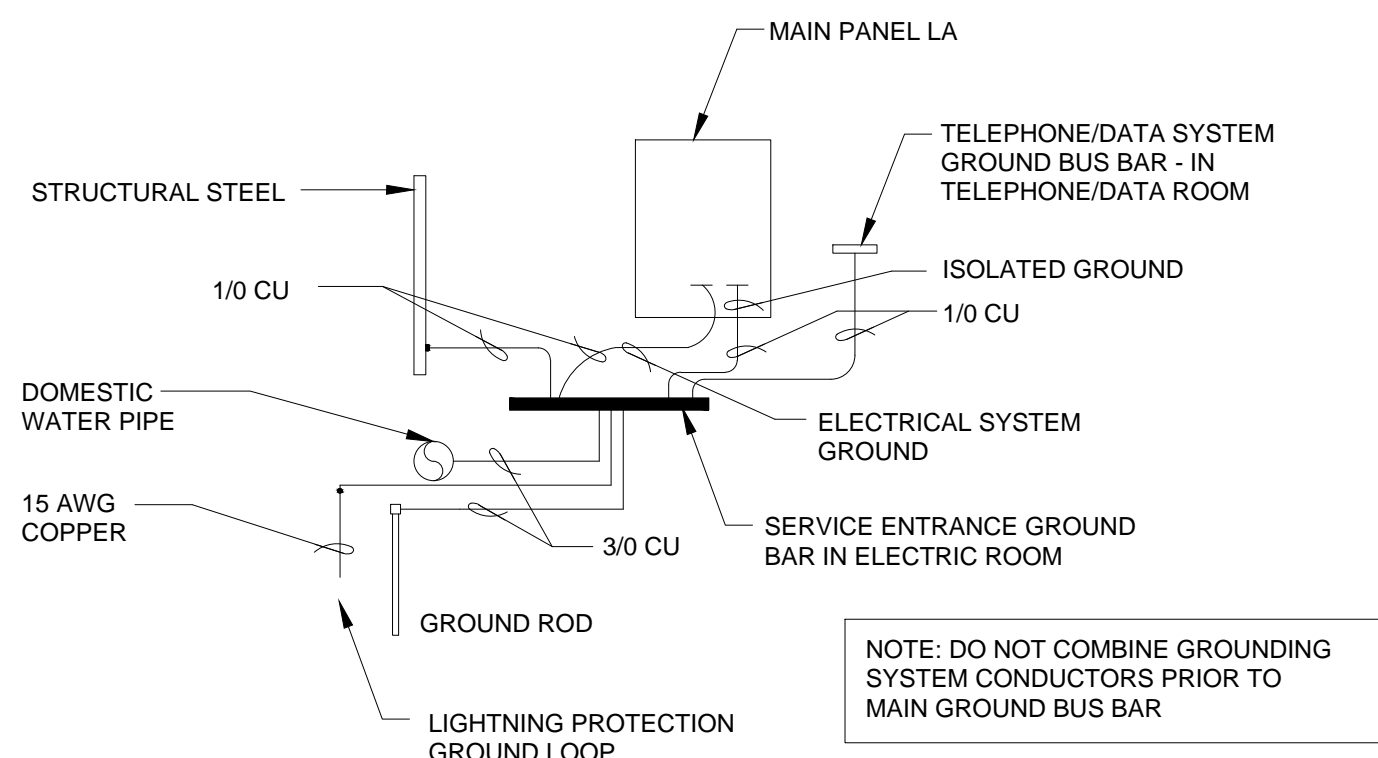
Job No.
1215

Sheet No.
E5.1
FLOOR PLAN - SECURITY

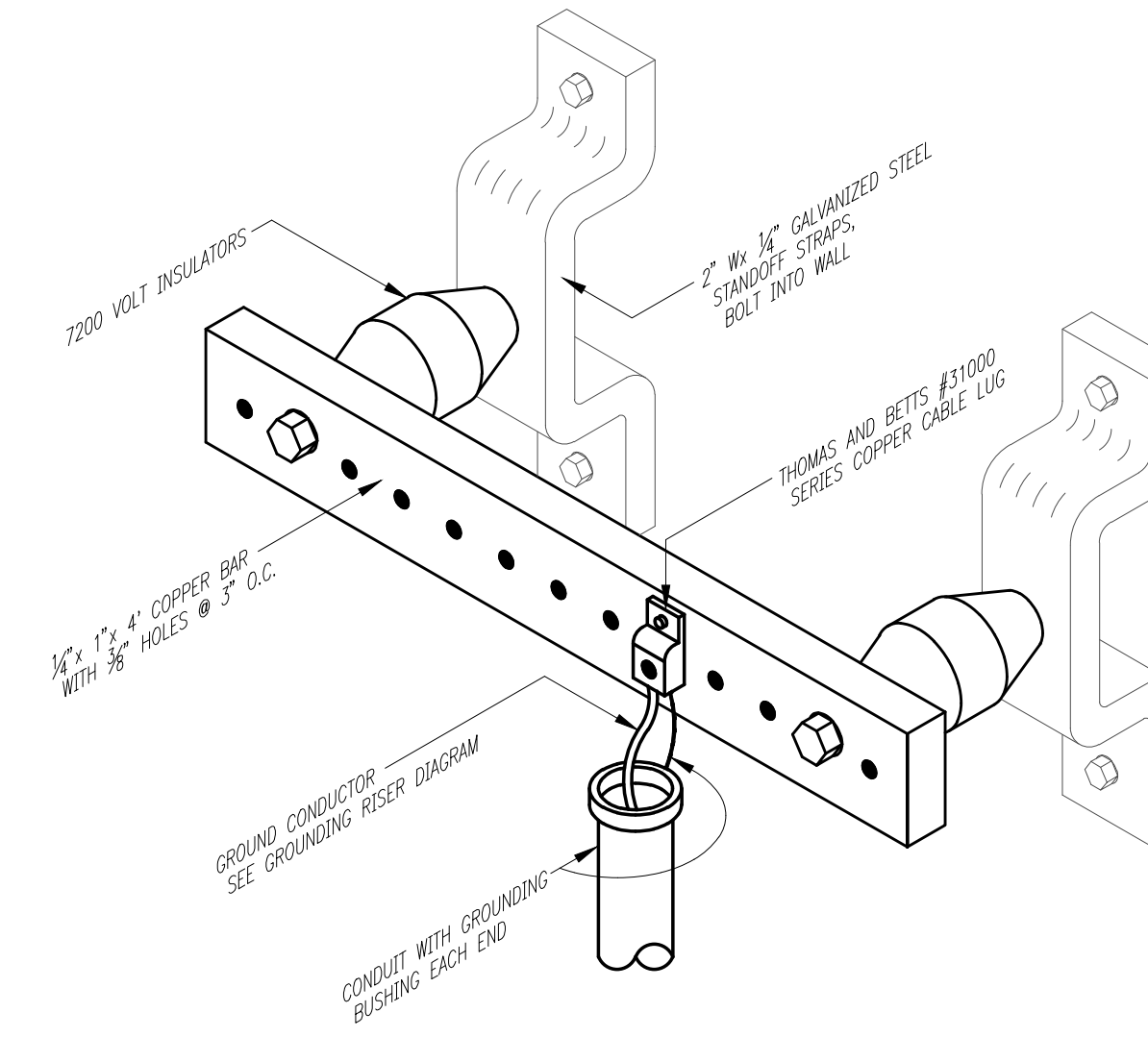




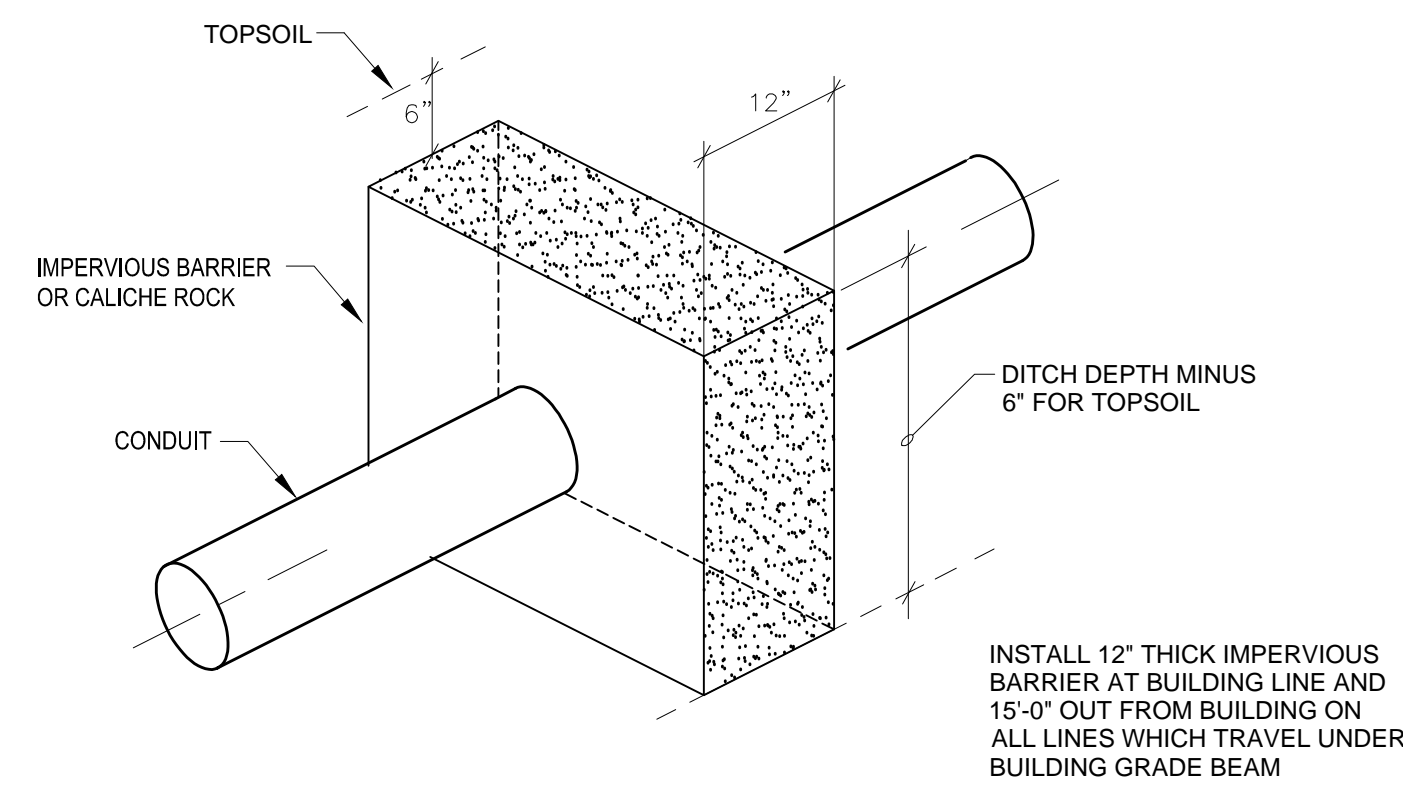
3 RATED WALL PENETRATION
SCALE: N.T.S.



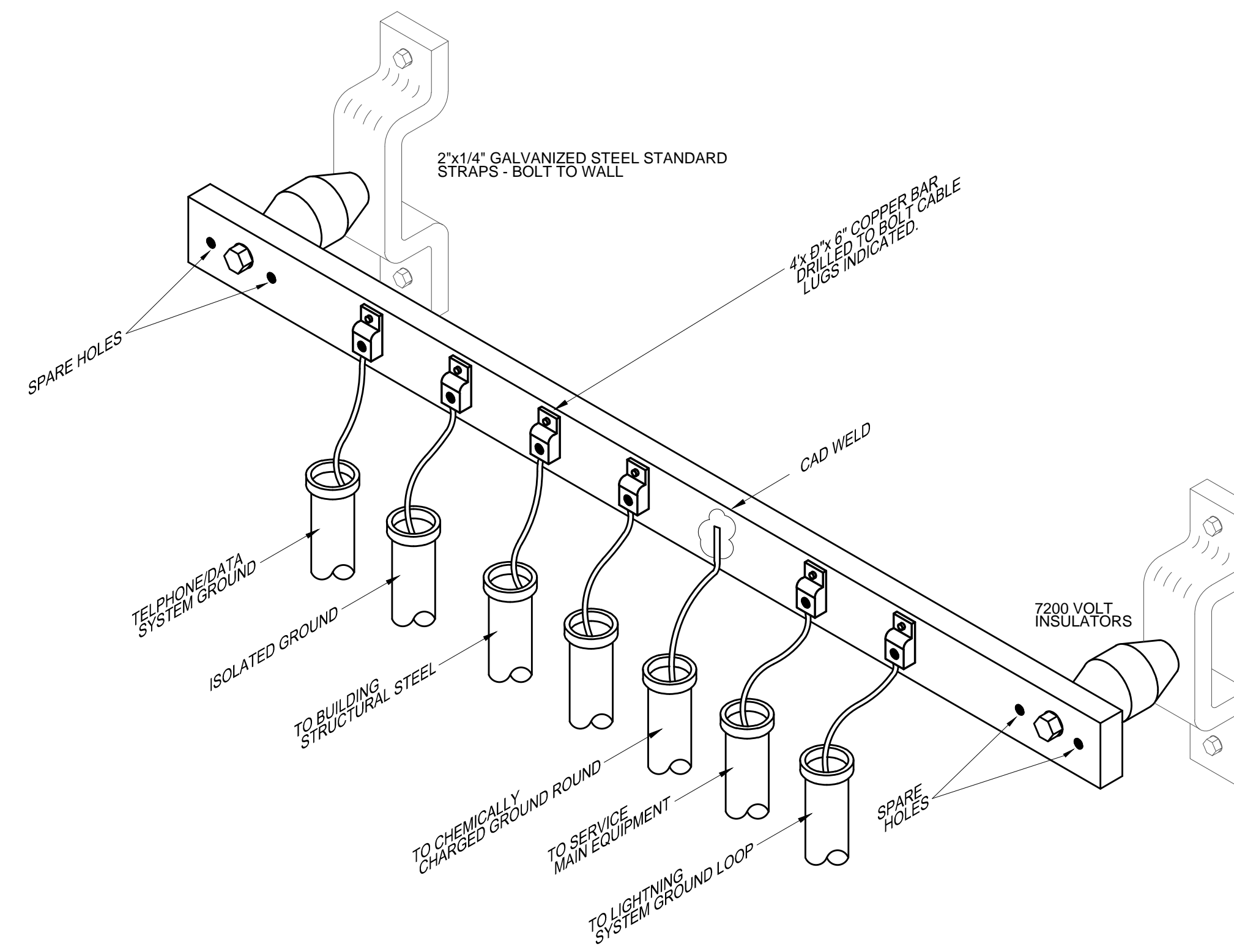
2 GROUNDING RISER DETAIL
SCALE: N.T.S.



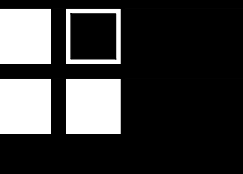
1 PHONE/DATA GROUND BAR
SCALE: N.T.S.

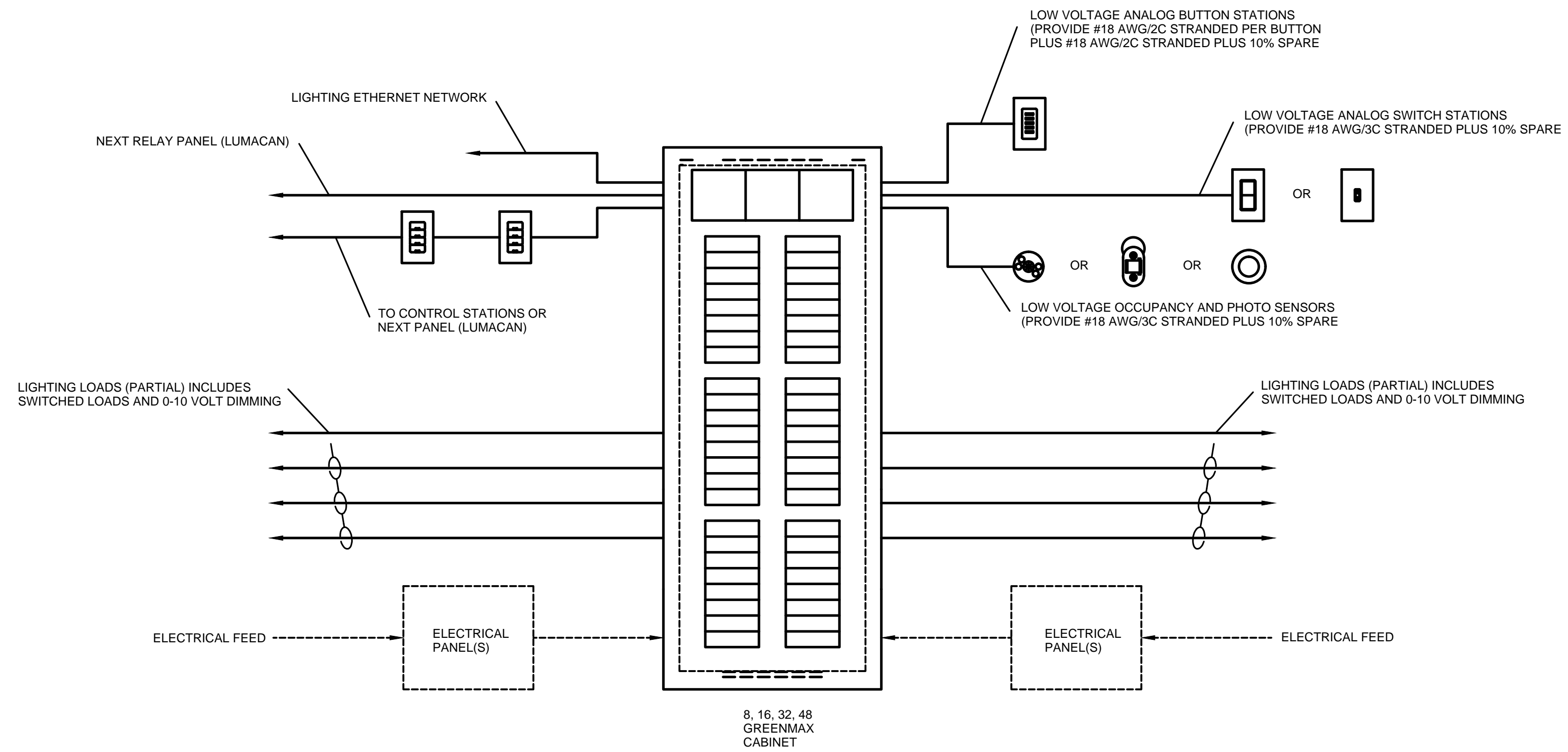


5 IMPERVIOUS BARRIER
SCALE: N.T.S.

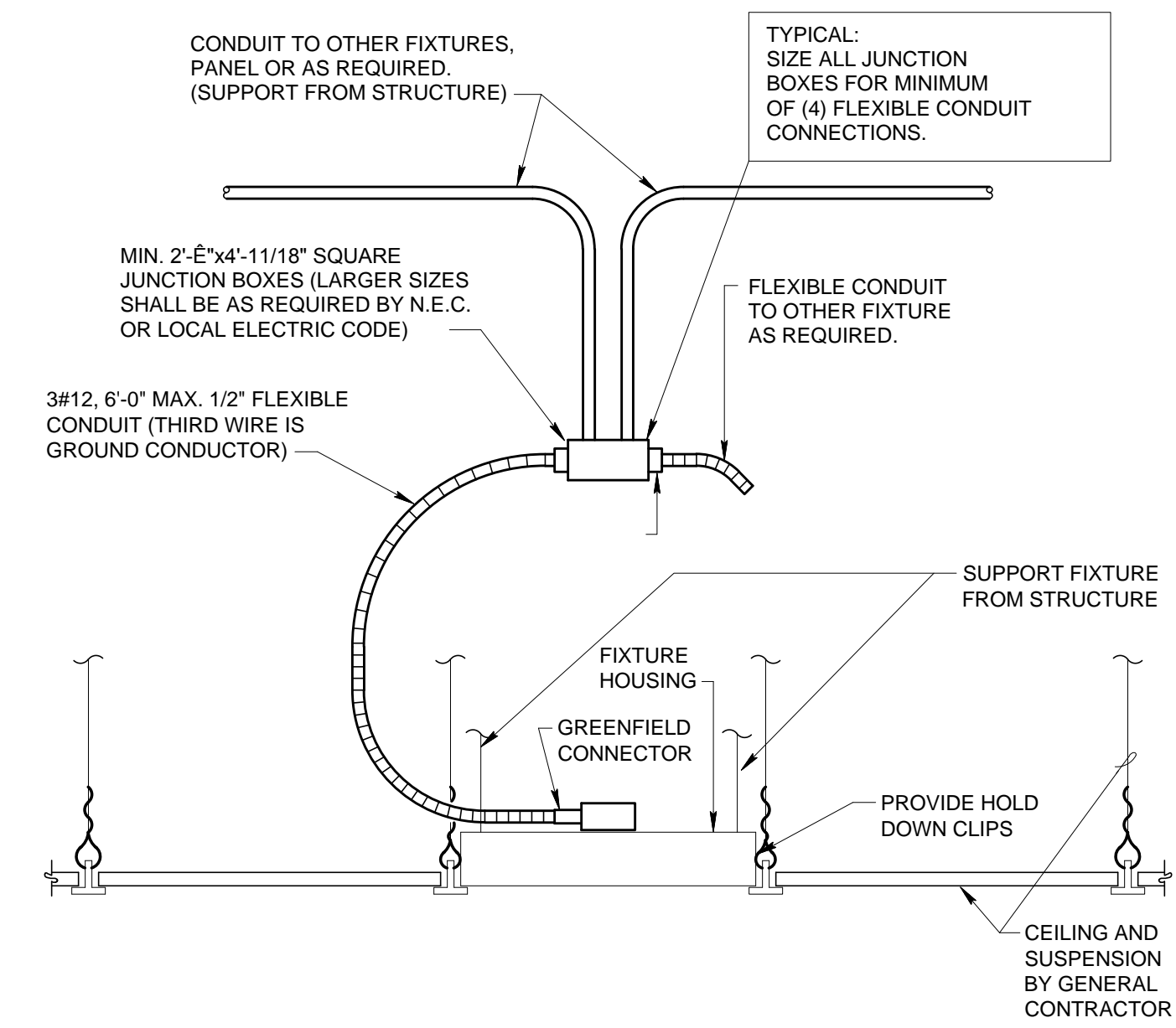


4 SERVICE ENTRANCE GROUNDING BAR
SCALE: N.T.S.

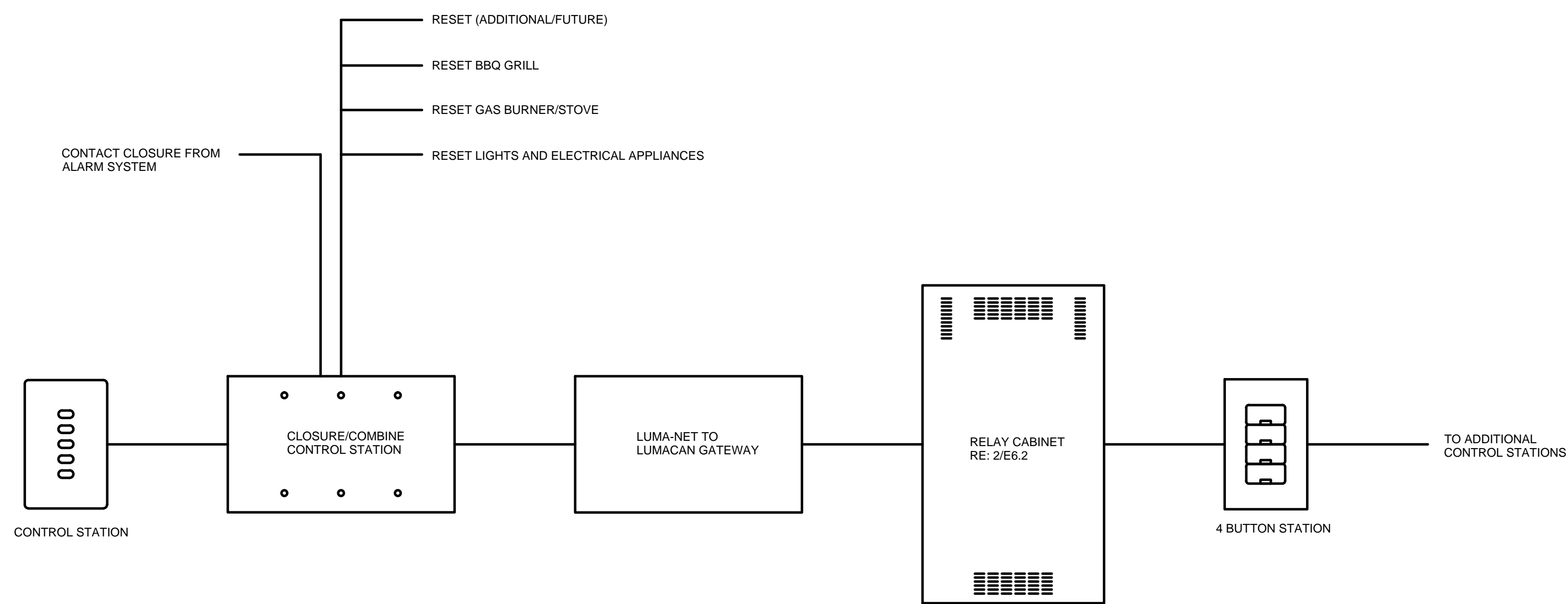




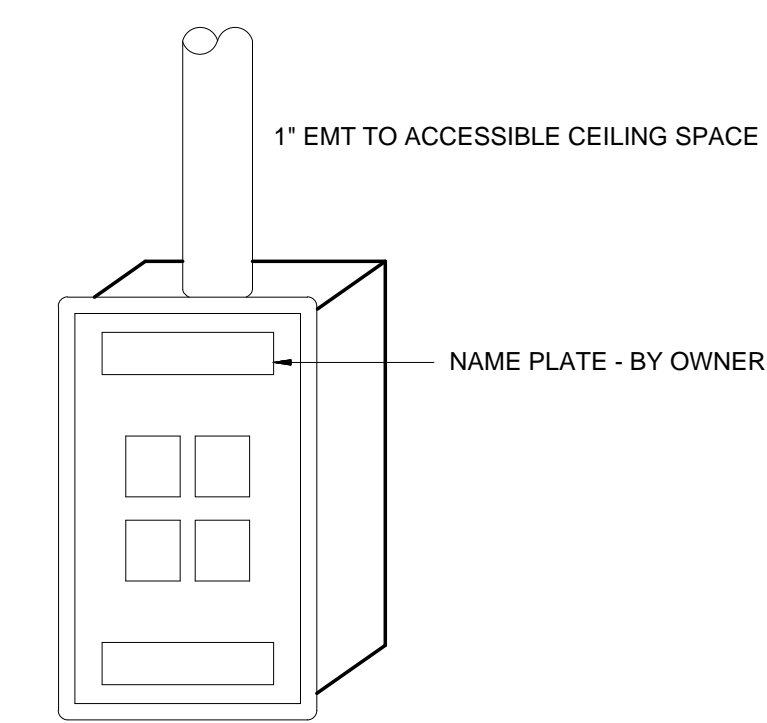
2 RELAY PANEL SYSTEM INTERCONNECTIONS - ONE-LINE
SCALE: N.T.S.



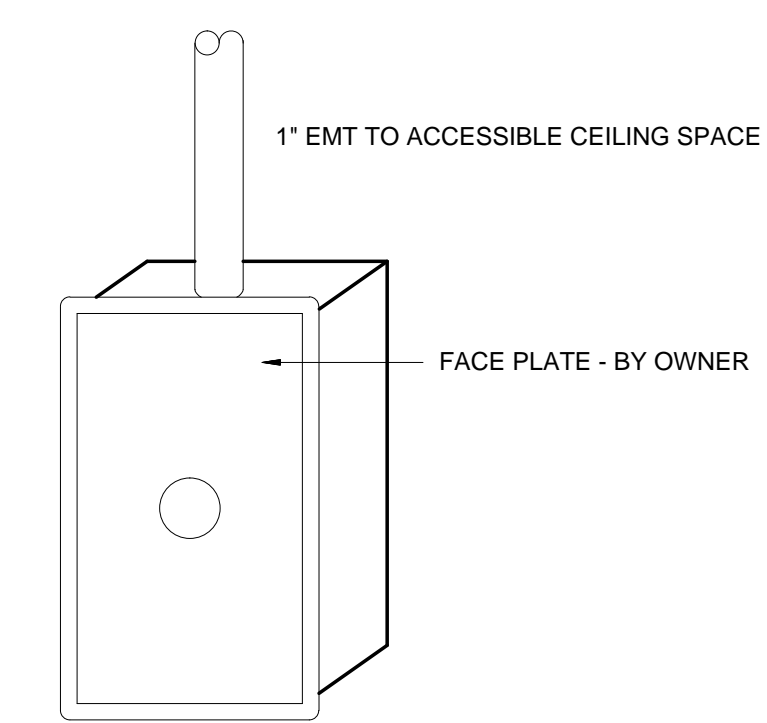
1 FIXTURE MOUNTING/WIRING DETAIL
SCALE: N.T.S.



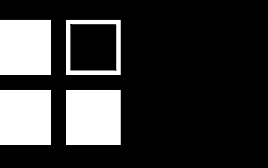
5 LIGHTING/ BUMP OUT CONTROL SCHEMATIC - ONE LINE
SCALE: N.T.S.

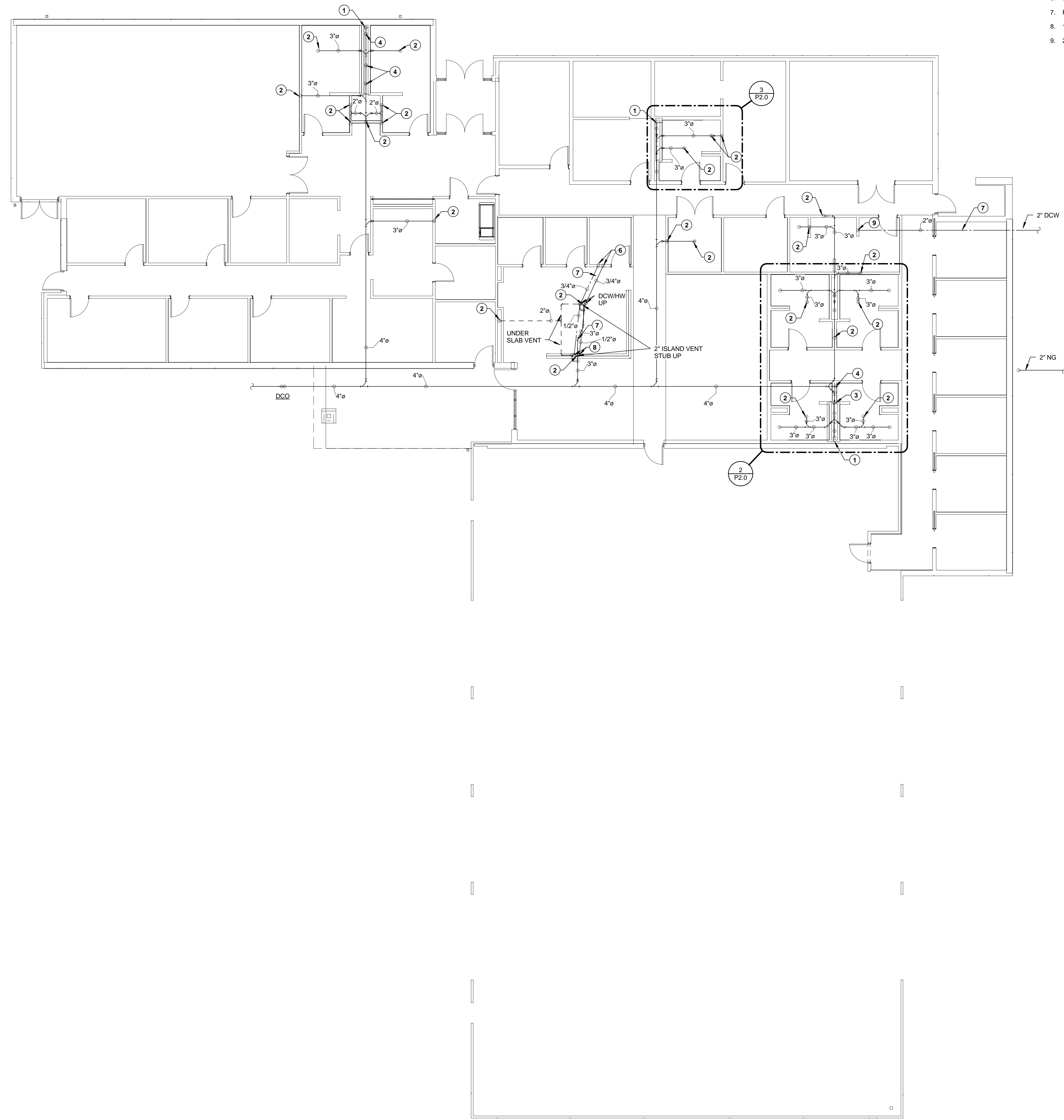


4 VOICE/DATA OUTLET DETAIL
SCALE: N.T.S.



3 TV ANTENNA OUTLET DETAIL
SCALE: N.T.S.





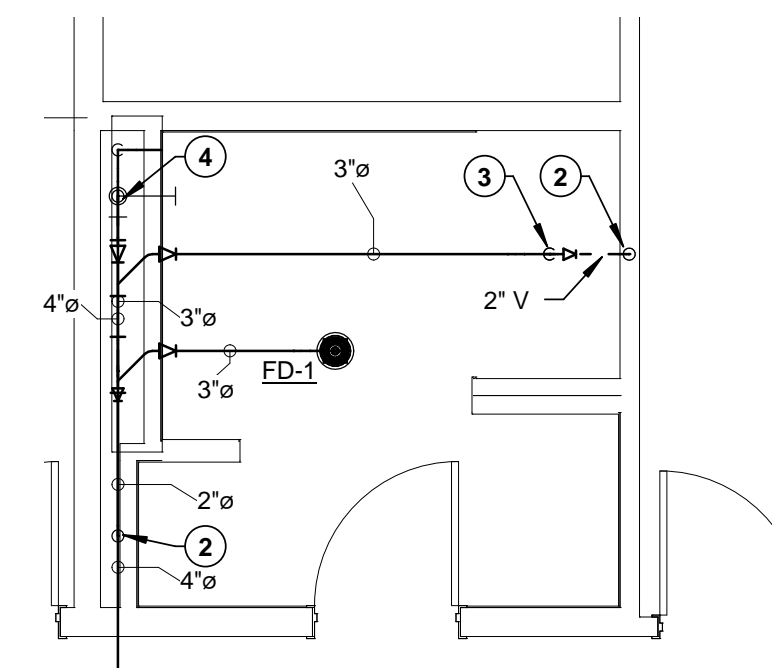
1 UNDERFLOOR PLUMBING
1/8" = 1'-0"

NOTES BY SYMBOL "O":

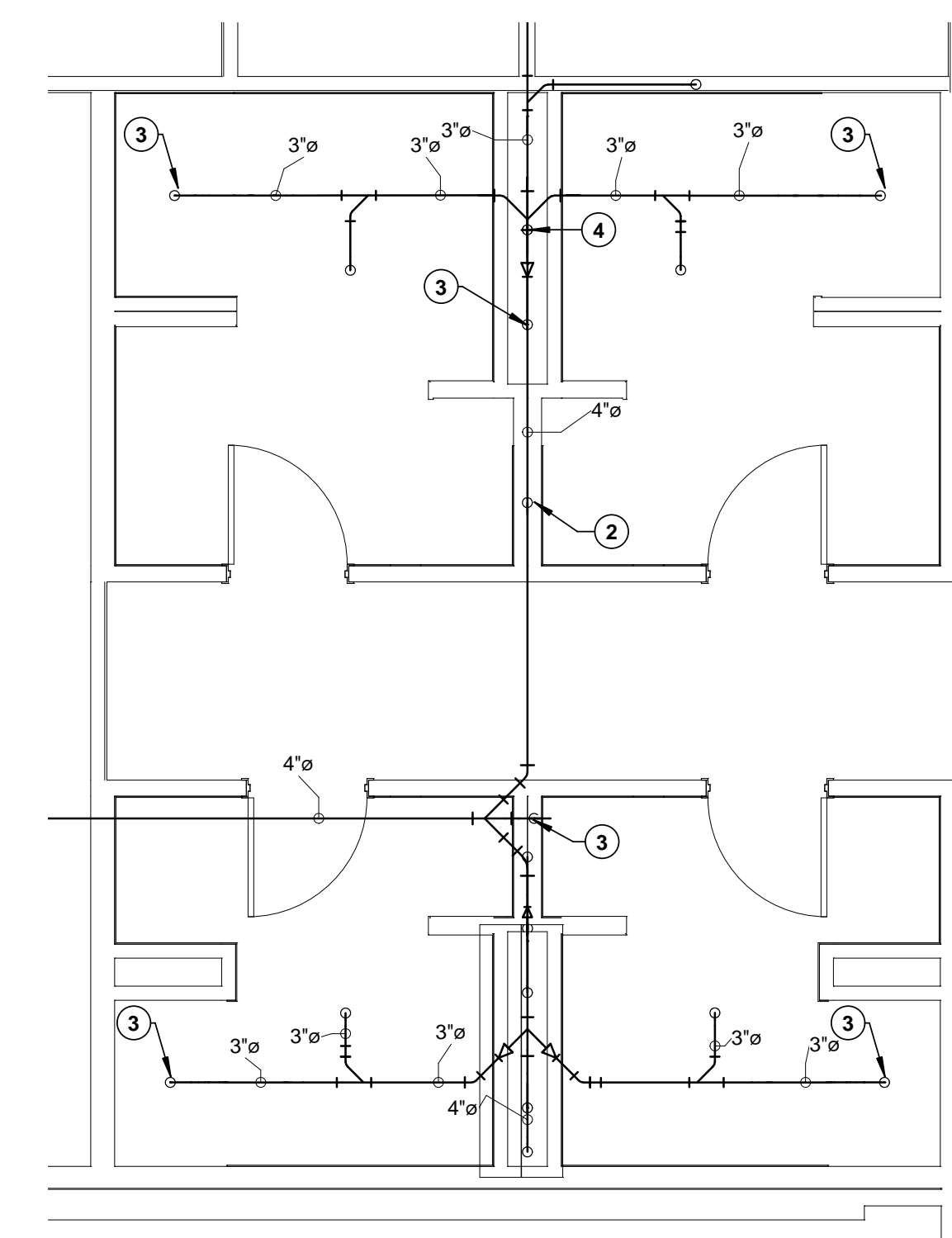
1. 4" TO WCO
2. 2" UP.
3. 3" UP.
4. 4" UP.
5. 3" UP TO WCO
6. 3/4" CW/WH UP IN WALL.
7. RUN LOOP COPPER UNDER SLAB WITH NO JOINTS.
8. 1/2" CW/WH UP IN WALL.
9. 2" CW UP.

GENERAL NOTES:

1. REFER TO MP0.0 FOR GENERAL PLUMBING NOTES, ABBREVIATIONS AND SYMBOLS.
2. COORDINATE ALL PIPING AND FIXTURES WITH ALL OTHER TRADES BEFORE WORK IS TO BEGIN.
3. NO EXPOSED PIPING UNLESS APPROVED BY ARCHITECT.
4. ALL SANITARY PIPING TO BE AT A 1/8" SLOPE, UNLESS NOTED OTHERWISE.
5. ALL PLUMBING ELECTRICAL DEVICES REQUIRING POWER SHALL BE COORDINATED BY THE CONTRACTOR.
6. THERE SHALL BE NO PIPING ROUTED OVER ELECTRICAL ROOMS.
7. TRAP PRIMERS/TRAP GUARDS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND FLOOR SINKS EXCEPT FOR SHOWER DRAINS AND FLOOR SINK AT ICE MAKER.

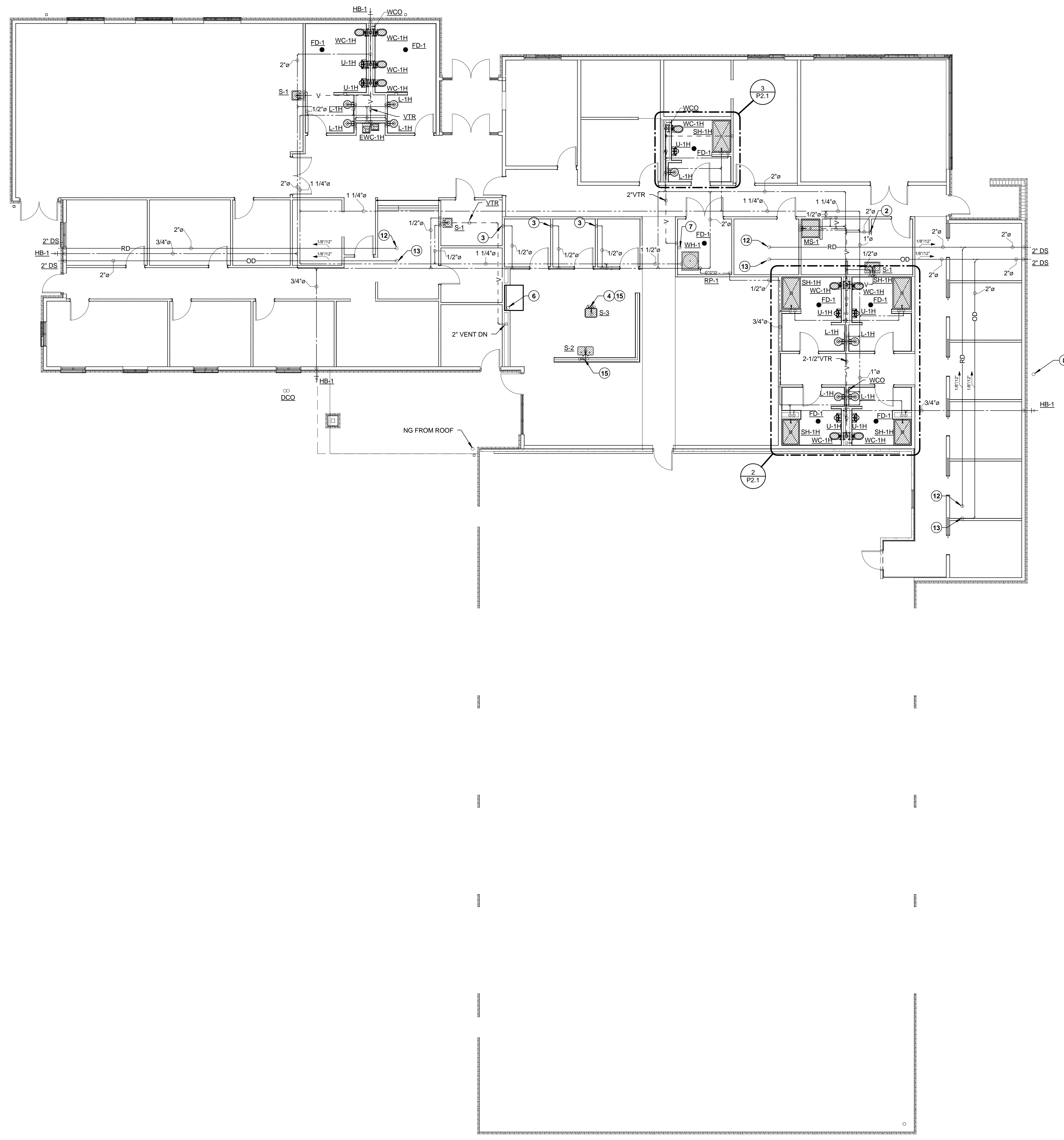


3 PART UNDERFLOOR PLUMBING PLAN - OFFICER'S TOILET
1/4" = 1'-0"



2 PART UNDERFLOOR PLUMBING PLAN - STAFF TOILETS
1/4" = 1'-0"





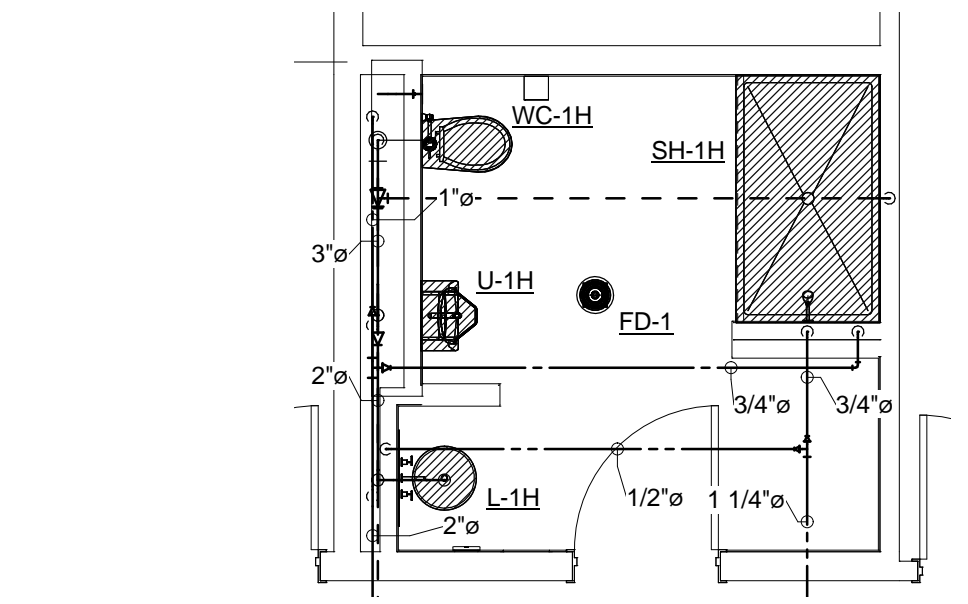
1 ABOVE FLOOR PLUMBING
1/8" = 1'-0"

NOTES BY SYMBOL "O":

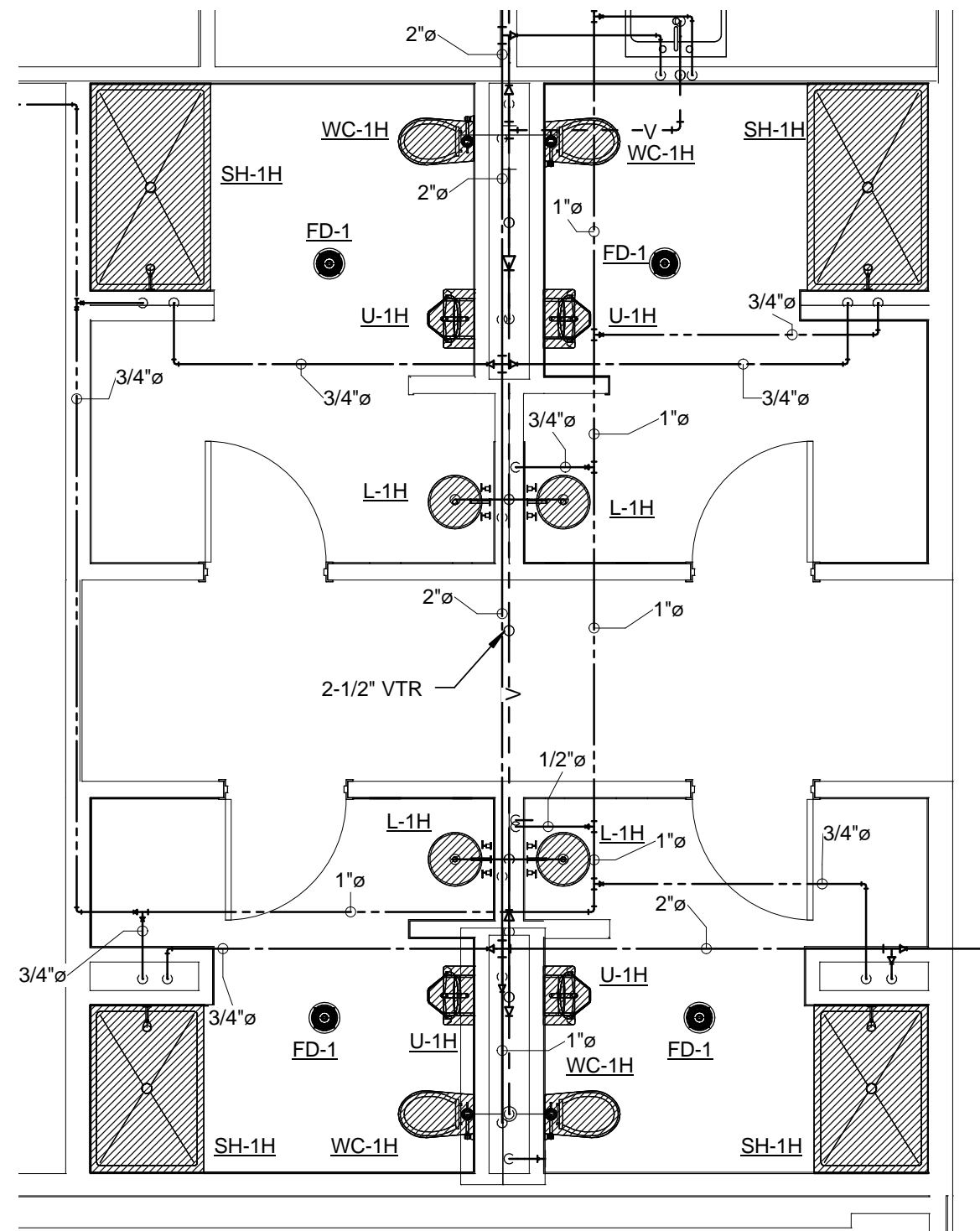
1. NOT USED.
2. 2" DOMESTIC COLD WATER DOWN.
3. PROVIDE 3/8" DCW LINE TO REFRIGERATOR WITH 1/4" TURN VALVE.
4. SINK SHALL BE VENTED BY ISLAND VENT REFER TO DETAIL.
5. 1" NATURAL GAS DOWN IN PLUMBING CHASE, SLEEVED UNDER PATIO VENTED AT STUB OUT THRU WALL PROVIDE PIPING WITH REMOVABLE CAP AND PLUG VALVE FOR GAS GRILLE.
6. NATURAL GAS DOWN TO RANGE.
7. NATURAL GAS TO WATER HEATER.
8. X" NATURAL GAS LINE FROM PROPERTY LINE TO NATURAL GAS REGULATOR FOR 5LB TO 14 OZ. CONFIRM SIZE WITH NATURAL GAS PROVIDER.
9. 2" VENT THRU ROOF.
10. 4" VENT IN WALL.
11. 3" VENT THRU ROOF.
12. 2" UP TO RD-1.
13. 2" UP TO RD-2.
14. NOT USED.
15. 1/2" DCW AND DHW UP FROM UNDER SLAB
16. 1/4" LINE TO ICE MAKER, PROVIDE 1/4" TURN VALVE IN ACCESSIBLE LOCATION FOR WATER SHUT-OFF. PROVIDE RPZ (AS REQUIRED BY LOCAL AHJ) FILTER AND WATER HAMMER ARRESTOR. LOCATE SO ACCESSIBLE FOR FUTURE TESTING ON RPZ AND FILTER MAINTENANCE.
17. 3/8" LINE TO COFFEE MAKER, PROVIDE 1/4" TURN VALVE IN ACCESSIBLE LOCATION FOR WATER SHUT-OFF. PROVIDE RPZ (AS REQUIRED BY LOCAL AHJ) AND WATER HAMMER ARRESTOR.

GENERAL NOTES:

1. REFER TO MP0.0 FOR GENERAL PLUMBING NOTES, ABBREVIATIONS, AND SYMBOLS.
2. COORDINATE ALL PIPING AND FIXTURES WITH ALL OTHER TRADES BEFORE WORK IS TO BEGIN.
3. NO EXPOSED PIPING UNLESS APPROVED BY ARCHITECT.
4. ALL SANITARY PIPING TO BE AT A 1/8" SLOPE, UNLESS NOTED OTHERWISE.
5. ALL PLUMBING ELECTRICAL DEVICES REQUIRING POWER SHALL BE COORDINATED BY THE CONTRACTOR.
6. THERE SHALL BE NO PIPING ROUTED OVER ELECTRICAL/IT ROOMS.
7. TRAP PRIMERS/TRAP GUARDS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND FLOOR SINKS EXCEPT FOR SHOWER DRAINS AND FLOOR SINK AT ICE MAKER.
8. INFRARED HEATERS ARE SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR AND CONNECTED TO THE NATURAL GAS BY THIS CONTRACTOR.

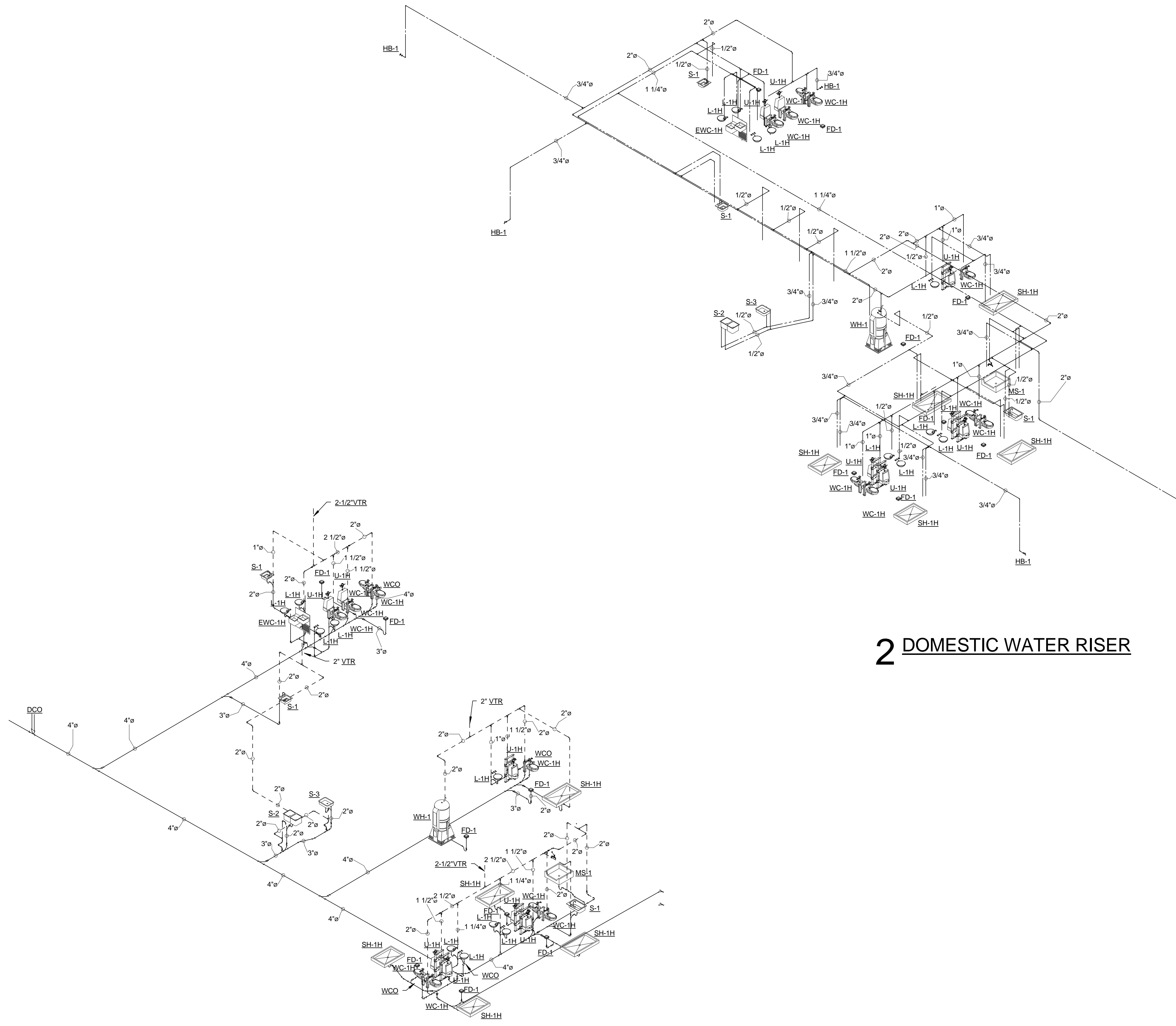


3 PART ABOVE FLOOR PLUMBING PLAN - OFFICER'S TOILET
1/4" = 1'-0"



2 PART ABOVE FLOOR PLUMBING PLAN - STAFF TOILETS
1/4" = 1'-0"





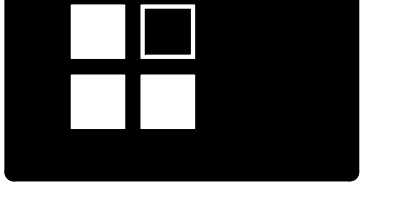
1 SANITARY SEWER RISER

2 DOMESTIC WATER RISER

Original Issue Date: 04/04/14
 Revisions:

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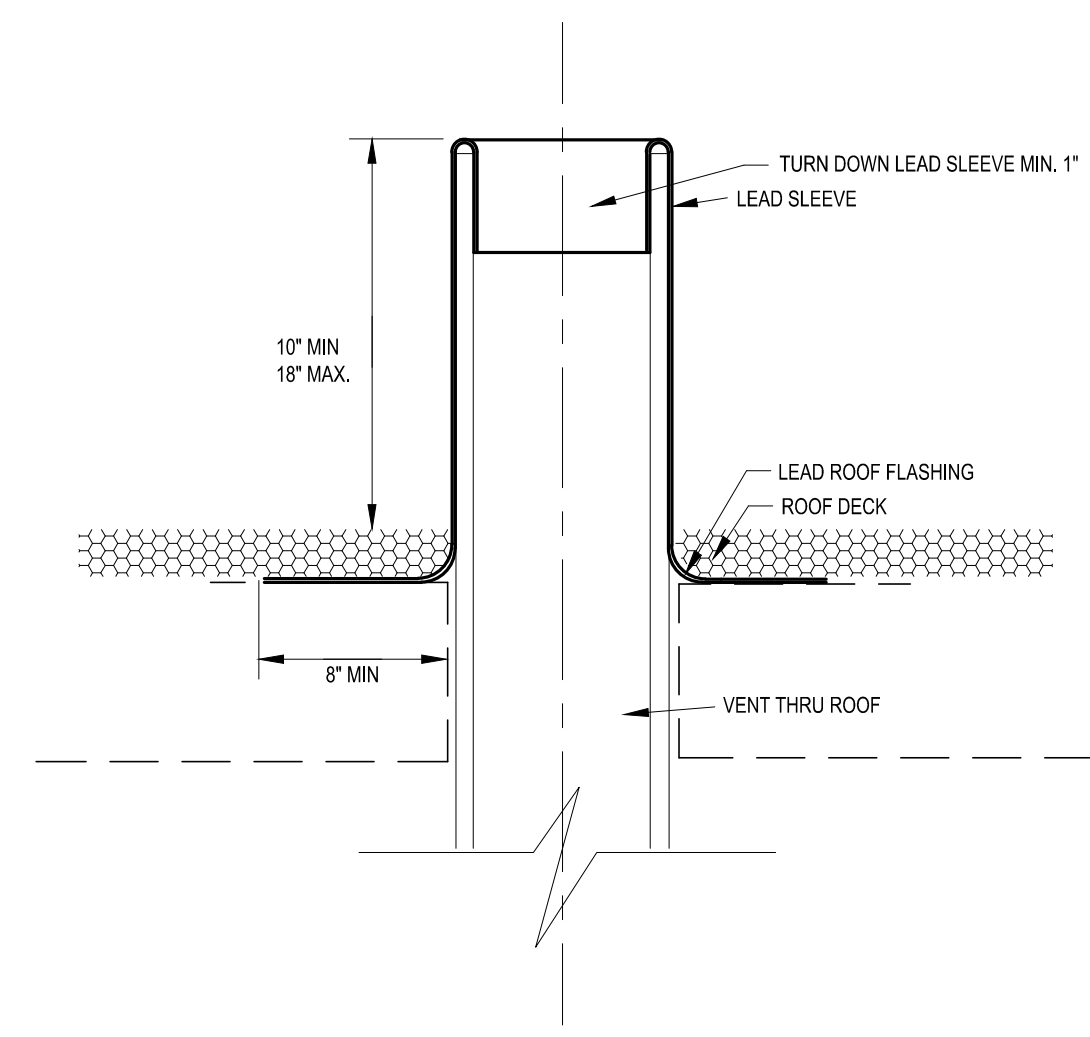


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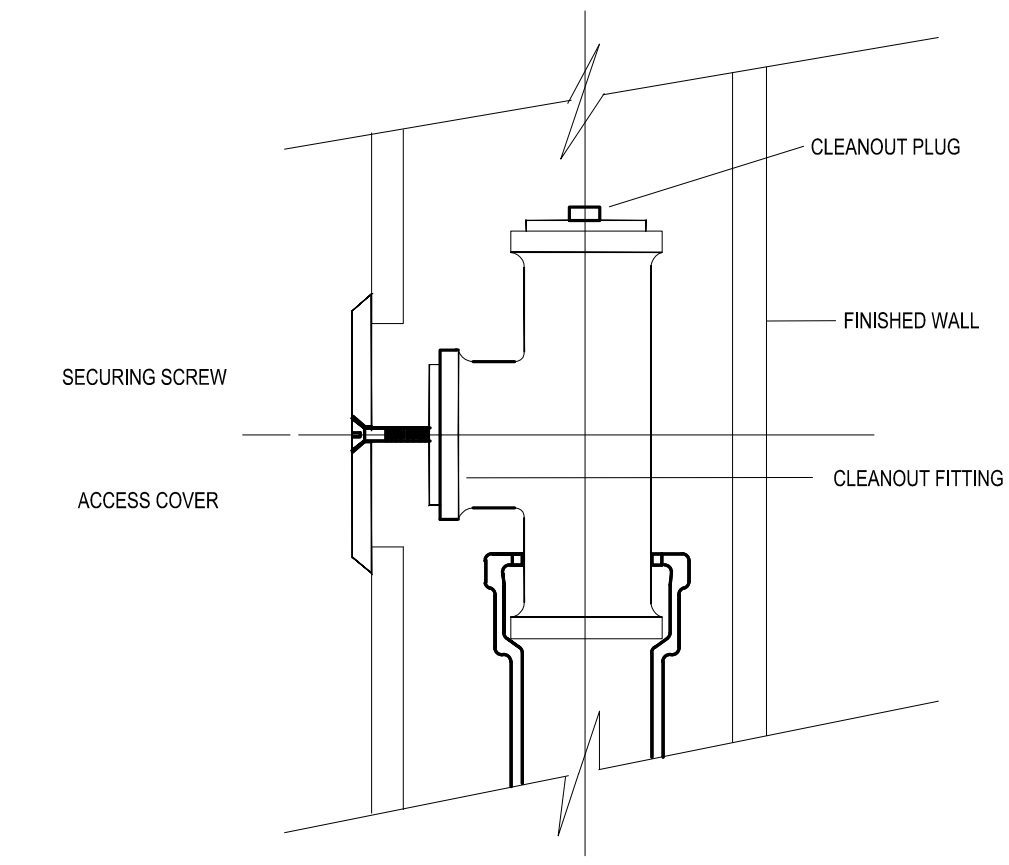
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 MICHAEL JOSEPH SMITH P.E.
 TEXAS REGISTRATION NO. 16743
 DATE: 04 APRIL 2014

Job No.
1215

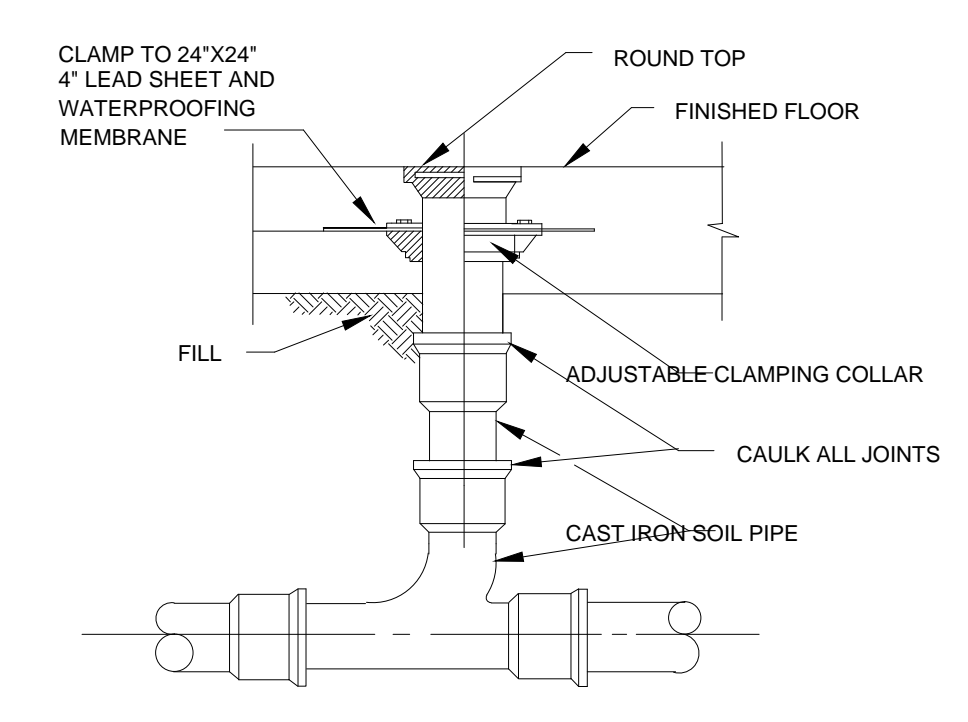
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P4.1
 SANITARY SEWER /
 DOMESTIC RISERS



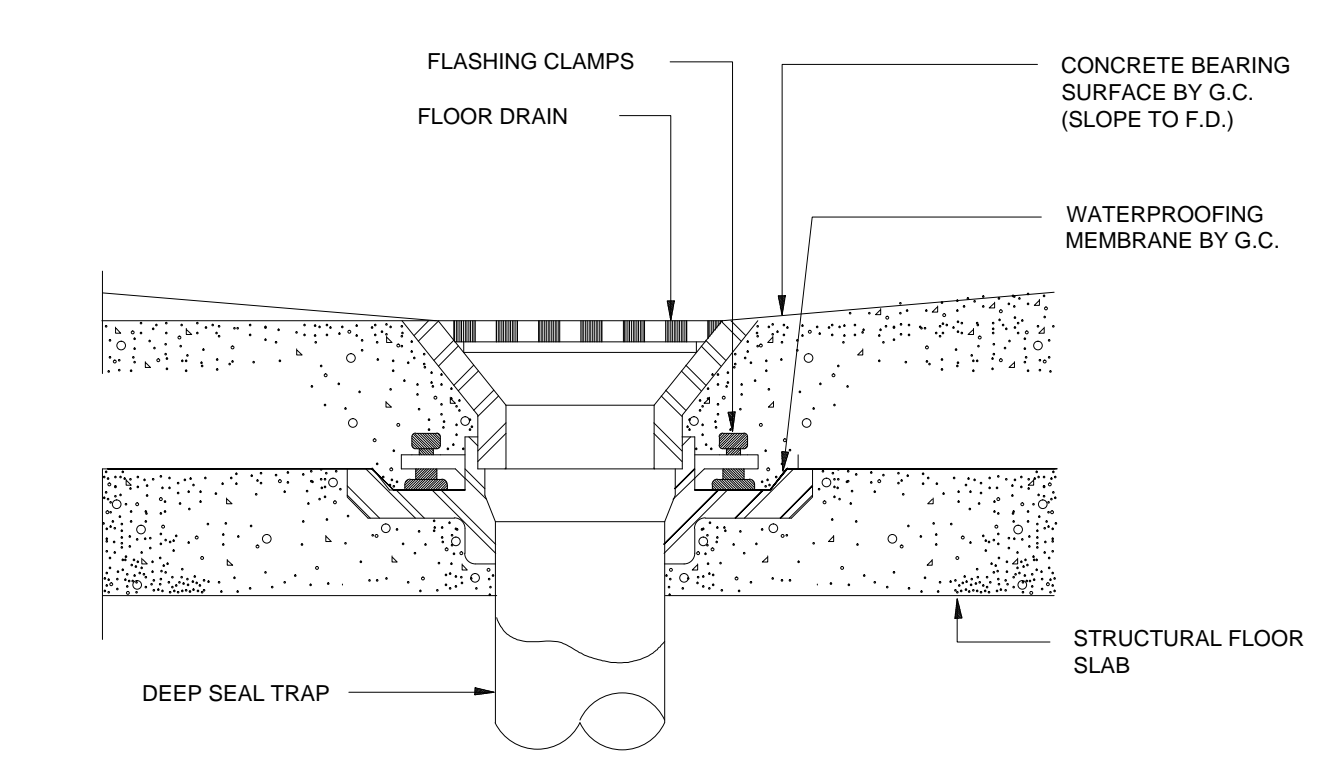
04 VENT THROUGH ROOF DETAIL
NOT TO SCALE



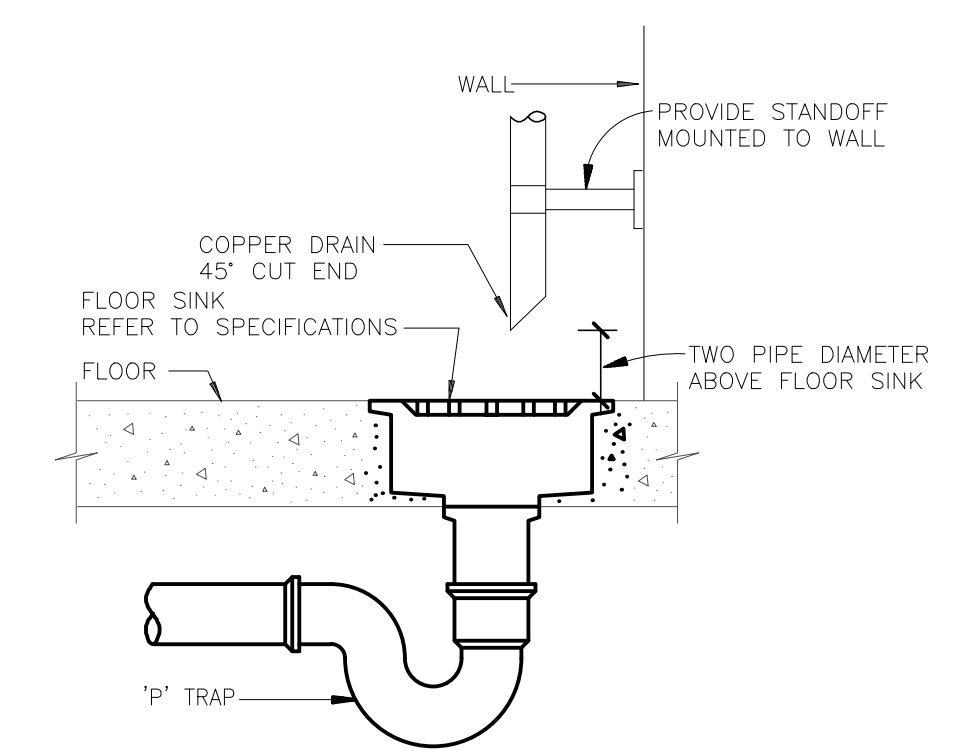
03 WALL CLEANOUT DETAIL
NOT TO SCALE



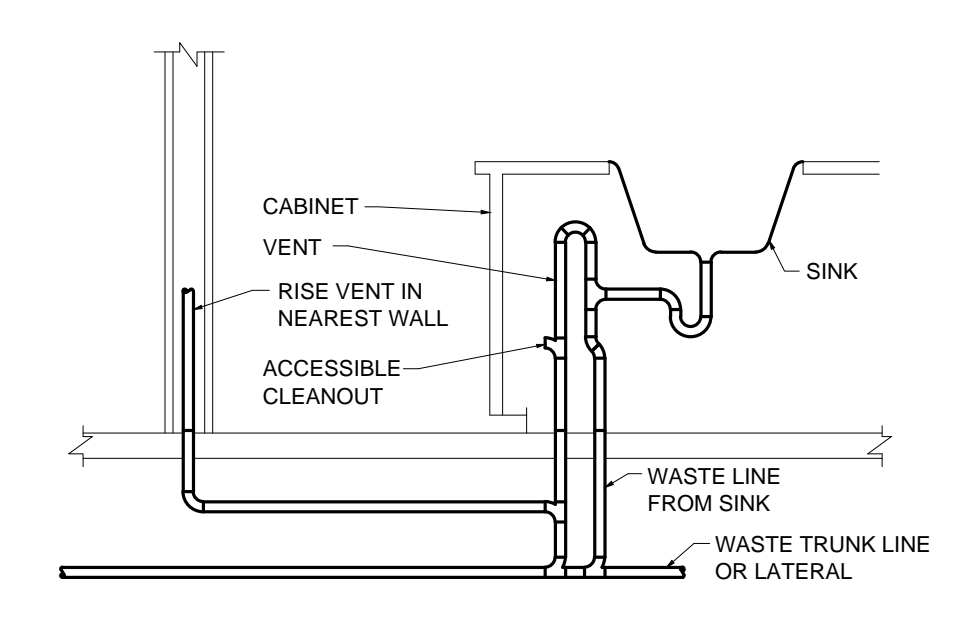
02 FLOOR CLEAN-OUT DETAIL
NOT TO SCALE



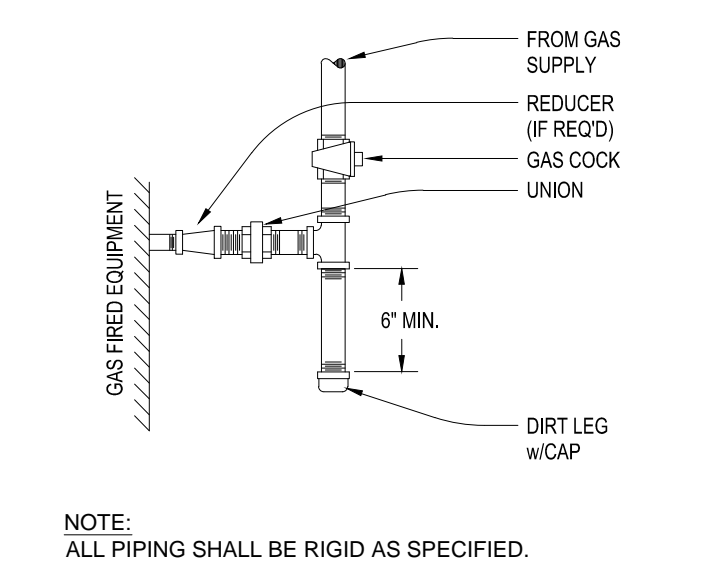
01 FLOOR DRAIN INSTALLATION DETAIL
NOT TO SCALE



08 INDIRECT WASTE DETAIL
NOT TO SCALE



07 ISLAND VENT DETAIL
NOT TO SCALE



06 TYPICAL GAS PIPING CONNECTION DETAIL
NOT TO SCALE

NOTE: ALL PIPING SHALL BE RIGID AS SPECIFIED.

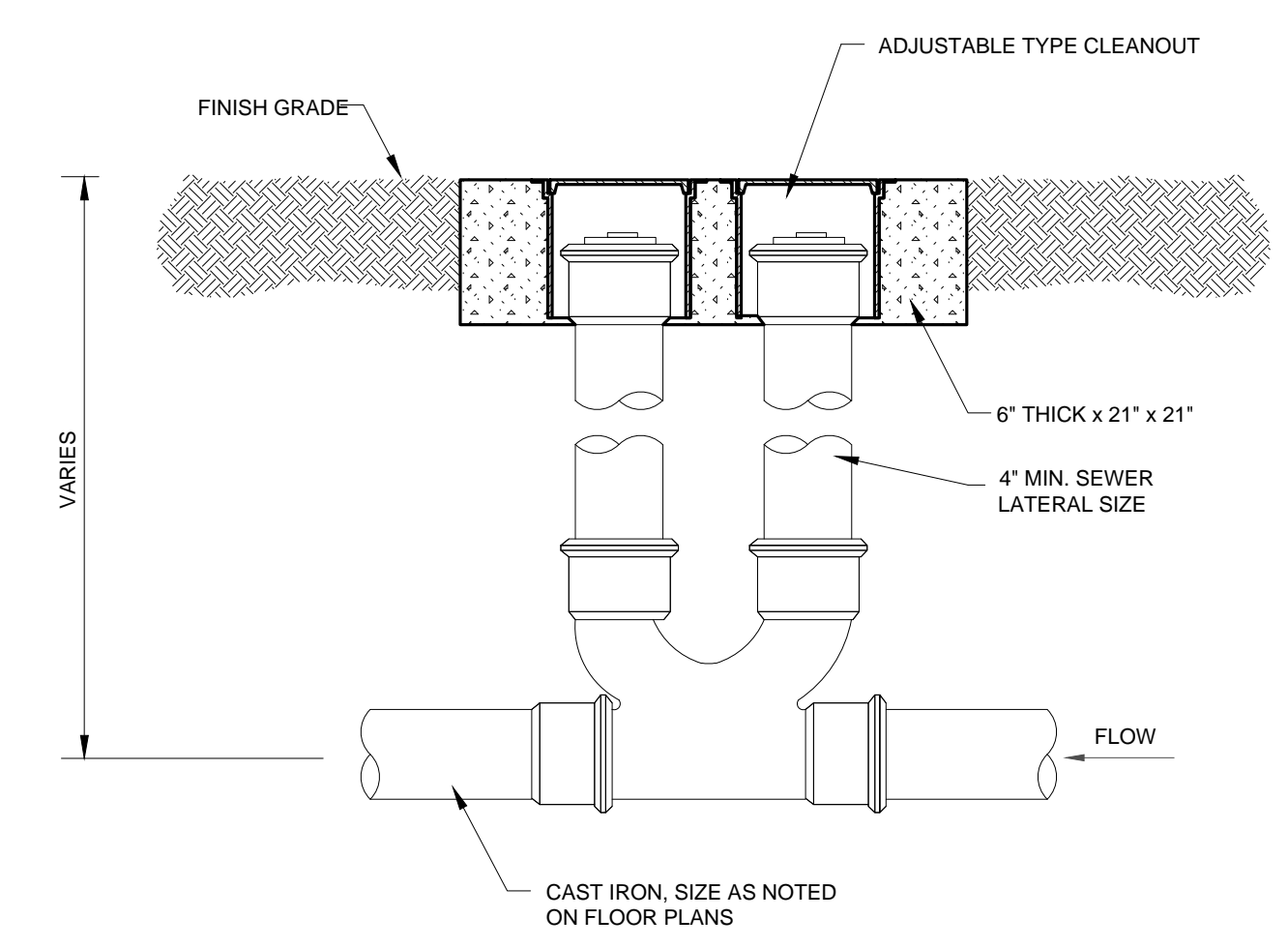
INSTALL PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS.

HOT OR COLD WATER SUPPLY LONG PROVIDE ONE WHA AT END OF LINE. IF BRANCH IS GREATER THAN 20' LONG, PROVIDE ANOTHER WHA IN MIDDLE. EACH SIZED FOR HALF THE FIXTURE UNITS.

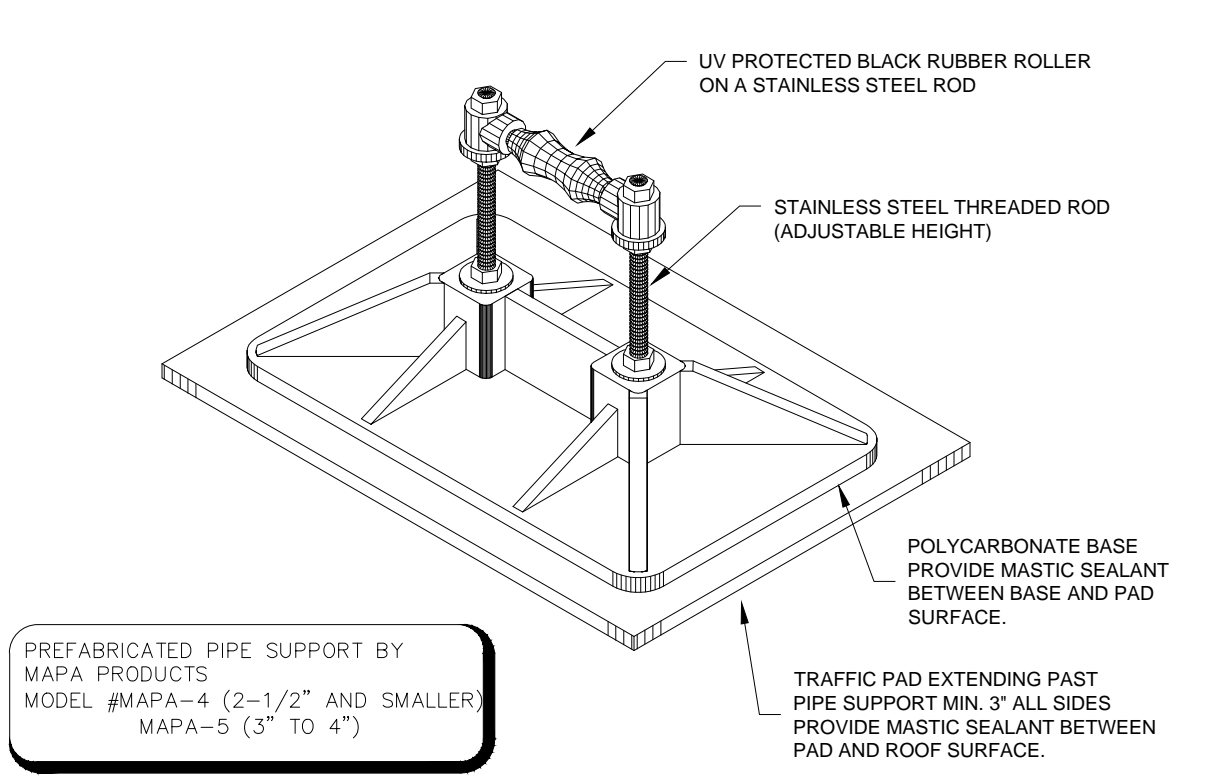
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD	FIXTURE UNIT TABULATION	
			COLD	HOT
A	1/2"	1-11	10	--
B	3/4"	12-32	5	--
C	1"	33-60	5	--
D	1-1/4"	61-113	1.5	1.5
E	1-1/2"	114-154	3	3
F	2"	154-330	2	2

PC TO PROVIDE WATER HAMMER ARRESTERS BY SOUX CHEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #103 AND ANSI #412.26 1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

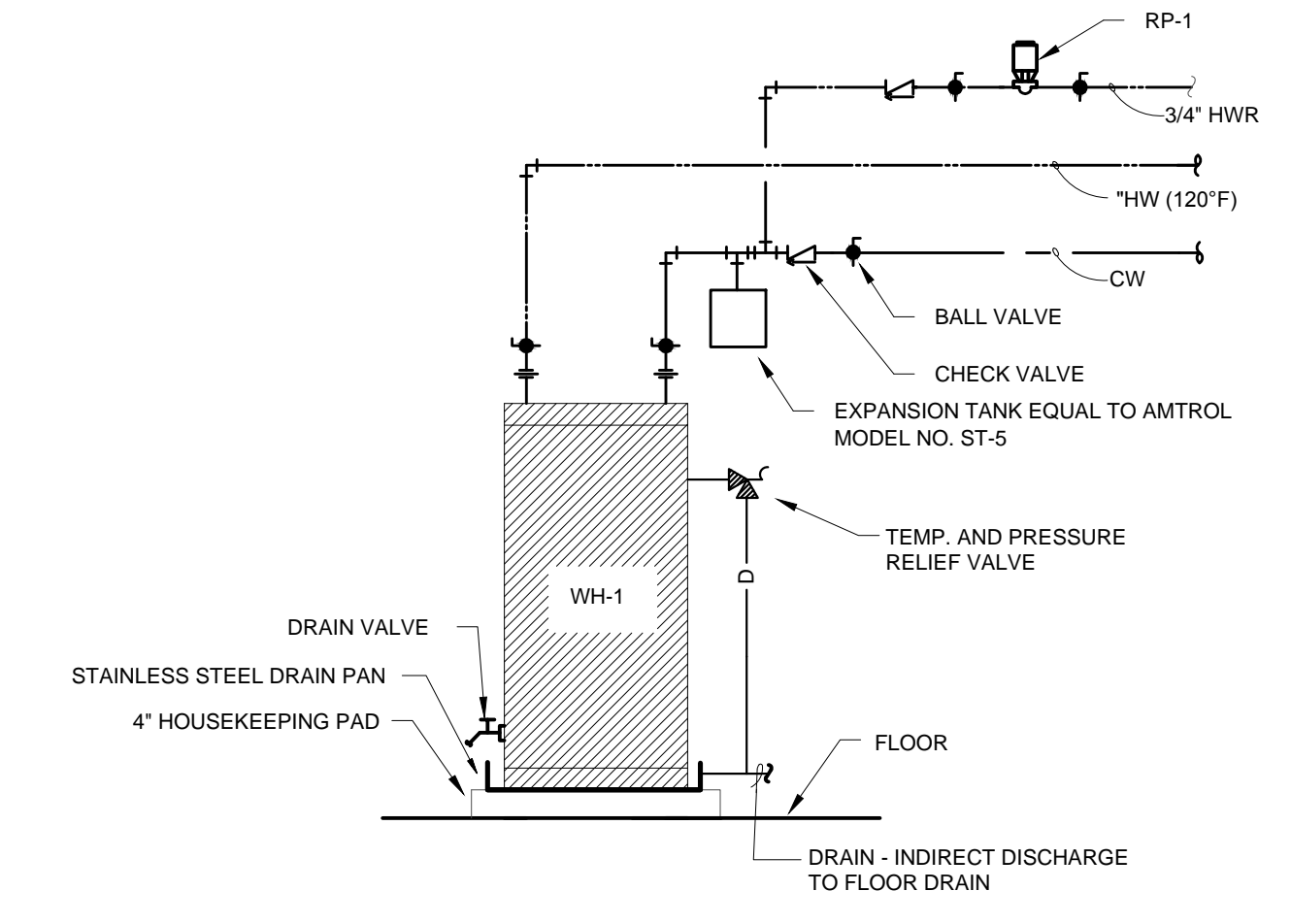
05 WATER HAMMER ARRESTOR DETAIL
NOT TO SCALE



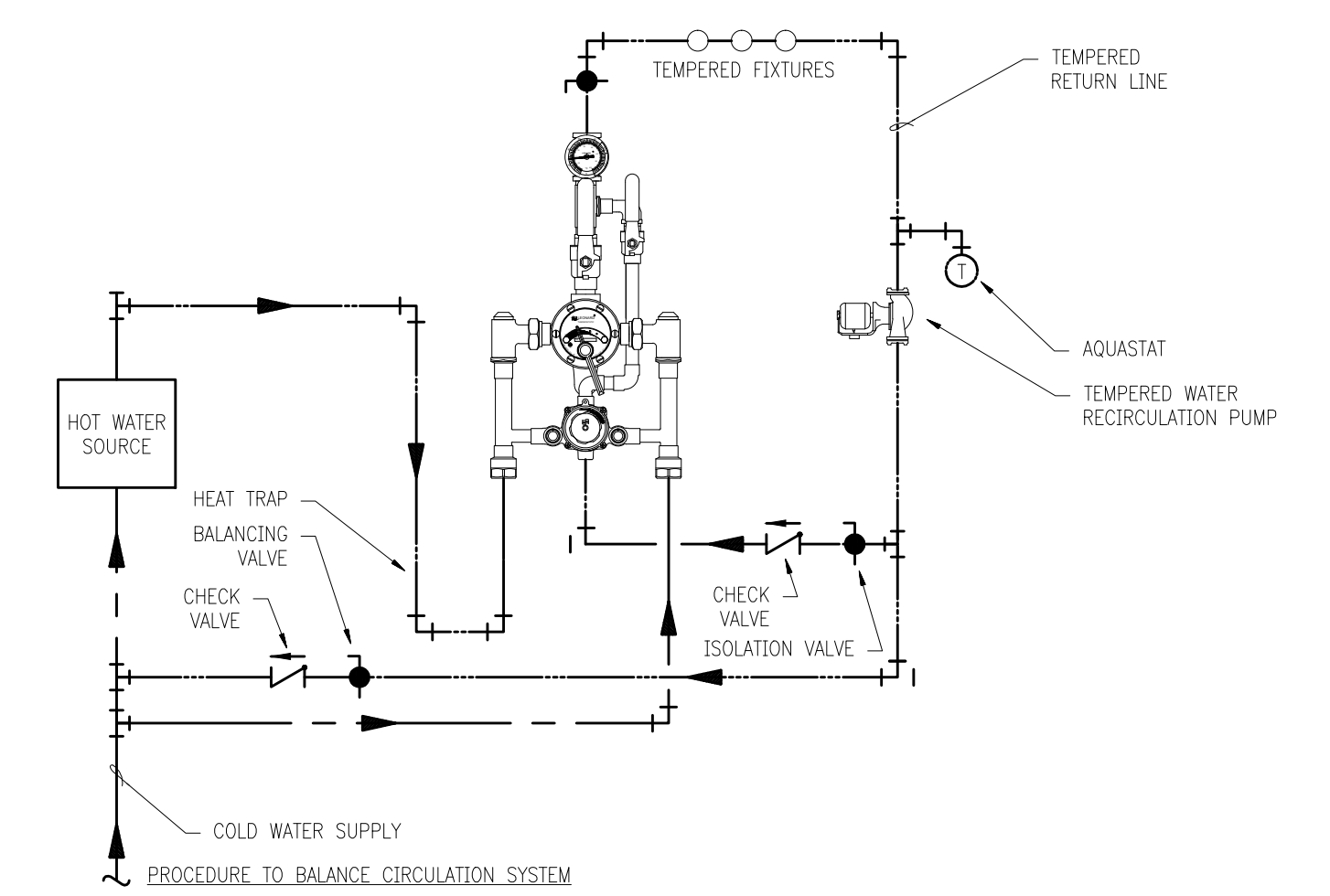
12 EXTERIOR TWO-WAY CLEANOUT DETAIL
NOT TO SCALE



11 ROOF PIPE SUPPORT DETAIL
NOT TO SCALE



10 WATER HEATER DETAIL
NOT TO SCALE



09 MIXING VALVE PIPING DIAGRAM
NOT TO SCALE

- PROCEDURE TO BALANCE CIRCULATION SYSTEM
1. MAKE SURE NO WATER IS BEING DRAWN IN THE BUILDING. OPEN BALANCING VALVE APPROX. HALF WAY AND START CIRCULATOR.
 2. OBSERVE TEMPERATURE UNTIL IT STABILIZES.
 3. CLOSE BALANCING VALVE SLIGHTLY IF TEMPERATURE IS TOO HOT, OR OPEN IT SLIGHTLY IF TEMPERATURE IS TOO COLD AND ALLOW TEMPERATURE TO STABILIZE. REPEAT UNTIL DESIRED CIRCULATION TEMPERATURE IS SET.

NOTES BY SYMBOL "O":

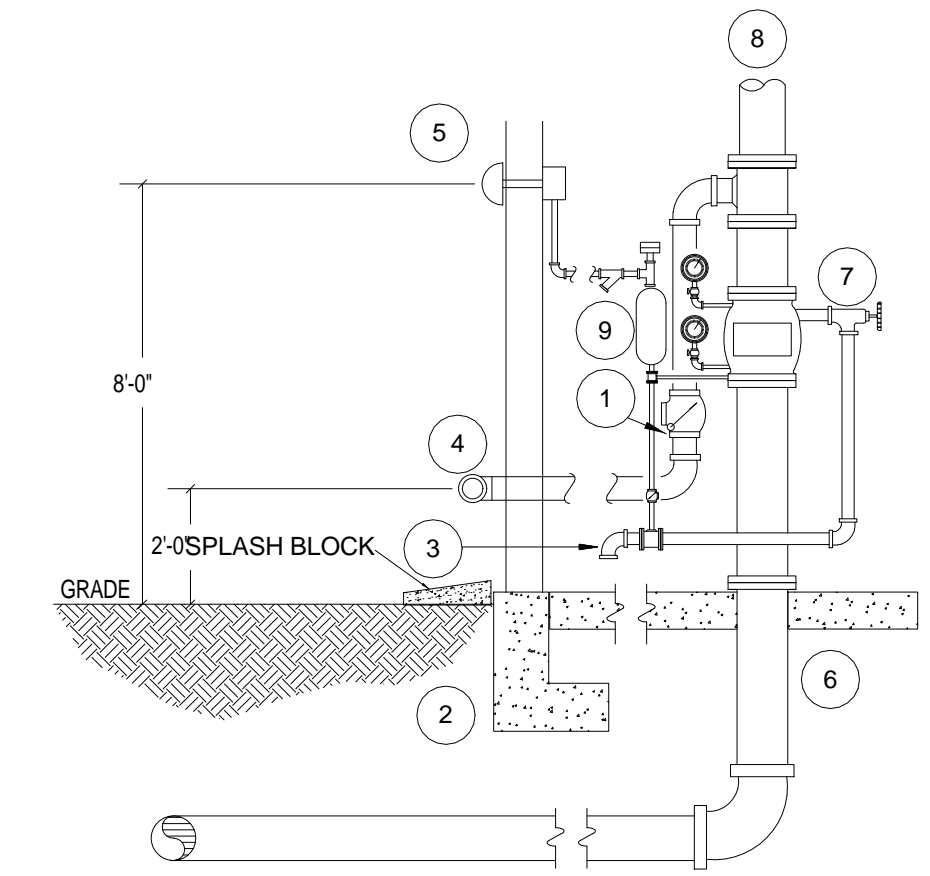
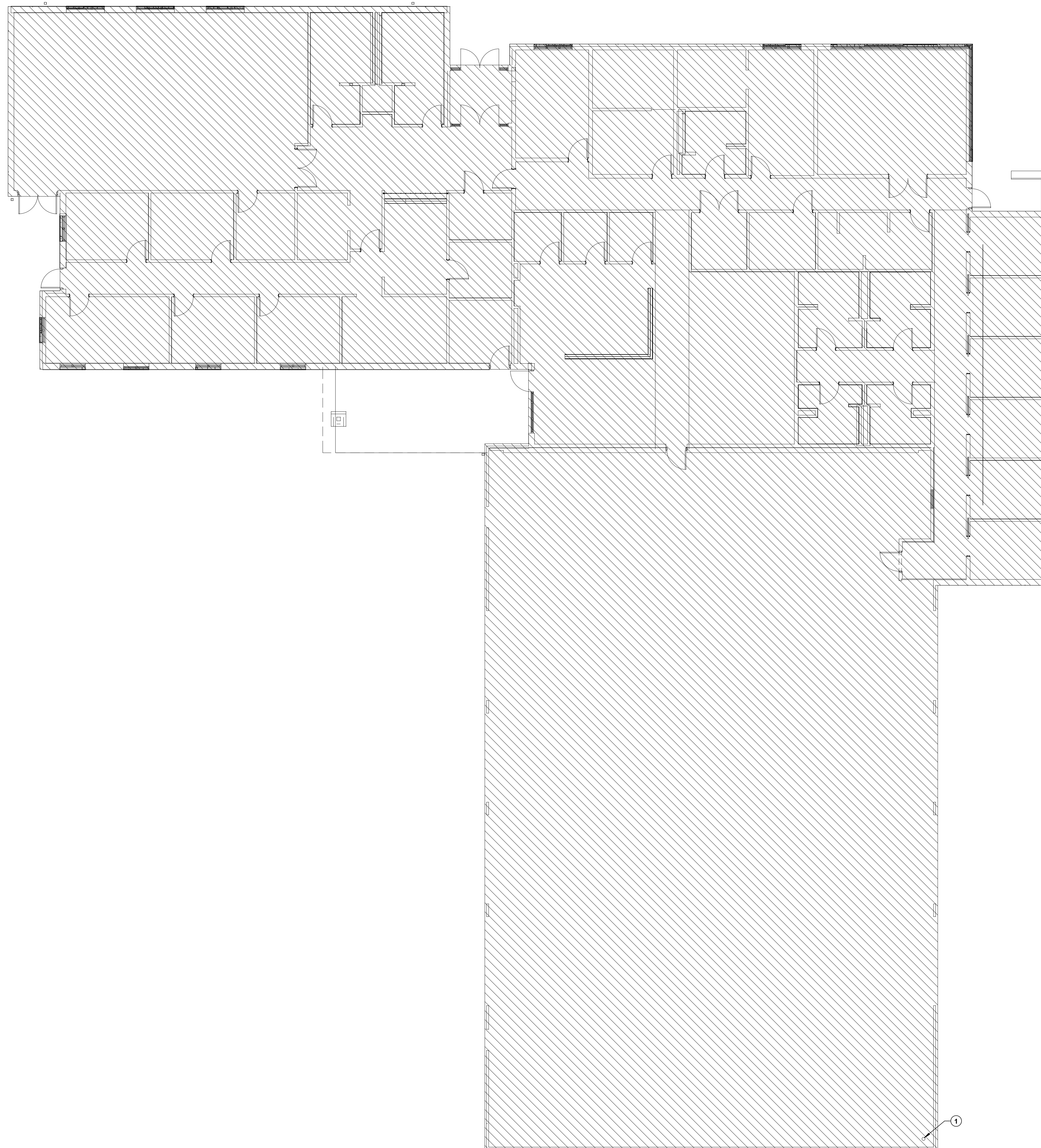
- EXISTING FIRE RISER, CONTRACTOR TO VERIFY FLOW AND PRESSURE PRIOR TO DESIGNING SYSTEM.

LEGEND

 FIRE PROTECTION AREA

GENERAL NOTES:

- REFER TO MPO.0 FOR GENERAL PLUMBING NOTES, ABBREVIATIONS AND SYMBOLS.
- FIRE PROTECTION CONTRACTOR SHALL PROVIDE WET PIPE SPRINKLER AND STAND PIPE SYSTEM FOR THE AREA OF WORK IN ACCORDANCE WITH NFPA 13, NFPA 14 AND CITY OF LUCAS FIRE REQUIREMENTS. FIRE SPRINKLER SYSTEM IS TO BE PERMITTED BY FIRE MARSHAL. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DISCIPLINES TO ENSURE THAT A COMPLETELY COORDINATED INSTALLATION IS ACHIEVED. THESE PLANS SERVE AS A GENERAL GUIDE ONLY AND DO NOT REPRESENT ACTUAL BID DOCUMENTS.
- PROVIDE WET PIPE SPRINKLER PROTECTION WITH 0.10 GPM PER SQUARE FOOT DENSITY OVER MOST LIGHT 1500 SQUARE FOOT OR THE ENCLOSED AREA PER NFPA 13. LIGHT HAZARD SPRINKLER SPACING, 165°F TEMPERATURE RATING, FOR ALL AREAS EXCEPT MECHANICAL ROOM.
- THE FIRE SPRINKLER PIPING SHOWN IS INTENDED TO INDICATE THE LOCATION OF MAIN SUPPLY PIPING AND STANDPIPES, AS WELL AS THE AREAS INTENDED FOR FIRE SPRINKLERS. THE INCLUSION OF THIS INFORMATION SHALL IN NO WAY DIMINISH THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FULLY DESIGNED, SIZED AND INSTALLED FIRE SPRINKLER SYSTEM, AS REQUIRED BY THE PROJECT SPECIFICATIONS AND THE LAWS OF THE STATE OF TEXAS.
- FIRE SPRINKLER SHOP DRAWINGS SHALL BE COORDINATED WITH ALL TRADES AND EXISTING CONDITIONS PRIOR TO SUBMISSION TO FIRE MARSHAL.
- FIRE PROTECTION DESIGN AND NOMENCLATURE SHALL MATCH EXISTING CITY OF LUCAS FACILITY STANDARDS.
- THE OWNER AND FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONNECTIONS TO THE EXISTING FIRE SYSTEM.



ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	CHECK VALVE	6	EXISTING RISER TO SPRINKLER SYSTEM
2	UNDERGROUND FIRE MAIN	7	WET PIPE ALARM VALVE
3	MAIN ALARM VALVE DRAIN	8	SYSTEM PIPING
4	FIRE DEPARTMENT CONNECTION	9	RETARD CHAMBER
5	WATER MOTOR GONG		

2 FIRE PROTECTION RISER
1/8" = 1'-0"

1 FIRST FLOOR - FIRE PROTECTION PLAN
1/8" = 1'-0"



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MICHAEL JOSEPH SMITH P.E.
TEXAS REGISTRATION NUMBER
DATE: 04 APRIL 2014

Job No.
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Sheet No.
FP2.1
FIRE PROTECTION
PLAN