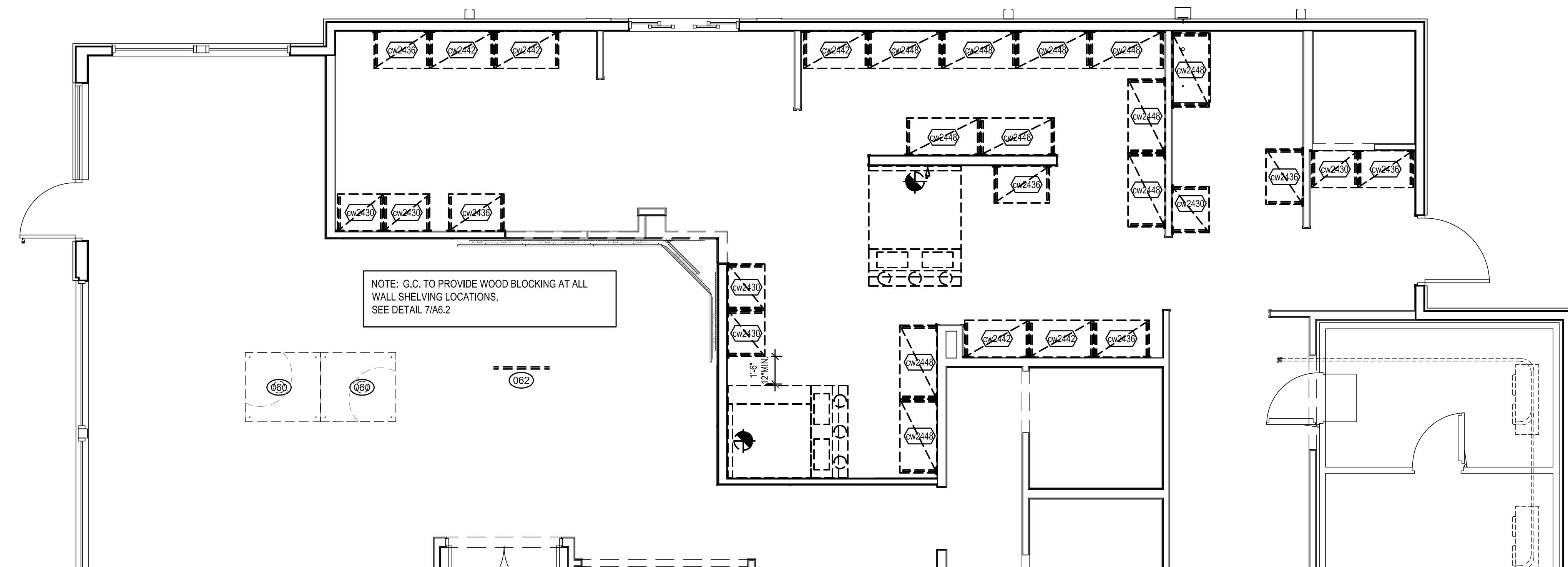


1 EQUIPMENT PLAN
F1 SCALE: 1/4" = 1'-0"



NOTE: G.C. TO PROVIDE WOOD BLOCKING AT ALL WALL SHELVING LOCATIONS. SEE DETAIL 7/A6.2

2 WALL MOUNTED SHELVING PLAN
F1 SCALE: 1/4" = 1'-0"

NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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ISSUE DATE: 12/31/21
REVISION DATE:
12/31/21 ORIGINAL ISSUE

EQUIPMENT
PLANS

SHEET NUMBER:

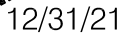
F1

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EQUIPMENT BY OWNER																
Quantity	NO.	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	PHASE	VOL	PLUG	DIRECT	PLUMBING	HOT	COLD	DRAIN	GAS CONN.	BTU	REMARKS
1	162	DRINK HEAD W/ICE DISPENSER	CONE	FREESTYLE	120V	-	-	NEMA						3/4"		SEE NOTE #3
1	163	LOBBY TEA DISPENSER	GOLD PEAK	TEA DISPENSER	120V	-	-	NEMA								SEE NOTE #3
1	210	DT COUNTER MOUNTED	CONE	QUOTE	120V	-	0.90KW	NEMA						3/4"		SEE NOTE #3
1	311	DT TEA DISPENSER	GOLD PEAK	SPACE SAVER TEA DISPENSER	120V	-	1.170KW	NEMA								SEE NOTE #3
1	407	CHAIN BROILER HOOD	CAPTIVE-ARE	QUOTE												SEE NOTE #7 & 8 MM SHEETS
2	408	FRT HOOD	CAPTIVE-ARE	QUOTE												SEE NOTE #7 & 8 MM SHEETS
1	500	OPTIONAL COFFEE MAKER	BUNN	VERIFY	120/208	-	3.00KW	NEMA					3/8"			SEE NOTE #3
1	510	BAG-IN-BOX	LUNCER	VERIFY												SEE NOTE #3
2	511	CAPSONATOR & SHELF	LUNCER	VERIFY	120V	-	0.35KW	NEMA								SEE NOTE #3
1	512	BULK CO2 TANK	NUCO2	MIXER-450												
1	513	BULK CO2 EXTENDER PORT	NUCO2	VERIFY												
				PART OF COOKING OIL RECYCLING PACKAGE												SEE NOTE #11
1	521	EXTERNAL OIL RECYCLING PORT			110V	-	1.76KW	NEMA								SEE NOTE #11, H&S
1	523	COOKING OIL RECYCLING PORT LOCKER	MAHONEY ENVIRONMENTAL	LOCK LOCKER												SEE OPERATIONS CONSULTANT
1	524	OPTIONAL COOKING OIL RECYCLING TANK	MAHONEY ENVIRONMENTAL	DC2004	110V	-	1.76KW	NEMA								SEE NOTE #11, H&S, PIPED FROM FRYER TO TANK
1	570	OFFICE DESK & CHAIR	BY OWNER													SEE NOTE #1
1	571	SAFE	ROLLAND	BWS 3029 FL												
1	572	2 DRAWER FILE CABINET	BY OWNER													
1	573	ELECTRONIC VAGUARDIAN CABINET	TRIP LIFE	SRV1550 W/ 10 CASH-SHELF VU10												
1	574	EMPLOYEE LOCKER	WIND-HILL	W6-46												
3	575	FIRE EXTINGUISHER CABINET	BY OWNER	CLASS ABC												VERIFY TYPE & LOCATION WITH FIRE MARSHAL
4	577	RECIPE TABLET W/ WALL MOUNT	BY OWNER	1/2" MIN. SCREEN SIZE W/ UNIVERSAL ARTICULATING WALL MOUNT						USB						SEE OPERATIONS CONSULTANT
1	578	LAPTOP PC & COLOR PRINTER	BY OWNER		120V	-	-	NEMA								SEE OPERATIONS CONSULTANT
VERIFY	760	PATIO TABLE	WUWSAU (ALTERNATE)	INGROUND OR SURFACE MOUNT												SEE NOTE #9
VERIFY	763	PATIO CHAIR	WUWSAU (ALTERNATE)	LORNA 2027												SEE NOTE #9
VERIFY	764	PATIO BENCH	WUWSAU (ALTERNATE)	LORNA 2028												SEE NOTE #9
4	800	CASH REGISTER	PAR BRINK	-	120V	-	-	NEMA								
4	811	CASH DRAWER	PAR BRINK	-												
3	802	CREDIT CARD CARD READER	PAR BRINK	VERIFONE 10030	120V	-	0.28KW	NEMA								
5	810	RECEIPT MONITOR	PAR BRINK	-	120V	-	-	NEMA								
6	820	KITCHEN MONITORS	PAR BRINK	MEWSONIC VAG2555SM	120V	-	0.02KW	NEMA								
1	821	21" KITCHEN MONITOR	PAR BRINK	-	120V	-	-	NEMA								CEILING MOUNT KIT PROVIDED BY VENDOR, INSTALLED BY G.C.
1	822	DT TIMER	HYPERACTIVE	Q-TIMER	120V	-	0.10KW	NEMA								
1	823	OPTIONAL GAMIFICATION MONITOR	-	-	120V	-	0.10KW	NEMA								
1	830	HEADSET BASE STATION	HME	ION-91	120V	-	0.10KW	NEMA								
2	831	DT LOOP	HME	WIRELESS-10												
1	840	CHARGE DISPENSER	PAR BRINK	TELEQUIP, TFLX6	120V	-	0.19KW	NEMA								

* FRANCHISEE HAS OPTION TO CHOOSE A BULK CO2 SYSTEM FROM "NUCO2". SEE ADQ NATIONAL VENDORS LIST FOR CONTACT INFORMATION. VERIFY LOCAL CODES FOR INSTALLATION REQUIREMENTS.

* AN AIR COOLED REMOTE ICE MAKER (PART OF EQUIPMENT PACKAGE) AT THE LOBBY DRINK HEAD IS ONLY ALLOWED IF DRINKS COUNTER IS LOCATED ON A FULL HEIGHT WALL.



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3

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EQUIPMENT

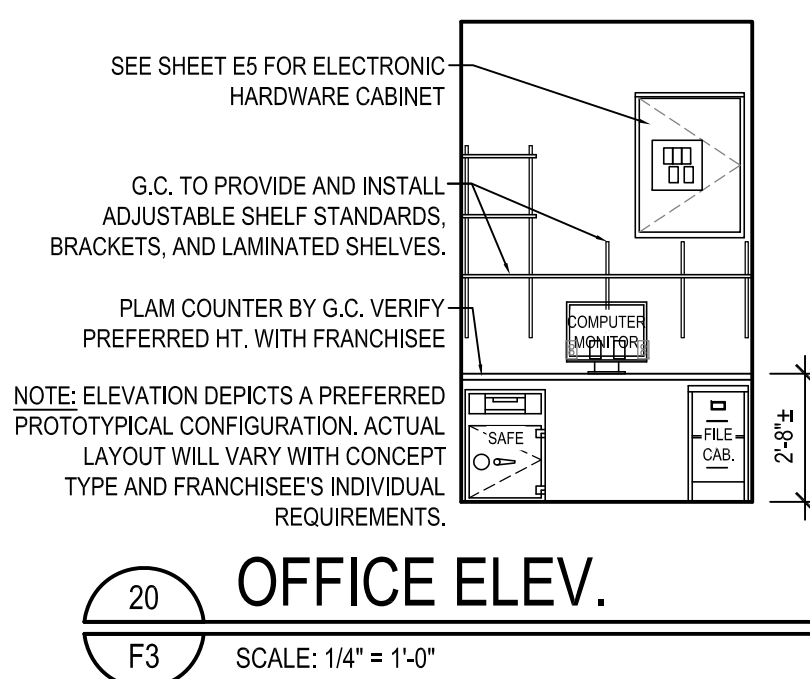
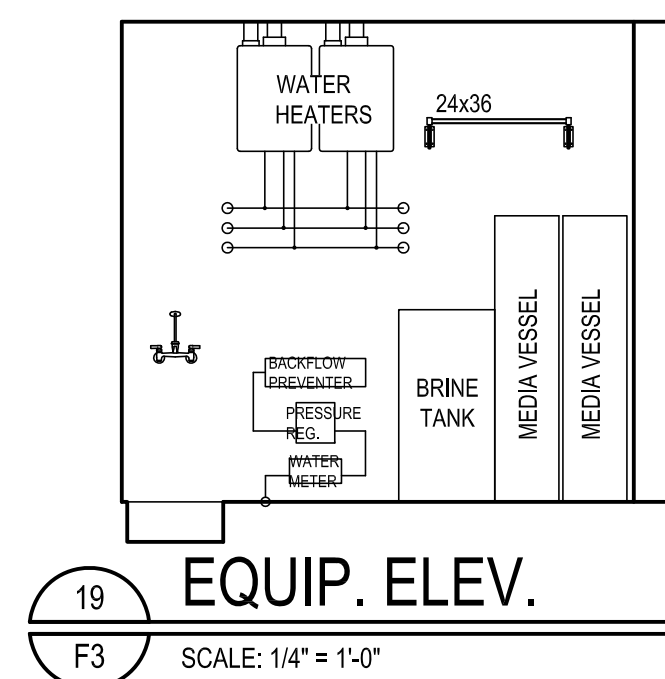
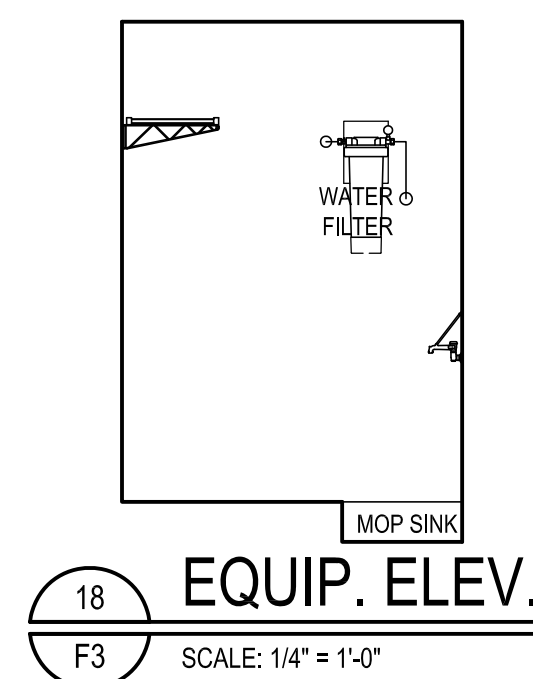
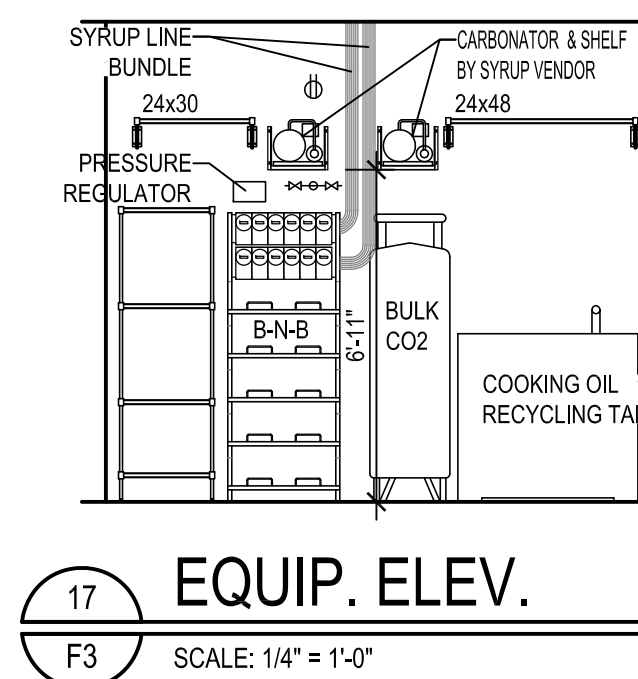
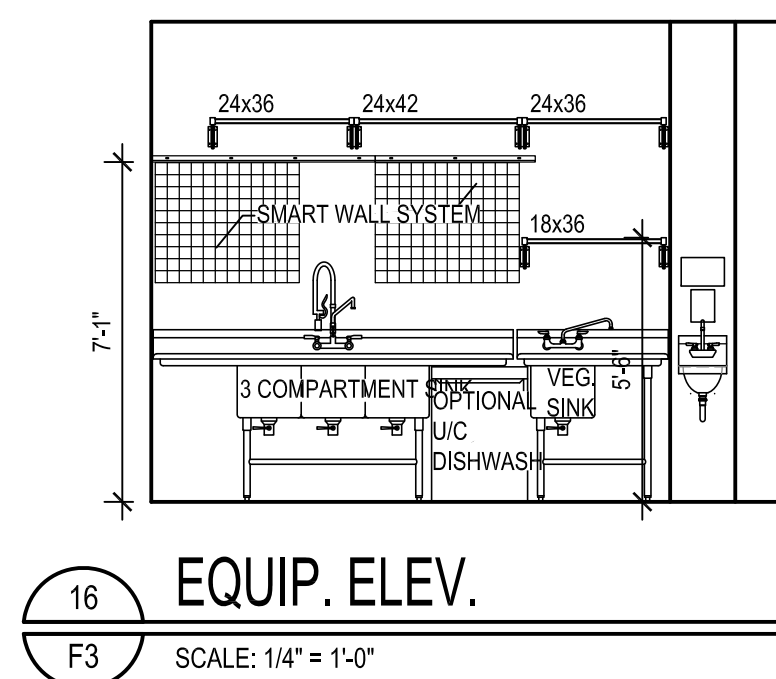
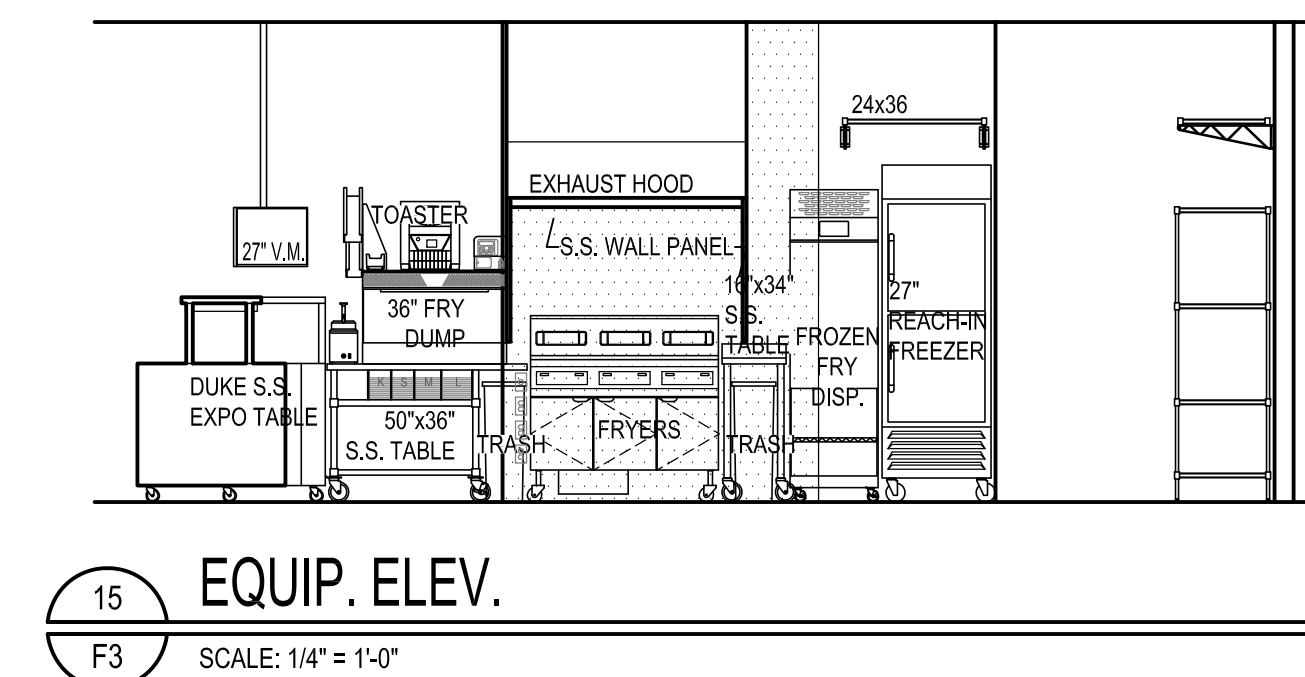
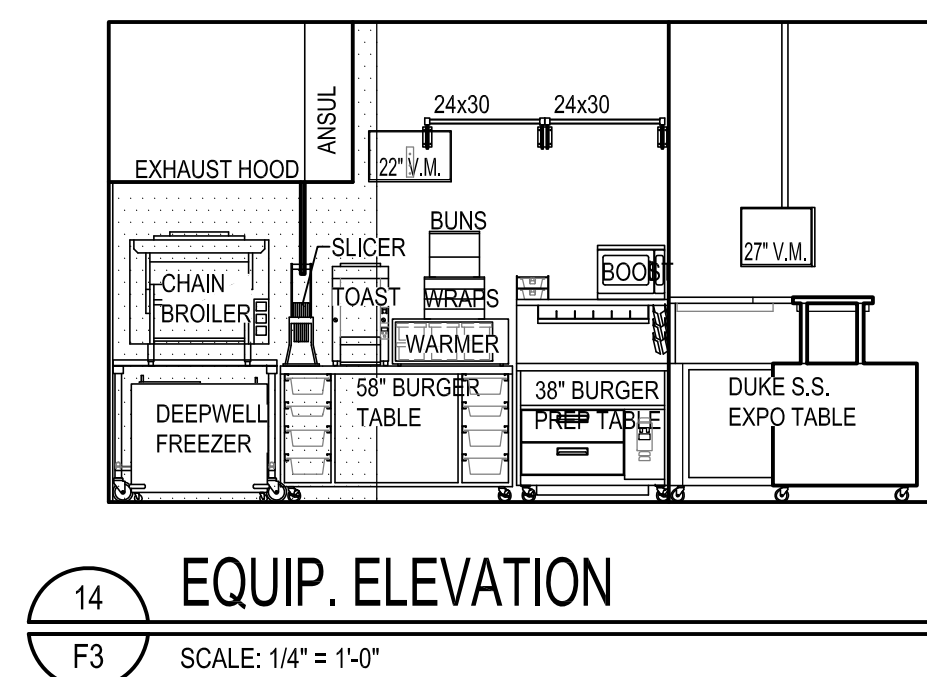
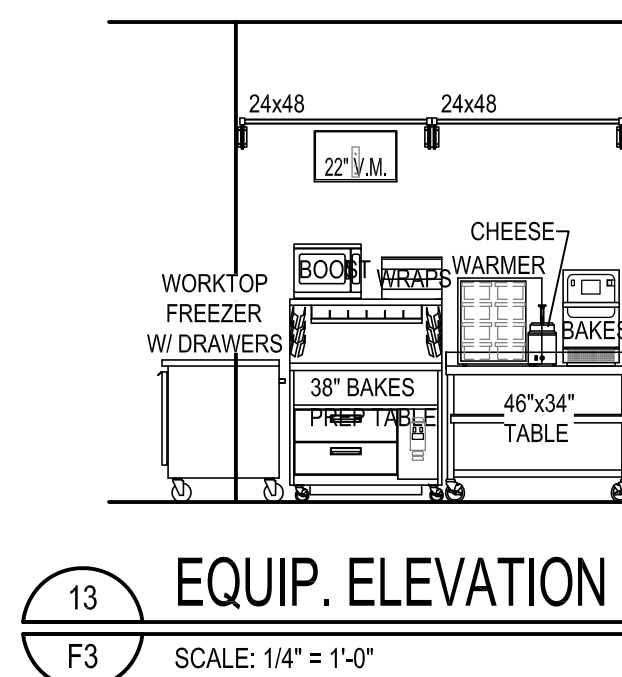
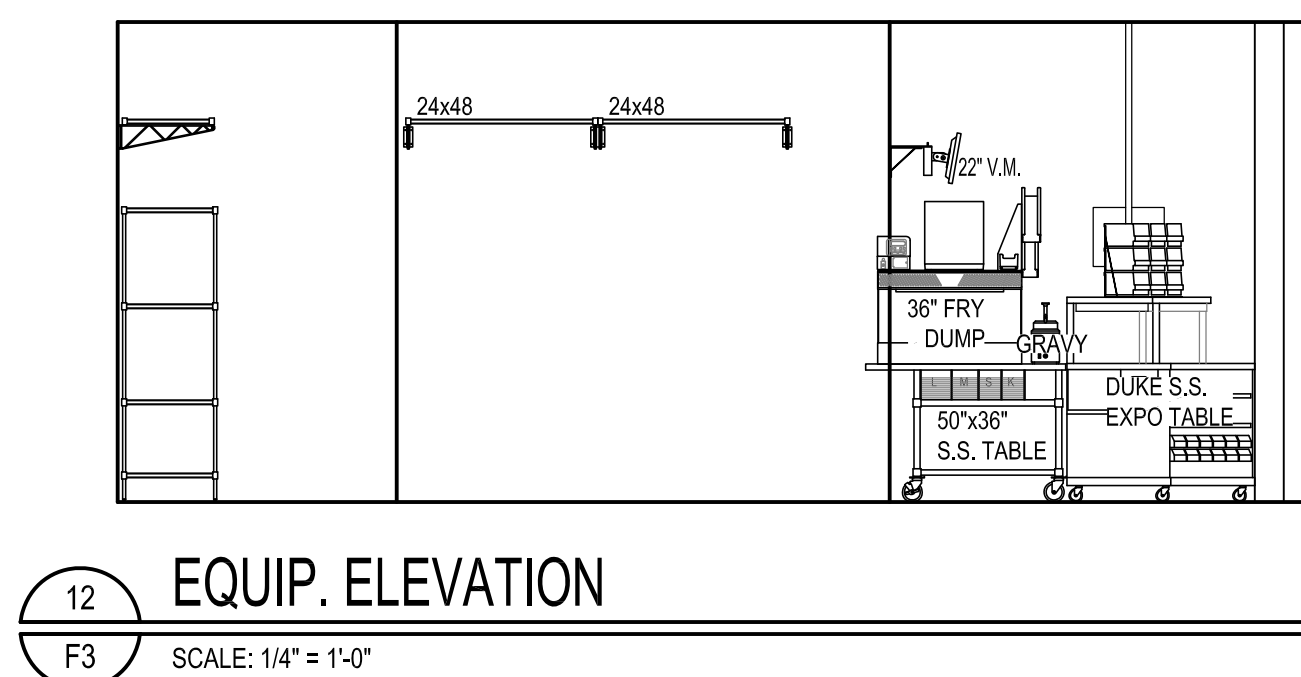
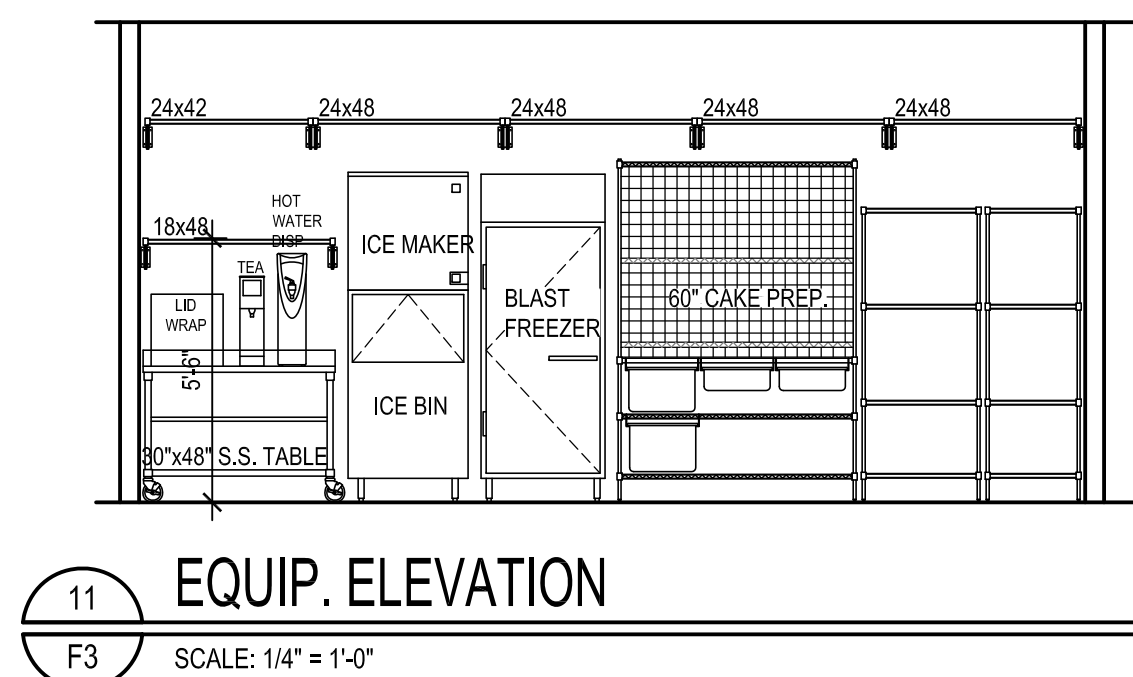
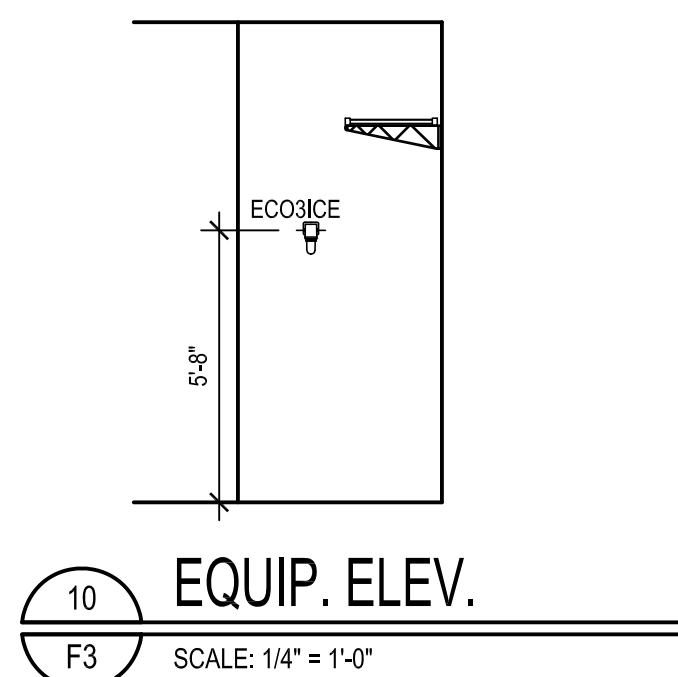
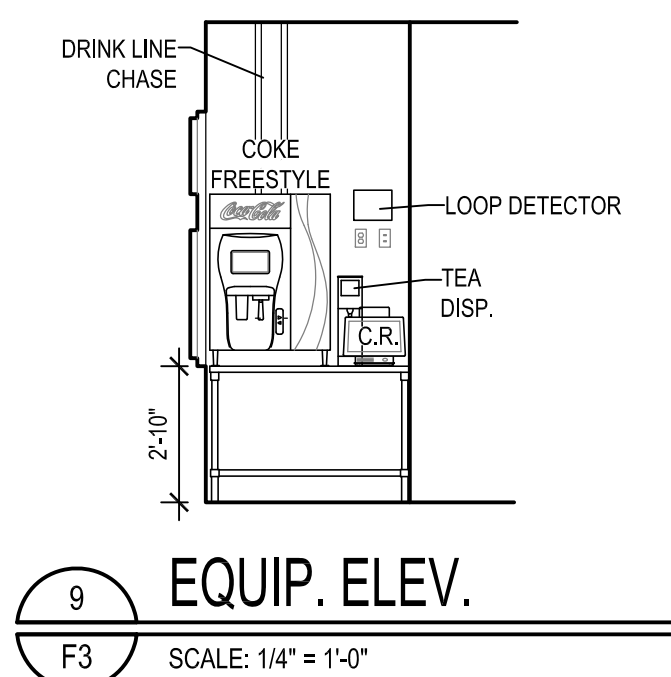
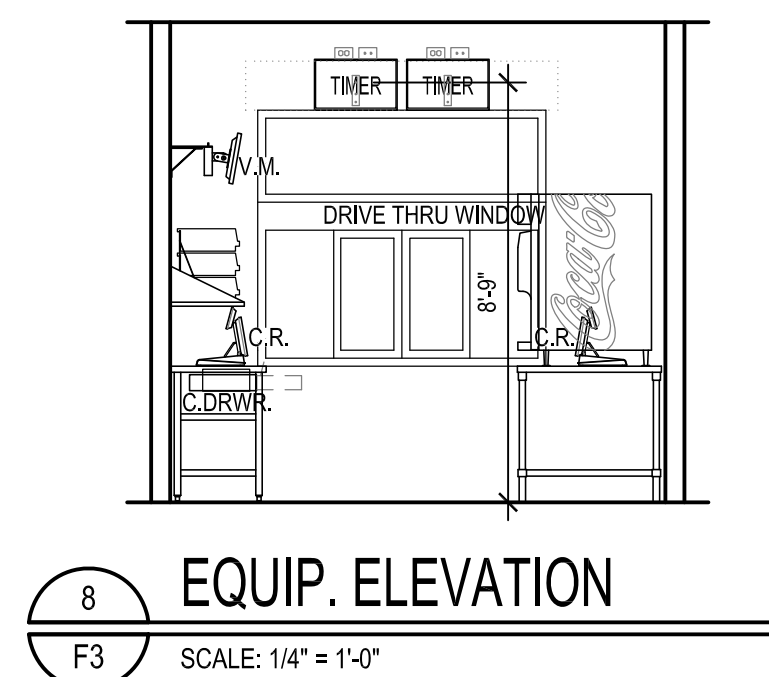
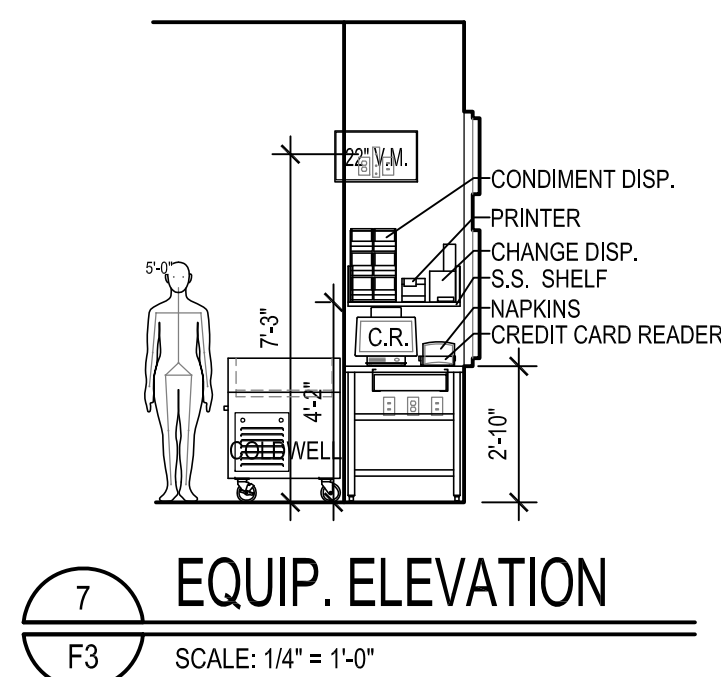
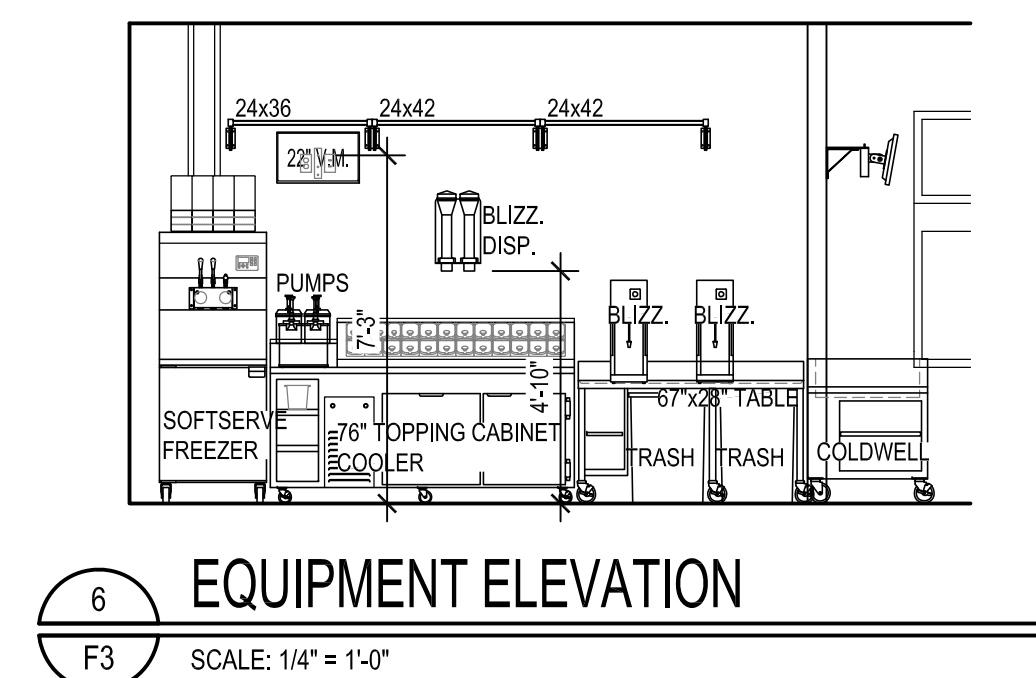
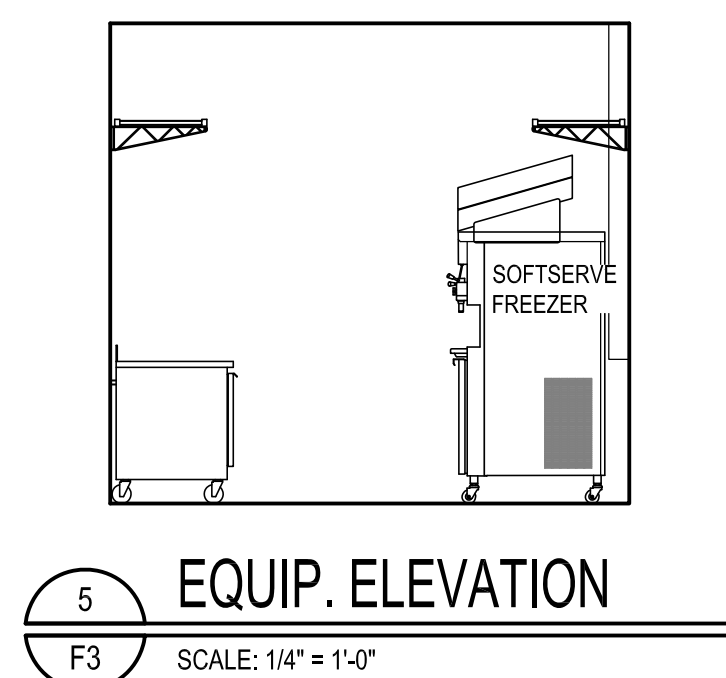
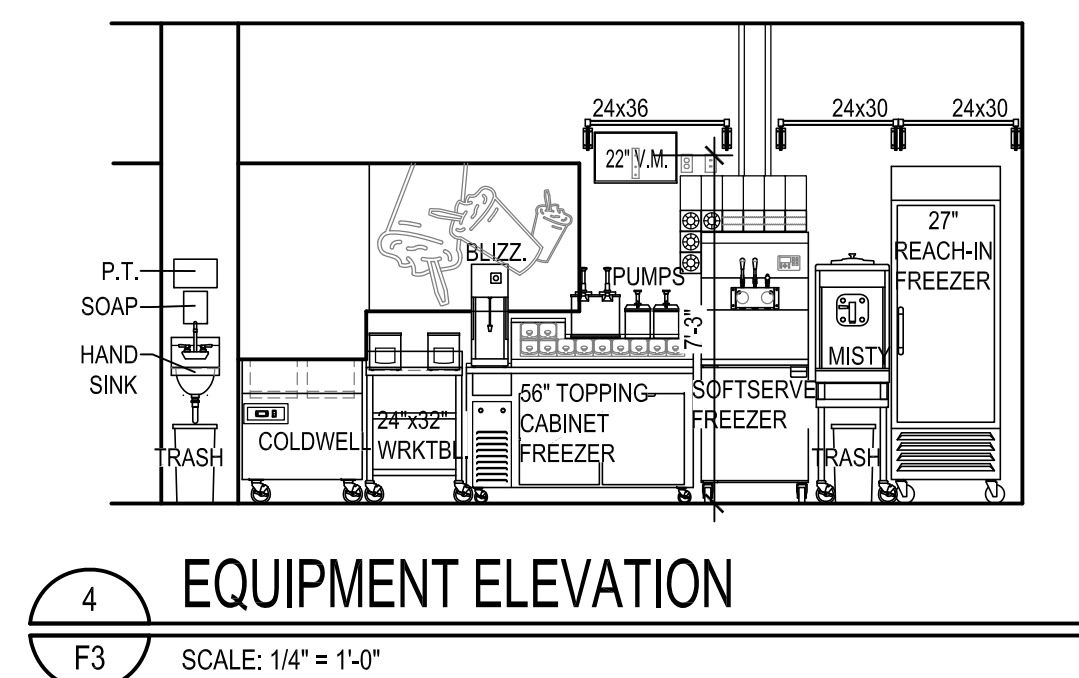
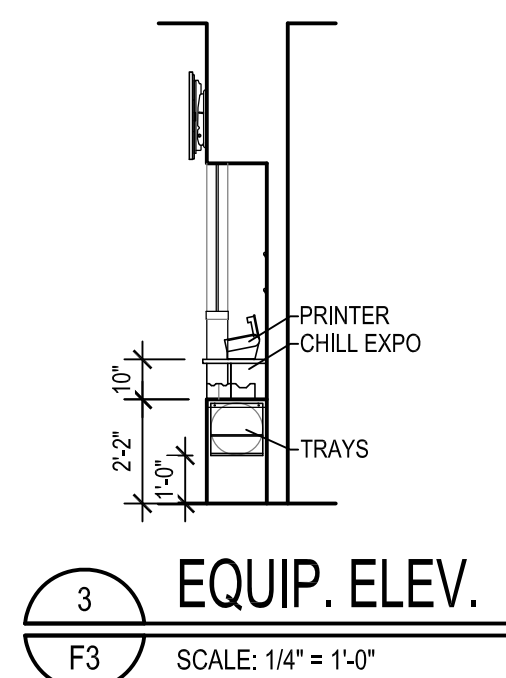
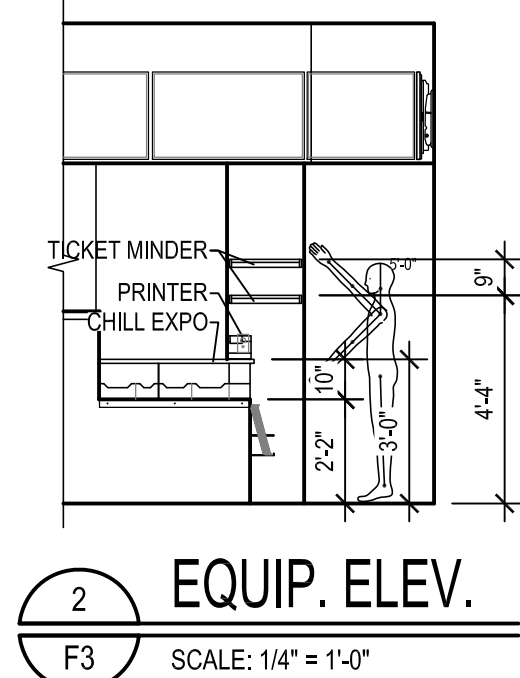
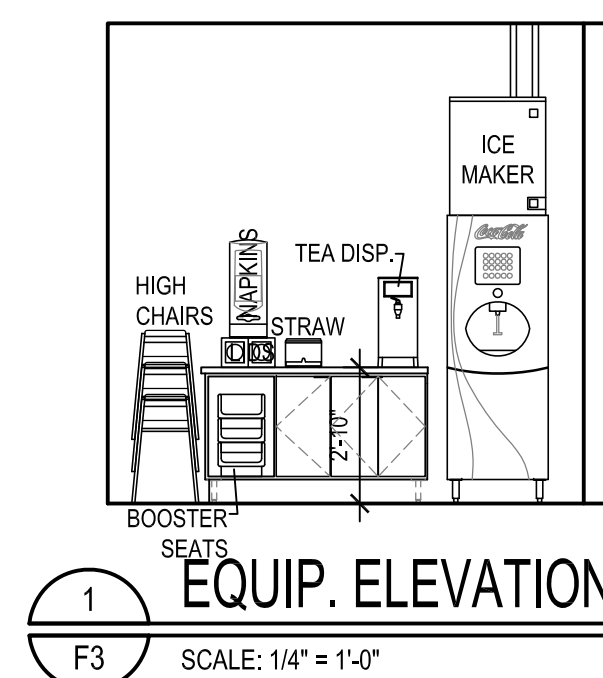
COLLEGE 50

SCHEDULES

SHEET NUMBER:

50

F2

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FURNITURE SCHEDULE	
DINING TABLES	
SIZES:	24"x24", 24"x30", 24"x44", 24"x48", 24"x60", 24"x66", 24"x72"
TOP INLAY	NEVAMAR, FRAPPE LN6001T
EDGE:	DURAEDGE, SMOKE
PEDESTAL & BASE:	TIGER DRYLAC, P6 GLIMMER 049-70210
NOTES:	SELF-LEVELING GUIDES AVAILABLE
COUNTER HEIGHT TABLES	
SIZES:	27"x24", 27"x44", 27"x60", 27"x66"
TOP INLAY	WILSONART, CUSTOM CURL PATTERN
EDGE:	DURAEDGE, SMOKE
PEDESTAL & BASE:	TIGER DRYLAC, P6 GLIMMER 049-70210
NOTES:	SELF-LEVELING GUIDES AVAILABLE
BAR HEIGHT TABLES	
SIZES:	24"x0, 30"x0, 36"x0, 54"x0
TOP INLAY	FORMICA, CUSTOM GO SPOON PATTERN
EDGE:	DURAEDGE, SMOKE
PEDESTAL & BASE:	TIGER DRYLAC, P6 GLIMMER 049-70210
NOTES:	SELF-LEVELING GUIDES AVAILABLE
BOOTH BENCH (SINGLE & DOUBLE)	
MANUFACTURER:	PLYMOLD
SIZES:	24", 44", 48", 60"
BACKREST FABRIC	NONPAREIL SPECIAL RED M-1
"VISTA" SEAT FABRIC	CF STINSON, RALLY DOVE, RAL44
"HORIZON" HARD SEAT	FORMICA, WAXED MAPLE
METAL FINISH:	TIGER DRYLAC, P6 GLIMMER 049-70210
DINING CHAIR	
MANUFACTURER:	PLYMOLD
SERIES:	QUEST-WATERFALL SEAT EDGE
WOOD FINISH	BEECH
METAL FINISH:	TIGER DRYLAC, P6 GLIMMER 049-70210
COUNTER HEIGHT CHAIR	
MANUFACTURER:	PLYMOLD
SERIES:	QUEST-WATERFALL SEAT EDGE
WOOD FINISH	BEECH
METAL FINISH:	RAL3003 049/31100



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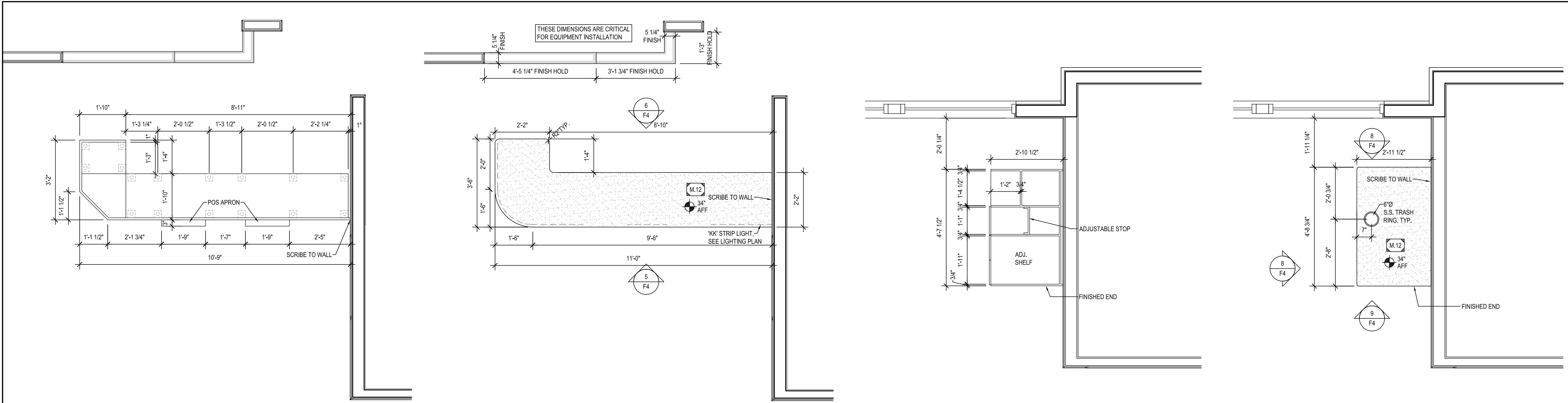
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EQUIPMENT ELEVATIONS

SHEET NUMBER:

F3

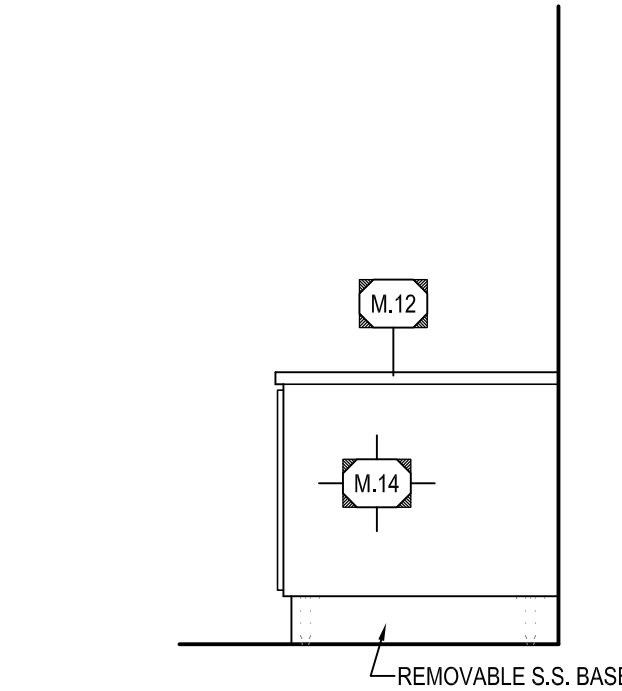
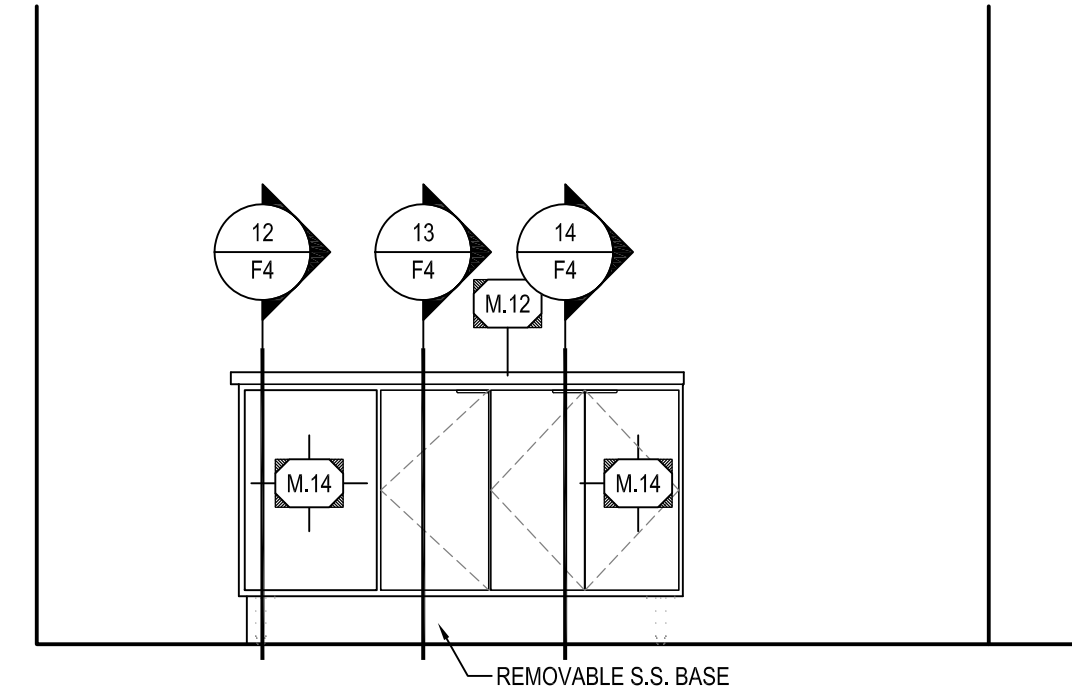
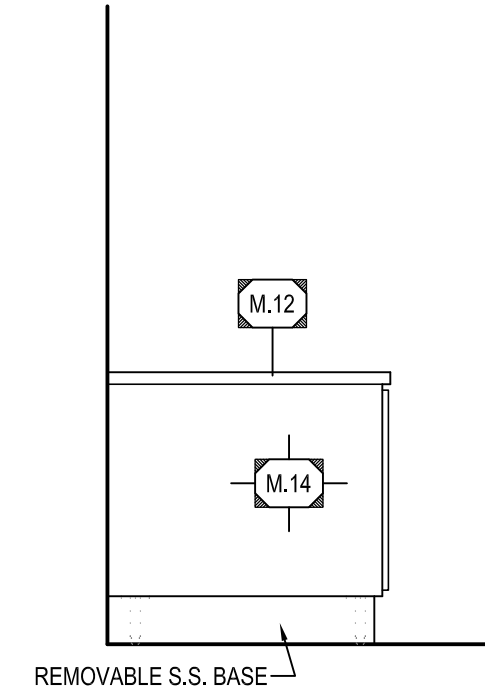
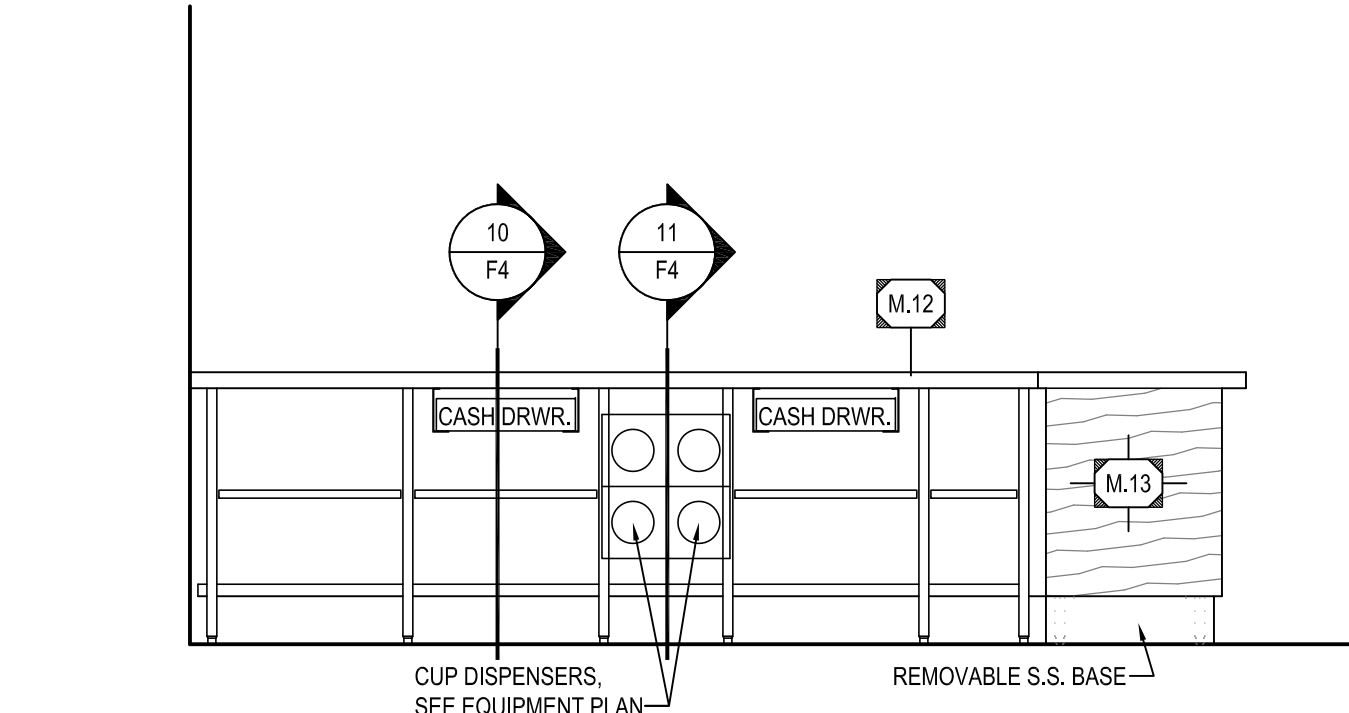
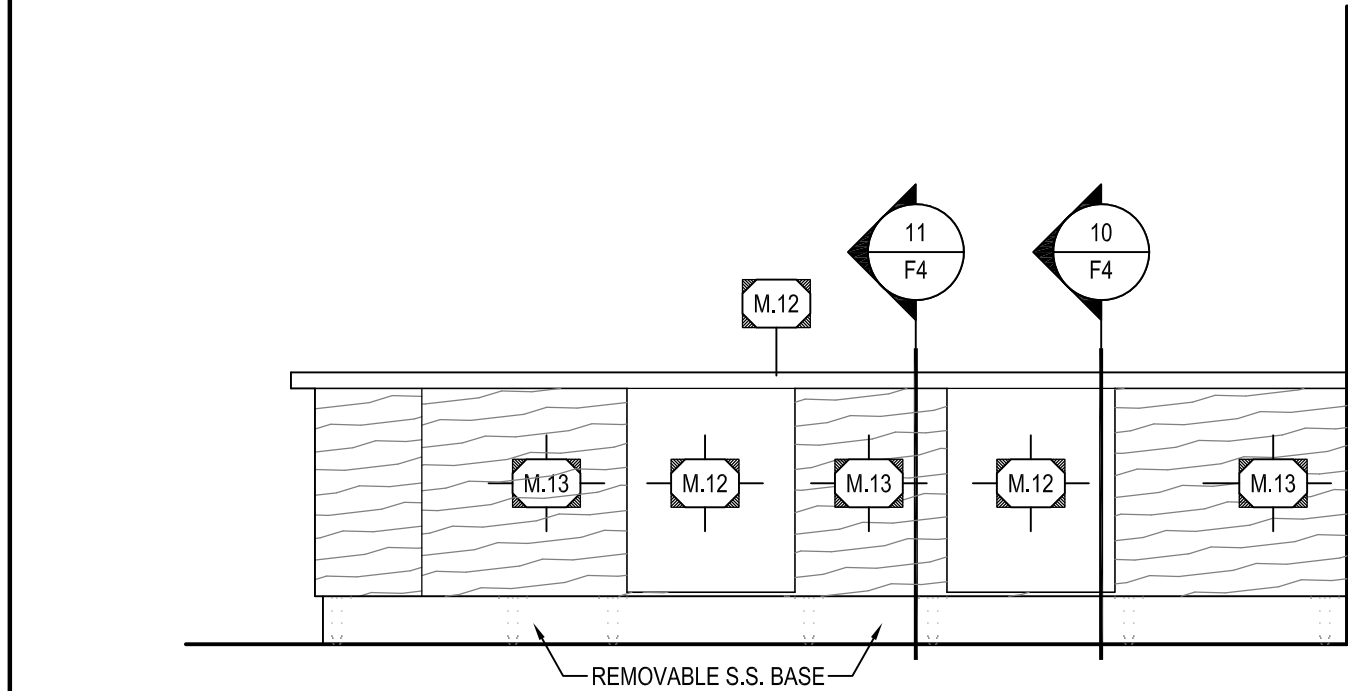


1 BASE CABINET & QUEUE RAIL PLAN
F4 SCALE: 1/2" = 1'-0"

2 COUNTER TOP PLAN
F4 SCALE: 1/2" = 1'-0"

3 BASE CABINET PLAN
F4 SCALE: 1/2" = 1'-0"

4 COUNTER TOP PLAN
F4 SCALE: 1/2" = 1'-0"



5 FRONT COUNTER
F4 SCALE: 1/2" = 1'-0"

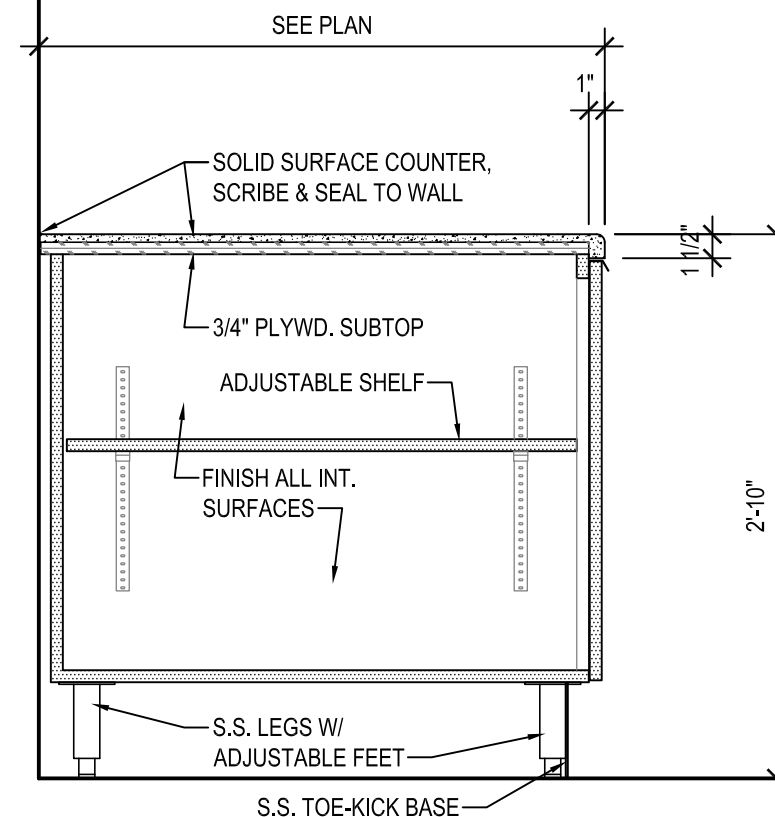
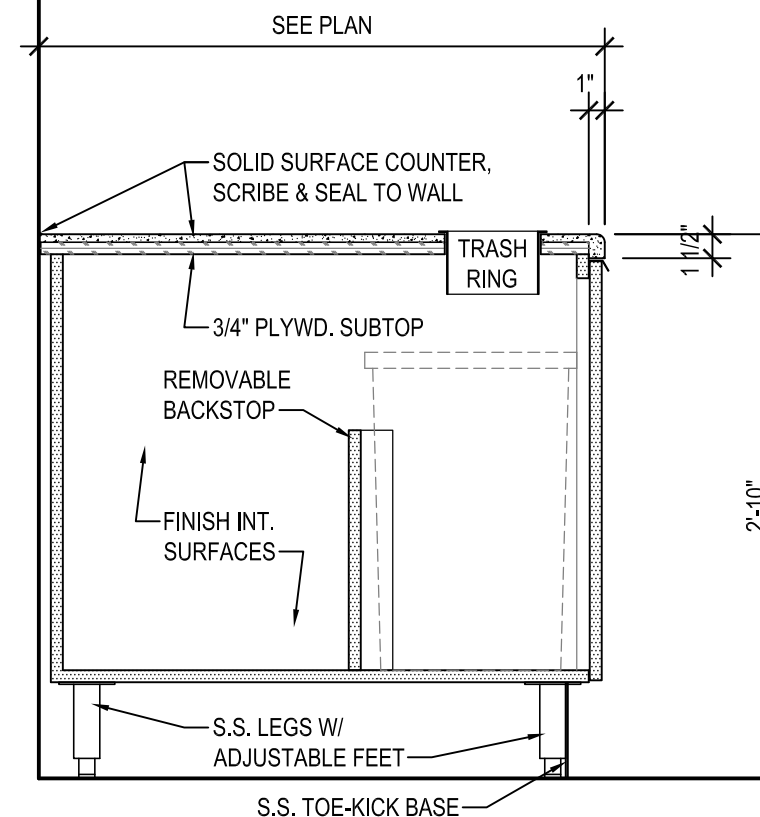
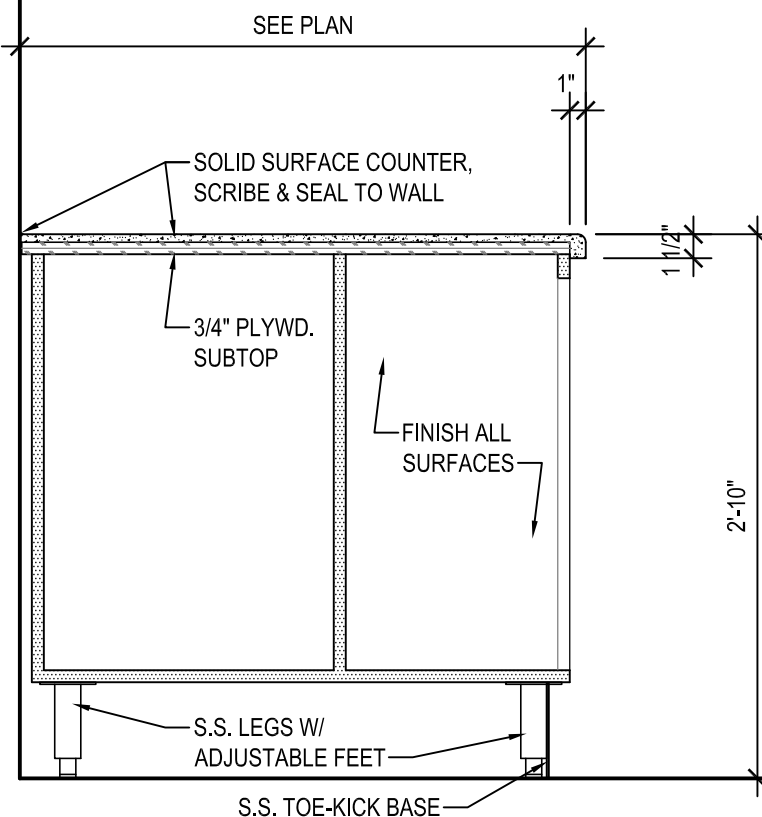
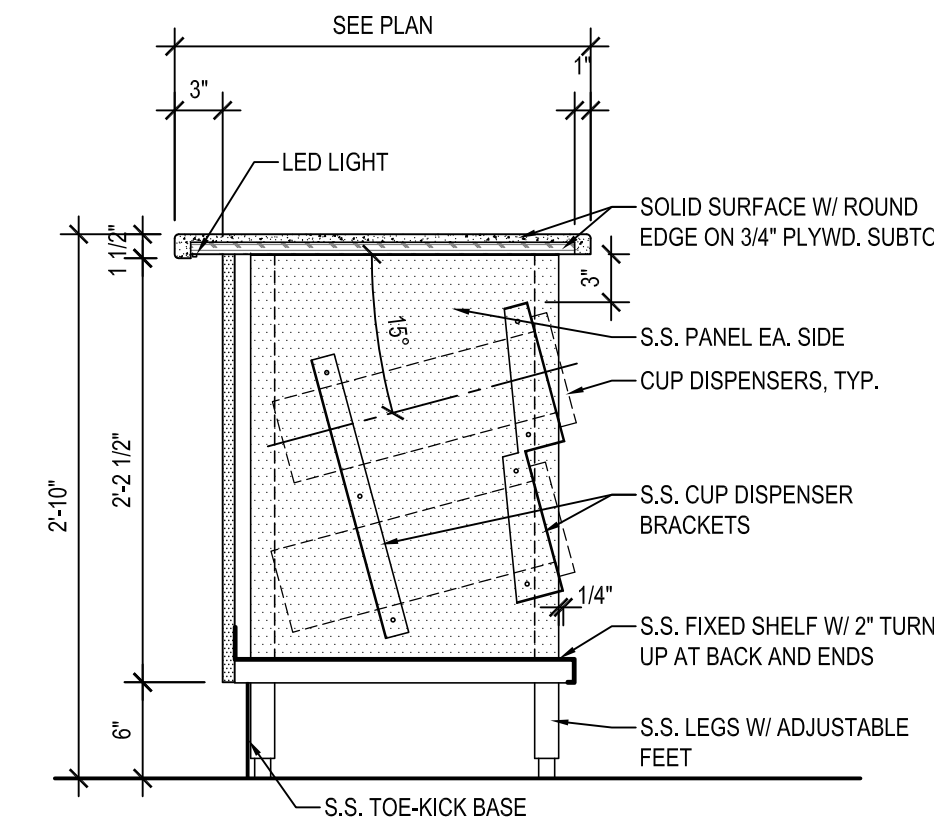
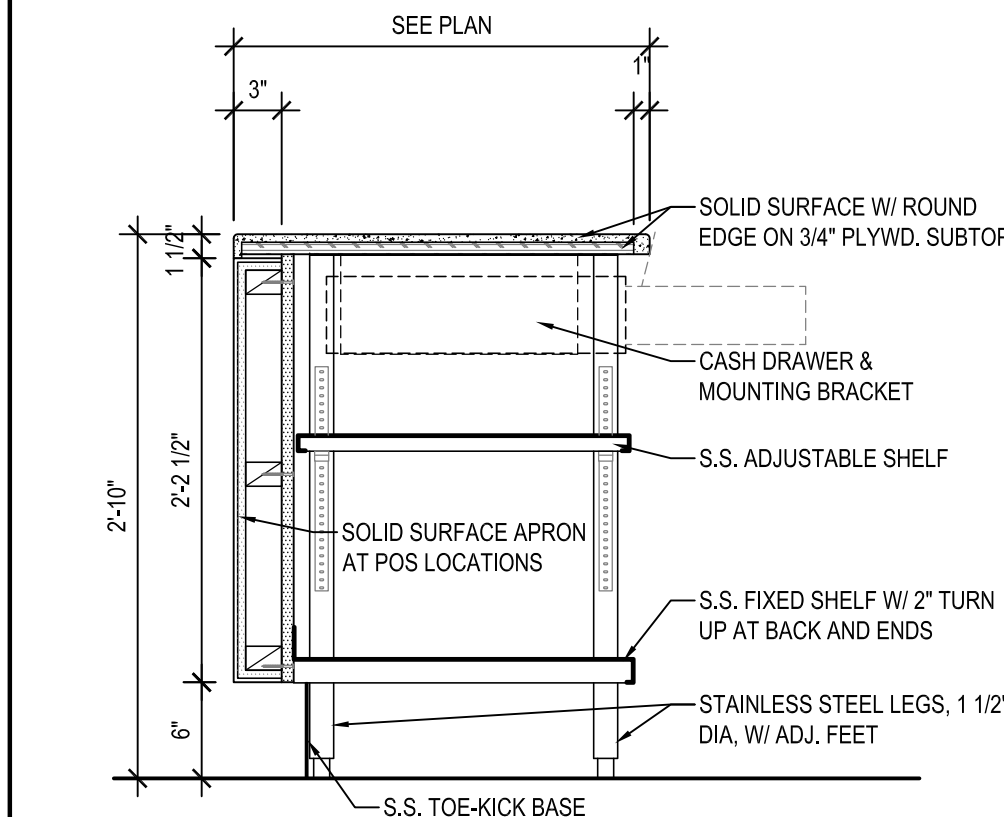
6 FRONT COUNTER
F4 SCALE: 1/2" = 1'-0"

7 DRINKS COUNTER
F4 SCALE: 1/2" = 1'-0"

8 LOBBY DRINKS COUNTER
F4 SCALE: 1/2" = 1'-0"

9 DRINKS COUNTER
F4 SCALE: 1/2" = 1'-0"

- COUNTER NOTES:
- LAMINATED COUNTER TOP/FRONT SUPPLIED BY COUNTER MANUFACTURER.
 - PLYWOOD TYPICAL BASE CABINET AND COUNTER TOP CONSTRUCTION.
 - COUNTER MANUFACTURER TO PROVIDE 1" SCRIBE WHERE COUNTER ABUTS WALL UNLESS OTHERWISE NOTED. G.C. TO SCRIBE CUT IN FIELD.
 - PROVIDE SPLINE JOINTS W/ DRAW TIGHT HARDWARE AT ALL COUNTER TOP AND COUNTER FRONT JOINTS.
 - GENERAL CONTRACTOR TO VERIFY SIZE OF ALL COUNTER DROP-IN OR CUT-IN EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD CUTTING, INSTALLATION, SEALING, ETC. PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
 - BASE CABINETS AND COUNTER TOP SUPPLIED BY MANUFACTURER, AND INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
 - DOOR PULLS - CONCEALED FINGER PULL, SATIN CHROME FINISHED
 - CABINET HINGES - CONCEALED HINGE, HALF OVERLAY



10 FRONT COUNTER
F4 SCALE: 1" = 1'-0"

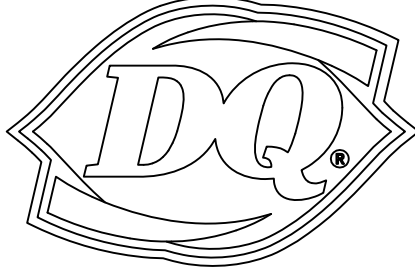
11 FRONT COUNTER
F4 SCALE: 1" = 1'-0"

12 DRINKS COUNTER
F4 SCALE: 1" = 1'-0"

13 DRINKS COUNTER
F4 SCALE: 1" = 1'-0"

14 DRINKS COUNTER
F4 SCALE: 1" = 1'-0"

NEW BUILDING FOR:

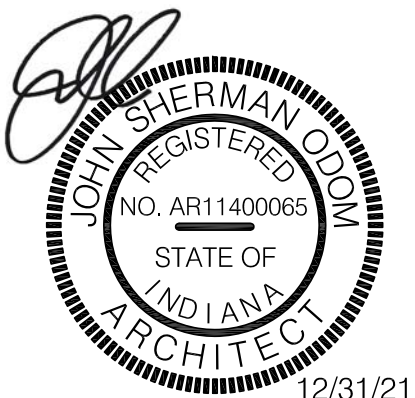


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AMERICAN DAIRY QUEEN

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REVISION DATE:

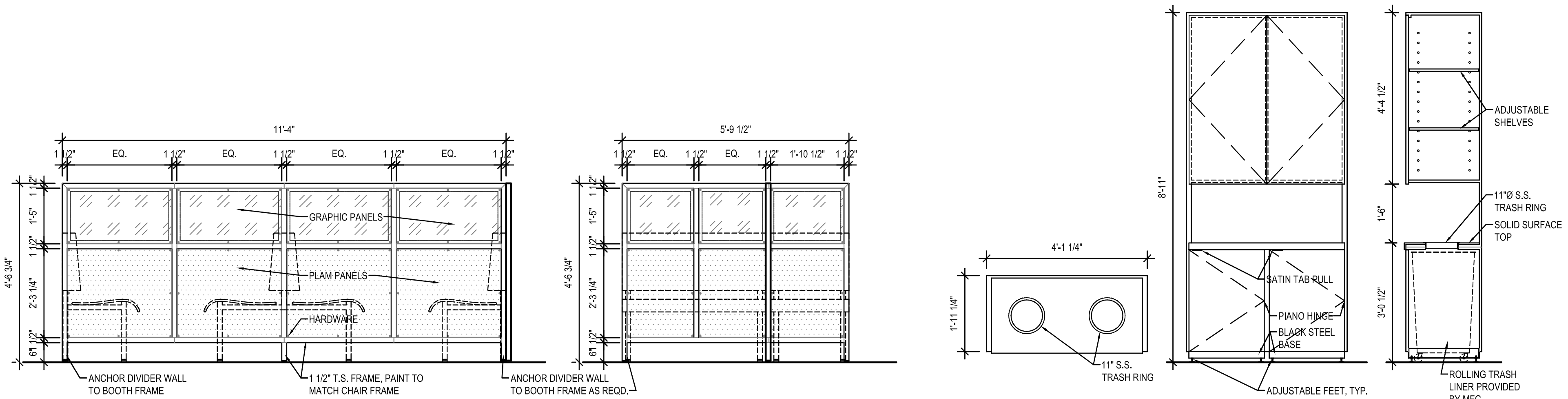
12/31/21

ORIGINAL ISSUE

COUNTER PLANS,
ELEVATIONS,
& DETAILS

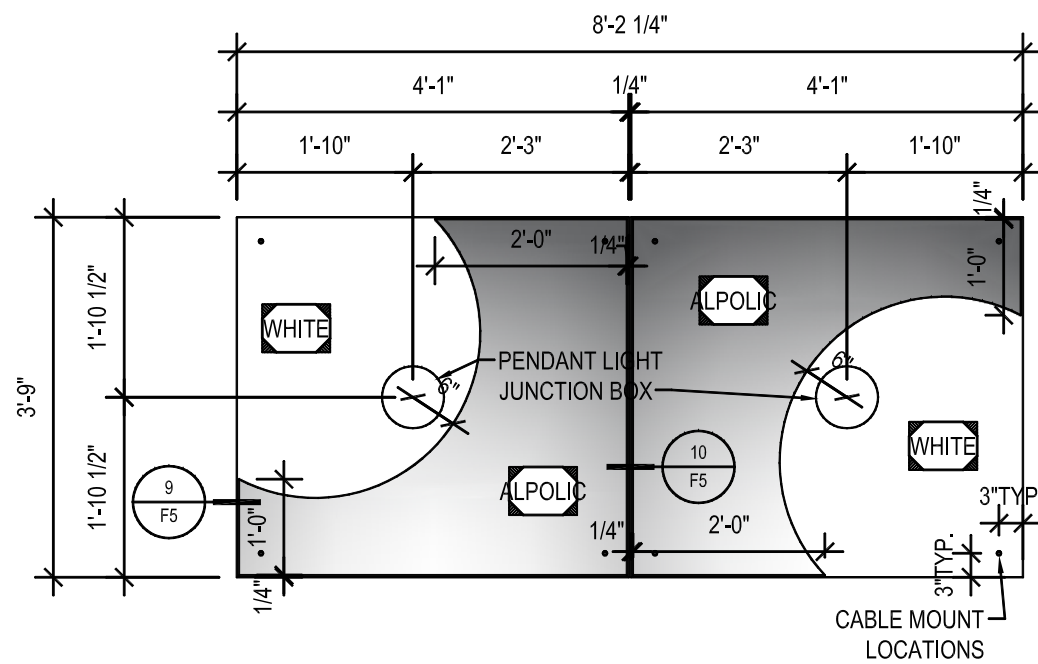
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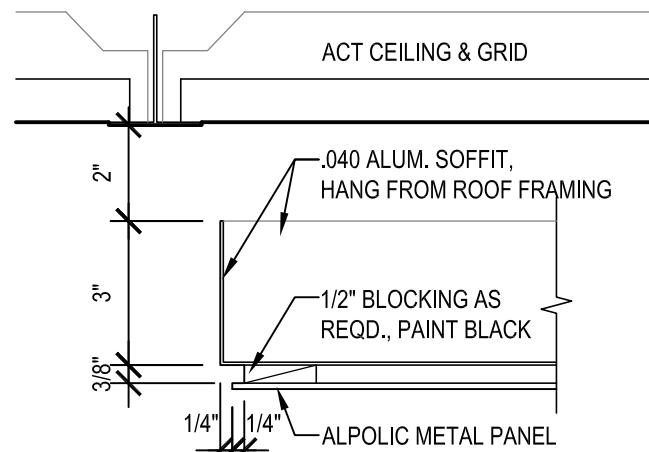


2 DIVIDER WALL
F5 SCALE: 1/2" = 1'-0"

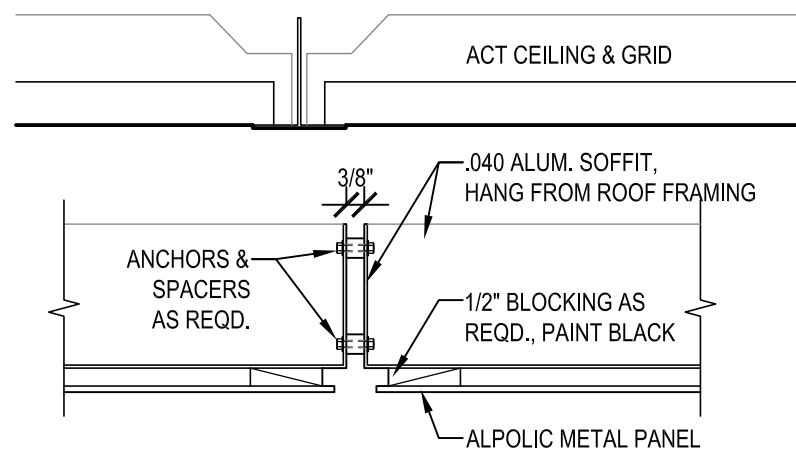
2 TALL TRASH ENCLOSURE
F5 SCALE: 1/2" = 1'-0"



2 CEILING ELEMENT
F5 SCALE: 1/2" = 1'-0"

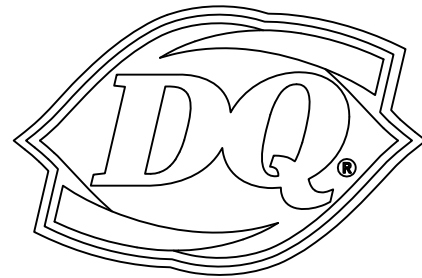


3 CEILING ELEMENT DTL.
F5 SCALE: 3" = 1'-0"



4 CEILING ELEMENT DTL.
F5 SCALE: 3" = 1'-0"

NEW BUILDING FOR:

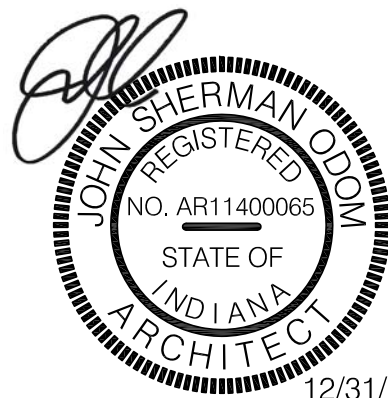


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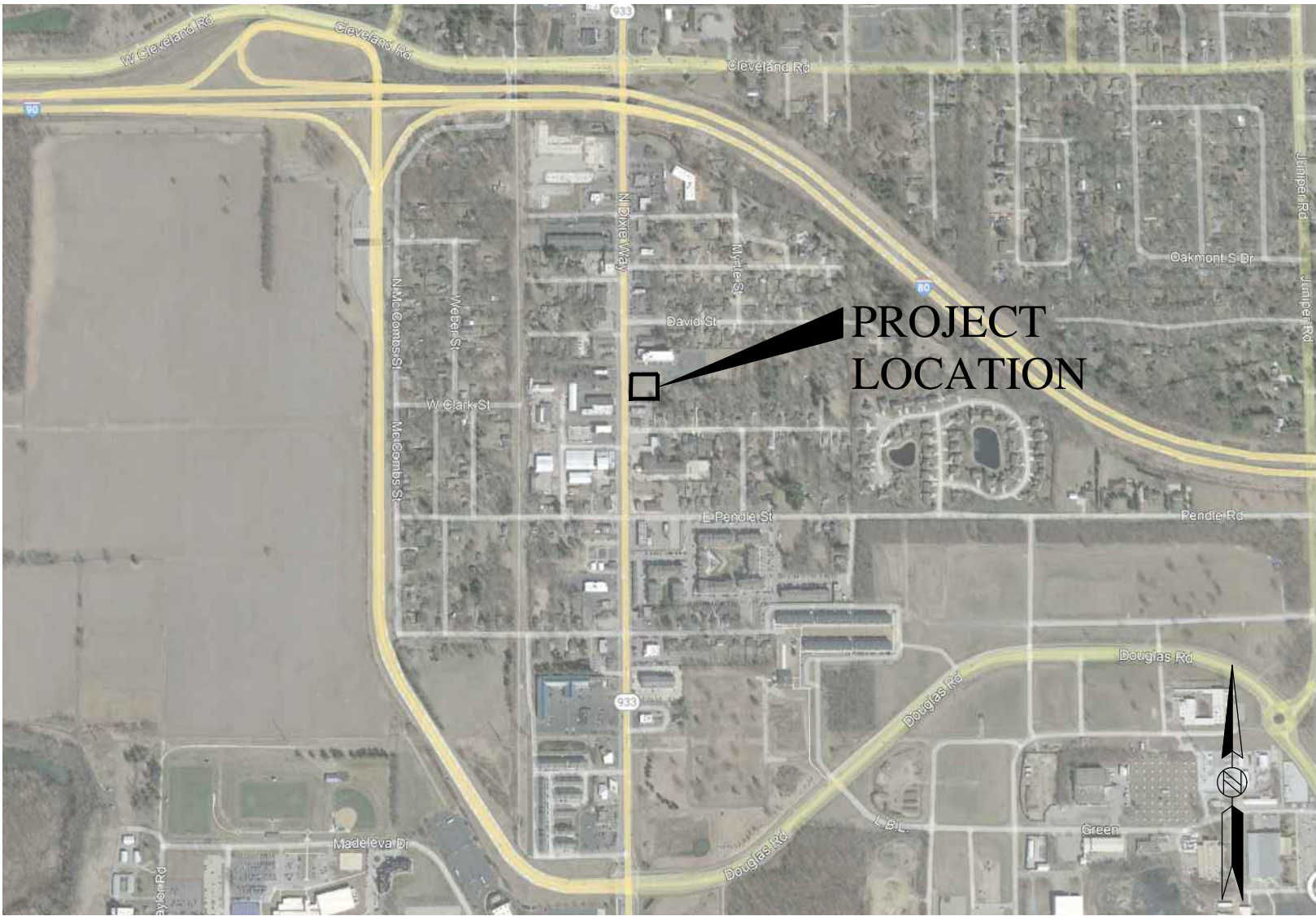
SPECIAL NOTICES
In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes. Copyright © 2021 by John S. Odom, Architect. All rights reserved. No part of this drawing may be reproduced by photocopy or by any other means, or stored, processed, or transmitted in or by any computer or other systems without the prior written permission of the Architect.

ISSUE DATE:	12/31/21
REVISION DATE:	
12/31/21	ORIGINAL ISSUE

MILLWORK
ELEVATIONS &
DETAILS

SHEET NUMBER:

F5



VICINITY MAP
NOT TO SCALE

TITLE DISCLAIMER:

IT IS NOT WARRANTED THAT THESE DRAWINGS CONTAIN COMPLETE INFORMATION REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, RIGHT-OF-WAYS, BUILDING LINE SETBACKS, AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED AND THOROUGHLY REVIEWED.

UTILITY INFORMATION:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES., STRUCTURES, AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS.



INDIANA UTILITY LOCATION SERVICE
PHONE: 800.382.5544 OR WWW.INDIANA811.ORG

CONTRACTOR NOTE:

THE CONTRACTOR AND/OR ALL SUBCONTRACTORS SHALL INVESTIGATE, ASCERTAIN, AND CONFORM TO ANY AND ALL PERMIT REQUIREMENTS OF ALL THE AFFECTED UTILITY COMPANIES AND/OR REGULATORY AGENCIES WITH REGARDS TO MAKING CONNECTIONS TO; OR CROSSING OF THEIR FACILITIES; WORKING WITHIN THEIR RIGHT OF WAY OR EASEMENTS; INSPECTIONS AND ASSOCIATED MONETARY CHARGES; AND/OR SPECIAL BACKFILL REQUIREMENTS. SUCH INVESTIGATION SHALL INCLUDE BUT NOT LIMITED TO THE MAKING OF NECESSARY APPLICATIONS AND PAYMENTS OF ALL REQUIRED FEES.

THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS OR PROFILES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO VERIFY THE FIELD LOCATIONS, ANTICIPATED CLEARANCES, AND THE EXISTENCE OF ANY FACILITIES NOT SHOWN HEREON, AS PART OF THE INVESTIGATIONS IN THE PARAGRAPH ABOVE.

FINAL DEVELOPMENT PLANS
FOR



DAIRY QUEEN

Town of Roseland
South Bend, Indiana

PART OF THE EAST HALF OF THE NORTHWEST
QUARTER OF SECTION 25, TOWNSHIP 38 NORTH,
RANGE 2 EAST, TOWN OF ROSELAND, CLAY TOWNSHIP,
ST. JOSEPH COUNTY, INDIANA

SITE INFORMATION

PARCEL ID(S): 003-1129-0019, 0020

AREA OF LOT: 27,734 S.F. (0.64 ACRES)

PROPOSED GROSS FLOOR AREA: 2,574 S.F.

PERCENTAGE (%) OF BUILDING COVERAGE: 9.28%

EXISTING ZONING: B, BUSINESS COMMERCIAL DISTRICT

PARKING SPACES REQUIRED
(RESTAURANTS-N/A)

PARKING SPACES REQUIRED:	N/A
ADA PARKING SPACES REQUIRED:	N/A
PARKING SPACES PROVIDED:	23
ADA PARKING SPACES PROVIDED:	2

EXISTING IMPERVIOUS AREA:	6,940 S.F. (0.16 ACRES) (25.0%)
EXISTING PERVIOUS AREA:	20,794 S.F. (0.48 ACRES) (75.0%)

PROPOSED IMPERVIOUS AREA:	20,098 S.F. (0.46 ACRES) (72.5%)
PROPOSED PERVIOUS AREA:	7,636 S.F. (0.18 ACRES) (27.5%)

OWNER

NILKANTH II INC.
VANDNA AND CHIRAG PATEL
124722 STATE ROAD 23
GRANGER, IN 46530

ARCHITECT

JSO SERVICES, LLC
JOHN ODOM, R.A.
99 MEADOWBROOK
COUNTRY CLUB ESTATES
BALLWIN, MO 63011
417.343.2602

CIVIL ENGINEER

RDC, LLC
TODD REYLING, P.E.
4516 BOARDWALK
SMITHTON, IL 62285
618.530.1694

SURVEYOR

LANG, FEENEY & ASSOCIATES, INC.
715 S. MICHIGAN STREET
SOUTH BEND, IN 46601
574.233.1841

CIVIL SHEET INDEX

C000	COVER SHEET
C001	CIVIL CONSTRUCTION NOTES
C100	EXISTING TOPOGRAPHY AND DEMOLITION PLAN
C200	CIVIL SITE PLAN
C201	CIVIL SITE PLAN - HORIZONTAL CONTROL
C300	GRADING PLAN
C400	STORMWATER DRAINAGE PLAN
C500	SITE UTILITY PLAN
C600	SEDIMENT AND EROSION CONTROL PLAN
C700-C704	CONSTRUCTION DETAILS

UTILITY CONTACTS

WATER:	CITY OF SOUTH BEND DIVISION OF WATER WORKS 574.235.9251
ELECTRIC:	AMERICAN ELECTRIC POWER 574.236.1621
GAS:	IGS ENERGY 888.995.0992
SANITARY SEWER:	CITY OF SOUTH BEND WASTEWATER 574.235.9251
STORM SEWER:	CITY OF SOUTH BEND 574.235.9251
COMMUNICATIONS:	AT&T 574.208.6006

SIGNAGE NOTE:

ALL BUILDING PLANS WILL BE PERMITTED SEPARATELY.

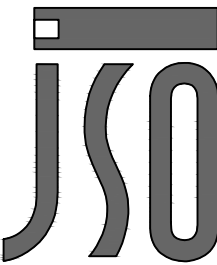
SURVEY/TOPOGRAPHY NOTE:

THE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THESE PLANS WAS PREPARED FROM AN ACTUAL FIELD SURVEY PROVIDED BY LANG, FEENEY & ASSOCIATES, INC. ALL EXISTING INFORMATION PRESENTED IN THESE PLANS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES IN THE PLANS SHALL BE MADE AWARE TO THE OWNER, ARCHITECT, AND ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

SITE LEGEND

EXISTING		EXISTING		PROPOSED	
LIGHT POLE		EDGE OF SHOULDER		LIGHT POLE	
FLARED END SECTION		FLOW LINE		FLARED END SECTION	
TRAFFIC SIGN		TOP OF BANK		TRAFFIC SIGN	
FIRE HYDRANT		CONTOUR		FIRE HYDRANT	
WATER VALVE		SILT FENCE		WATER VALVE	
TREE		PROPERTY LINE		TREE	
DRAINAGE MANHOLE		EASEMENT		DRAINAGE MANHOLE	
DRAINAGE CATCHBASIN		FENCE		DRAINAGE CATCHBASIN	
SANITARY MANHOLE		GAS LINE		SANITARY MANHOLE	
SANITARY CLEANOUT		FIBER OPTIC		SANITARY CLEANOUT	
		OVERHEAD ELECTRIC			
		UNDERGROUND ELECTRIC			
		OVERHEAD TELEPHONE			
		UNDERGROUND TELEPHONE			
		SANITARY SEWER			
		STORM SEWER			
		WATERLINE			

Architect:



JOHN S. ODOM, ARCHITECT
99 MEADOWBROOK COUNTRY CLUB ESTATES
BALLWIN, MISSOURI 63011
PH. 1.417.343.2602
WWW.JOHNSODOM.COM
E-MAIL: JOHN@JOHNSODOM.COM

Civil Engineer:



REYLING DESIGN & CONSULTING
4516 Boardwalk | Smithton, IL | 62285
reylingdc@gmail.com

IN Cert. of Authority: 201607221150881



LICENSE EXPIRES - 07.31.2022
DATE SIGNED - 12.30.2021

ENGINEER OF RECORD:
Todd J. Reyling, PE
Indiana PE 11400249

ISSUED / REVISED	DATE
ISSUED FOR REVIEW	12.30.2021

PROJECT NUMBER: 21-154

New Ground-Up Building:
DAIRY QUEEN
236 N. Dixie Way
Town of Roseland
South Bend, IN 46637
St. Joseph County

Cover
Sheet

C000

CIVIL CONSTRUCTION NOTES:

THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CITY OF SOUTH BEND STANDARDS, ORDINANCES AND REGULATIONS, AND ALL OTHER AGENCIES HAVING JURISDICTION AND UTILITY PROVIDER REQUIREMENTS ARE MET.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EXISTING IMPROVEMENTS OR UNDERGROUND FACILITIES THAT ARE DAMAGED.

THE CONTRACTOR SHALL LEAVE AN EMERGENCY PHONE NUMBER WITH THE POLICE AND FIRE DEPARTMENTS AND KEEP THEM INFORMED OF CONSTRUCTION ACTIVITIES AND OF ANY DETOURS.

CONTRACTOR SHALL POST EMERGENCY PHONE NUMBERS AT THE SITE FOR THE PUBLIC WORKS, AMBULANCE, POLICE, FIRE DEPARTMENT, AND UTILITY LOCATE COMPANIES AT ALL TIMES.

THE CONTRACTOR SHALL CONDUCT THEIR WORK SO AS NOT TO INTERFERE WITH OR HINDER THE PROGRESS OF THE COMPLETION OF WORK BEING PERFORMED BY OTHER CONTRACTORS.

THE CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN THE PROJECT, SHALL ASSUME LIABILITY, FINANCIAL OR OTHERWISE, IN CONNECTION WITH THEIR CONTRACT AND SHALL PROTECT AND HOLD HARMLESS THE ENGINEER AND THE ENGINEER'S REPRESENTATIVES FROM ANY AND ALL DAMAGES OR CLAIMS THAT MAY ARISE BECAUSE OF INCONVENIENCE, DELAYS, OR LOSS EXPERIENCED BECAUSE OF THE PRESENCE AND OPERATIONS OF OTHER CONTRACTORS OR CONSULTANTS WORKING ADJACENT TO OR WITHIN THE LIMITS OF THE PROJECT.

CONTRACTOR SHALL REPAIR ANY DAMAGE TO PROPERTY DURING CONSTRUCTION. DAMAGED PROPERTY SHALL BE RETURNED TO THE EXISTING CONDITIONS AT A MINIMUM.

PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE CITY OF SOUTH BEND STANDARDS AND SPECIFICATIONS AND AS DIRECTED BY THE CITY. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AROUND THE SITE AT ALL TIMES. ALL DETOURS/LANE CLOSURES MUST BE HANDLED USING TRAFFIC CONTROL DEVICES CONFORMING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION, AND MUST BE APPROVED BY THE CITY.

ADEQUATE TEMPORARY OFF STREET PARKING FOR CONSTRUCTION WORKERS SHALL BE PROVIDED. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND/OR WORKERS VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVEWAY CONDITIONS.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE FEATURES AND UTILITIES, AND REPORT ALL FINDINGS AND DISCREPANCIES TO THE ENGINEER.

ALL WORK, INSTALLATION, PROCEDURES, MATERIALS, AND TESTING ASSOCIATED WITH THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARD SPECIFICATIONS AND REQUIREMENTS INsofar AS THEY APPLY (EXCEPT ALL REQUIREMENTS FOR METHOD OF MEASUREMENT OR PAYMENT DO NOT APPLY):

- STANDARD SPECIFICATIONS AS PUBLISHED BY THE INDIANA DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- NATIONAL MANUAL ON TRAFFIC CONTROL DEVICES, LATEST EDITION.
- UNITED STATES AMERICANS WITH DISABILITIES ACT.
- CITY OF SOUTH BEND ORDINANCES AND REGULATIONS.
- ALL ORDINANCES, LAWS, REGULATIONS, AND STANDARDS OF ALL PERTINENT AUTHORITIES HAVING JURISDICTION OVER THE WORK ASSOCIATED WITH THIS PROJECT.
- ANY INCONSISTENCIES, DISCREPANCIES OR CONFLICTS DISCOVERED BETWEEN THE VARIOUS STANDARDS, SPECIFICATIONS OR LAWS BY GOVERNING AUTHORITIES AND/OR THESE PLANS AND SPECIFICATIONS, THE MOST STRINGENT SHALL BE BINDING AND APPLICABLE TO THIS PROJECT.

CIVIL SITE NOTES:

THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR SAFETY PRECAUTIONS OR PROGRAMS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

PRIOR TO CONSTRUCTION, THE ENGINEER AND REVIEWING AGENCY, MUST APPROVE ANY ALTERATION OR VARIANCE FROM THE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON THE CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.

ANY INSPECTION BY THE MUNICIPALITY, COUNTY, STATE OR THE ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND AGENCY REQUIREMENTS.

REMOVAL AND REPLACEMENT QUANTITIES ARE APPROXIMATE AND THE EXACT LOCATION OF REMOVAL LIMITS SHALL BE VERIFIED IN THE FIELD AND APPROVED BY THE INSPECTOR PRIOR TO THE START OF CONSTRUCTION.

ALL LANDSCAPE AREAS SHALL BE FILLED WITH A MINIMUM OF 6 INCHES OF TOPSOIL.

THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS AND BONDS PRIOR TO CONSTRUCTION.

ALL SIGNAGE PROPOSED FOR THIS SITE SHALL BE IN COMPLIANCE WITH THE ORDINANCES OF THE CITY.

THE CONTRACTOR SHALL HAVE A COPY OF THE CONTRACT DOCUMENTS INCLUDING THE PLANS, SPECIFICATIONS, COPIES OF REQUIRED CONSTRUCTION PERMITS, EROSION AND SEDIMENT CONTROL PLANS AND INSPECTION REPORTS AT THE JOB SITE AT ALL TIMES.

ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER, CITY INSPECTOR, AND ENGINEER OF RECORD DIRECTLY FROM THE TESTING COMPANY.

THE CONTRACTOR SHALL THOROUGHLY CHECK AND COORDINATE THE ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND ALL OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. THE OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING CONSTRUCTION.

ALL UTILITY CONDUITS SHALL BE FOUR (4) INCHES, UNLESS OTHERWISE INDICATED, U.L. LISTED SCHEDULE 40 PVC INSTALLED AT A MINIMUM OF 24" BELOW FINAL GRADE, UNLESS THE UTILITY COMPANY REQUIRES DIFFERENT INSTALLATION METHODS. ALL CONDUITS FOR GAS, ELECTRIC, AND COMMUNICATIONS SHALL BE INSTALLED PRIOR TO STREET/PAVEMENT INSTALLATION.

ALL UTILITY CONDUITS SHALL HAVE PULL WIRES INSTALLED. THE CONDUITS ENDS SHALL BE TEMPORARILY SEALED WITH TAPE AND 2"x4" INSTALLED AT EACH END. THE 2"x4" SHALL BE COLOR CODED TO MATCH THE STANDARD UTILITY LOCATING COLORS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY RELOCATIONS INCLUDING BUT NOT LIMITED TO: UNDERGROUND AND OVERHEAD UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, IRRIGATION STRUCTURES, AND OTHER EXISTING APPURTENANCES AS REQUIRED TO FACILITATE THE INSTALLATION OF THE PROPOSED IMPROVEMENTS. ALL RELOCATION WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES/DISTRICTS SPECIFICATIONS AND SHALL BE APPROVED BY THE GOVERNING AUTHORITIES/OWNERS PRIOR TO COMMENCEMENT OF ANY WORK. ALL RESULTING COSTS SHALL BE DEEMED TO BE INCLUDED IN THE CONTRACTOR'S COST/BID.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ALL AREAS TO BE EXCAVATED OR FILLED.

THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION ON THE PLANS OR SPECIFICATIONS. IN THE EVENT THE CONTRACTOR DISCOVERS ANY APPARENT ERROR OR DISCREPANCY, THEY SHALL IMMEDIATELY CALL UPON THE ENGINEER FOR THEIR INTERPRETATION AND DECISION.

THE CONTRACTOR SHALL COMPLY WITH ALL LEGAL ROAD RESTRICTIONS IN THE HAULING OF MATERIALS ON PUBLIC ROADS/STREETS BEYOND THE LIMITS OF THE WORK. A SPECIAL HAUL PERMIT WILL NOT RELIEVE THE CONTRACTOR OF LIABILITY FOR ANY DAMAGE WHICH MAY RESULT FROM THE MOVING OF MATERIAL OR EQUIPMENT.

IF THE CONTRACTOR ELECTS TO BURN CLEARED AND GRUBBED VEGETATION, THE CONTRACTOR SHALL BE RESPONSIBLE TO APPLY FOR PERMISSION FOR THE APPLICABLE MUNICIPALITY, FIRE DEPARTMENT, AND ALL PERTINENT AUTHORITIES HAVING JURISDICTION.

CIVIL EROSION AND SEDIMENT CONTROL NOTES:

ALL SOIL AND EROSION CONTROL MEASURES SHALL CONFORM TO AND BE IN COMPLIANCE WITH THE CITY OF SOUTH BEND, INDIANA; ST. JOSEPH COUNTY, INDIANA; AND THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.

ALL WATER POLLUTION CONTROL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THESE PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS THAT ARE APPROPRIATE FOR EACH PHASE OF CONSTRUCTION.

ALL SOIL AND EROSION CONTROL MEASURES SHALL CONFORM TO THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, LATEST ADDITION.

ALL PERIMETER SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING.

EROSION CONTROL MEASURES SHOULD BE CONSIDERED ALONG THE FACE OF EACH SLOPE. EROSION CONTROL MEASURES TYPICALLY EMPLOYED WOULD INCLUDE SILT FENCES, INLET PROTECTION, DITCH CHECKS AND TIMELY SEEDING OR SODDING.

ALL REMOVABLE PROTECTIVE EROSION CONTROL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY.

AFTER A RAIN-FALL EVENT, ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL BMP'S.

GRADED AREAS AROUND THE PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE PRECAUTION TO ENSURE THAT SEDIMENTATION DAMAGE WILL NOT OCCUR. THE CONTRACTOR SHALL RESTRICT THE AMOUNT OF LAND AREA GRADED AT ANY ONE TIME TO A MINIMUM. IT IS RECOMMENDED DURING AND AFTER GRADING, THAT A TEMPORARY VEGETATIVE COVER BE ESTABLISHED TO PROTECT THE BARE SOIL SURFACE.

THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.

THE ENGINEER RESERVES THE RIGHT TO MAKE CHANGES OR MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL PLAN AS DEEMED NECESSARY.

TEMPORARY EROSION PROTECTION IS REQUIRED FOR MANUFACTURED SLOPES PRIOR TO PERMANENT PLANTING.

AREAS SHALL BE MAINTAINED IN SUCH A STATE FOR FIRE ACCESS AT ALL TIMES (INCLUDING ACCESS TO NEIGHBORING PROPERTIES).

NO OBSTRUCTION OR DISTURBANCE OF NATURAL DRAINAGE COURSES OR EXISTING STORM DRAIN INLETS SHALL OCCUR, UNLESS ADEQUATE TEMPORARY/PERMANENT DRAINAGE FACILITIES HAVE BEEN APPROVED AND INSTALLED TO CARRY SURFACE WATER TO THE NEAREST PRACTICAL STREET, STORM DRAIN, OR NATURAL WATERCOURSE.

THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN SUCH A MANNER THAT STORM RUNOFF WILL BE CONTAINED WITHIN THE PROJECT OR CHANNELLED INTO THE STORM DRAINAGE SYSTEM WHICH SERVES THE RUNOFF AREA. STORM RUNOFF FROM ONE AREA SHALL NOT BE ALLOWED TO DIVERT TO ANOTHER RUNOFF AREA.

ANY EROSION AND SEDIMENT CONTROL PLAN CONTAINED IN THE PROJECT PLANS SHOULD BE CONSIDERED A GENERAL GUIDELINE TO BE UTILIZED FOR EROSION CONTROL PREVENTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL EROSION AND DISPLACED SEDIMENT DOES NOT MIGRATE OFF SITE. IF UNEXPECTED EROSION OR SEDIMENTATION OCCURS, OR IF THE EROSION PLAN STRUCTURES BECOME DAMAGED, THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEASURES TO REPAIR, REPLACE, OR INSTALL EROSION CONTROL STRUCTURES TO ENSURE OFF-SITE DAMAGE DOES NOT OCCUR. ANY SEDIMENT OR EROSION DAMAGE WHICH OCCURS OFF-SITE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

CONFORMANCE WITH THE REQUIREMENTS OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES TO THE SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT LIMITED TO, CONSTRUCTING SUCH FACILITIES AND TAKING SUCH MEASURES AS ARE NECESSARY TO PREVENT, CONTROL AND ABATE WATER, MUD, AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT.

FILL AREAS WHILE BEING BROUGHT UP TO GRADE AND DURING PERIODS OF COMPLETION PRIOR TO FINAL GRADE, SHALL BE PROTECTED BY VARIOUS MEASURES TO ELIMINATE EROSION AND THE SILTATION OF DOWNSTREAM FACILITIES AND ADJACENT AREAS. THESE MEASURES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO: TEMPORARY DOWNDRAINS, EITHER IN THE FORM OF PIPES OR PAVED DITCHES WITH PROTECTED OUT-FALL AREAS; GRADED BERMS AROUND AREAS TO ELIMINATE EROSION OF FILL SLOPES BE SURFACE RUNOFF; CONFINED PONDING AREAS TO DESILT RUNOFF; TEMPORARY CHECK DAMS IN THE TOE SLOPE DITCHES TO DESILT RUNOFF; PROTECTION SUCH AS SAND BAGS AROUND INLETS WHICH HAVE NOT BEEN BROUGHT UP TO GRADE; AND EARTH BERMS AND APPROPRIATE GRADING TO DIRECT DRAINAGE AWAY FROM THE EDGE OF THE TOP OF SLOPES SHALL BE CONSTRUCTED AND MAINTAINED ON FILL AREAS WHERE EARTHWORK OPERATIONS AREA NOT IN PROGRESS.

CLEARING AND GRUBBING SHOULD BE LIMITED TO AREAS THAT WILL RECEIVE IMMEDIATE GRADING. EROSION CONTROL MEASURES WILL BE REQUIRED TO PROTECT AREAS THAT HAVE BEEN CLEARED AND GRUBBED PRIOR TO GRADING OPERATION. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO: GRADED DITCHES; BRUSH BARRIERS; AND SILT FENCES. CARE SHALL BE EXERCISED TO PRESERVE VEGETATION BEYOND THE LIMITS OF GRADING.

PAVED SURFACES WITH ACCUMULATED MATERIALS SHALL BE WASHED AND SWEEP WITH MECHANICAL EQUIPMENT AFTER PAVEMENT IS CONSTRUCTED, BUT PRIOR TO FINAL ACCEPTANCE.

THE CONTRACTOR SHALL PLACE FILTER FABRIC AROUND ALL INLETS, BARRIERS AROUND INLETS IN STREETS OR PAVED AREAS SHALL BE REMOVED PRIOR TO FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS.

CITY APPROVAL OF THESE PLANS DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS AND OMISSIONS DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR APPROVAL.

CIVIL SIGNAGE AND STRIPING NOTES:

ALL SIGNS SHALL BE STANDARD SIZE AND TO CURRENT MUTCD STANDARDS, INCLUDING SUPPLEMENTS FOR THE STATE OF INDIANA, UNLESS OTHERWISE NOTED.

ALL PARKING RESTRICTION SIGNS SHALL HAVE ENGINEERING REFLECTIVE SHEETING. ALL OTHER SIGNS SHALL HAVE DIAMOND GRADE REFLECTIVE SHEETING.

ALL SIGNS SHALL BE MOUNTED WITH VANDAL-RESISTANT HARDWARE.

POST MOUNTED SIGNS SHALL BE MOUNTED SO THAT THE BOTTOM OF THE SIGN IS AT LEAST 6 FEET FROM THE FINISHED GRADE IN AREAS WHERE PEDESTRIANS MAY BE PRESENT, EVEN IN AREAS WHERE NO SIDEWALKS ARE PRESENT, UNLESS OTHERWISE NOTED. TO SATISFY THIS REQUIREMENT, EXISTING POSTS MAY NEED TO BE REPLACED IF ADDITIONAL SIGNS ARE REQUIRED.

WHERE POSSIBLE, AT LEAST 2 FEET OF CLEARANCE SHALL BE PROVIDED FROM THE CURB FACE TO THE EDGE OF THE SIGN.

ALL PERMANENT STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. YELLOW THERMOPLASTIC SHALL BE LEAD-FREE ORGANIC MATERIAL. ALL CURB MARKINGS SHALL BE PAINTED.

ALL STRIPING AND PAVEMENT MARKINGS SHALL BE REFLECTORIZED UNLESS OTHERWISE NOTED.

ALL EXISTING STRIPING AND PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED STRIPING AND PAVEMENT MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR GRINDING. PAVEMENT LEGENDS AND ARROWS THAT ARE TO BE REMOVED SHALL BE REMOVED IN A BLOCK PATTERN. ALL STRIPING AND PAVEMENT MARKING REMOVAL AREAS SHALL BE TREATED WITH AN APPROVED PAVEMENT SEALER.

CIVIL PAVEMENT, SUB-GRADE, AND TRAFFIC CONTROL NOTES:

MATERIALS AND CONSTRUCTION TECHNIQUES SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION PUBLISHED BY THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT).

ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SOUTH BEND REQUIREMENTS AND THE REQUIREMENTS PRESENTED IN THE CURRENT BUILDING CODE. THE CONTRACTOR SHALL FOLLOW ALL PROCEDURES, RECOMMENDATIONS, AND REQUIREMENTS CONTAINED IN THE REPORT, AND THESE REQUIREMENTS SHALL SUPERCEDE ALL INFORMATION AS NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF DISCREPANCIES BEFORE ANY ACTION IS TAKEN.

COMPACTION TESTING OF THE SUB-GRADE WILL BE PERFORMED BY THE CONTRACTOR.

ENTRANCE PAVEMENT SHALL BE COORDINATED WITH THE CITY OF SOUTH BEND PRIOR TO CONSTRUCTION PROCEEDING.

ALL TRAFFIC CONTROL (INCLUDING, BUT NOT LIMITED TO WORK ZONE, TEMPORARY, OR PERMANENT) SHALL BE FURNISHED, INSTALLED, MAINTAINED, RELOCATED, AND/OR REMOVED ACCORDING TO THE LATEST EDITION OF THE INDOT STANDARD SPECIFICATIONS.

CONTRACTOR TO REMOVE ALL EXISTING ITEMS (CONC. WALK CONC. PAD, POSTS, PAVEMENT, TREES, SHRUBS, ETC.) THAT INTERFERE WITH NEW CONSTRUCTION, AT NO ADDITIONAL COST TO THE CONTRACT.

THE CONTRACTOR MUST SUBMIT A MAINTENANCE OF TRAFFIC PLAN AT LEAST FIVE (5) WORKING DAYS PRIOR TO RESTRICTION OR CLOSURE OF ANY STREET.

CIVIL GRADING, EARTHWORK, AND BACKFILL NOTES:

ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SOUTH BEND REQUIREMENTS, THE GUIDELINES PRESENTED IN THE CURRENT BUILDING CODE, AND THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL FOLLOW ALL PROCEDURES, RECOMMENDATIONS, AND REQUIREMENTS CONTAINED IN THE CODE AND REPORT, AND THESE REQUIREMENTS SHALL SUPERCEDE ALL INFORMATION AS NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF DISCREPANCIES BEFORE ANY ACTION IS TAKEN.

ALL IMPORTED MATERIAL SHALL BE APPROVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER OR THEIR FIELD REPRESENTATIVE.

ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE APPROVED GEOTECHNICAL SOILS REPORT.

AREA TO BE CUT OR TO RECEIVE FILL SHOULD BE STRIPPED OF SURFACE VEGETATION AND ORGANIC TOPSOIL. THE STRIPPING SHOULD BE REMOVED FROM THE BUILDING OR PAVEMENT AREA AND STOCKPILED FOR LATER PLACEMENT IN LANDSCAPED OR COMMON GROUND AREAS, AS APPROPRIATE. ORGANIC TOPSOIL CAN BE RE-USED AS FILL, IF THOROUGHLY MIXED WITH OTHER, ACCEPTABLE, NON-ORGANIC, FILL MATERIALS, AS APPROVED BY THE ENGINEER.

FILL AREAS IN PAVEMENT AND BUILDING AREAS SHALL BE PLACED TO AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). THE UPPER 9 INCHES OF NATIVE SUBGRADE IN FILL AREAS AND DETENTION BASIN FILL AREAS SHALL BE RECOMPACTED TO AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).

COMPACTION TESTS ARE REQUIRED FOR EACH FILL LIFT. NO LIFT TO EXCEED 12" IN DEPTH. CONTRACTOR IS RESPONSIBLE FOR ALL PROCTOR AND COMPACTION TEST ON MATERIALS.

ALL DUST SHALL BE CONTROLLED BY WATERING WHEN NECESSARY.

THE CONTRACTOR SHALL REMOVE ALL VEGETATION AND DEBRIS PRIOR TO ANY GRADING.

THE SUB-GRADE OF ALL FOUNDATION AREAS SHALL BE OBSERVED BY AN EXPERIENCED LICENSED GEOTECHNICAL ENGINEER OR THEIR FIELD REPRESENTATIVE PRIOR TO THE PLACEMENT OF ANY CONCRETE OR FILL MATERIAL.

ALL GRADES SHALL BE TO WITHIN +/- 1 INCH OF THOSE SHOWN ON THE GRADING PLAN WHILE MAINTAINING POSITIVE DRAINAGE.

CIVIL ACCESSIBILITY NOTES:

ALL WORK SHALL BE IN CONFORMANCE WITH THE CURRENT VERSION OF THE LOCAL ACCESSIBILITY CODE (BOTH CITY AND STATE) AND WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT (ADA).

ALL RAMPS SHALL NOT EXCEED A RUNNING SLOPE OF 1:12 OR 8.33%.

RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES 1:20 OR 5.00% AND 1:12 OR 8.33% AND SHALL HAVE A MINIMUM CLEAR WIDTH OF 3 FEET AND A MAXIMUM CROSS-SLOPE OF 1:50 OR 2.00%. RAMPS EXCEEDING 30 INCHES OF VERTICAL CHANGE SHALL HAVE INTERMEDIATE (2.00% MAX. SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60 INCHES. BOTTOM LANDINGS SHALL HAVE A MINIMUM LENGTH OF 60 INCHES IN THE DIRECTION OF TRAVEL. LANDINGS SHALL BE AT LEAST THE WIDTH AS THE WIDEST RAMP RUN LEADING TO THE LANDING. LANDINGS AT RAMP DIRECTION CHANGES SHALL HAVE A MINIMUM WIDTH AND LENGTH OF 60 INCHES.

THE MAXIMUM CROSS-SLOPE ON ANY WALK OR RAMP SHALL BE 2.00%. ALL ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL HAVE A MAXIMUM SLOPE OF 2.00% IN ALL DIRECTIONS.

ALL ACCESSIBLE ROUTES OF TRAVEL SHALL HAVE A MINIMUM OF THREE (3) FOOT CLEAR WIDTH FOR ACCESSIBLE CONFORMANCE, UNLESS OTHERWISE NOTED PER THE PLANS.

TRUNCATED DOMES AS DETECTABLE WARNINGS MAY BE REQUIRED ON WALKS THAT CROSS OR ADJOIN A VEHICULAR WAY WITHOUT A VERTICAL SEPARATION BETWEEN THE WALKWAY AND VEHICULAR WAY.

CITY OF SOUTH BEND, ST. JOSEPH COUNTY, AND INDOT CONSTRUCTION NOTES:

CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF SOUTH BEND, ST. JOSEPH COUNTY, AND/OR INDOT AT LEAST 48 HOURS PRIOR TO POURING CONCRETE, INSTALLING STORM SEWER, INSTALLING SANITARY SEWER, OR OTHERWISE PROVIDING SUCH ADVANCE NOTICE AS MAY BE REQUIRED BY THESE JURISDICTIONS .

ALL WORK, MATERIALS, AND INSTALLATION SHALL NOT BE DEEMED SATISFACTORY UNTIL SUCH TIME AS ALL APPROVALS ARE OBTAINED FROM THE JURISDICTIONAL AUTHORITY.

THE CONTRACTOR SHALL PROCEED AT THEIR OWN RISK IN PERFORMING ANY WORK PRIOR TO VERIFYING OR RECEIVING ALL NECESSARY PERMITS FOR THE WORK TO BE COMPLETED.

CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE ANY SIGNS THAT NEED TO BE MOVED TO COMPLETE THE WORK. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES.

ANY SIDEWALKS, CURB AND GUTTER, OR STREET ROADWAY PAVEMENT DAMAGED IN THE COURSE OF CONSTRUCTION ACTIVITY ON ADJACENT PRIVATE PROPERTY MUST BE REPLACED IN KIND.

ALL DISTURBED AREAS WITHIN THE CITY OF SOUTH BEND, ST. JOSEPH COUNTY, AND INDOT RIGHT OF WAY SHALL BE RESTORED PER THEIR REQUIREMENTS.

CIVIL STORM AND DRAINAGE NOTES:

STORM AND DRAINAGE SYSTEM CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF SOUTH BEND STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, LATEST EDITION.

STORMWATER AND ALL OTHER UNPOLLUTED DRAINAGE SHALL BE DISCHARGED INTO SUCH SEWERS AS ARE SPECIFICALLY DESIGNED AS STORM SEWER OR TO A NATURAL OUTLET.

ALL STORM SEWER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.

ALL STORM SEWER STRUCTURES AND BEDDING REQUIRED FOR STORM SEWER PIPE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF SOUTH BEND STANDARDS, LATEST EDITION.

ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVED AREAS SHALL BE BACKFILL AND PLACED IN ACCORDANCE WITH THE CITY OF SOUTH BEND STANDARDS.

ALL TRENCH BACKFILL UNDER PAVEMENT WITHIN PUBLIC RIGHT OF WAY SHALL BE GRANULAR BACKFILL. TRENCH BACKFILL UNDER PAVED AREAS AND OUTSIDE OF PUBLIC RIGHT OF WAY SHALL BE GRANULAR BACKFILL IN LIEU OF EARTH BACKFILL, COMPACTED TO 90% OF THE MODIFIED AASHTO T-180 COMPACTION TEST ASTM D-1557.

JETTING IS NOT AN ACCEPTABLE METHOD OF ACHIEVING BACKFILL COMPACTION. ALL BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO AT LEAST 95% OF THE MATERIALS STANDARD PROCTOR MAXIMUM DRY DENSITY.

MINIMUM COVER OVER PVC PIPE SHALL BE ONE FOOT FROM THE TOP OF RIGID ROADWAY SURFACES OR THE BOTTOM OF FLEXIBLE ROADWAY SURFACES. AT SHALLOW DEPTHS OF COVER (1 FOOT - 3 FOOT), CLASS I OR CLASS II MATERIAL PER ASTM D3231 WITH A MINIMUM OF 95% PROCTOR DENSITY.

CIVIL SANITARY SEWER NOTES:

SANITARY SEWER SYSTEM CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS SPECIFICATIONS OF THE CITY OF SOUTH BEND SANITARY SEWER DIVISION.

SANITARY SEWER PIPE SHALL BE 4 INCH - 8 INCH PVC AS PER INDICATED ON THE PLANS AND SHALL BE IN ACCORDANCE WITH ASTM D3034, SDR 35 WITH JOINTS IN ACCORDANCE WITH ASTM D3212 .

ALL SANITARY SEWERS SHALL BE BOTH AIR AND MANDREL TESTED IN ACCORDANCE WITH THE TESTING PROCEDURES IN THE STANDARD SPECIFICATIONS OF THE CITY OF SOUTH BEND SANITARY SEWER DIVISION FOR ALL PIPE LENGTHS.

ALL SANITARY SEWER MANHOLES LOCATED IN OR ADJACENT TO DRAINAGE WAYS SHALL BE PROVIDED WITH BOLT DOWN, SOLID, GASKETED AND WATER TIGHT LIDS.

FOUNDATION DRAINS, IF INSTALLED, SHALL NOT CONNECT TO THE SANITARY SEWER.

MANHOLE LIDS MAY BE ADJUSTED WITH ADJUSTING RINGS UP TO 12 INCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ADJUSTMENTS UP TO AND INCLUDING 12 INCHES.

FOUR (4) OR SIX (6) INCH WYE FITTINGS WITH FOUR (4) OR SIX (6) INCH LATERALS SHALL BE CONSTRUCTED FROM THE SANITARY SEWER MAIN TO THE BUILDING LINE AT THE ELEVATION INDICATED. EACH LATERAL SHALL EXTEND AT A 45° ANGLE TO THE SEWER MAIN AND EXTEND UPWARD TO APPROXIMATELY ONE (1) FOOT FROM THE SANITARY MAIN FLOWLINE TO THE LATERAL FLOWLINE. LATERALS SHALL BE EXTENDED AT 1% AND TERMINATED THREE (3) FEET ABOVE GRADE.

CIVIL WATERMAIN NOTES:

ALL WATERMAIN CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS SPECIFICATIONS FOR CITY OF SOUTH BEND WATER DEPARTMENT.

WATER MAIN SHALL HAVE A MINIMUM COVER OF 42" FROM FINISHED GRADE TO TOP OF PIPE.

ALL WATER PIPE SHALL BE CONSTRUCTED OF POLY-VINYL (P.V.C.) PIPE CONFORMING TO NSF STANDARD 14 AND AWWA C-900. THE PIPE SHALL CONFORM TO ASTM D2241 AND SHALL BE CONSTRUCTED OF PIPING MATERIALS DESIGNED AS CLASS 124548 (PVC 1120). THE PIPE SHALL HAVE A STANDARD DIMENSION RATIO (SDR) OF 18. SCHEDULE RATINGS SHALL BE IN ACCORDANCE WITH ASTM B 1785 (PVC). JOINTS FOR PVC WATER MAIN SHALL BE "O" RING SUP ON JOINTS IN CONFORMANCE TO ASTM D3139-98 - "STANDARD SPECIFICATION FOR JOINTS FOR PLASTIC PRESSURE PIPES USING FLEXIBLE ELASTOMERIC SEALS." ALL 1-1/2" DOMESTIC WATER SERVICE LINES SHALL BE FLEXIBLE TYPE "K" COPPER.

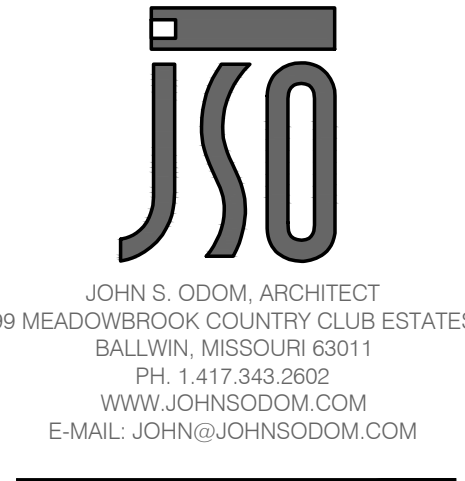
BEVELED SPIGOT ENDS MUST HAVE A MINIMUM BEVEL OF 8 DEGREES TO A MAXIMUM BEVEL OF 15 DEGREES. THE VERTICAL FACE OF THE SPIGOT END MAY NOT EXCEED 75% OF PIPE WALL THICKNESS AND THE HORIZONTAL LENGTH OF THE BEVEL SHALL NOT EXCEED 125 INCHES. FIELD BEVELED SPIGOT END SHALL BE MADE PER MANUFACTURERS RECOMMENDATION AND AS APPROVED BY CITY OF SOUTH BEND WATER DEPARTMENT. THE DEGREE OF BEVEL SHALL BE APPROVED FOR THE TYPE OF PIPE BEING INSTALLED.

WATER PIPE SHIPPING, HANDLING & STORAGE - THE FRONT END OF ALL PIPE DELIVERED BY TRUCK SHALL BE COVERED FOR PROTECTION AGAINST EXHAUST FUMES. PIPE SHALL BE PROTECTED FROM EXPOSURE TO SUNLIGHT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PIPE WILL NOT BE ACCEPTED FOR INSTALLATION IF DISCOLORATION IS EVIDENT DUE TO SUNLIGHT OR OTHER EXPOSURE. PIPE SHALL BE STORED IN SUCH A MANNER TO PREVENT BEAMING THE PIPE.

TRACING WIRE FOR ALL WATER MAINS, INCLUDING OUT-OF-SERVICE TAPS INTENDED FOR FUTURE EXTENSION, SHALL BE INSTALLED WITH COPPER TRACING WIRE (PVC COATED) TUBED TO THE TOP OF THE PIPE EVERY 5'. MAXIMUM TRACING WIRE LENGTH SHALL BE 500' WITHOUT TERMINATING IN A CURB STOP BOX. CURB STOP BOXES SHALL NOT BE LOCATED IN THE PAVEMENT AREAS. SPLICES IN THE TRACING WIRE SHALL BE KEPT TO A MINIMUM AND APPROVED BY THE WATER COMPANY. IF SPLICES ARE REQUIRED THEY SHALL BE MADE WITH COPPER SPLIT BOLT (LISCO #IK-8 OR APPROVED EQUAL) AND TAPED WITH ELECTRICAL TAPE. JUMPER WIRES MUST BE RUN FROM THE MAIN TRACING WIRE AND SECURED TO ALL WATER METER SERVICE LINES.

ALL WORK PERFORMED ON ANY WATER LINES AND/OR APPURTENANCES THAT ARE OWNED OR ANTICIPATED TO BE OWNED BY CITY OF SOUTH BEND WATER DEPARTMENT SHALL BE COMPLETED UNDER THE DIRECTION OF MISSOURI AMERICAN ADHERING TO AN ACCEPTABLE PLAN APPROVED BY CITY OF SOUTH BEND WATER DEPARTMENT. A MINIMUM 24 HOURS NOTICE SHALL BE GIVEN TO THE WATER COMPANY BY THE CONTRACTOR PRIOR TO THE START OF WATER LINE WORK. ONE SET OF APPROVED PLANS SHALL BE ON THE JOB SITE DURING CONSTRUCTION. WATER LINE CONSTRUCTION WILL NOT BE PERMITTED TO START UNTIL ALL APPROVALS ARE RECEIVED. THERE SHALL BE NO DEVIATION FROM THE APPROVED PLANS WITHOUT WRITTEN APPROVAL FROM THE WATER COMPANY.

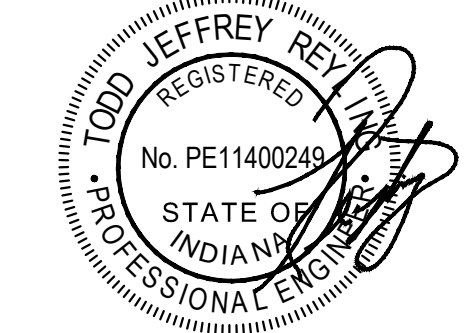
Architect:



Civil Engineer:



IN Cert. of Authority: 201607221150861



LICENSE EXPIRES - 07.31.2022
DATE SIGNED - 12.30.2021

ENGINEER OF RECORD:
Todd J. Reyling, PE
Indiana PE 11400249

ISSUED / REVISED	DATE
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PROJECT NUMBER: 21-154

New Ground-Up Building:
DAIRY QUEEN
236 N. Dixie Way
Town of Roseland
South Bend, IN 46637
St. Joseph County

Civil
Construction
Notes

C001

EXISTING CONDITIONS/DEMOLITION PLAN NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND/OR PROTECTION OF THE EXISTING ITEMS AS NOTED ON THIS PLAN.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES.

CONTRACTOR IS TO DISPOSE OF ALL MATERIAL RESULTING FROM PREVIOUS AND CURRENT DEMOLITION IN ACCORDANCE WITH ALL LOCAL, STATE, AND/OR FEDERAL REGULATIONS.

THE CONTRACTOR IS CAUTIONED TO LOCATE ALL EXISTING UTILITIES AND CONFLICTS. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY CONSTRUCTION ACTIVITY IN ORDER TO FIELD VERIFY EXISTING UTILITY INFORMATION.

CONTRACTOR SHALL PROTECT EXISTING STREET LIGHTS & POSTS, TRAFFIC CONTROL DEVICES, SIGNS, UTILITY BOXES, ELECTRIC, TELEPHONE, GAS, FIBER OPTIC, CABLE, WATER, STORM SEWER, SANITARY SEWER, AND ALL OTHER UTILITIES UNLESS OTHERWISE NOTED ON THE PLANS.

CONTRACTOR TO CLEAR AND GRUB THE EXISTING SITE AS NECESSARY TO PERFORM DEMOLITION, PROPOSED CONSTRUCTION, AND FINAL IMPROVEMENTS.

EXISTING CONDITIONS KEY NOTES:

- 1
- EXISTING UTILITY LINES TO REMAIN, CONTRACTOR TO PROTECT IN PLACE.
- 2
- EXISTING ROADWAY AND CURB TO REMAIN, CONTRACTOR TO PROTECT IN PLACE.
- 3
- EXISTING WATER MAIN AND FIRE HYDRANT TO REMAIN, CONTRACTOR TO PROTECT IN PLACE.
- 4
- EXISTING POWER POLE AND LIGHTING TO REMAIN, CONTRACTOR TO PROTECT IN PLACE.
- 5
- EXISTING STORM SEWER TO REMAIN, CONTRACTOR TO PROTECT IN PLACE.
- 6
- EXISTING SEWER LINE TO REMAIN, CONTRACTOR TO PROTECT IN PLACE.
- 7
- EXISTING SIDEWALK TO REMAIN, CONTRACTOR TO PROTECT IN PLACE.

DEMOLITION LEGEND/KEY NOTES:

- CLEAR AND GRUB AREAS OF PROPOSED GRADING. REFER TO GEOTECHNICAL REPORT FOR ALL SPECIFICATIONS.
- A

SAWCUT EXISTING PAVEMENT AND CONFORM TO A CLEAN, NEAT EDGE FROM EXISTING PAVEMENT TO NEW ASPHALT PAVEMENT.
- B

LIMITS OF DISTURBANCE, CLEARING AND GRUBBING, AND SOIL STRIPPING.
- C

EXISTING PYLON SIGN TO BE REMOVED.

UTILITY INFORMATION:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES, AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS.



INDIANA UTILITY LOCATION SERVICE
PHONE: 800.382.5544 OR WWW.INDIANA811.ORG

LEGAL DESCRIPTION:

A PART OF THE EAST HALF OF THE NORTHWEST QUARTER OF SECTION 25, TOWNSHIP 38 NORTH, RANGE 2 EAST, IN CLAY TOWNSHIP, ST. JOSEPH COUNTY, STATE OF INDIANA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHWEST CORNER OF THE EAST HALF OF THE NORTHWEST QUARTER OF SAID SECTION 25; THENCE NORTH 90 DEGREES 28 MINUTES 45 SECONDS WEST (BEARING ASSUMED) ALONG THE WEST LINE OF THE EAST HALF OF THE NORTHEAST QUARTER OF SAID SECTION 25 A DISTANCE OF 668.47 FEET TO A POINT ON THE WEST LINE OF THE EAST HALF OF THE NORTHWEST QUARTER; SAID POINT BEING THE POINT OF BEGINNING FOR THIS DESCRIPTION; THENCE CONTINUING NORTH 00 DEGREES 28 MINUTES 45 SECONDS WEST ALONG SAID WEST LINE OF THE EAST HALF OF THE NORTHWEST QUARTER A DISTANCE OF 151.61 FEET; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST A DISTANCE OF 233.37 FEET; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS WEST A DISTANCE OF 77.97 FEET; THENCE SOUTH 00 DEGREES 45 MINUTES 14 SECONDS EAST A DISTANCE OF 74.46 FEET TO A POINT; SOUTH 90 DEGREES 00 MINUTES 00 SECONDS WEST A DISTANCE OF 233.08 FEET FROM THE POINT OF BEGINNING; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS WEST A DISTANCE OF 233.08 FEET TO THE WEST LINE OF THE EAST HALF OF THE NORTHWEST QUARTER OF SAID SECTION 23, SAID POINT ALSO BEING THE POINT OF BEGINNING FOR THIS DESCRIPTION, SAID IN PREVIOUS DEEDS TO CONTAIN 0.82 ACRES, MORE OR LESS.

LEGEND:

- SECTION CORNER
- IRON FOUND
- Δ

MAG. NAIL SET
- ×

X-CUT SET
- ⚡

POWER POLE
- ⚡

LIGHT POLE
- SANITARY SEWER MANHOLE
- ⊕

INLET
- ⊕

WATER VALVE
- ⊕

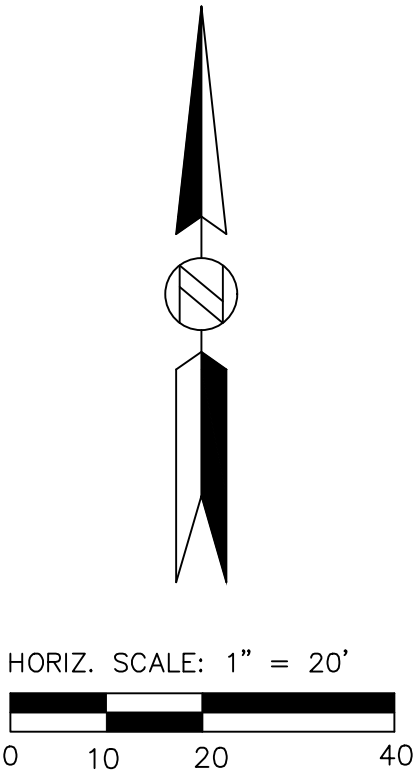
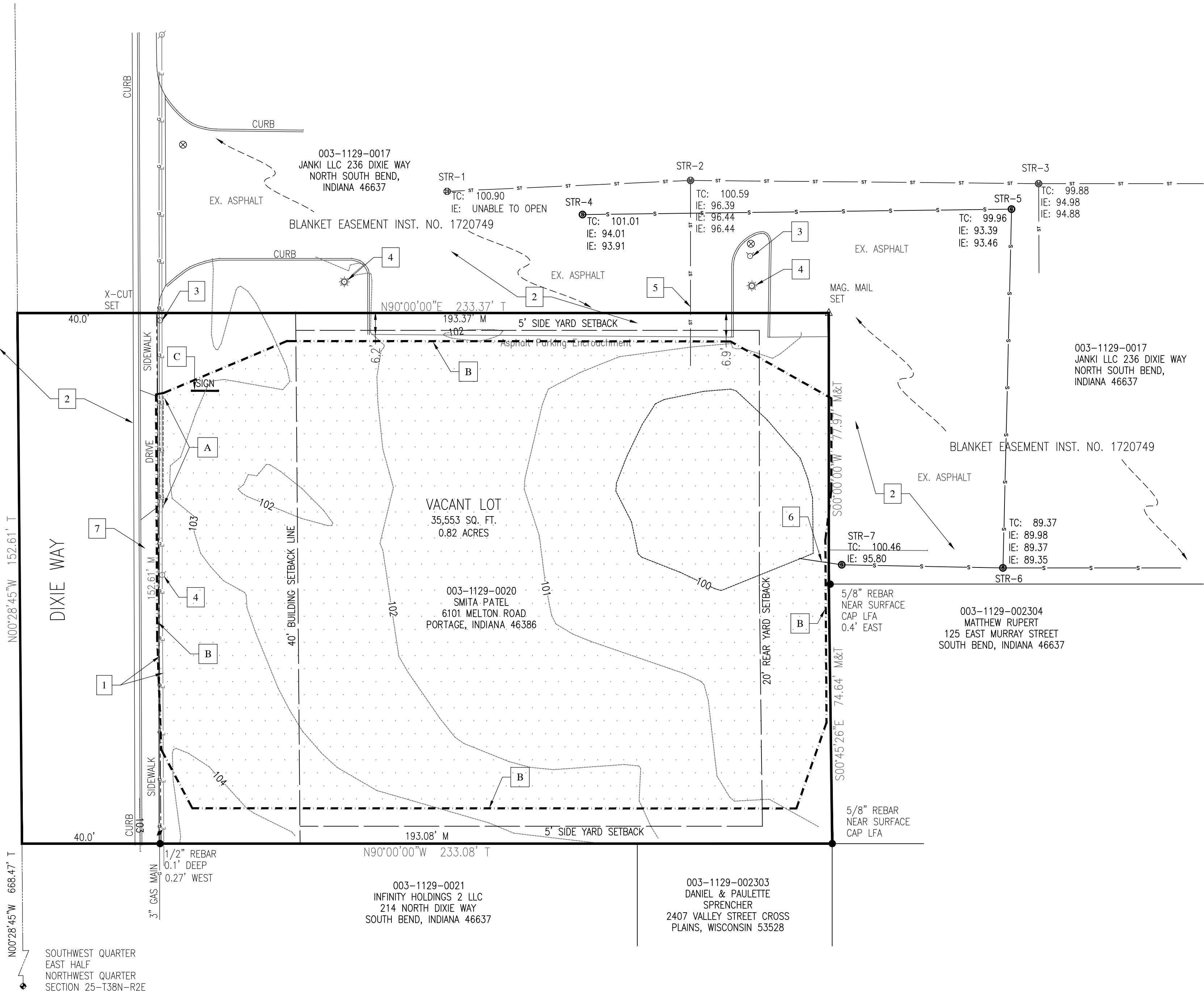
FIRE HYDRANT
- ⚡

GAS LINE MARKER
- 4

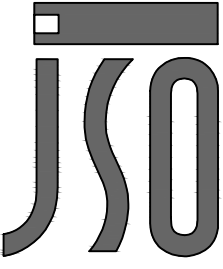
SIGN
- (M)

MEASURED DISTANCE
- (T)

TITLE DISTANCE
- OVERHEAD ELECTRIC
- GAS LINE
- SANITARY SEWER
- STORM SEWER



Architect:



JOHN S. ODOM, ARCHITECT
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WWW.JOHNSODOM.COM
E-MAIL: JOHN@JOHNSODOM.COM

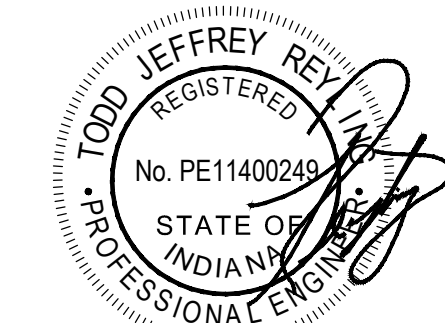
Civil Engineer:



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New Ground-Up Building:
DAIRY QUEEN
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South Bend, IN 46637
St. Joseph County

Existing
Topography
and Demolition
Plan
C100

GENERAL SITE NOTES:

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CITY OF SOUTH BEND AND ST. JOSEPH COUNTY, INDIANA, AND THE INDIANA DEPARTMENT OF TRANSPORTATION CODES, STANDARDS AND SPECIFICATIONS.

ANY CITY OF SOUTH BEND OR ST. JOSEPH COUNTY, INDIANA, INFRASTRUCTURE (ABOVE OR BELOW GRADE, VISIBLE OR NOT) OR PROPERTY DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY AND COUNTY.

ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE LOCAL, STATE, AND FEDERAL CODE REQUIREMENTS. WHEN CODES ARE IN CONFLICT, THE MORE STRINGENT SHALL APPLY.

ALL SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), OR AS OTHERWISE SPECIFIED. INSTALLATION OF ALL SIGNS SHALL BE GOVERNED BY LOCAL CODES.

THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL EXISTING UTILITIES LOCATED AND PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER AT LEAST THREE (3) DAYS PRIOR TO ANY SITE WORK FOR IDENTIFICATION OF EXISTING UTILITIES.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE PROJECT SITE BEFORE BEGINNING CONSTRUCTION.

CIVIL SITE KEY NOTES:

- 1

PROPOSED 6" PCC BARRIER CURB, SEE DETAIL.
- 2

PROPOSED ACCESSIBLE PARKING STALL STRIPING AND SIGNAGE, SEE DETAIL.
- 3

EXISTING ROADWAY AND PAVEMENT TO REMAIN CONTRACTOR TO PROTECT IN PLACE.
- 4

PROPOSED PIPE BOLLARD, SEE DETAIL.
- 5

PROPOSED 4" WIDE PARKING STALL STRIPING AND WHITE PAVEMENT MARKING. TRAFFIC WHITE PAINT PER DETAIL. SEE PLAN FOR TYPICAL DIMENSIONS.
- 6

CONTRACTOR TO SAWCUT EXISTING PAVEMENT TO MAKE SMOOTH TRANSITION TO NEW PARKING LOT PAVEMENT.
- 7

PROPOSED CONCRETE SIDEWALK. CONTRACTOR SHALL CONSTRUCT TO MEET CURRENT ADA STANDARDS.
- 8

PROPOSED DETECTABLE WARNING (TRUNCATED DOMES) TO MEET ADA STANDARDS, SEE DETAIL. PROPOSED FLUSH PCC SIDEWALK TO PAVEMENT.
- 9

PROPOSED PCC CURB TAPER TO MATCH PAVEMENT AND/OR SIDEWALK GRADE.
- 10

PROPOSED CONCRETE PARKING BLOCK, SEE DETAILS.
- 11

PROPOSED TURNDOWN CONCRETE SIDEWALK, CONTRACTOR SHALL CONSTRUCT TO MEET CURRENT ADA STANDARDS.
- 12

PROPOSED PEDESTRIAN ACCESS, CONTRASTING PAVEMENT PER ADA STANDARDS.
- 13

PROPOSED TRASH/RECYCLNG ENCLOSURE WITH PIPE BOLLARDS. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS.
- 14

PROPOSED OUTDOOR CONCRETE PATIO AREA.
- 15

PROPOSED HANDRAIL, SEE ARCHITECTURAL PLANS FOR DETAILS.
- 16

PROPOSED PARKING LOT LIGHTING. SEE SITE LIGHTING PLAN FOR DETAILS.
- 17

PROPOSED PYLON SIGN, SEE ARCHITECTURAL PLANS FOR DETAILS.
- 18

PROPOSED DO NOT ENTER SIGN, SEE ARCHITECTURAL PLANS FOR DETAILS.
- 19

PROPOSED CLEARANCE BAR AND SIGN, SEE ARCHITECTURAL PLANS FOR DETAILS.
- 20

PROPOSED PREVIEW BOARD, SEE ARCHITECTURAL PLANS FOR DETAILS.
- 21

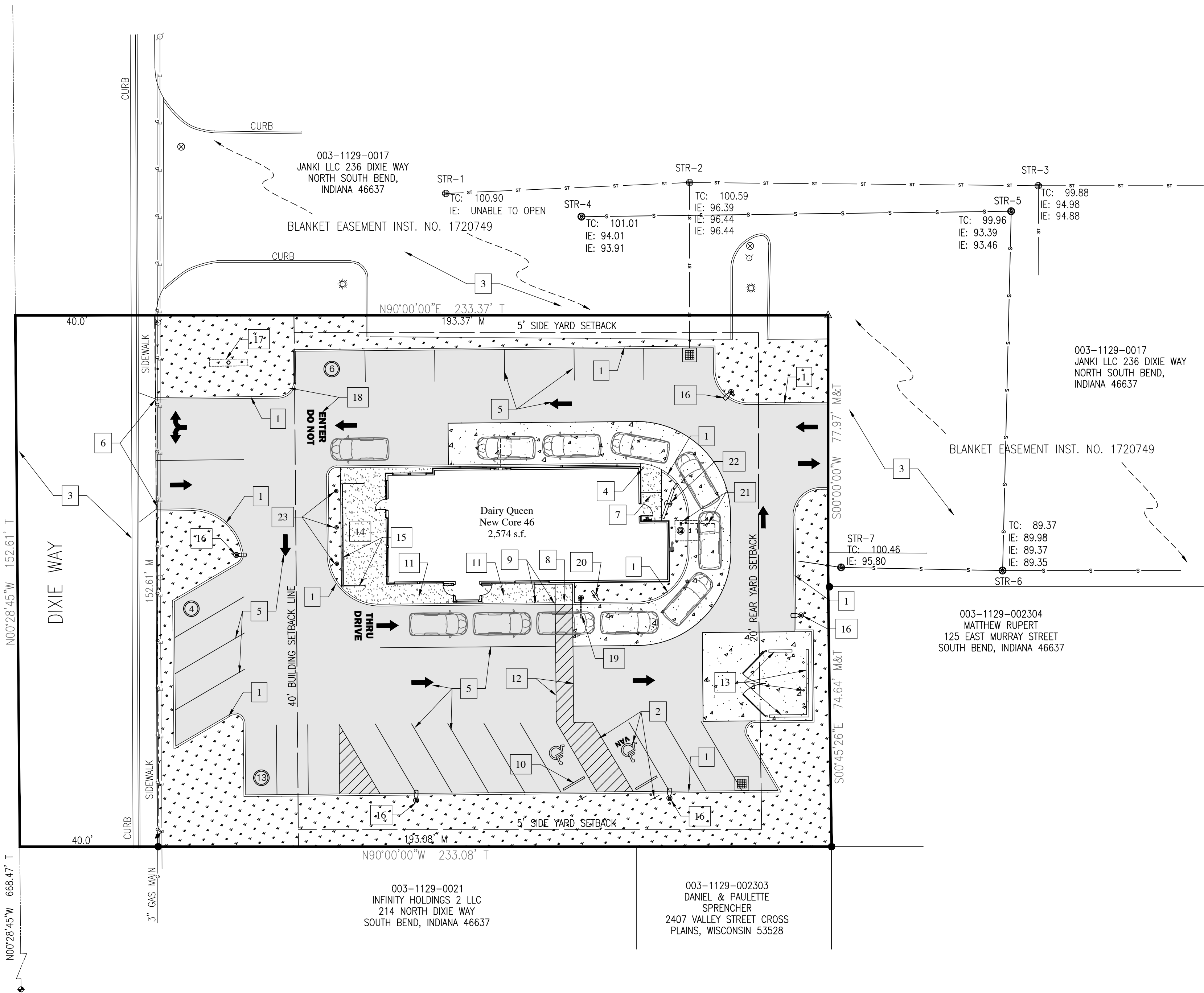
PROPOSED SPEAKER AND LOOP INDICATOR SYSTEM, SEE ARCHITECTURAL PLANS FOR DETAILS.
- 22

PROPOSED DRIVE THRU MENU BOARD, SEE ARCHITECTURAL PLANS FOR DETAILS.
- 23

PROPOSED PATIO LIGHTING. SEE SITE LIGHTING PLAN FOR DETAILS.

SITE PAVING LEGEND:

- PROPOSED PCC CONCRETE PAVEMENT
(6"PCC/6"AB), SEE DETAIL
- PROPOSED PCC CONCRETE SIDEWALK
(4"PCC/4"AB), SEE DETAIL
- PARKING LOT-PROPOSED ASPHALT
(5" AC/6" AB), SEE DETAIL
- PROPOSED LANDSCAPE/GRASS AREA/EXSITING TREES,
SEE LANDSCAPE PLAN



Architect:

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Civil Site
Plan
C200

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THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL EXISTING UTILITIES LOCATED AND PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER AT LEAST THREE (3) DAYS PRIOR TO ANY SITE WORK FOR IDENTIFICATION OF EXISTING UTILITIES.

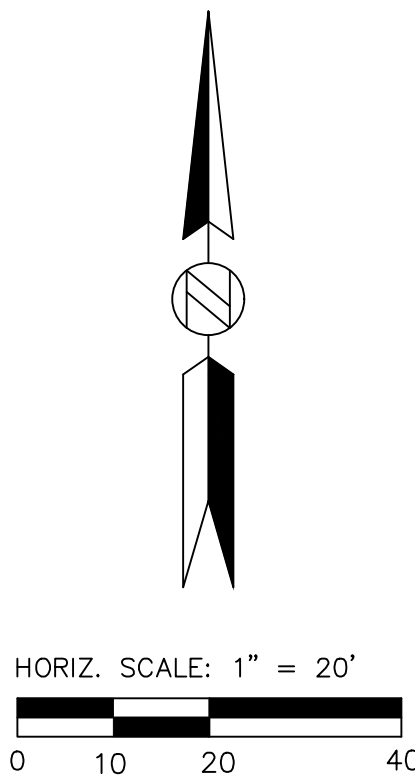
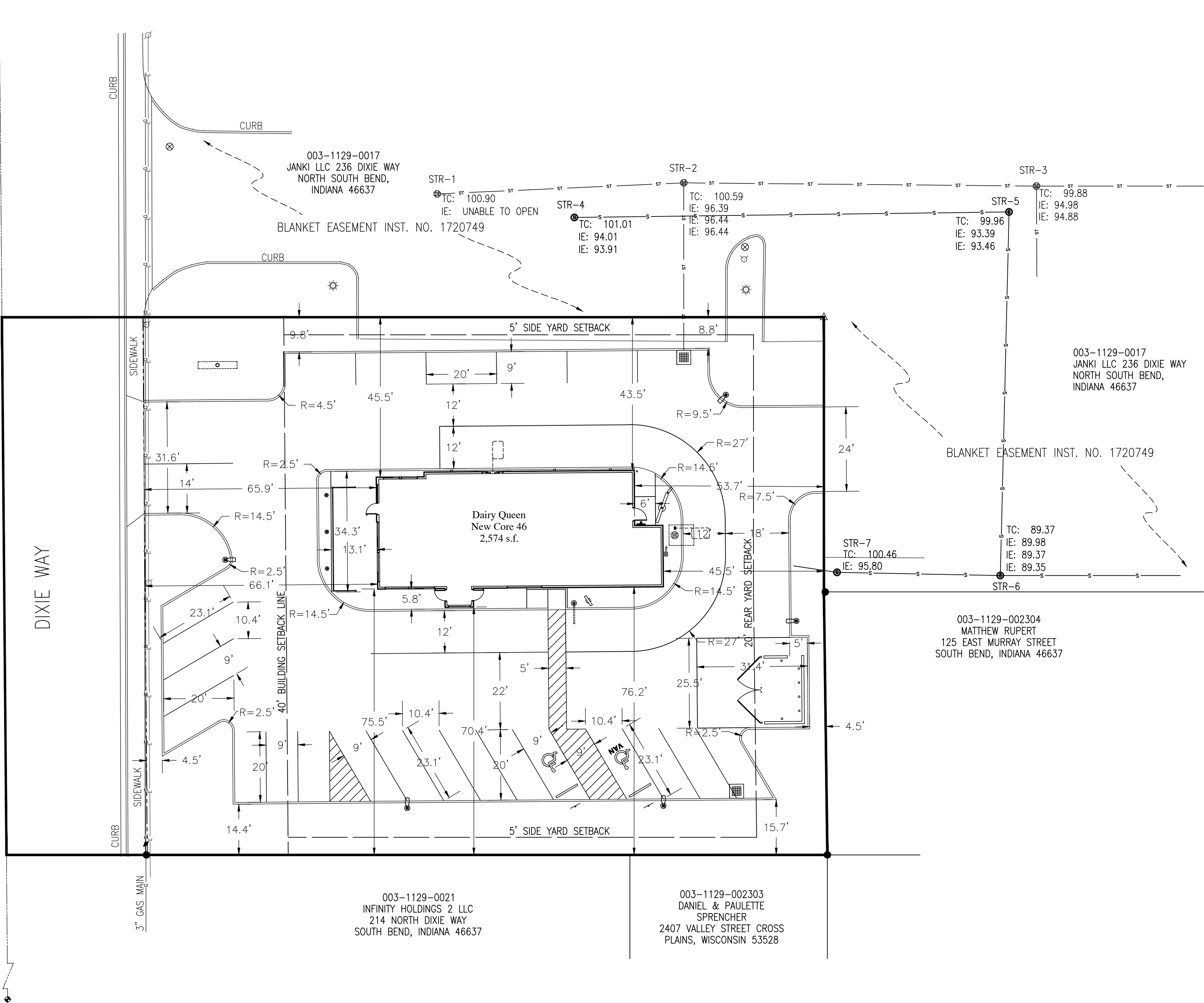
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE PROJECT SITE BEFORE BEGINNING CONSTRUCTION.

HORIZONTAL CONTROL NOTES

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT PROJECT SITE PRIOR TO BEGINNING CONSTRUCTION AND NOTIFY THE ENGINEER OF DISCREPANCIES.

ALL DIMENSIONS ARE TO FACE OF CURB/EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

ALL PARKING LOT CURB RADII ARE DIMENSIONED TO THE BACK OF CURB.



Architect:

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4516 Boardwalk | Smithton, IL | 62285
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IN Cert. of Authority: 201607221150881

LICENSE EXPIRES - 07.31.2022
DATE SIGNED - 12.30.2021

ENGINEER OF RECORD:
Todd J. Reyling, PE
Indiana PE 11400249

ISSUED / REVISED	DATE
ISSUED FOR REVIEW	12.30.2021

PROJECT NUMBER: 21-154

New Ground-Up Building:
DAIRY QUEEN
236 N. Dixie Way
Town of Roseland
South Bend, IN 46637
St. Joseph County

Civil Site Plan
Horizontal
Control
C201

GENERAL GRADING AND DRAINAGE NOTES:

CONTRACTOR SHALL COORDINATE WITH THE CITY OF SOUTH BEND REGARDING THE ENTRANCE CURB CUTS REMOVALS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL PERMITS FOR THE ENTRANCE CURB CUT RECONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL TRAFFIC CONTROL REQUIREMENTS.

CONTRACTOR SHALL VERIFY AND PROVIDE POSITIVE DRAINAGE FROM THE PROPOSED BUILDING TO THE EXISTING PAVEMENT/GROUND TIE-IN POINTS.

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CITY OF SOUTH BEND AND ST. JOSEPH COUNTY, INDIANA. CODES, STANDARDS AND SPECIFICATIONS.

ANY CITY OF SOUTH BEND OR ST. JOSEPH COUNTY, INDIANA INFRASTRUCTURE (ABOVE OR BELOW GRADE VISIBLE OR NOT) OR PROPERTY DAMAGED AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY.

ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE LOCAL, STATE, AND FEDERAL CODE REQUIREMENTS. WHEN CODES ARE IN CONFLICT, THE MORE STRINGENT SHALL APPLY.

GRADING LEGEND/KEYNOTES:

ALL GRADES ARE PAVEMENT ELEVATIONS
UNLESS OTHERWISE NOTED

- XXX.XX MATCH EX.

MATCH EXISTING PAVEMENT GRADE
- XXX.XX BC

PROPOSED SPOT GRADE AT BACK OF CURB
- XXX.XX SW

PROPOSED SPOT GRADE AT SIDEWALK
- XXX.XX PV

PROPOSED SPOT GRADE PAVEMENT ELEVATION
- XXX

EXISTING 1-FT CONTOUR LINE
- XXX

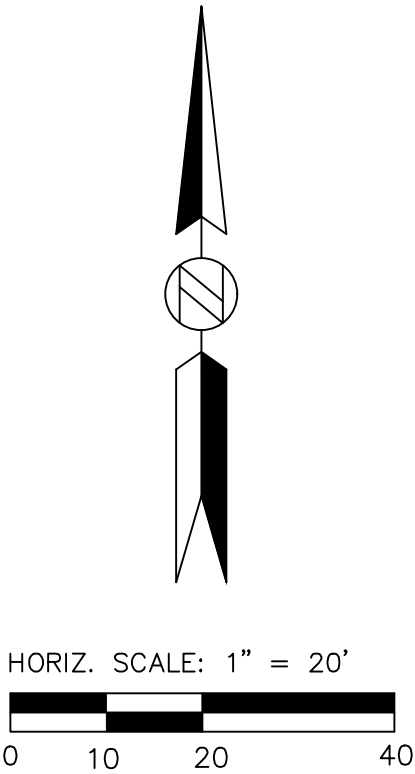
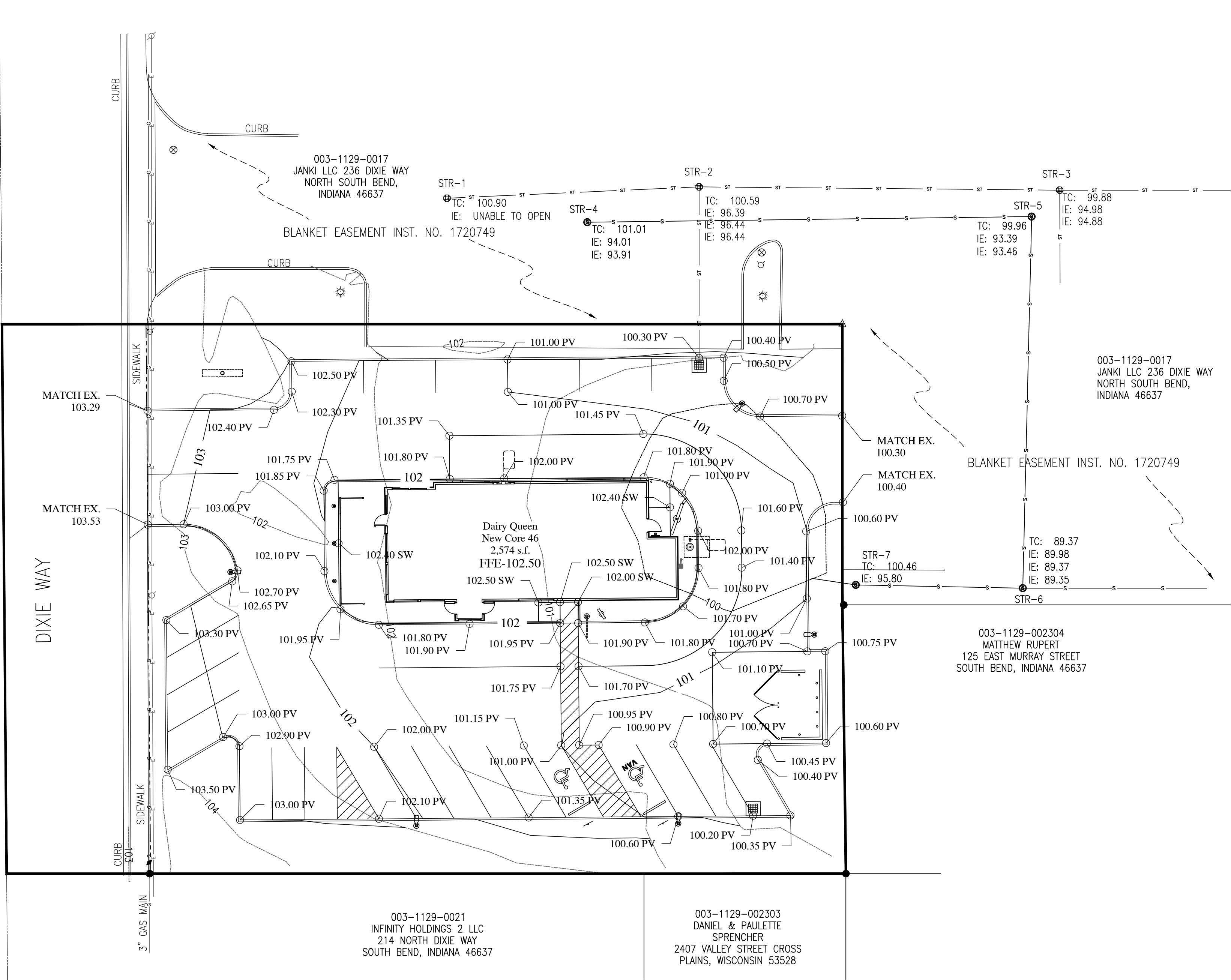
EXISTING 5-FT CONTOUR LINE
- XXX

PROPOSED 1-FT CONTOUR LINE
- XXX

PROPOSED 5-FT CONTOUR LINE

FLOOD PLAIN NOTE:

FLOOD PLAIN DETERMINATION IS RESTRICTED TO A REVIEW OF THE FLOOD INSURANCE RATE MAPS (FIRM) LATEST REVISIONS AND SHALL NOT BE CONSTRUED AS A CONFORMATION OF OR DENIAL OF THE FLOODING POTENTIAL. THE PROPERTY SHOWN HEREON IS IN AN AREA OF 0.2% ANNUAL CHANCE OF FLOOD (ZONE X) BASED ON FUTURE CONDITIONS HYDROLOGY, AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM MAP NO. 18141C0184D & 18141C0203D, DATED JANUARY 6, 2011.



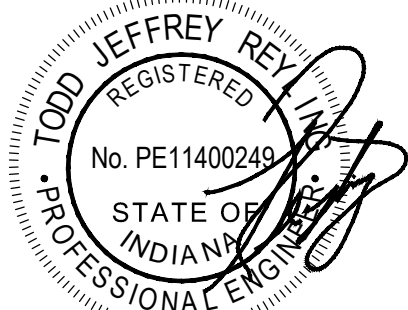
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Civil Engineer:



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Grading
Plan

C300

STORM DRAIN KEY NOTES:

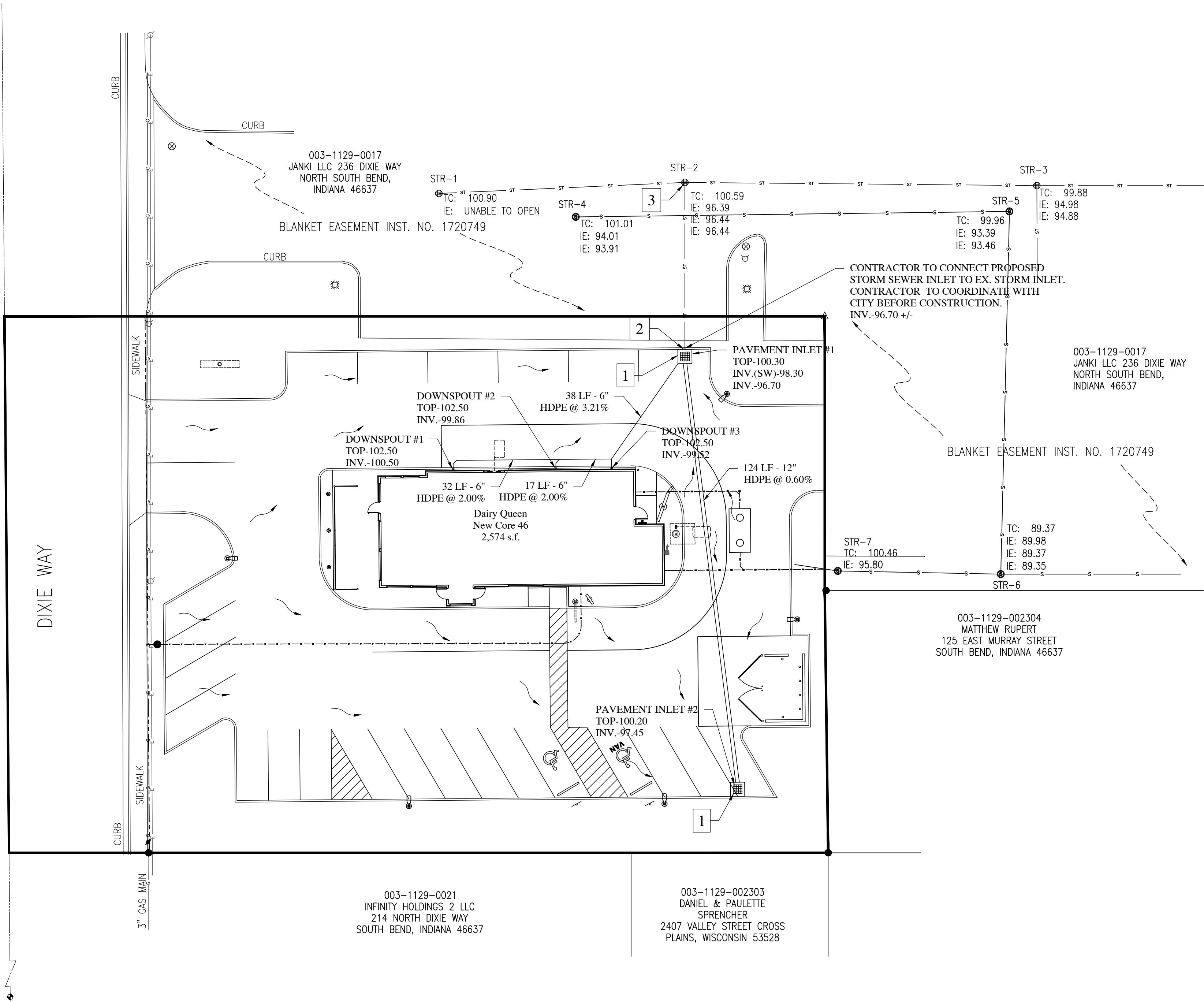
- 1

PROPOSED STORM DRAIN INLET IN PAVEMENT AREAS, STORM DRAIN INLETS SHALL HAVE TRAFFIC RATED CAST IRON FRAME WITH SITE CAST CONCRETE
- 2

PROPOSED STORM PIPE CONNECTION TO EXISTING STORM SEWER. CONTRACTOR TO COORDINATE WITH CITY OF SOUTH BEND FOR CONNECTION POINT.
- 3

EXISTING STORM INLET TO REMAIN - CONTRACTOR TO PROTECT IN PLACE.

 DIRECTION OF OVERLAND FLOW PATH.



Architect:



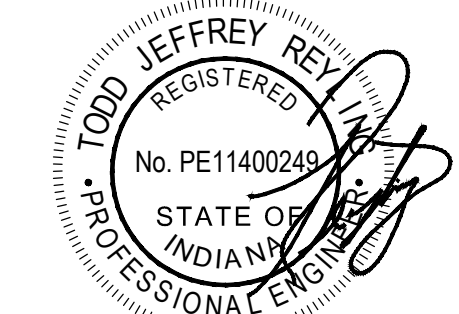
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Stormwater
Drainage Plan
C400

SANITARY SEWER KEY NOTES

- 1

PROPOSED 6" PVC SDR-35 GREASE SANITARY SEWER SERVICE TO BUILDING AT INVERT = 98.75±. SEE PLUMBING PLANS FOR CONNECTION INTO BUILDING.
- 2

PROPOSED 6" PVC SDR-35 SANITARY SEWER SERVICE TO BUILDING AT INVERT = 96.75 ±. SEE PLUMBING PLANS FOR CONNECTION INTO BUILDING.
- 3

PROPOSED SANITARY SEWER CLEANOUT, SEE DETAIL.
- 4

PROPOSED 30 LF OF 6" PVC SDR-35 GREASE SANITARY SEWER LATERAL AT 4.00%.
- 5

PROPOSED 5 LF OF 6" PVC SDR-35 GREASE SANITARY SEWER LATERAL AT 5.00%.
- 6

PROPOSED GREASE INTERCEPTOR. TOP ELEVATION = 101.50. UPSTREAM INV.: 97.30 DOWNSTREAM INV.: 97.05, SEE PLUMBING PLANS FOR DETAILS.
- 7

PROPOSED 5 LF OF 6" PVC SDR-35 SANITARY SEWER LATERAL AT 14.80%.
- 8

PROPOSED 45 LF OF 6" PVC SDR-35 SANITARY SEWER LATERAL AT 2.00%.
- 9

CONTRACTOR TO CONNECT PROPOSED 6" PVC SDR-35 SANITARY SEWER SERVICE TO EXISTING SANITARY SEWER SERVICE AT ELEV.-95.85+/-, CONTRACTOR TO COORDINATE WITH SANITARY SEWER DISTRICT FOR SERVICE CONNECTION AND ANY STREET REAPIRS.

DRY UTILITY KEY NOTES

- 1

PROPOSED ELECTRICAL SERVICE METER AND STUB TO BUILDING. SEE ELECTRICAL PLANS FOR CONNECTION INTO BUILDING.
- 2

PROPOSED ELECTRICAL SERVICE FROM NEW BUILDING TO PAD MOUNTED TRANSFORMER. CONTRACTOR TO COORDINATE WITH ELECTRIC COMPANY FOR SERVICE AND PLACEMENT.
- 3

PROPOSED ELECTRIC SERVICE FROM PROPOSED TRANSFORMER TO EXISTING POWER SOURCE. CONTRACTOR TO COORDINATE WITH ELECTRIC COMPANY FOR SERVICE.
- 4

PROPOSED TELEPHONE AND DATA SERVICE STUB TO BUILDING.
- 5

PROPOSED TELEPHONE AND DATA SERVICE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR SERVICE.
- 6

EXISTING DATA/COMMUNICATION CONNECTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR SERVICE.
- 7

PROPOSED GAS SERVICE METER AND STUB TO BUILDING. SEE MECHANICAL PLANS FOR CONNECTION INTO BUILDING.
- 8

PROPOSED GAS SERVICE FROM NEW BUILDING TO EXISTING GAS MAIN. CONTRACTOR TO COORDINATE WITH GAS COMPANY FOR SERVICE.
- 9

EXISTING GAS MAIN CONNECTION. CONTRACTOR TO COORDINATE/VERFIY WITH GAS COMPANY FOR PROPOSED LOCATION AND TAP.

NOTE:

ALL BUILDING POC SIZES AND LOCATIONS ARE FOR REFERENCE ONLY. CONTRACTOR TO CONSULT THE MECHANICAL, ELECTRICAL, AND PLUMBING ENGINEER TO CONFIRM EXACT BUILDING SIZES AND LOCATIONS.

TITLE DISCLAIMER:

IT IS NOT WARRANTED THAT THESE DRAWINGS CONTAIN COMPLETE INFORMATION REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, RIGHT-OF-WAYS, BUILDING LINE SETBACKS, AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED AND THOROUGHLY REVIEWED.

UTILITY INFORMATION:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES, AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS.



INDIANA UTILITY LOCATION SERVICE
PHONE: 800.382.5544 OR WWW.INDIANA811.ORG

WATER KEY NOTES

- 1

PROPOSED 1-1/2" DOMESTIC WATER SERVICE STUB INTO BUILDING. SEE PLUMBING PLANS FOR CONNECTION INTO BUILDING.
- 2

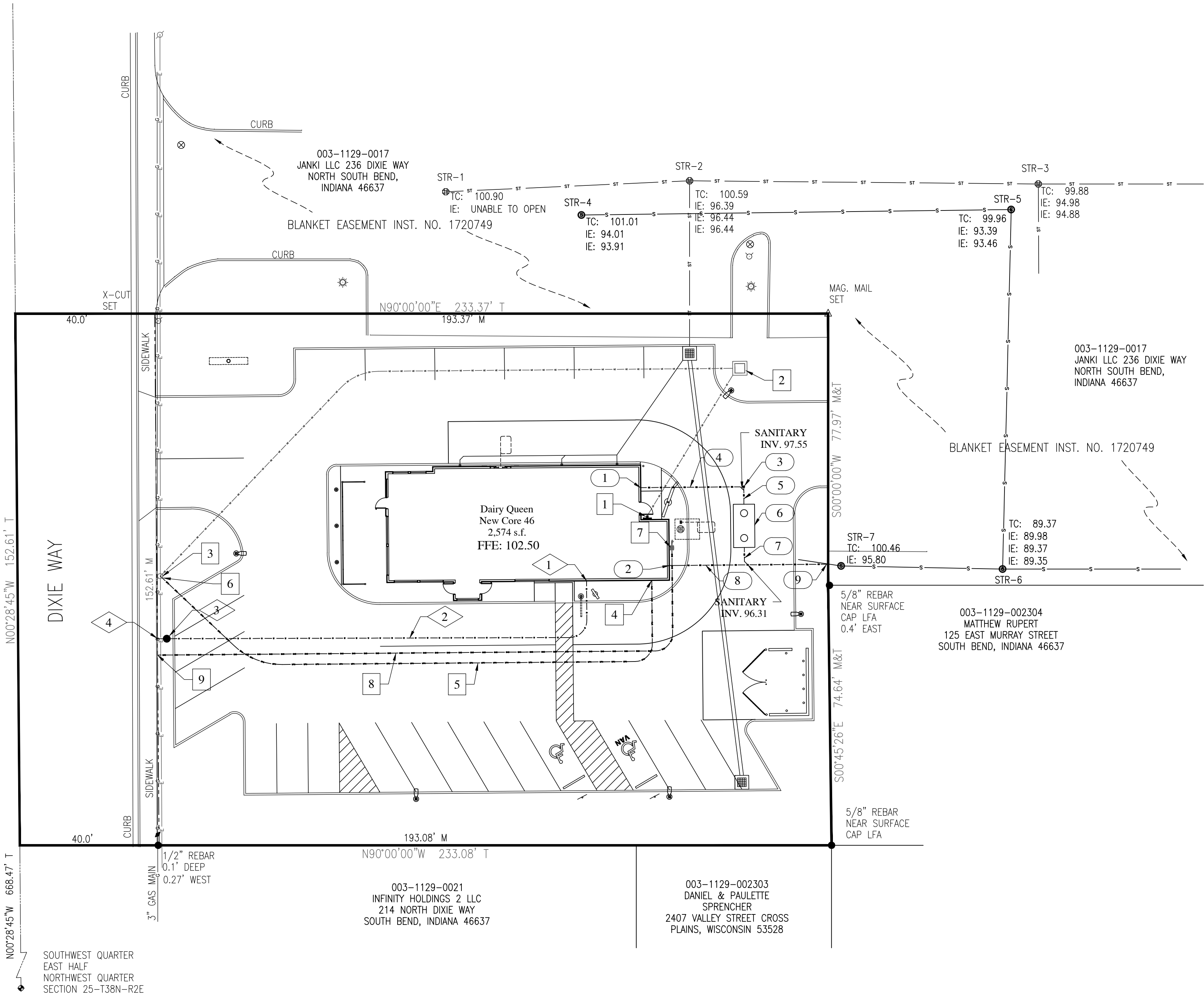
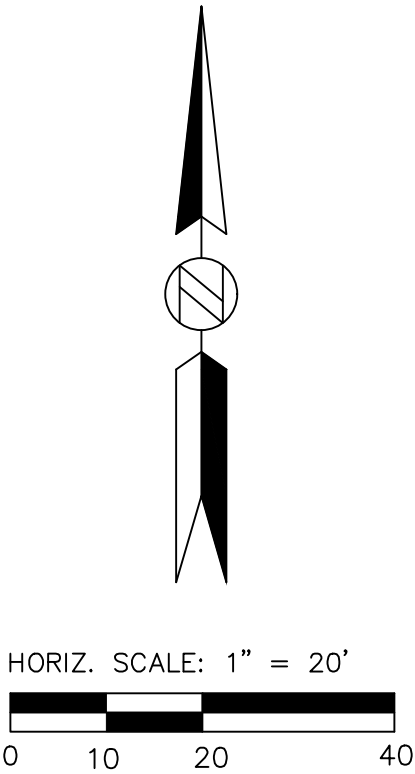
PROPOSED 1-1/2" DOMESTIC WATER LINE (FLEXIBLE TYPE "K" COPPER) TO BUILDING. MINIMUM BURY DEPTH 42" BELOW FINISHED GRADE.
- 3

PROPOSED 1-1/2" DOMESTIC WATER METER. CONTRACTOR TO COORDINATE INSTALLATION AND SERVICE WITH WATER COMPANY.
- 4

PROPOSED 1-1/2" DOMESTIC WATER SERVICE TAP. CONTRACTOR TO COORDINATE INSTALLATION OF TAP AND SERVICE WITH WATER COMPANY.

UTILITY CONTACTS

WATER:	CITY OF SOUTH BEND DIVISION OF WATER WORKS 574.235.9251
ELECTRIC:	AMERICAN ELECTRIC POWER 574.236.1621
GAS:	IGS ENERGY 888.995.0992
SANITARY SEWER:	CITY OF SOUTH BEND WASTEWATER 574.235.9251
STORM SEWER:	CITY OF SOUTH BEND 574.235.9251
COMMUNICATIONS:	AT&T 574.208.6006



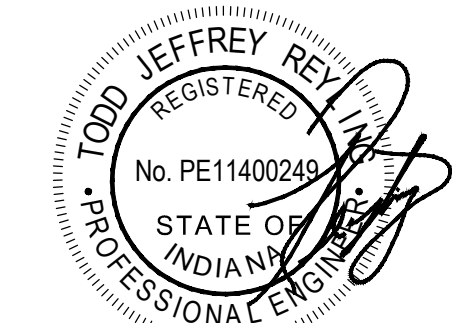
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St. Joseph County

Site Utility
Plan

C500

SEDIMENT AND EROSION CONTROL NOTES:

ALL SEDIMENT AND EROSION CONTROL PRACTICES SHALL BE IN COMPLIANCE WITH CITY OF SOUTH BEND, ST. JOSEPH COUNTY, INDIANA AND THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.

APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN.

THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR/ESC RESPONSIBLE PARTY UNTIL ALL CONSTRUCTION IS APPROVED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL PERMITTING.

THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR/ESC RESPONSIBLE PARTY FOR THE DURATION OF THE CONSTRUCTION.

THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND THAT TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.

THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED CONSTRUCTION ACTIVITIES. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS.

THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR/ESC RESPONSIBLE PARTY AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEW OF THE ESC FACILITIES.

ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING WET SEASON OR SEVEN DAYS THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC COVER METHODS (SEEDING, MULCHING, ETC.)

ANY AREA NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN DAYS.

THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.

ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.

PRIOR TO THE BEGINNING OF THE WET SEASON, ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER WEATHER. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE ESC INSPECTOR FOR REVIEW.

EROSION CONTROL BLANKETS, SOIL BINDERS, OR HYDROSEEDING SHALL BE USED TO PREVENT SOIL EROSION. AREAS THAT ARE EXPOSED FOR 14 DAYS OR MORE ARE INACTIVE AND MUST BE COVERED. ALL OTHER AREAS SHALL BE PROTECTED AS REQUIRED TO PREVENT SOIL EROSION.

LAND DISTURBANCE NOTE:

THE TOTAL SITE DISTURBANCE FOR THIS DEVELOPMENT IS 0.58 ACRES. THIS IS LESS THAN ONE (1.00) ACRE, THEREFORE A NOTICE OF INTENT (NOI), LAND DISTURBANCE PERMIT WILL NOT BE REQUIRED. HOWEVER, THE CONTRACTOR IS STILL REQUIRED TO PROVIDE AND MEET THE EROSION AND SEDIMENT CONTROL MEASURES PER THE CITY OF SOUTH BEND AND THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.

EROSION AND SEDIMENT CONTROL BASIC PRACTICES:

PRESERVE AND PROTECT AREAS OF NATURAL VEGETATION. AREAS TO BE PRESERVED SHALL BE PROTECTED WITH SILT FENCING TO PREVENT DAMAGE FROM CONSTRUCTION OPERATIONS.

TAKE SPECIAL PRECAUTIONS TO PREVENT DAMAGE THAT COULD RESULT FROM DEVELOPMENT ACTIVITIES NEAR WATERCOURSES, LAKES, AND WETLANDS.

MINIMIZE THE EXTENT AND DURATION OF THE DEVELOPMENT AREA EXPOSED AT ONE TIME.

APPLY TEMPORARY EROSION CONTROL PRACTICES AS SOON AS POSSIBLE TO STABILIZE EXPOSED SOILS AND PREVENT ON-SITE DAMAGE.

INSTALL SEDIMENT BASINS OR TRAPS, FILTER BARRIERS, DIVERSIONS, AND PERIMETER CONTROL MEASURES PRIOR TO SITE CLEARING AND GRADING TO PROTECT THE DISTURBED AREA FROM OFF-SITE AND ON-SITE RUNOFF AND TO PREVENT SEDIMENT TRANSPORT TO AREAS DOWNSTREAM OF THE DEVELOPMENT SITE.

KEEP RUNOFF VELOCITIES LOW, AND RETAIN RUNOFF ON SITE AS MUCH AS POSSIBLE.

PROVIDE MEASURES TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS.

IMPLEMENT FINAL GRADING AND INSTALL PERMANENT VEGETATION ON DISTURBED AREAS AS SOON AS POSSIBLE.

SITE AND BEST MANAGEMENT PRACTICE (BMPs) INSPECTIONS MUST BE COMPLETED WEEKLY, OR AFTER EACH STORM EVENT RESULTING IN MORE THAN 0.5 INCH OF RAINFALL. THE PURPOSE OF THE INSPECTIONS IS TO ASSESS AND DETERMINE WHETHER THE SOIL EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE EROSION CONTROL PLAN ARE OPERATING PROPERLY AND EFFECTIVELY, AND TO INITIATE MAINTENANCE AS NEEDED. INSPECTIONS SHOULD INCLUDE A VISUAL OBSERVATION OF ALL DISTURBED AREAS OF THE REGULATED DEVELOPMENT, MATERIAL STORAGE AREAS, SEDIMENT AND EROSION CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE, AND ACCESSIBLE DISCHARGE POINTS/OUTFALLS.

INSPECTIONS SHOULD BE COMPLETED AND CONDUCTED BY QUALIFIED INSPECTORS WHO ARE FAMILIAR WITH THE EROSION CONTROL PLAN AND THE BMPs IMPLEMENTED AT THE SITE. IN GENERAL, IF INSPECTIONS INDICATE THAT A BMP IS NOT OPERATING PROPERLY, IT IS RECOMMENDED THAT MAINTENANCE AND MODIFICATION OF THE BMP BE PERFORMED AS SOON AS POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE AND NO LATER THAN SEVEN (7) CALENDAR DAYS FROM THE INSPECTION DATE. TO ENSURE ITS CONTINUED EFFECTIVENESS. MINIMUM MAINTENANCE STANDARDS FOR EACH SPECIFIC BMP ARE INCLUDED IN THE EROSION CONTROL PLAN.

THE REGULATED DEVELOPMENT MUST KEEP A COPY OF THE EROSION CONTROL PLAN ON SITE AT ALL TIMES DURING CONSTRUCTION AND MAKE THE PLAN AVAILABLE FOR REVIEW BY A FIELD REPRESENTATIVE UPON REQUEST.

EROSION AND SEDIMENTATION CONTROL
RECOMMENDED CONSTRUCTION SEQUENCE:

1. CONTRACTOR TO CONDUCT A PRE-CONSTRUCTION MEETING.
2. CONTRACTOR TO POST A SIGN WITH NAME AND PHONE NUMBER OF ESC RESPONSIBLE PARTY.
3. CONTRACTOR TO FLAG AND FENCE CLEARING LIMITS.
4. INSTALL CATCH BASIN PROTECTION, IF REQUIRED.
5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
6. CONTRACTOR TO INSTALL PERIMETER BARRIER, SILT FENCE, ETC.
7. CONSTRUCT SEDIMENT PONDS AND TRAPS, IF REQUIRED.
8. GRADE AND STABILIZE CONSTRUCTION ROADS.
9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH APPLICABLE STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
11. RELOCATED EROSION CONTROL MEASURES OR INSTALL NEW MEASURES AS SITE CONDITIONS CHANGE TO ENSURE THE SEDIMENT AND EROSION CONTROL IS ALWAYS IN ACCORDANCE WITH APPLICABLE STANDARDS.
12. COVER ALL AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST OR EQUIVALENT.
13. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
14. SEED OF SOD ANY AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN 30 DAYS.
15. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMPs REMOVED IF APPROPRIATE.

STREET SWEEPING NOTE:

CONTRACTOR SHALL SWEEP/REMOVE ALL SEDIMENT AND DEBRIS WITHIN THE ROADWAY AT THE END OF EACH DAY

EROSION AND SEDIMENT CONTROL KEY NOTES:

- A — LIMITS OF CONSTRUCTION
- B.X — PERIMETER EROSION BARRIER SILT FENCE
- C.X — PAVEMENT INLET/PIPE SEDIMENT PROTECTION

TEMPORARY CONSTRUCTION
SANITARY FACILITIES

STAGING AREA FOR VEHICLE
AND EQUIPMENT CLEANING,
FUELING, AND MAINTENANCE

STAGING AREA FOR MATERIAL
DELIVERY AND STORAGE

WASTE STORAGE AREA

TEMPORARY CONCRETE
WASHOUT AREA

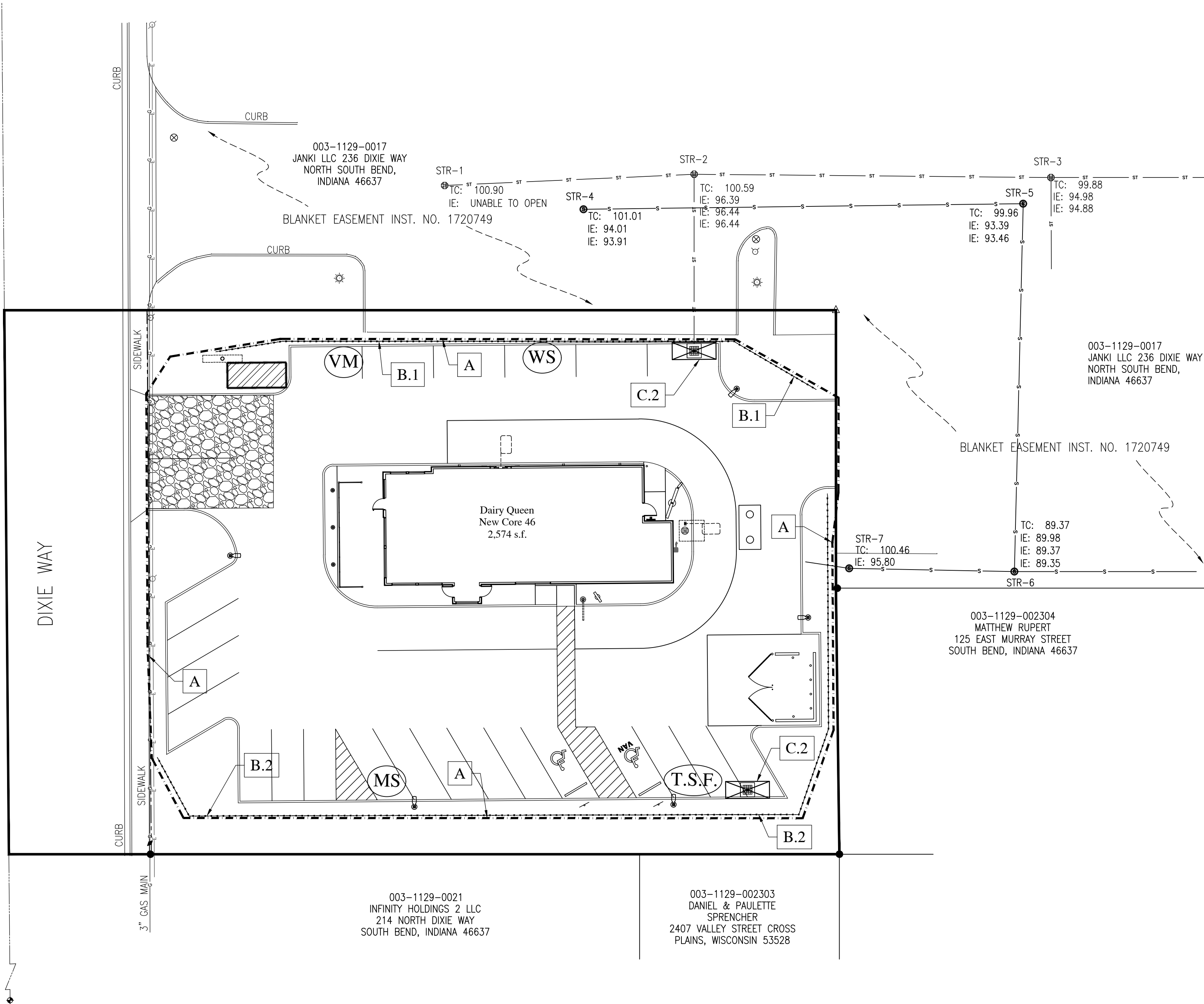
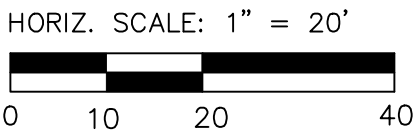
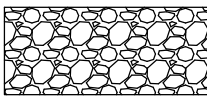
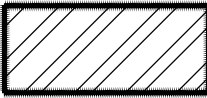
STABILIZED CONSTRUCTION
ENTRANCE

(T.S.F.)

(VM)

(MS)

(WS)



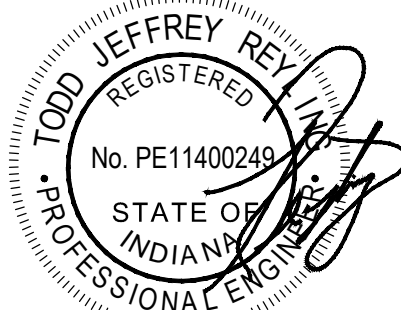
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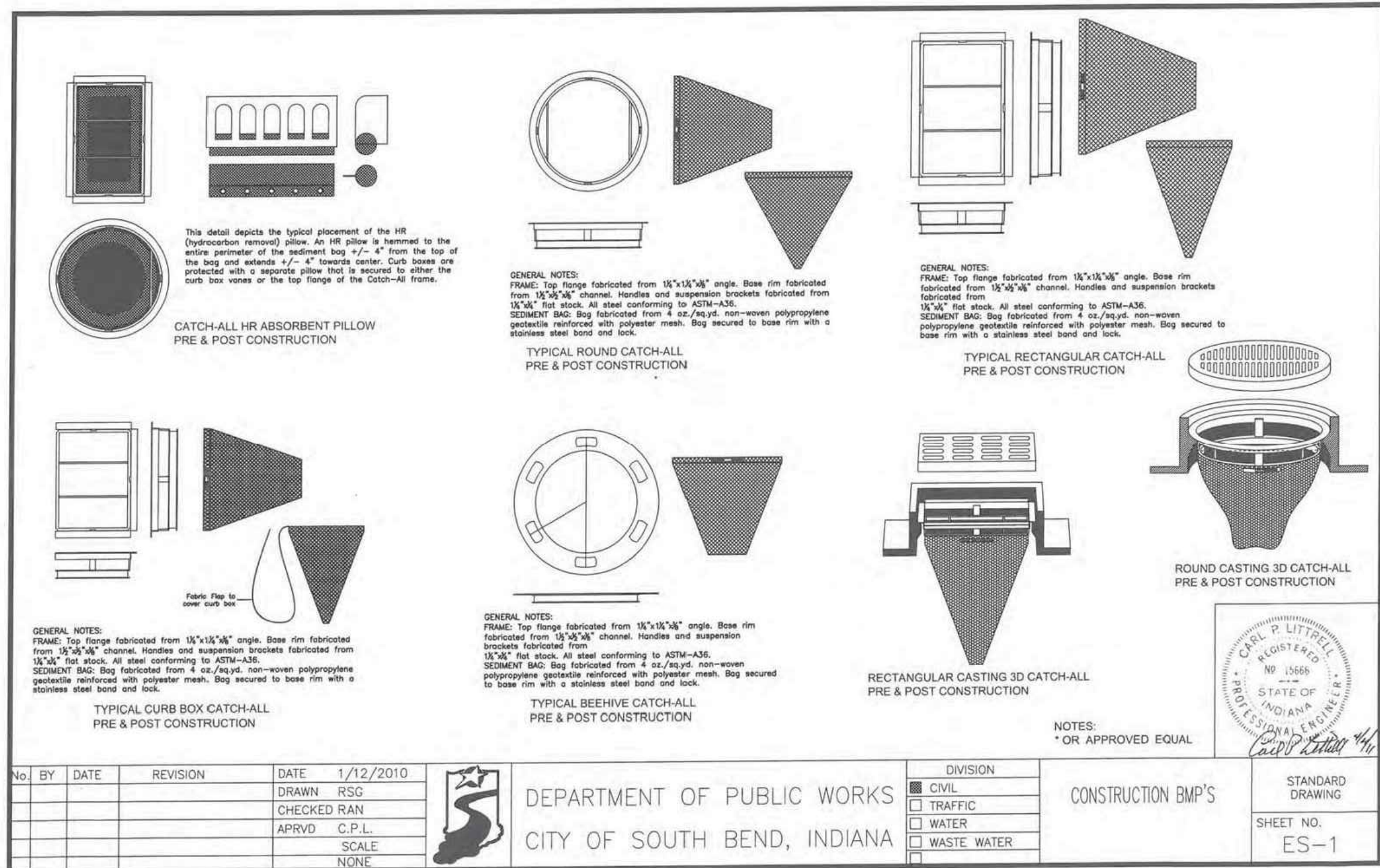
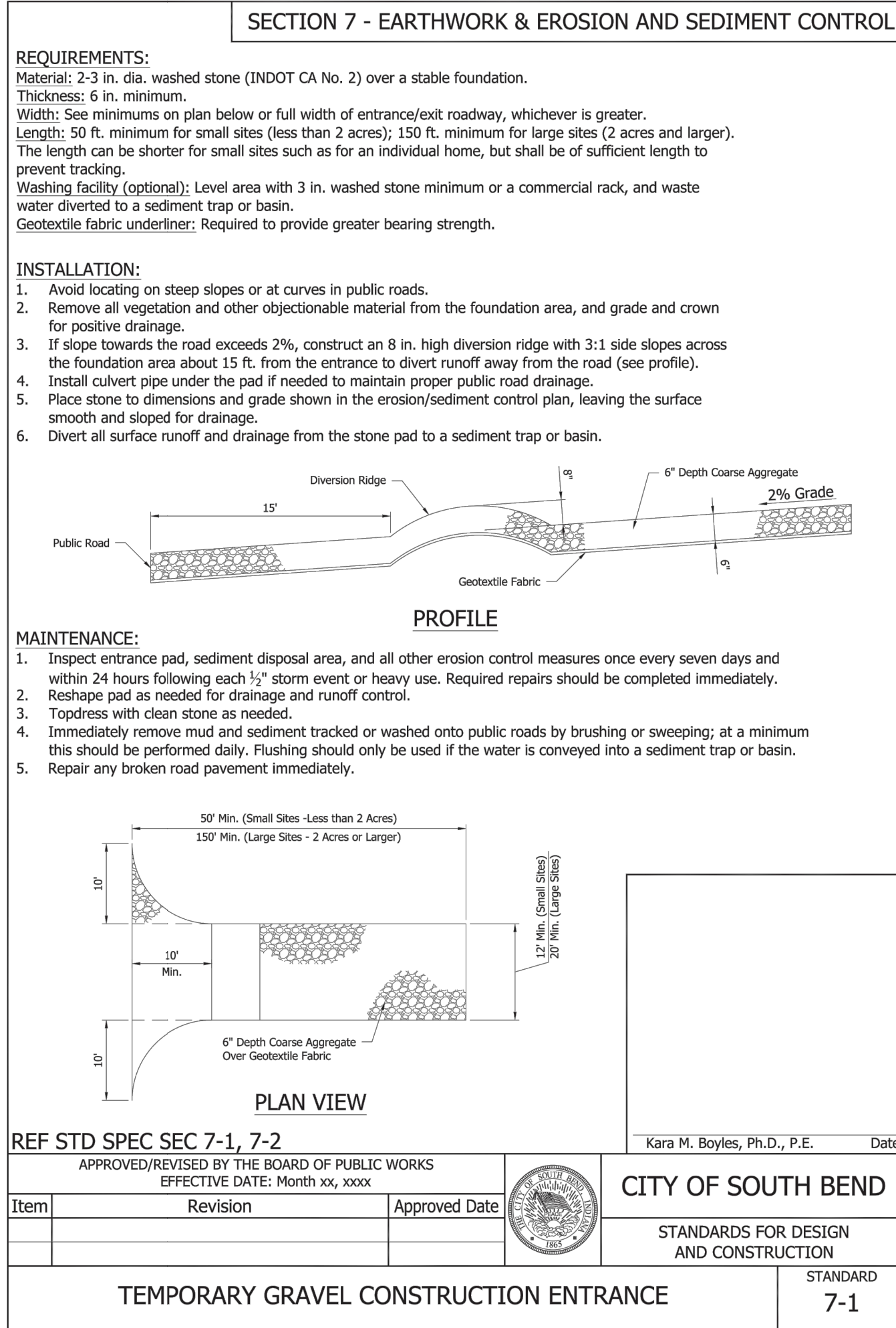
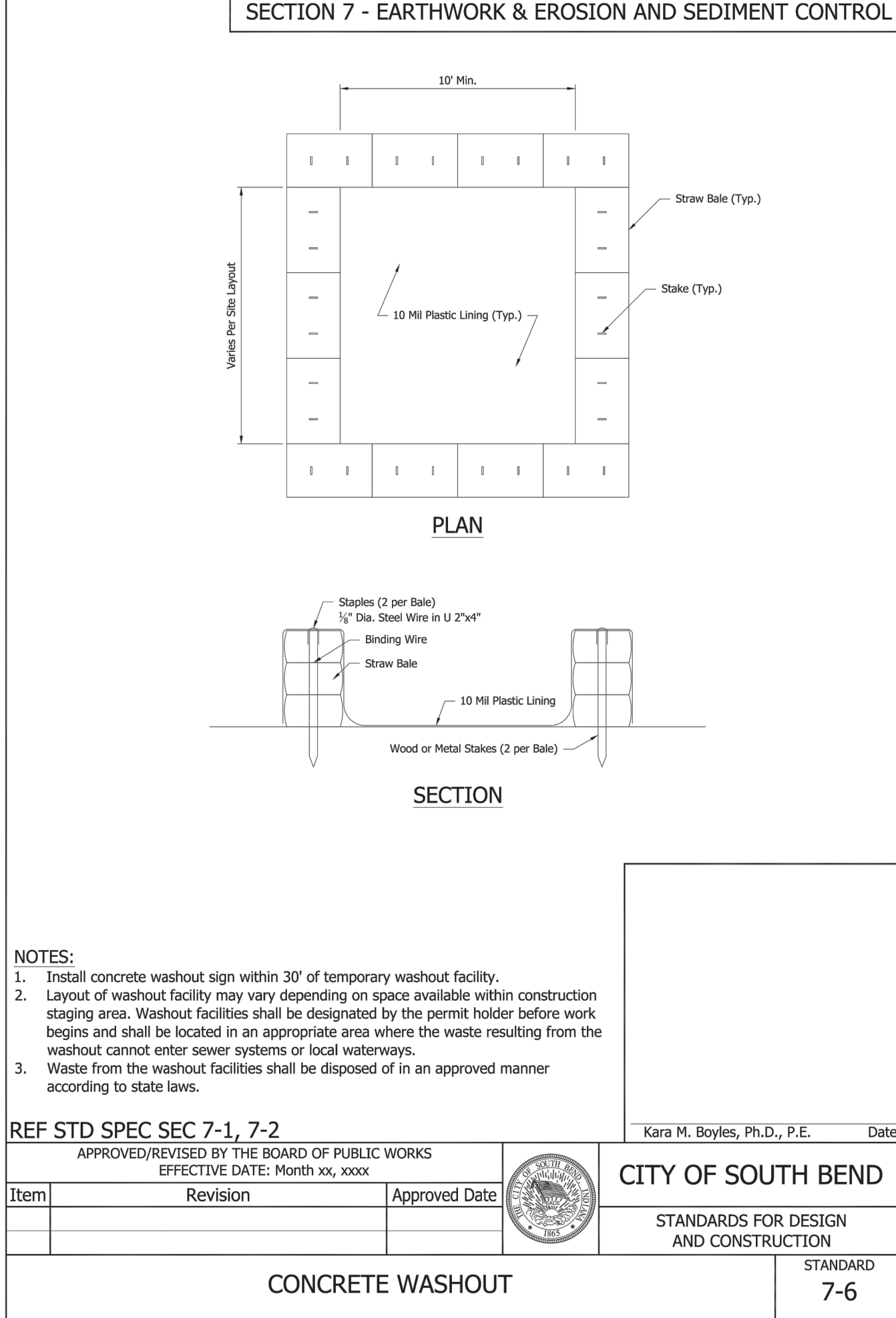
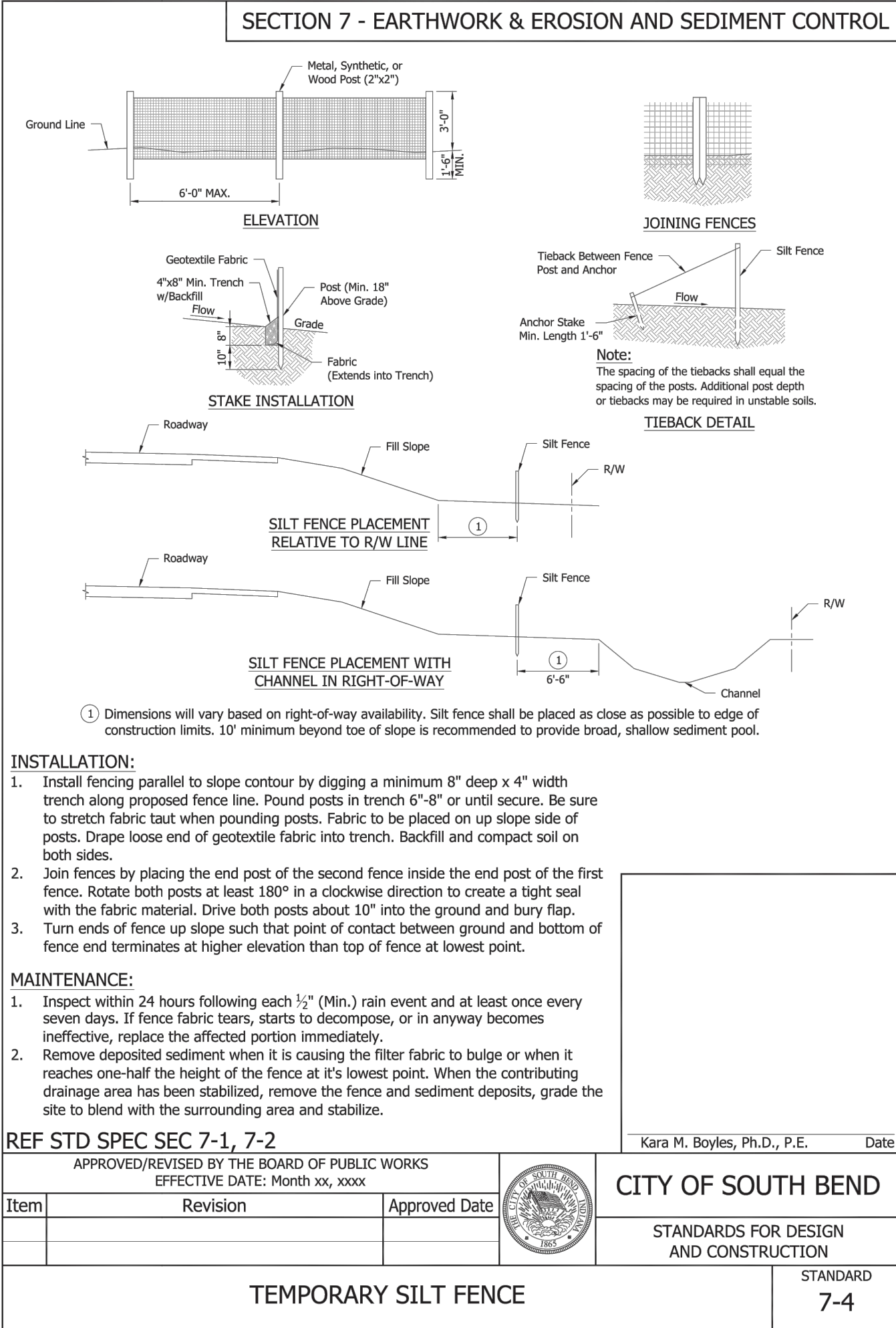
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Sediment and
Erosion Control
Plan

C600



Architect:

JSO

JOHN S. ODOM, ARCHITECT
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E-MAIL: JOHN@JOHNSODOM.COM

Civil Engineer:

RDC

REYLING DESIGN & CONSULTING

4516 Boardwalk | Smithton, IL | 62285
reylingdc@gmail.com

IN Cert. of Authority: 201607221150881



ENGINEER OF RECORD:
Todd J. Reyling, PE
Indiana PE 11400249

ISSUED / REVISED	DATE
ISSUED FOR REVIEW	12.30.2021

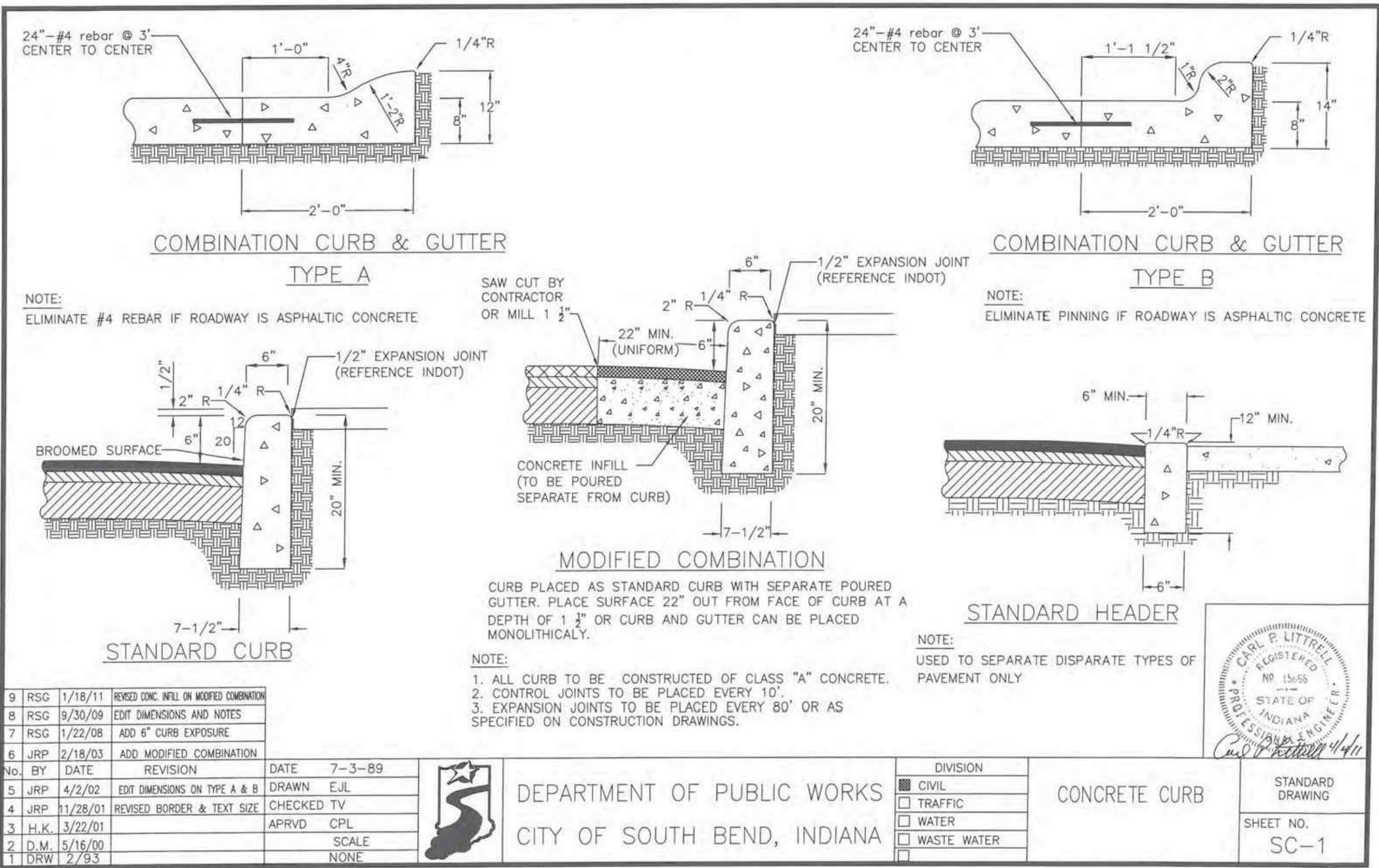
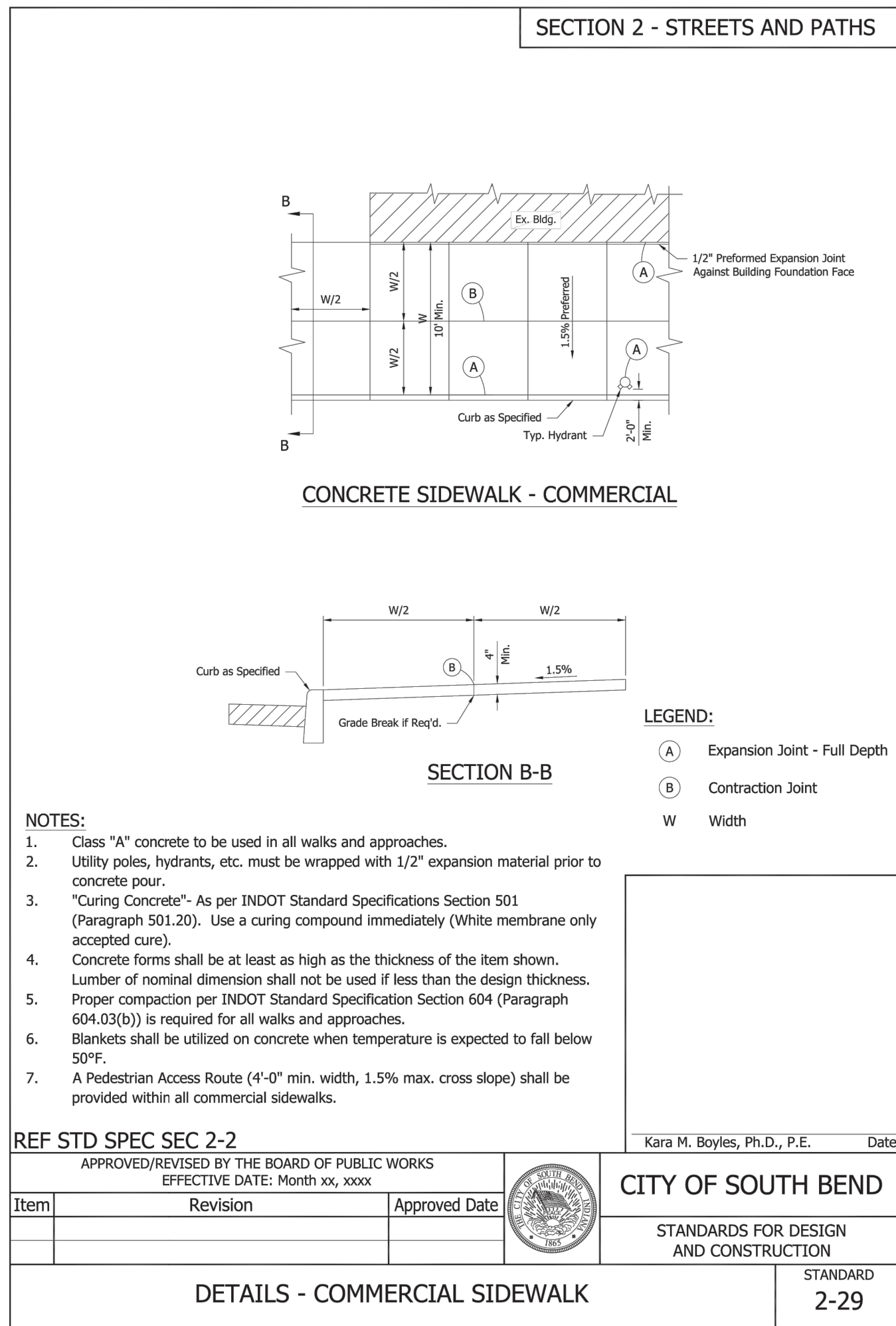
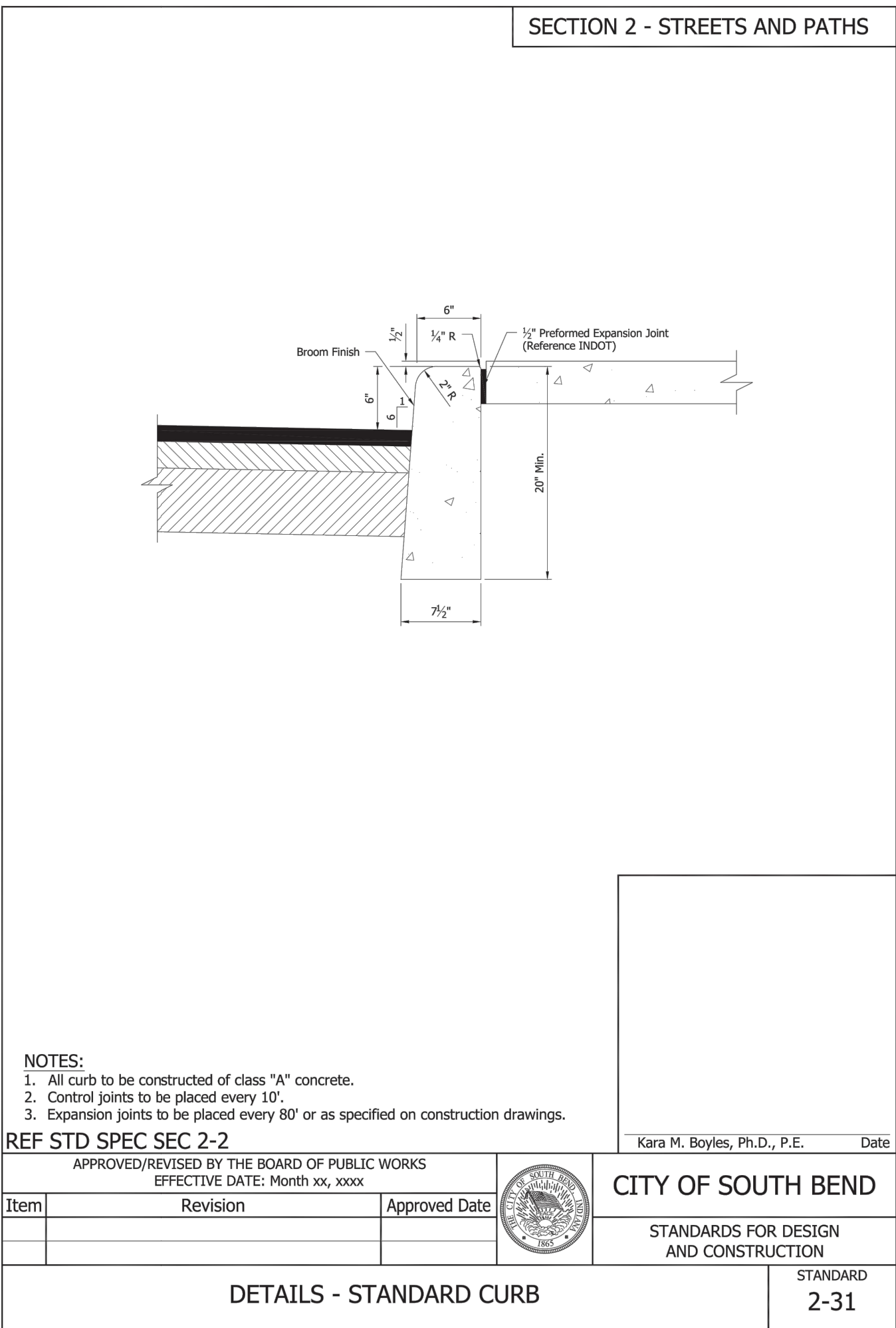
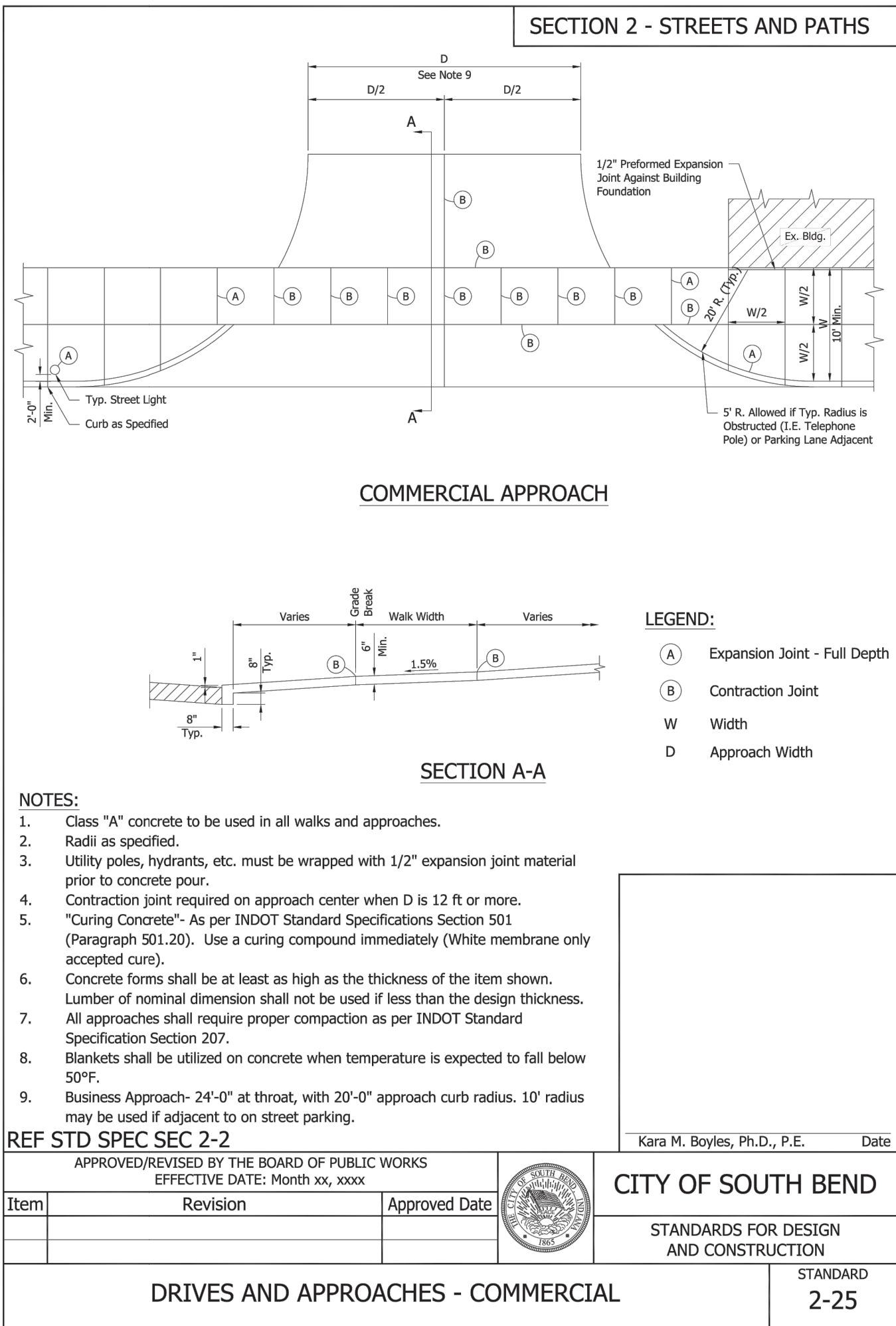
PROJECT NUMBER: 21-154

New Ground-Up Building:

DAIRY QUEEN

236 N. Dixie Way
Town of Roseland
South Bend, IN 46637
St. Joseph County

Construction
Details
C700



Architect:

JSD

JOHN S. ODOM, ARCHITECT
89 MEADOWBROOK COUNTRY CLUB ESTATES
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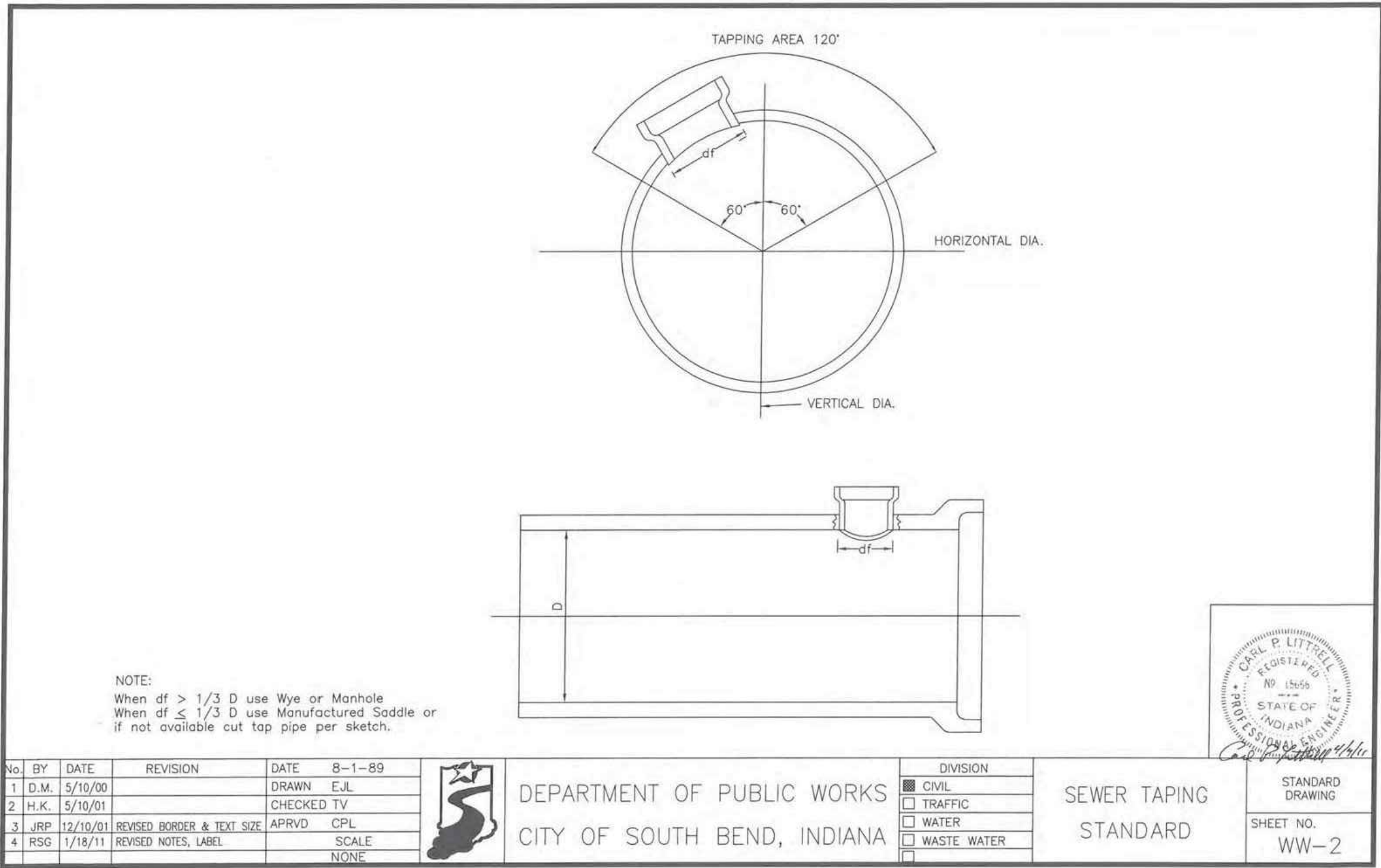
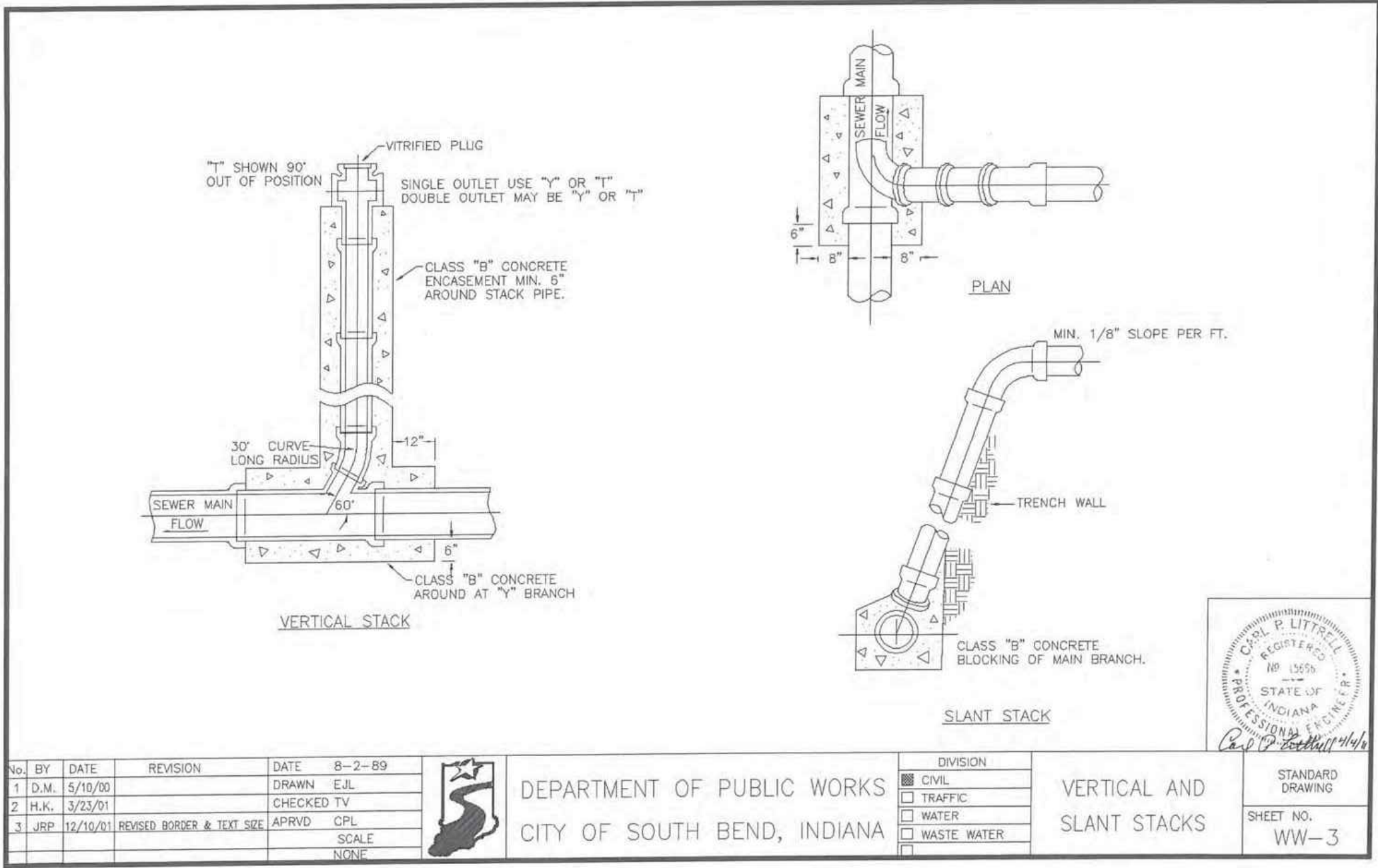
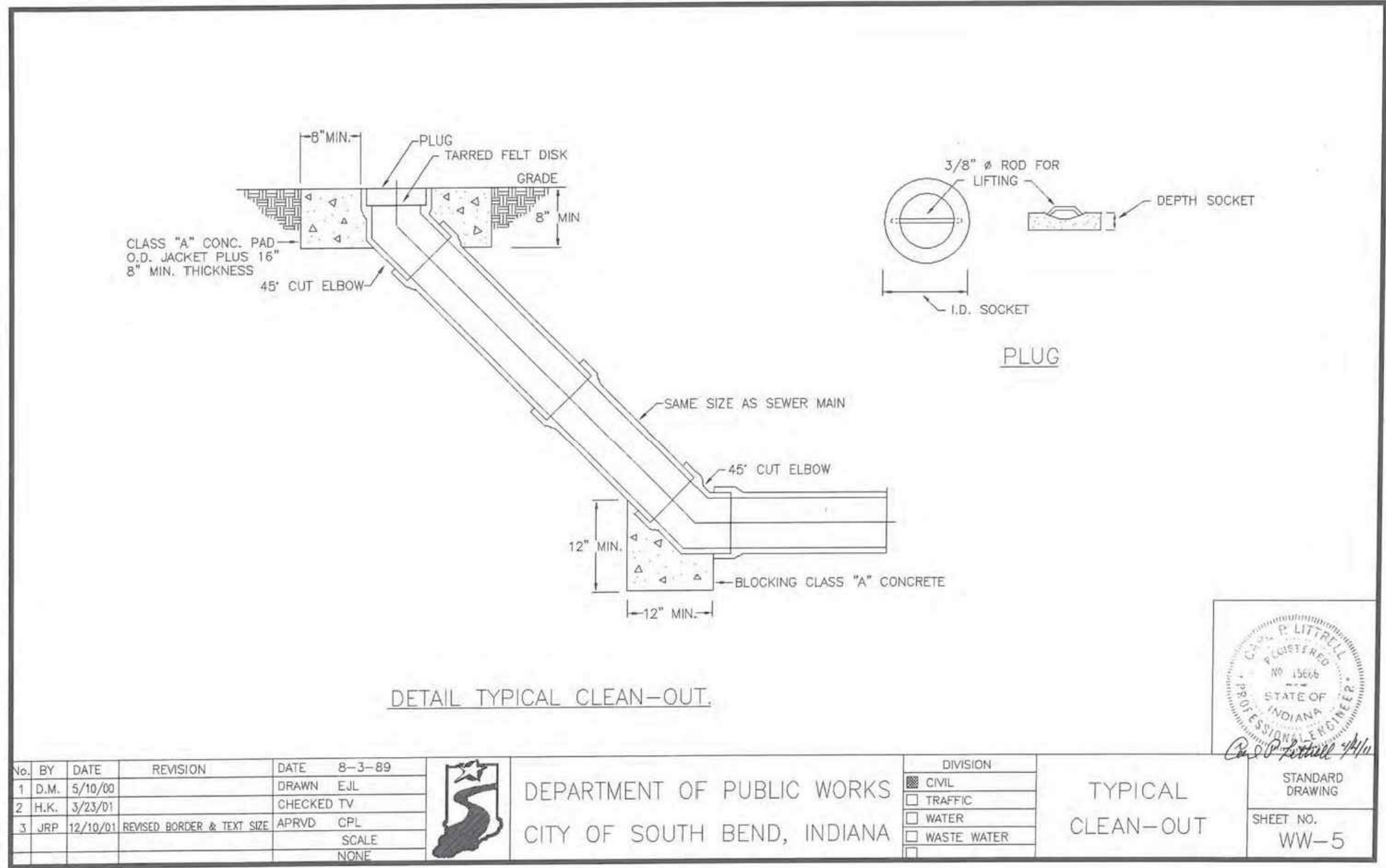
New Ground-Up Building:

DAIRY QUEEN

236 N. Dixie Way
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South Bend, IN 46637
St. Joseph County

Construction
Details

C701



Architect:
JSO
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reylngdc@gmail.com

IN Cert. of Authority: 201607221150881

TODD EFFREY REY
REGISTERED
No. PE11400249
STATE OF INDIANA
PROFESSIONAL ENGINEER
LICENSE EXPIRES - 07.31.2022
DATE SIGNED - 12.30.2021

ENGINEER OF RECORD:
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Indiana PE 11400249

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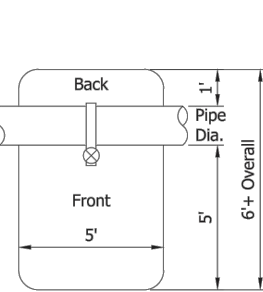
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New Ground-Up Building:
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South Bend, IN 46637
St. Joseph County

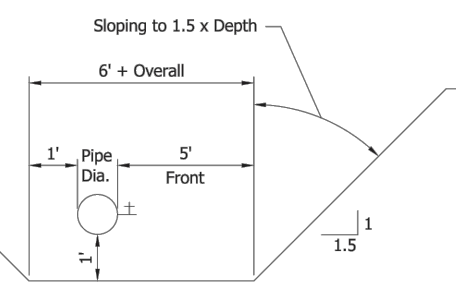
Construction
Details
C702

1" AND 2" TAP

- * 1" Tap Shall be Level to 45° up
- * 2" Taps Shall be Level
- * Depth Shall be 1' Below Main (at Main)
- * Tap Shall be a Min. 1' Laterally From Other Taps or Joints
- * 1' Below Water Main
- * 1' Behind Water Main
- * 5' Wide Excavation
- * 5' in Front of Water Main

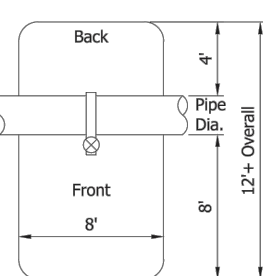


TOP VIEW

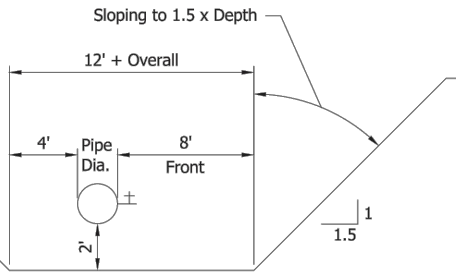


SIDE VIEW

1" AND 2" TAP EXCAVATION



TOP VIEW



SIDE VIEW

4" TO 12" TAP EXCAVATION

NOTE:


Shown are minimum excavations required - sheeting and shielding or sloping to 1.5 x depth is also needed.

SOUTH BEND WATER WORKS TAPPING REQUIREMENTS:

1. Call 811 or (800) 382-5544 for utility locate a minimum of 48 hours prior to excavation.
2. The plumber or contractor must obtain all permits required by the City Engineering Department, (excavation, street cuts, and sidewalk permits)
3. Call Engineering Department (574) 235-9251 a minimum of 48 hours prior to excavation and street closure.
4. The City of North Mankato will provide a permit (574) 235-9279 for tap fees required. The tap fee is to be paid to the Water Works Engineering Department, 830 N Michigan St. Schedule taps through Field Operations number at (574) 235-9464.
5. Excavate, expose and clean water main for tap.
6. Material supplied by South Bend Water Works:
 - 2" and smaller - corporation stop, curb stop and stop box
 - 4" and larger - tapping sleeve and valve, roadway/valve box
7. All excavations must meet O.S.D. standards.
8. Contractor shall provide all shoring and shieling.
9. Domestic branches off of fire lines are strictly prohibited.
10. Any abandoned service lines within the property frontage of the new tap shall be disconnected to the main line and capped by the tap excavation.
11. This applies to services at the same address as well as any other connections.

REF STD SPEC SEC 5-2.5(e) and 5-2.5(q)

Kara M. Boyles, Ph.D., P.E. Date:


APPROVED/REVISED BY THE BOARD OF PUBLIC WORKS				CITY OF SOUTH BEND
EFFECTIVE DATE: Month xxx, xxxxx				
Item	Revision	Approved Date		
				STANDARDS FOR DESIGN AND CONSTRUCTION
TAPPING REQUIREMENTS				STANDARD 5-1

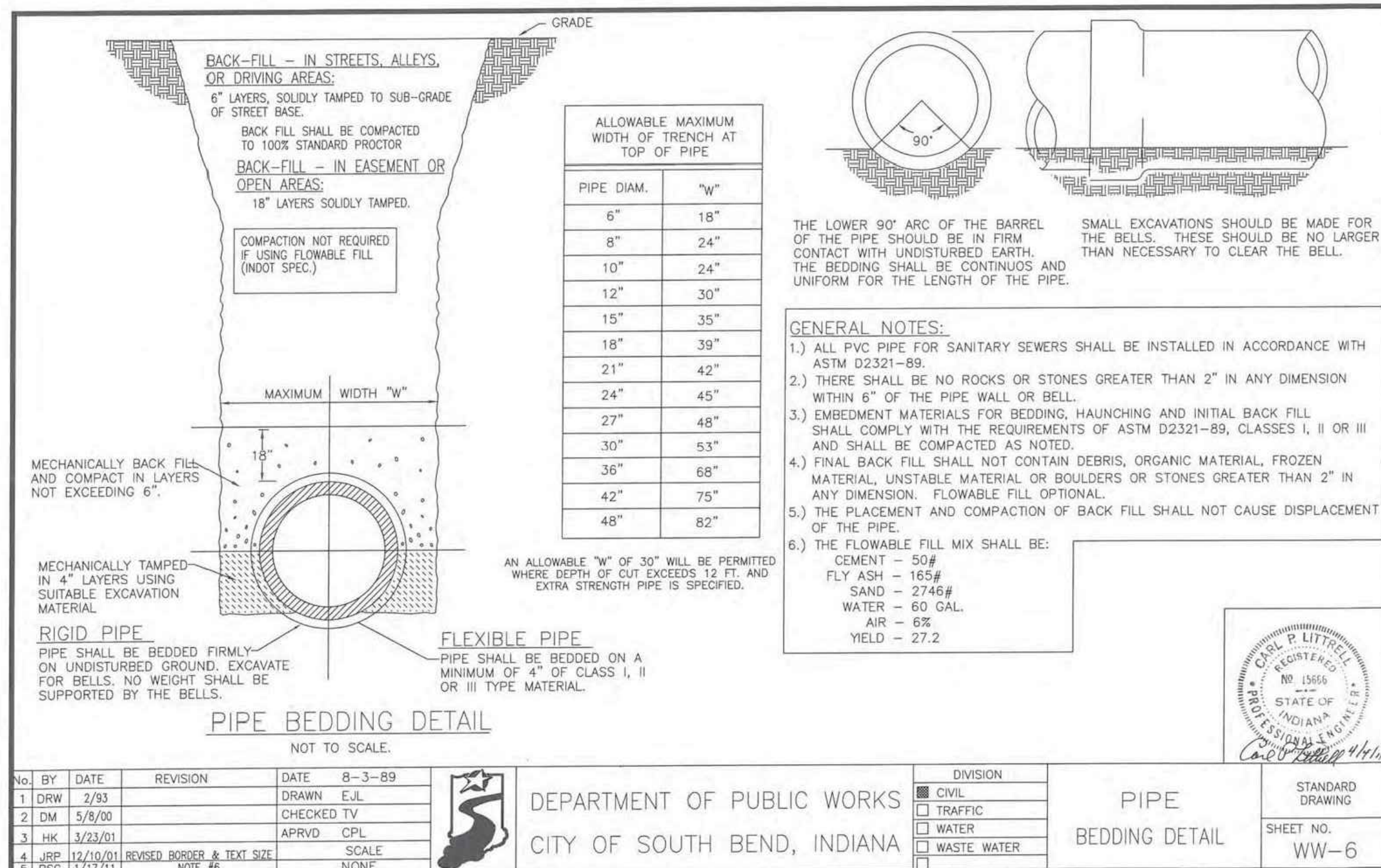
NOTES:

1. Service shut-off box shall be placed in the public right-of-way in grass between curb and sidewalk.
2. For a 2" service the corporation stop shall be located at 90° (level).

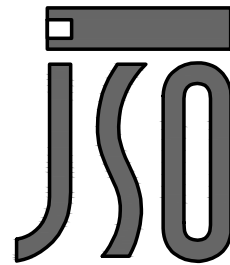
REF STD SPEC SEC 5-2 1 and 5-2 5(a)

Kara M. Boyles, Ph.D., P.E. Date:

REL. ST. SPEC. BY THE BOARD OF PUBLIC WORKS APPROVED/REVISED BY THE BOARD OF PUBLIC WORKS EFFECTIVE DATE: Month xx, xxxx			NAME: <u>_____</u> TITLE: <u>_____</u> CITY OF SOUTH BEND
Item <u> </u>	Revision <u> </u>	Approved Date <u> </u>	STANDARDS FOR DESIGN AND CONSTRUCTION
TYPICAL WATER SERVICE CONNECTION			STANDARD 5-3



Architect:



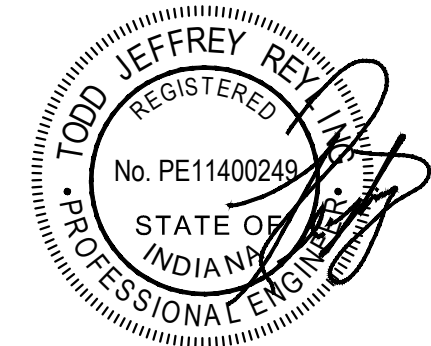
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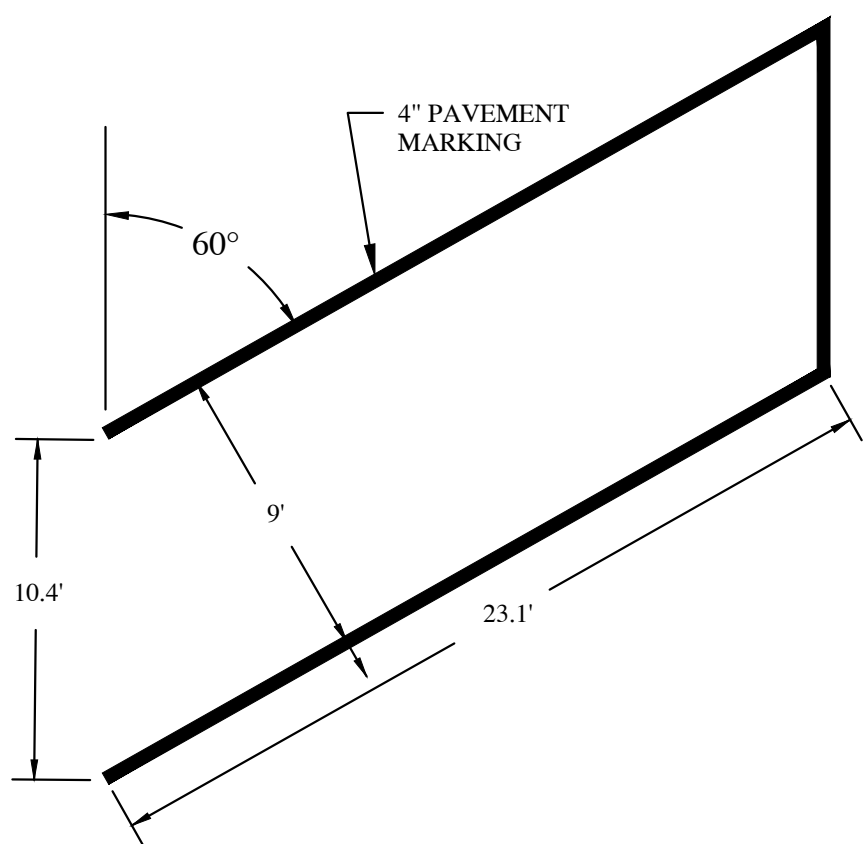
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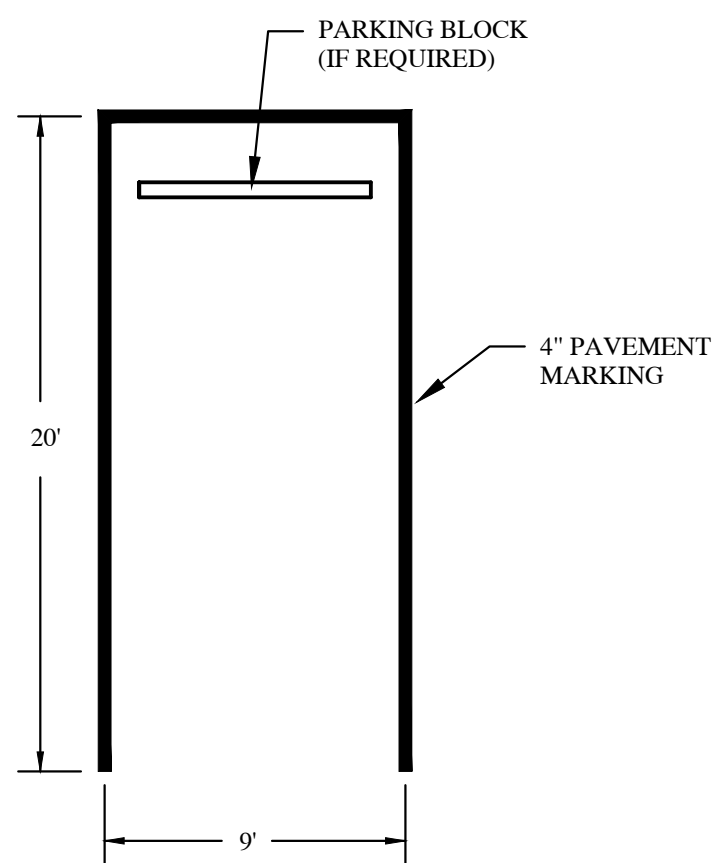
Construction Details

C703



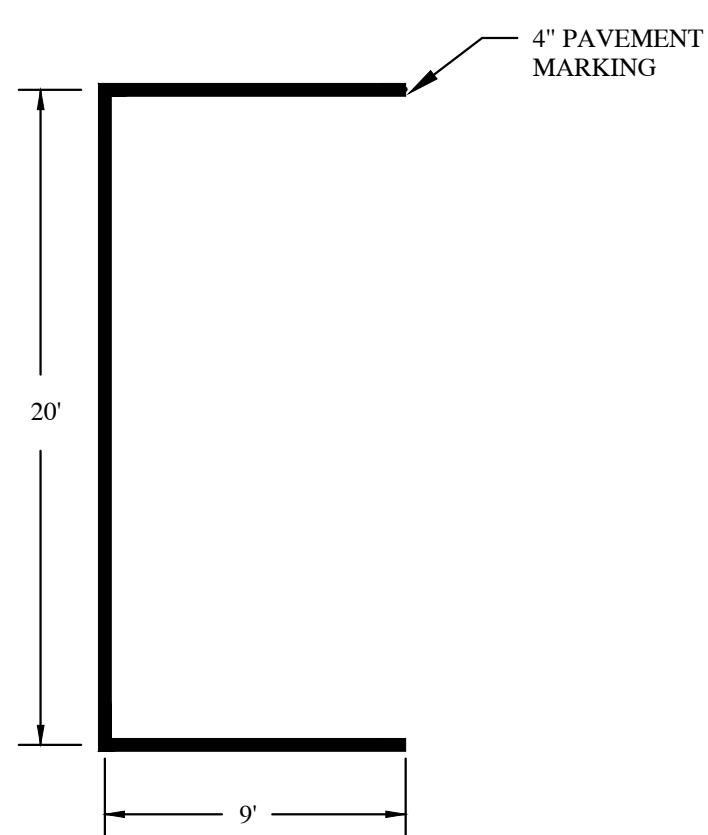
PARKING 60° SPACE DETAIL

NOT TO SCALE

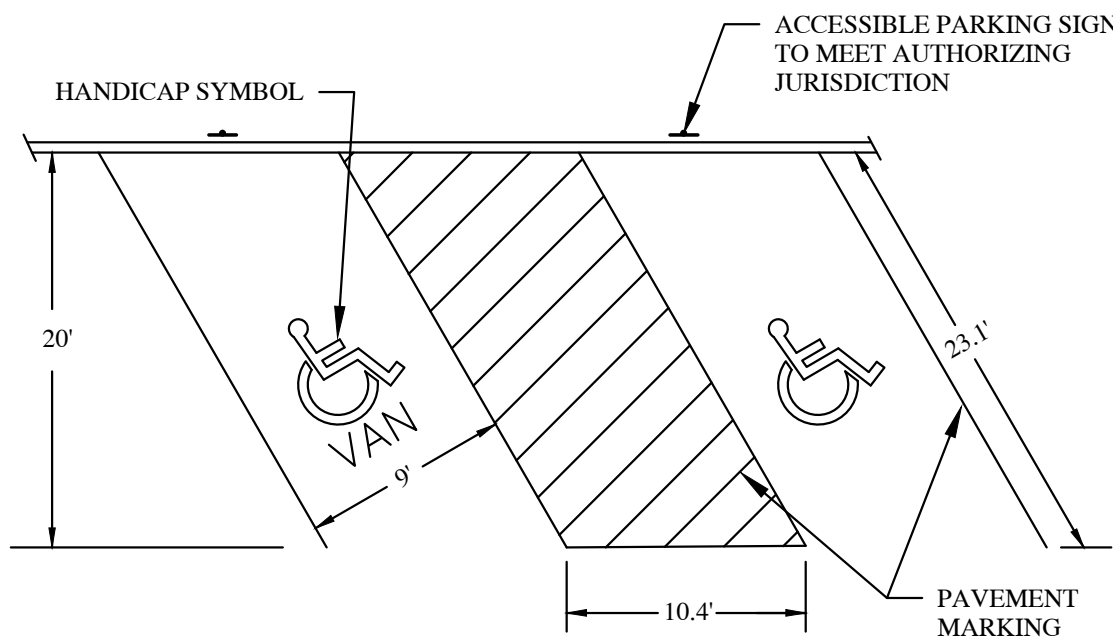


PARKING SPACE DETAIL

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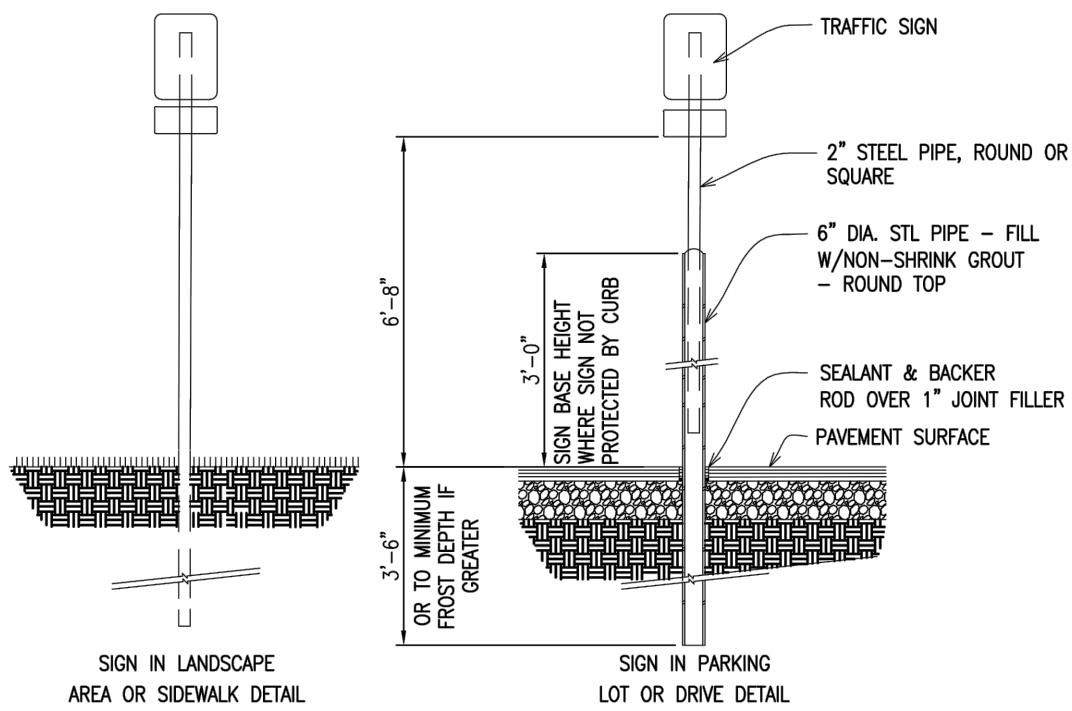


PARKING SPACE DETAIL-PARALLEL



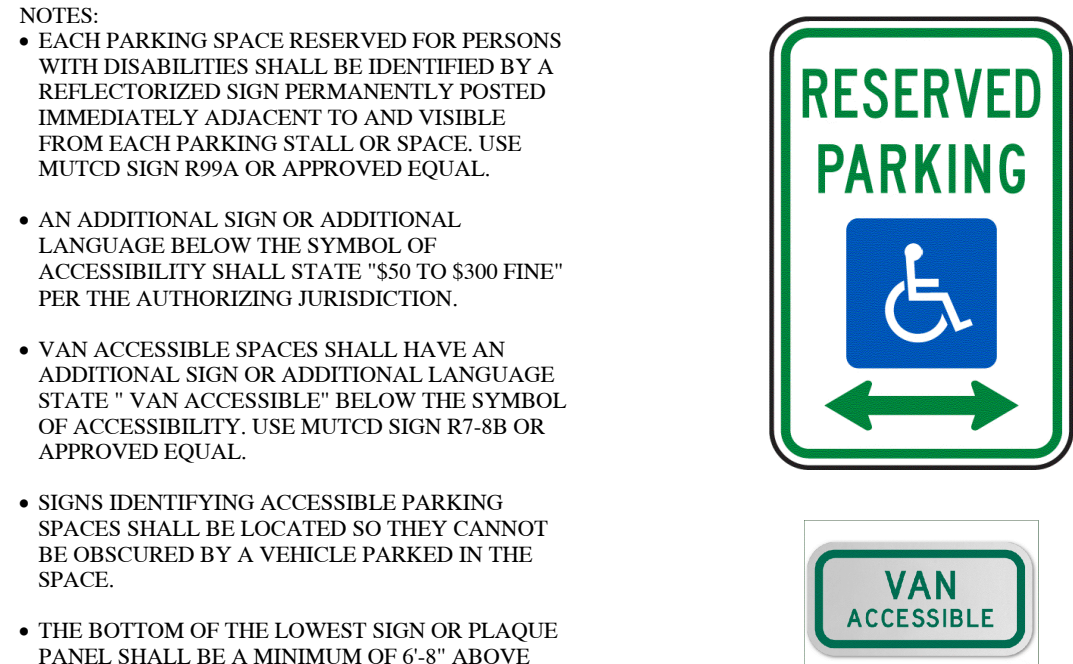
ACCESSIBLE PARKING SPACE DETAIL

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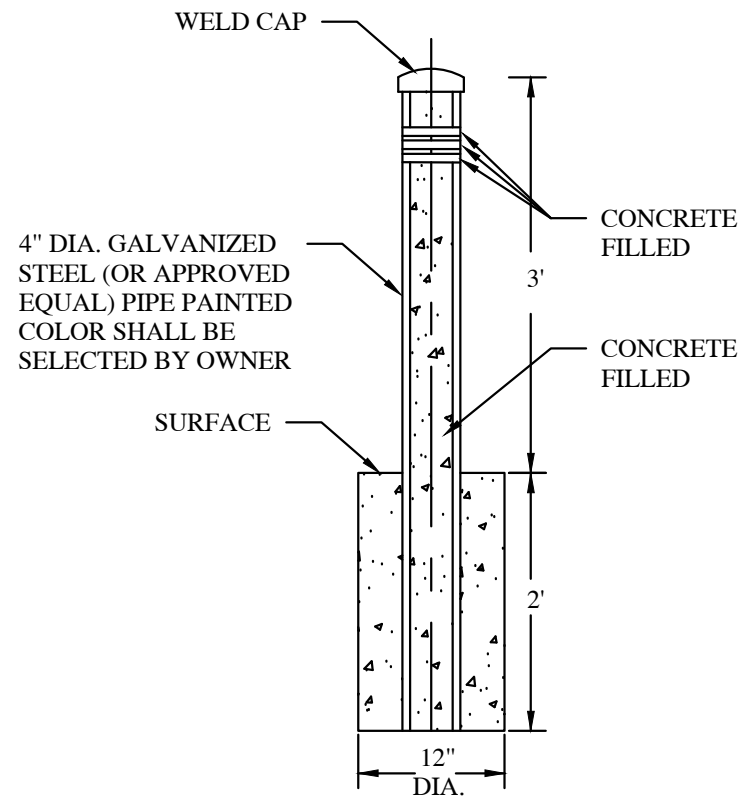
SIGN POST DETAIL

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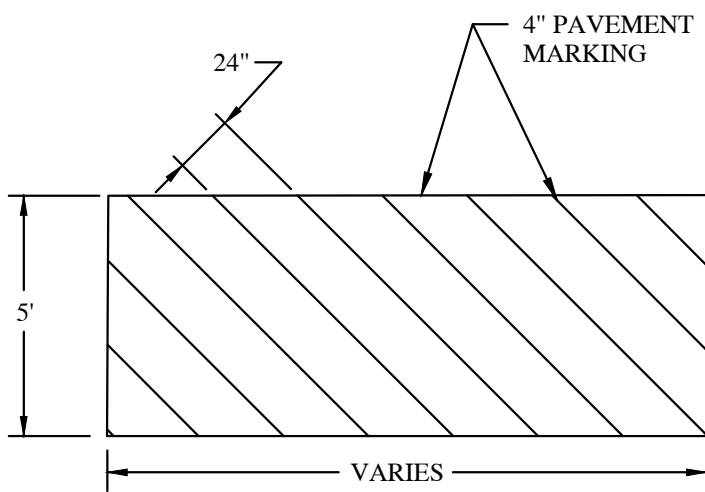
ACCESSIBLE PARKING SIGN DETAIL

NOT TO SCALE



PIPE BOLLARD DETAIL

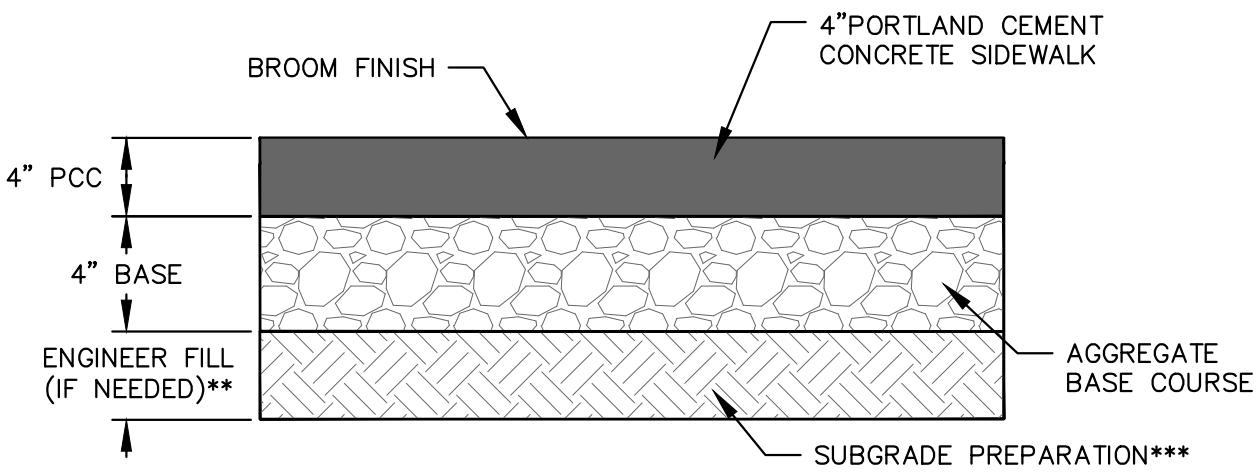
NOT TO SCALE



PEDESTRIAN ACCESS PAVEMENT MARKING DETAIL

NOT TO SCALE

NOTES:
USE MINIMUM THICKNESS OF MATERIALS LISTED BELOW, THICKNESS NOTED REPRESENTS THE MINIMUM COMPACTED THICKNESS BASED UPON THE GEOTECHNICAL REPORT.



*AGGREGATE BASE COURSE SHOULD BE COMPACTED PER INDOT SPECS AND SOILS ENGINEER.

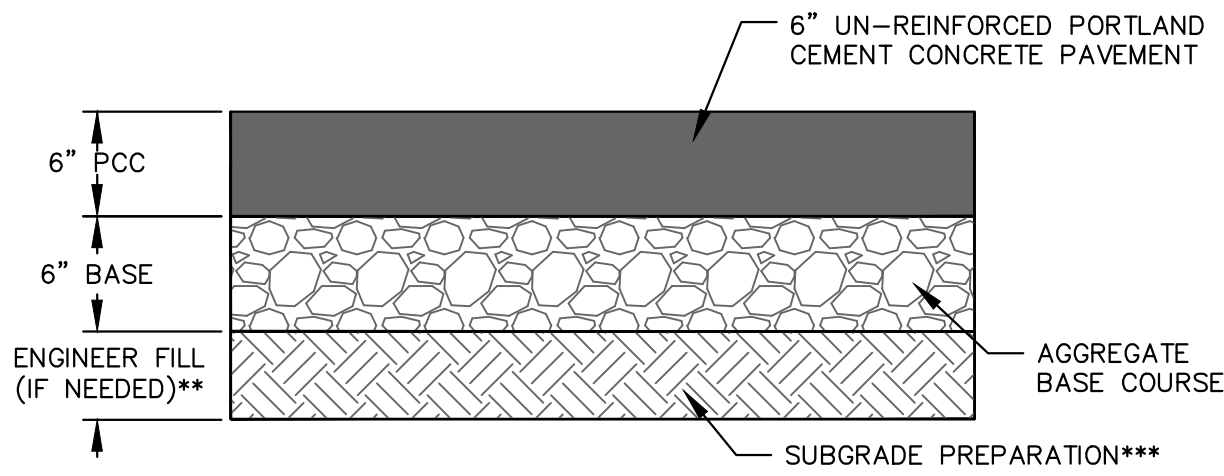
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***THE PREPARED SUBGRADE SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO 98% OF THE MAX DRY DENSITY (ASTM D698). CONTRACTOR SHALL PREPARE AND/OR REPLACE SOILS AS NECESSARY TO PROVIDE A STABLE SUBGRADE. SEE SOILS REPORT FOR DETAILS.

CONCRETE SIDEWALK PAVEMENT DETAIL

NOT TO SCALE

NOTES:
USE MINIMUM THICKNESS OF MATERIALS LISTED BELOW, THICKNESS NOTED REPRESENTS THE MINIMUM COMPACTED THICKNESS BASED UPON THE GEOTECHNICAL REPORT.



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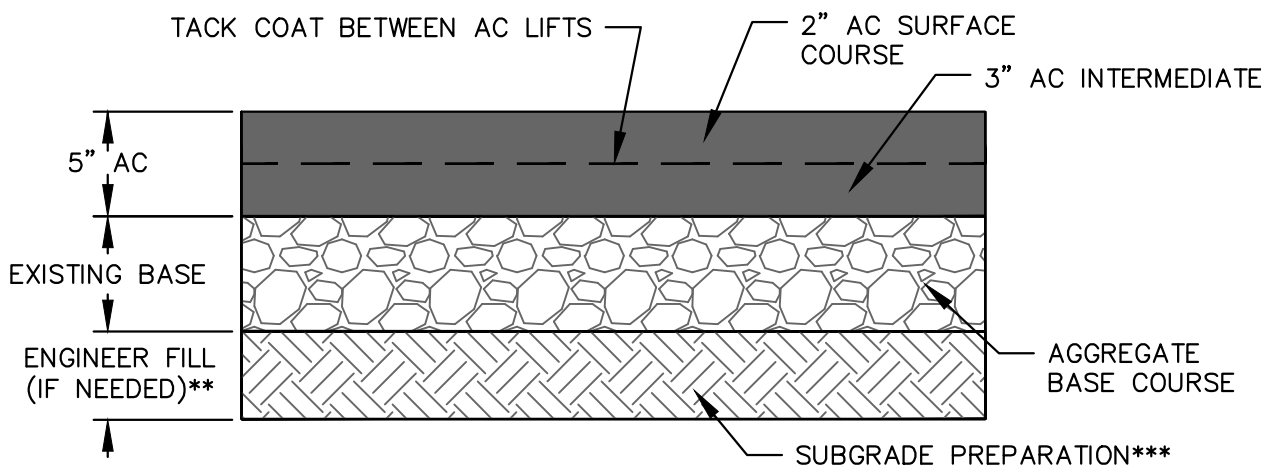
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DRIVE THRU AND DUMPSTER PAVEMENT DETAIL

NOT TO SCALE

NOTES:
USE MINIMUM THICKNESS OF MATERIALS LISTED BELOW, THICKNESS NOTED REPRESENTS THE MINIMUM COMPACTED THICKNESS BASED UPON THE GEOTECHNICAL REPORT.



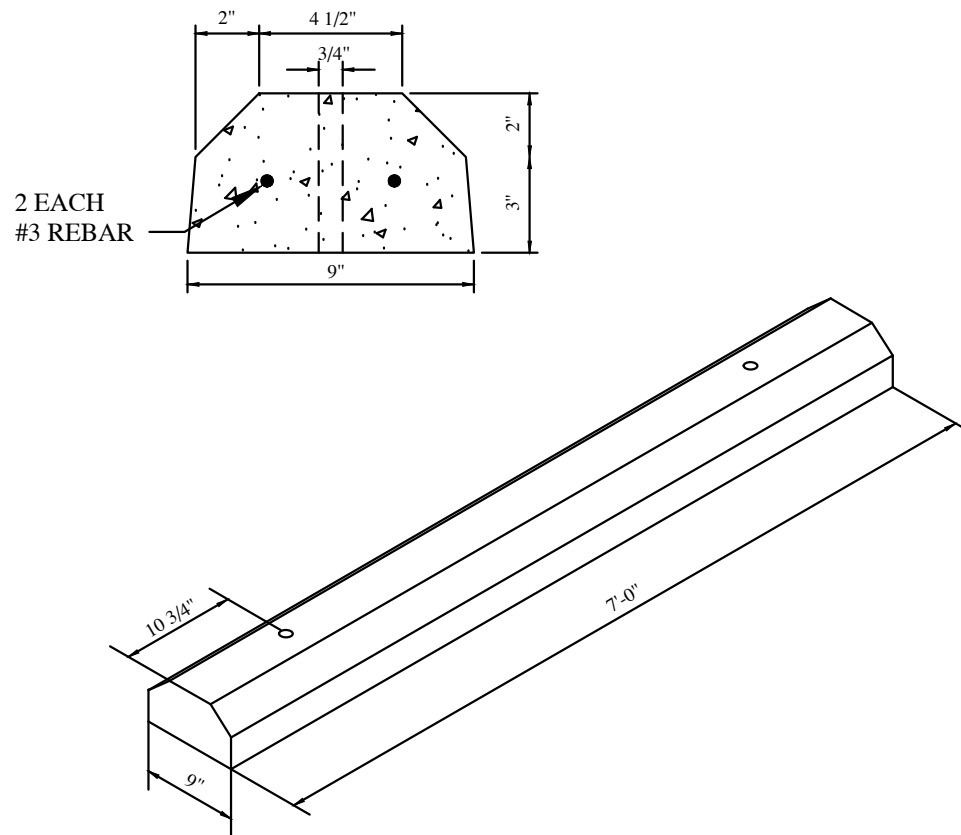
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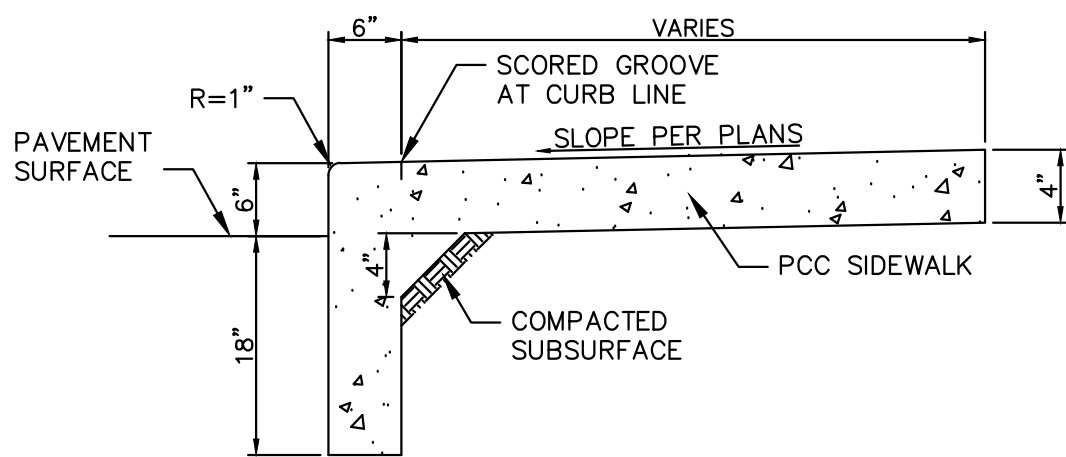
PARKING LOT PAVEMENT DETAIL

NOT TO SCALE



PARKING BLOCK DETAIL

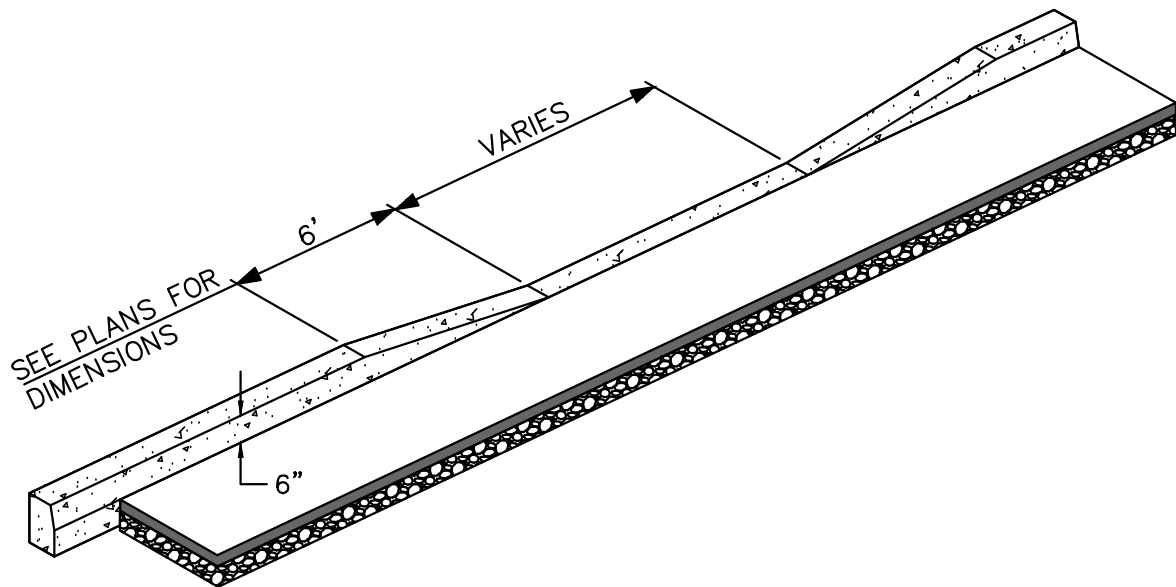
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NOTE: PROVIDE CONTROL JOINTS AT 5' INTERVALS AND EXPANSION JOINTS AT 15' INTERVALS.

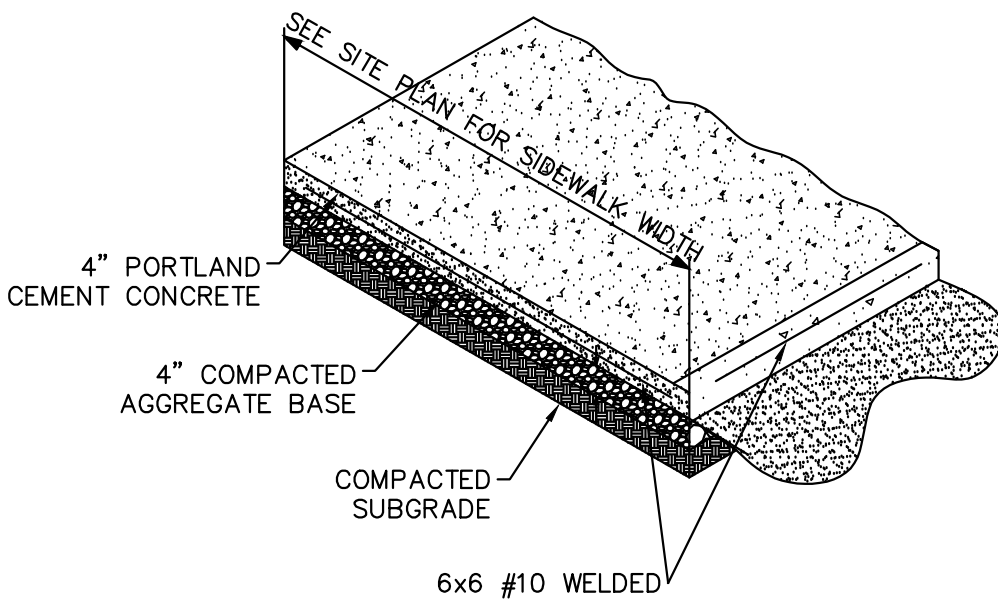
TURN DOWN CURB AND SIDEWALK

NOT TO SCALE



CURB TAPER DETAIL

NOT TO SCALE

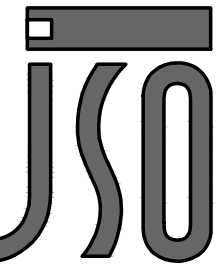


NOTES:
• JOINT SPACING 5'-0" CENTER TO CENTER OR WIDTH OF SIDEWALK.
• INSTALL EXPANSION JOINT MATERIAL WHERE SIDEWALK ABUTS JUNCTION OF EXISTING SIDEWALK, CONCRETE CURB, DRIVEWAYS AND SIMILAR STRUCTURES, AND AT 250' CENTERS MAX.

TYPICAL SIDEWALK DETAIL

NOT TO SCALE

Architect:



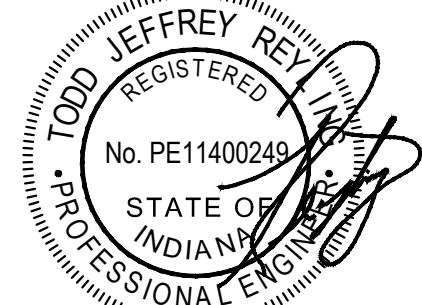
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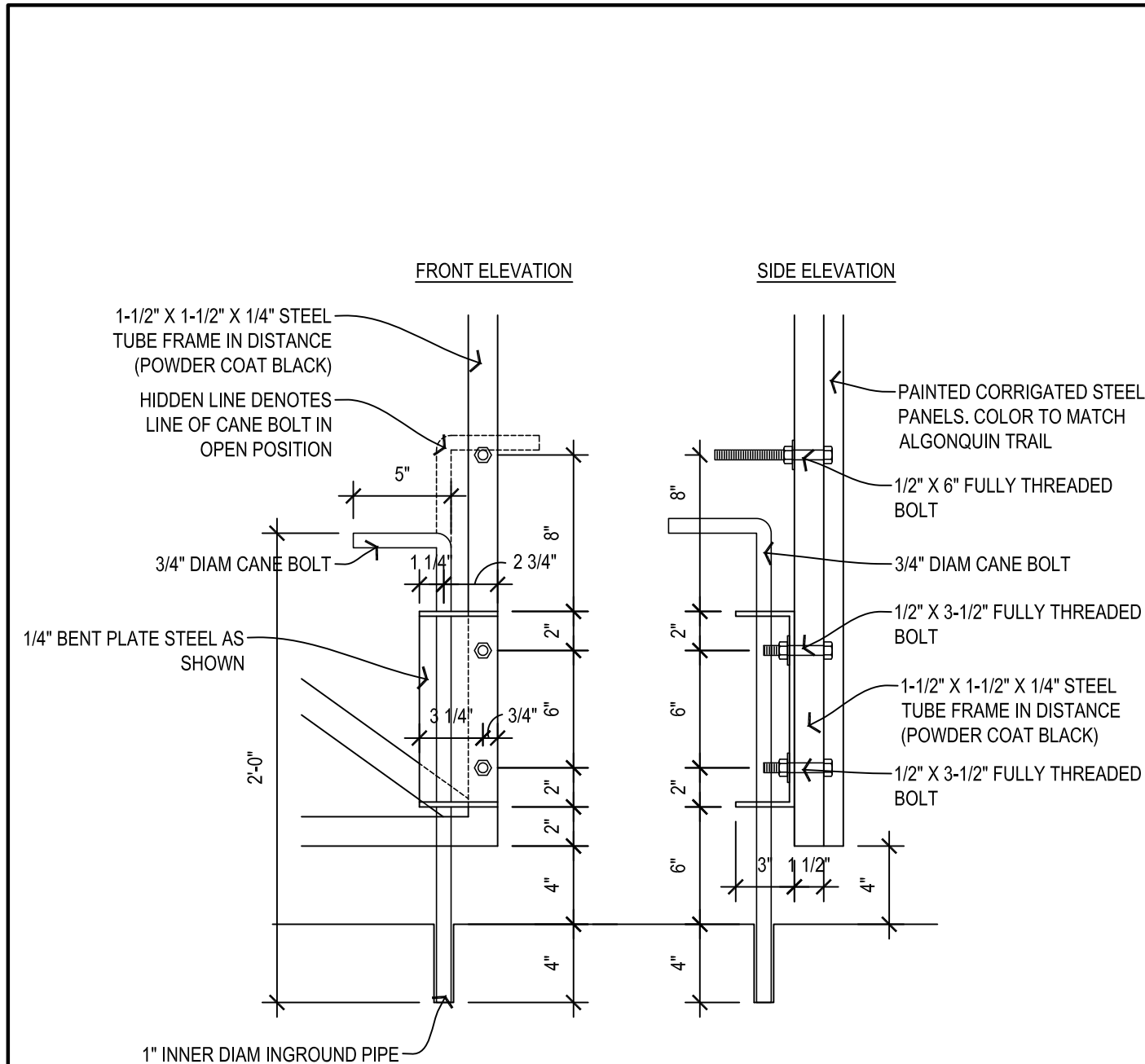
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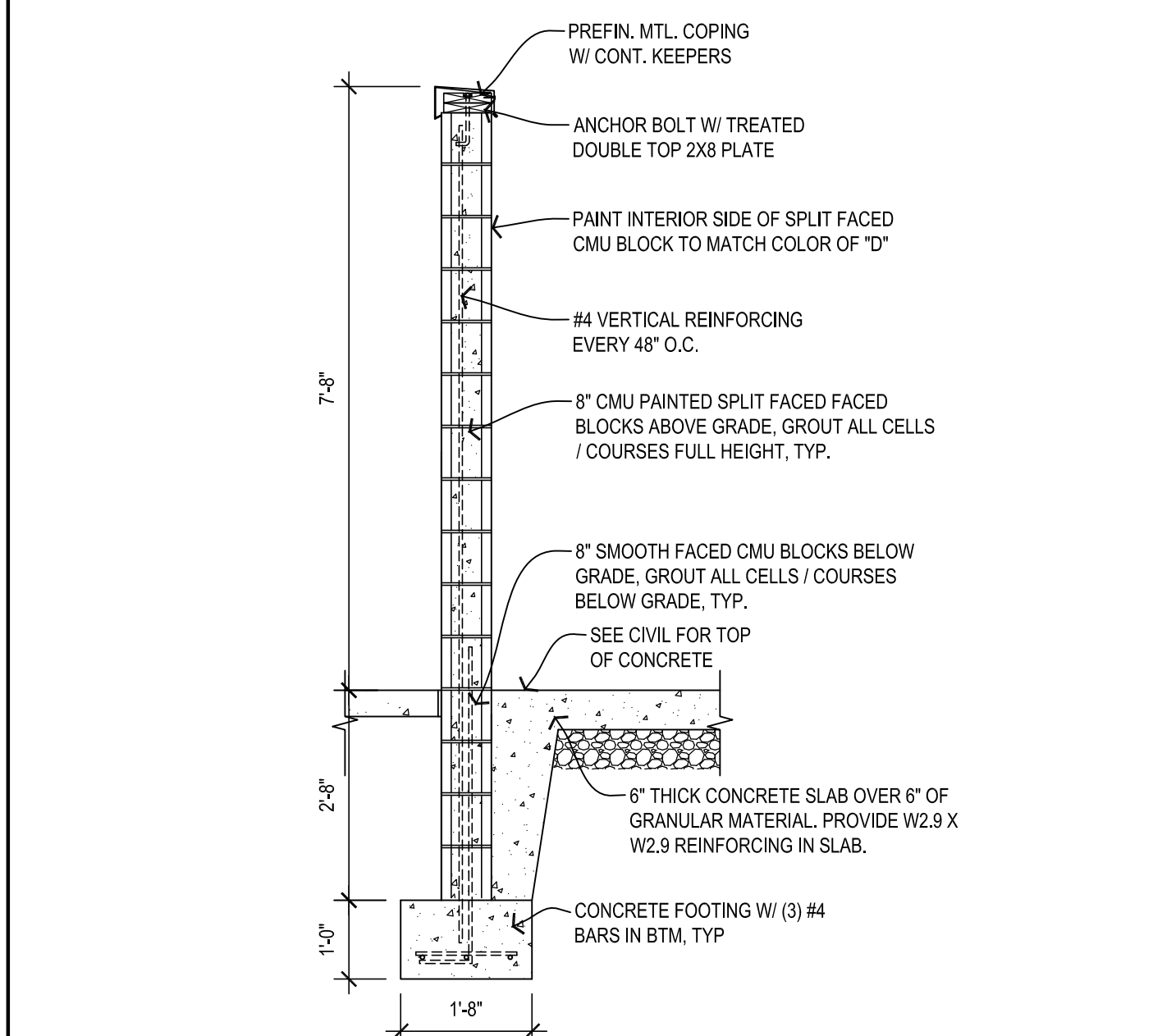
Construction
Details

C704



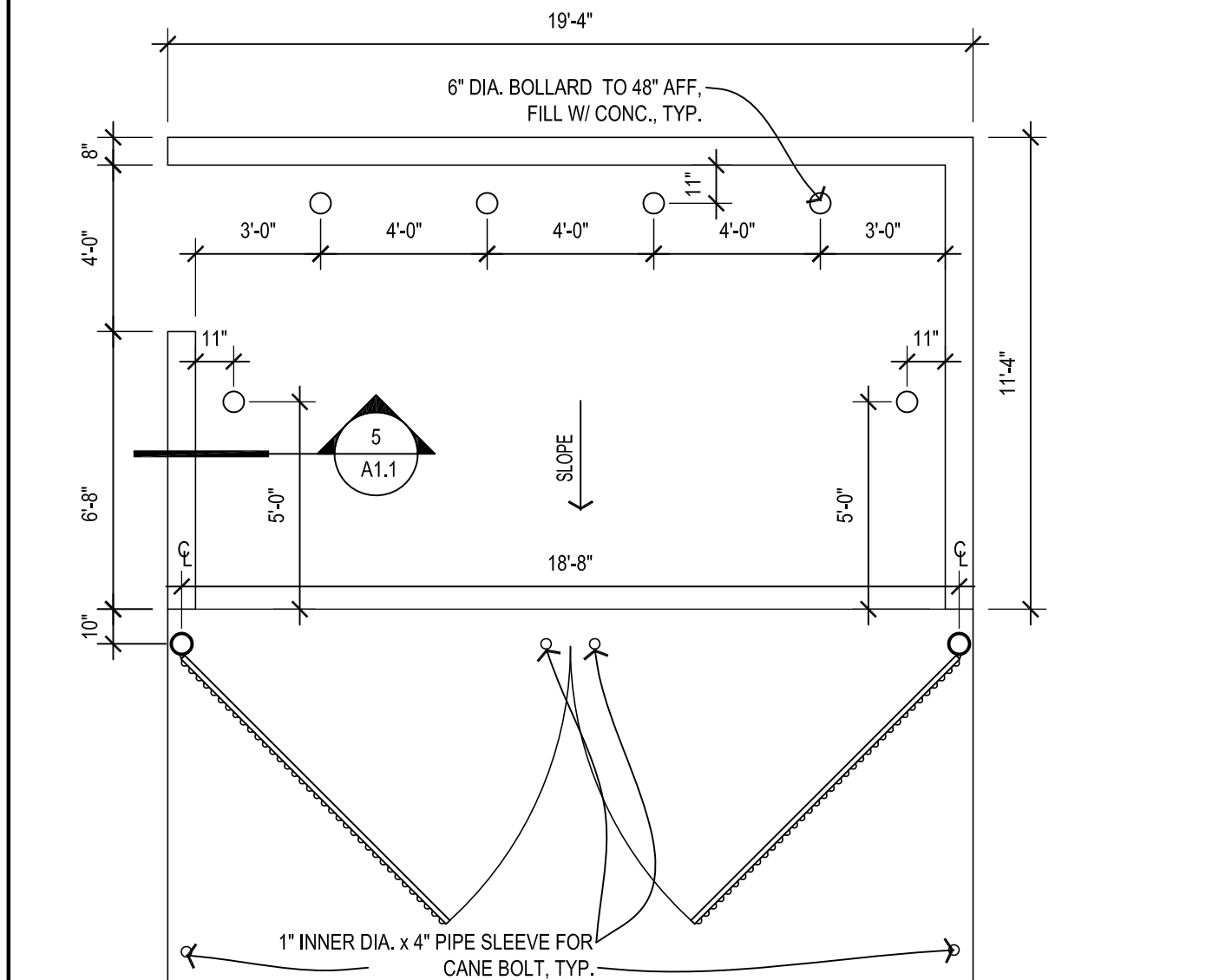
4 CAIN BOLT & HANGER DETAIL

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



5 TRASH ENCLOSURE SECTION

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



2 TRASH ENCLOSURE PLAN

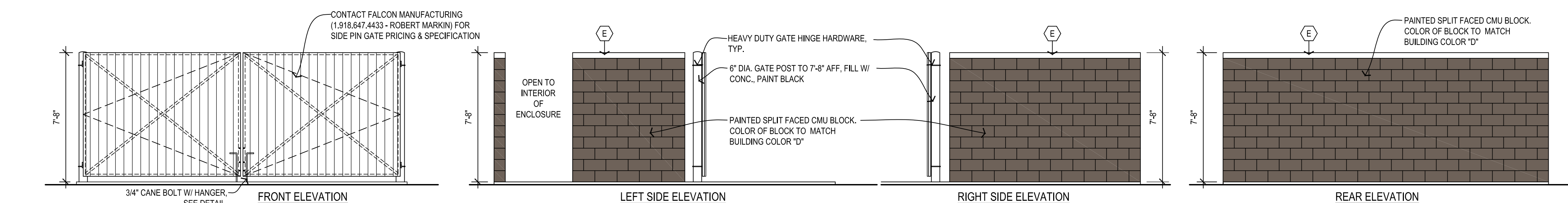
A1.1 SCALE: 1/4" = 1'-0"

SITE PLAN NOTES

- 1 PARKING LOT STRIPING COLOR TO BE "HIGHWAY WHITE", HANDICAPPED STALL PICTOGRAM COLOR AS PER LOCAL CODE, VERIFY.
- 2 TRASH ENCLOSURE SEE: 2/A1.1 THRU 5/A1.1
- 3 ACCESSIBLE PARKING SIGNAGE, SEE DETAIL 6/A1.2
- 4 CONCRETE SIDEWALK, SEE CIVIL DRAWINGS
- 5 CURB RAMP AT THIS LOCATION, SEE CIVIL DRAWINGS
- 6 STAMPED & COLORED CONCRETE PATIO WITH TOOLED JOINTS @ 8'-0" EA. WAY TYPICAL, SLOPE AWAY FROM BUILDING 1/8" PER FOOT.
- 7 48" HIGH BOLLARD 6" STEEL W/ CONCRETE FILL PAINTED BLACK
- 8 LIGHT POLE, SEE DETAIL 9/A1.2 AND ELECTRICAL SITE PLAN
- 9 PATIO RAILING, SEE DETAIL 5/A1.2
- 10 LANDSCAPING ALLOWANCE OF \$20,000 TO BE INCLUDED IN BASE BID TO OWNER.
- 11 PYLON SIGN W/ DIGITAL READER BOARD, SEE DETAIL 8/A1.2 & SHEET A3.3
- 12 MENU BOARD SEE 11/A1.2 & SHEET A3.3
- 13 SPEAKER SEE DETAIL 12/A1.2
- 14 CLEARANCE SIGN SEE 16/A1.2
- 15 LOOP INDUCTION SYSTEM SEE 1/A1.2 OR 3/A1.2
- 16 PREVIEW BOARD, SEE DETAIL 14/A1.2 & SHEET A3.3
- 17 CANOPY AT DRIVE-THRU SPEAKER SEE 15/A1.3
- 18 CONCRETE DRIVE THRU LANE, SEE CIVIL DRAWINGS
- 19 UNDERGROUND GREASE INTERCEPTOR, SEE PLUMBING DRAWINGS
- 20 PATIO LIGHTING, SEE DETAIL 10/A1.2

1 ARCHITECTURAL SITE PLAN

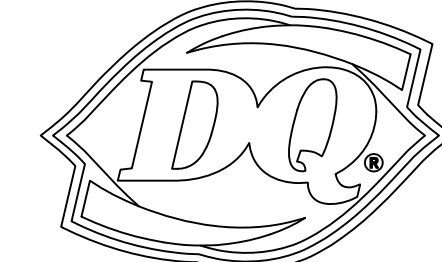
A1.1 SCALE: 1" = 10'-0"



3 TRASH ENCLOSURE ELEVATIONS

A1.1 SCALE: 1/4" = 1'-0"

NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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INDIANA ARCHITECT LICENSE NUMBER
AR11400065

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ISSUE DATE: 12/31/21

REVISION DATE:

12/31/21

ORIGINAL ISSUE

SITE PLAN & DETAILS

SHEET NUMBER:

A1.1

E: $3/4" = 1'-0"$

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MINNEAPOLIS, MN U.S.A.

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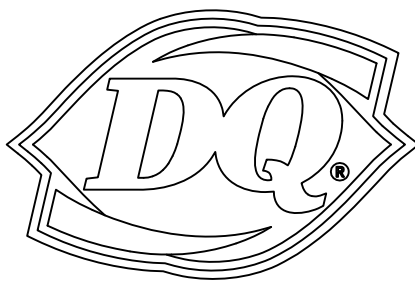
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ISSUE DATE: 12/31/21
REVISION DATE: 12/31/21 ORIGINAL ISSUE

SITE EQUIPMENT DETAILS

SHEET NUMBER:

A1.2



20 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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AR11400065

SPECIAL NOTICES

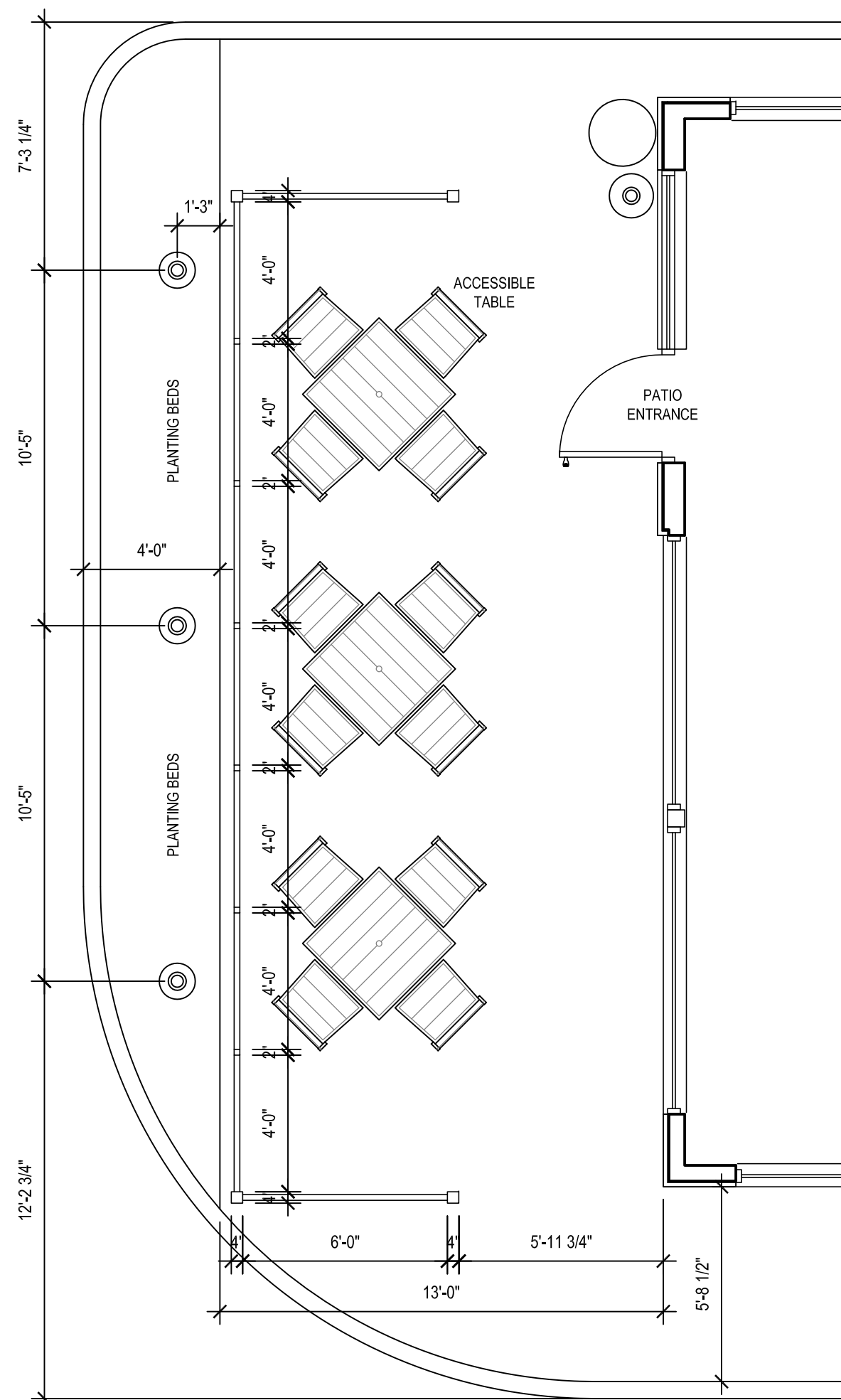
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ISSUE DATE:	12/31/21
REVISION DATE:	
12/31/21	ORIGINAL ISSUE
①	
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PATIO PLAN

SHEET NUMBER:

A1.3



1 PATIO PLAN
A1.3 SCALE: 1/4" = 1'-0"

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

NEW BUILDING FOR:

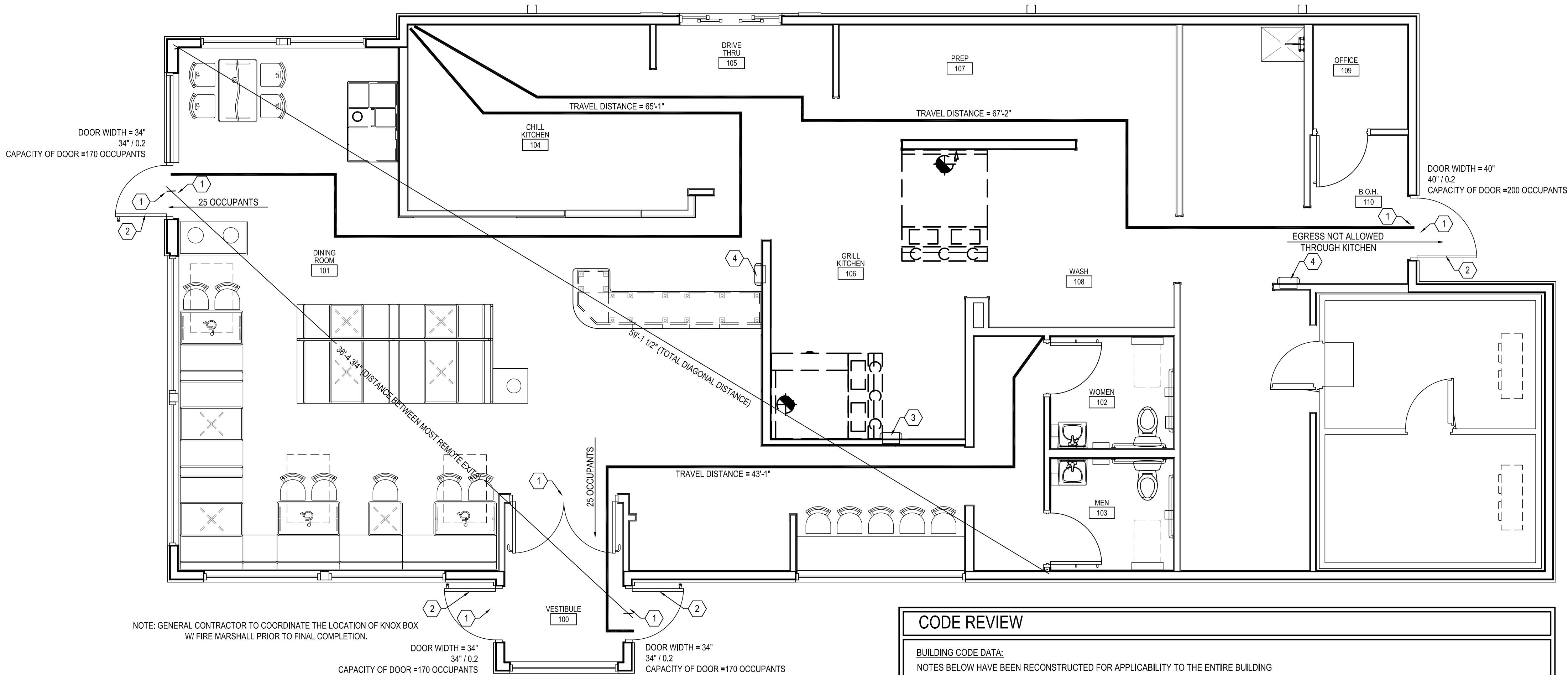


220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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LIFE SAFETY FLOOR PLAN

1
A2.0

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

LIFE SAFETY FLOOR PLAN NOTES

- EXIT SIGN / EGRESS LIGHT AT THIS LOCATION
- PANIC HARDWARE PROVIDED AT THIS LOCATION. SEE SHEET A3.2
- TYPE K FIRE EXTINGUISHER AT THIS LOCATION.
- TYPE ABC FIRE EXTINGUISHER AT THIS LOCATION.

APPLICABLE CODES

2014 INDIANA BUILDING CODE (2012 INTERNATIONAL BUILDING CODE)
2014 INDIANA FIRE CODE (2012 INTERNATIONAL FIRE CODE)
2012 INDIANA PLUMBING CODE (2006 PLUMBING CODE)
2009 INDIANA ELECTRICAL CODE (2008 NFPA 70)
2014 INDIANA MECHANICAL CODE (2012 INTERNATIONAL MECHANICAL CODE)
2014 INDIANA BUILDING CODE CHAPTER 11 ACCESSIBILITY
A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, 2009 EDITION
2010 INDIANA ENERGY CONSERVATION CODE (ASHRAE 90.1-2007)
2014 INDIANA FUEL GAS CODE (2012 INTERNATIONAL FUEL GAS CODE)

CODE REVIEW

BUILDING CODE DATA:

NOTES BELOW HAVE BEEN RECONSTRUCTED FOR APPLICABILITY TO THE ENTIRE BUILDING

BUILDING INFORMATION:	TOTAL FIRST FLOOR AREA:	2,574 SF (GROSS)
USE GROUP:	A-2 (FIXED SEATS), KITCHEN	
CONSTRUCTION TYPE:	BUILDING IS TYPE 5B CONSTRUCTION	
OCCUPANT LOAD:	DINING ROOM AREA = 1,032 SQ FT = 43 FIXED SEATS = 43 OCCUPANTS	
	KITCHEN AREA = 1,418 SQ FT = 7 OCCUPANTS	
	ACCESSORY SPACES = 124 SQ FT = NOT CALCULATED = 0 OCCUPANTS	
		TOTAL OCCUPANTS = 50 OCCUPANTS

MEANS OF EGRESS: (SEE EGRESS PLAN FOR GRAPHICAL INFORMATION)

ASSEMBLY - TRAVEL DISTANCE TO EXIT	=	200 FEET
COMMON PATH OF EGRESS TRAVEL	=	75 FEET
MAXIMUM DEAD END CORRIDOR	=	20 FEET
MINIMUM REQUIRED EGRESS WIDTH MULTIPLIER	=	0.2 INCHES
52 OCCUPANTS X 0.2 = 10.4" REQUIRED EXIT WIDTH / 108" PROVIDED		
MINIMUM CORRIDOR WIDTH	=	44 INCHES
MINIMUM CLEAR OPENING AT DOORS	=	32 INCHES
MIN NUMBER OF EXITS	=	2 EXITS REQUIRED / 2 EXITS PROVIDED

*EXITS ARE SEPARATED BY MORE THAN ONE THIRD THE DISTANCE OF THE DIAGONAL SPACE THEY SERVE

HEIGHT & AREA:	A-2 TYPE 5B WITHOUT A SPRINKLER ALLOWS FOR 1 STORY AT 6,000 SQ FT PER STORY.
	PROPOSED BUILDING IS 1 STORY W/ 2,574 SQ FT

FIRE RESISTANCE RATINGS:

TABLE 601

STRUCTURAL FRAME	0 HOUR
BEARING WALLS (EXTERIOR)	0 HOUR
BEARING WALLS (INTERIOR)	0 HOUR
NON-BEARING WALLS (EXTERIOR)	0 HOUR
NON-BEARING WALLS (INTERIOR)	0 HOUR
FLOOR CONSTRUCTION	0 HOUR
ROOF CONSTRUCTION	0 HOUR

SUPPRESSION SYST:

FIRE SUPPRESSION SYSTEM IS NOT PROVIDED / REQUIRED IN THE BUILDING

FIRE SEPARATION:

NO FIRE SEPARATION REQUIRED IN PROVIDED / REQUIRED IN THE BUILDING

ACCESSIBILITY:

ONE (1) ENTRANCE REQUIRED TO BE ACCESSIBLE.
ONE (1) ACCESSIBLE ENTRANCES PROVIDED.

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

OCCUPANCY GROUP A-2, UNSPRINKLERED
CORRIDORS AND LOBBIES = CLASS A OR B, FLAMESPREAD 26-75, SMOKE DEVELOPED = 0-450.
ROOMS AND ENCLOSED SPACES = CLASS B, FLAMESPREAD 76-200, SMOKE DEVELOPED = 0-450
EXIT ENCLOSURES = CLASS A, FLAMESPREAD 26-75, SMOKE DEVELOPED = 0-450

PLUMBING:

MINIMUM NUMBER OF PLUMBING FACILITIES

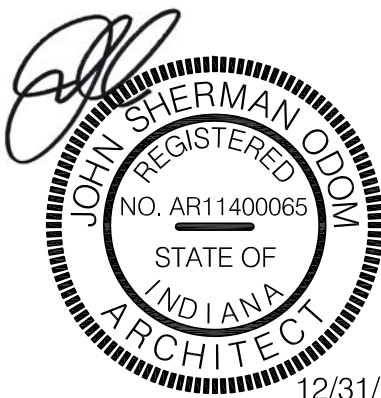
ASSEMBLY OCCUPANCY
ASSEMBLY (50 OCCUPANTS = 25 MEN / 25 WOMEN)
WATER CLOSETS: 1 PER 75 OCCUPANTS
URINALS: NOT MORE THAN 67% OF WATER CLOSETS
LAVATORIES: 1 PER 200 OCCUPANTS
DRINKING FOUNTAIN = 1 PER 500
OTHER ITEMS: 1 SERVICE SINK

REQUIRED / PROVIDED PLUMBING FIXTURES

MEN (25 OCCUPANTS) 1 WATER CLOSET REQUIRED / 1 PROVIDED
1 LAVATORY REQUIRED / 1 PROVIDED

WOMEN (25 OCCUPANTS) 1 WATER CLOSET REQUIRED / 1 PROVIDED
1 LAVATORY REQUIRED / 1 PROVIDED

OTHER ITEMS: 1 SERVICE SINK REQUIRED / 1 PROVIDED
DRINKING FOUNTAIN NOT REQUIRED / 1 WATER DISPENSER AT SELF
SERVICE DRINK HEAD



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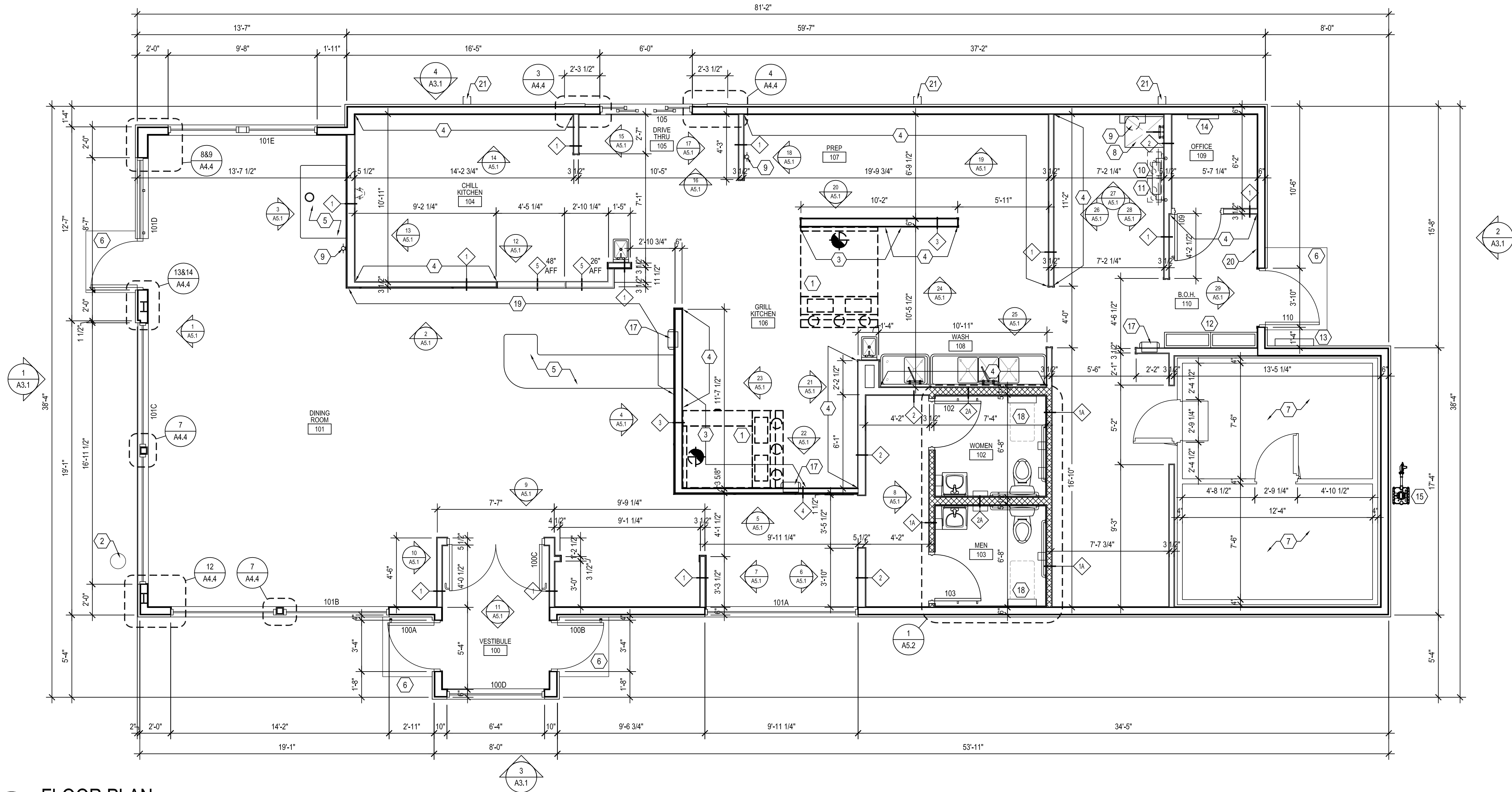
12/31/21 ORIGINAL ISSUE



LIFE SAFETY PLAN

SHEET NUMBER:

A2.0



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

GENERAL NOTES

- UNLESS NOTED OTHERWISE, ALL EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING.
- UNLESS NOTED OTHERWISE, ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD.
- REFER TO DRAWINGS AND SPECIFICATIONS PREPARED BY EQUIPMENT SUPPLIERS AND MECHANICAL SUPPLIER FOR THEIR UNIQUE REQUIREMENTS. ALL MATERIALS ARE TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

FLOOR PLAN NOTES

- GENERAL CONTRACTOR SHALL INSTALL EXHAUST HOOD PACKAGE AS WELL AS PROVIDE ANY/ALL NECESSARY MATERIALS IN ORDER FOR PROPER HOOD OPERATION. SEE SHEETS F1, F2, ELECTRICAL AND MECHANICAL SHEETS FOR ADDITIONAL INFORMATION AND DETAILS. ANSUL SYSTEM PROVIDED AND INSTALLED BY HOOD SUPPLIER.
- EXTERIOR RED SPOON, SEE EQUIPMENT PLAN, ELEVATIONS, WALL SECTIONS, & FOUNDATION PLAN
- PROVIDE 5/8" CEMENT BOARD IN LIEU OF SANDED PLYWOOD
- PROVIDE WD. BLOCKING AT WALL SHELVES COORDINATE EXTENT WITH EQUIPMENT PLAN. SEE DETAIL 13/A6.1
- COUNTERS AND DECOR WALLS ARE PART OF COUNTER MILLWORK PKG. SEE "F" SHEETS FOR PLAN, ELEVATION AND DETAILS.
- CONC STOOP, SEE STRUCTURAL
- GENERAL CONTRACTOR SHALL INSTALL WALK-IN COOLER/FREEZER PACKAGE.
- MOP SINK, SEE DETAIL 14/A6.1
- WATER FILTER SYSTEM, SEE EQUIPMENT PLAN AND SCHEDULES
- WATER METER LOCATION, SEE PLUMBING SHEETS
- WATER HEATER, SEE PLUMBING DWGS
- ELECTRICAL PANEL, SEE ELEC DWGS - VERIFY W/MANUFACTURER INSTALL REQUIREMENTS
- ELECTRICAL DISCONNECT AND METER SOCKET.
- PHONE BOARD
- GAS METER
- 6"Ø CONC. FILLED STEEL BOLLARD
- SEMI RECESSED FIRE EXTINGUISHER CABINET, MANUFACTURER AND MODEL ACTUAR, COSMOPOLITAN 2038-S21 PROVIDED AND INSTALLED BY G.C., AVAILABLE FROM HJC
- G.C. TO VERIFY AND PROVIDE BLOCKING PER MANUFACTURERS REQUIREMENTS
- G.C. TO PROVIDE AND INSTALL 2x8 HORIZONTAL WOOD BLOCKING (LET IN) TO STUDS BEHIND GYP. BD., TOP OF BLOCKING TO BE AT 94 7/8" AFF AND 107" AFF, MIN., LENGTH OF BLOCKING AS NOTED, END OF BLOCKING MUST LAND ON STUD.
- COAT ROD & SHELF, PROVIDED & INSTALLED BY G.C.
- ROOF SCUPPER DOWNSPOUT

PARTITION TYPES

- 2x4 WOOD FRAMING @ 16" O.C. EXTEND TO ROOF STRUCTURE
- 2x4 WOOD FRAMING @ 16" O.C. EXTEND TO ROOF STRUCTURE, PROVIDE FULL THICKNESS SOUND BATT INSULATION TO 3" ABOVE CEILING
- 2x6 WOOD FRAMING @ 16" O.C. EXTEND TO ROOF STRUCTURE
- 2x6 WOOD FRAMING @ 16" O.C. EXTEND TO ROOF STRUCTURE, PROVIDE FULL THICKNESS SOUND BATT INSULATION TO 3" ABOVE CEILING
- 6" MTL. FRAMING @ 16" O.C. EXTEND TO ROOF STRUCTURE.
- 3 5/8" MTL. FRAMING @ 16" O.C. EXTEND TO ROOF STRUCTURE.
- 2x4 WOOD FRAMING @ 16" O.C., PARTIAL HEIGHT WALL SEE PLAN FOR HEIGHT

WALL SURFACE GENERAL NOTES:

- PROVIDE 5/8" GYP. BD. ON ALL WALL SURFACES UNLESS NOTED OTHERWISE
- PROVIDE MOISTURE RESISTANT GYP. BD. AT WET WALL LOCATIONS.
- THE INTERIOR SIDE OF THE EXTERIOR FRAMED WALLS SHALL HAVE THE GYP BOARD OR SANDED PLYWOOD EXTENDED TO THE ROOF DECK ABOVE. AT THE INTERIOR WALLS, THE CONTRACTOR IS TO EXTEND THE GYP BOARD OR SANDED PLYWOOD TO 3" ABOVE THE LINE OF THE FINISHED CEILING AND PROVIDE FIRE BLOCKING AS REQUIRED. AT INTERIOR WALL LOCATIONS WHERE KRAFT FACED INSULATION IS PROVIDED, THE CONTRACTOR SHALL EXTEND THE GYP BOARD / SANDED PLYWOOD / DUROCK FULL HEIGHT TO THE UNDERSIDE OF THE ROOF DECK ABOVE. KRAFT FACED INSULATION SHALL NOT BE EXPOSED ABOVE THE LINE IF THE FINISHED CEILING.

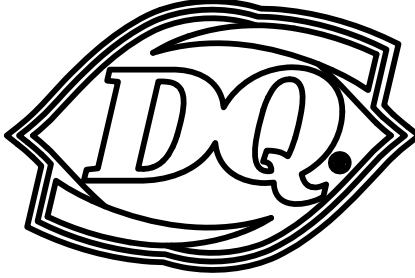
UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL INSTALL 5/8" GYP BOARD ON WALL SURFACES IN VESTIBULE 100, DINING ROOM 101, WOMEN 102, MEN 103.

UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL INSTALL 5/8" SANDED PLYWOOD ON WALL SURFACES IN CHILL KITCHEN 104, DRIVE THRU 105, GRILL KITCHEN 106, B.O.H, PREP 107, WASH 108, OFFICE 109, BOH 110.

AT THE WALK IN BOX LOCATIONS, THE INTERIOR ADJACENT WALL SURFACE MUST BE CLAD IN 5/8" GYP BOARD FULL HEIGHT, DO NOT LEAVE THE STUDS EXPOSED AT THIS LOCATION.

THE CONTRACTOR IS TO PROVIDE FIRE BLOCKING AT 10'-0" A.F.F. AT ALL FULL HEIGHT STUD CAVITIES THAT EXCEED 10'-0" VERTICAL HEIGHT.

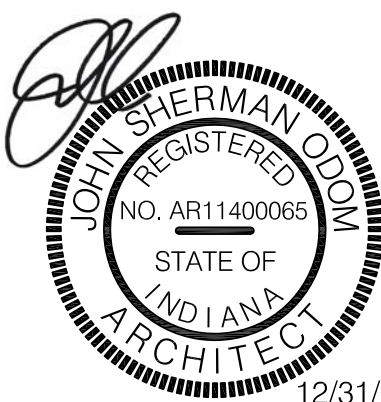
NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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ORIGINAL ISSUE

FLOOR PLAN

SHEET NUMBER:

A2.1

GENERAL NOTES

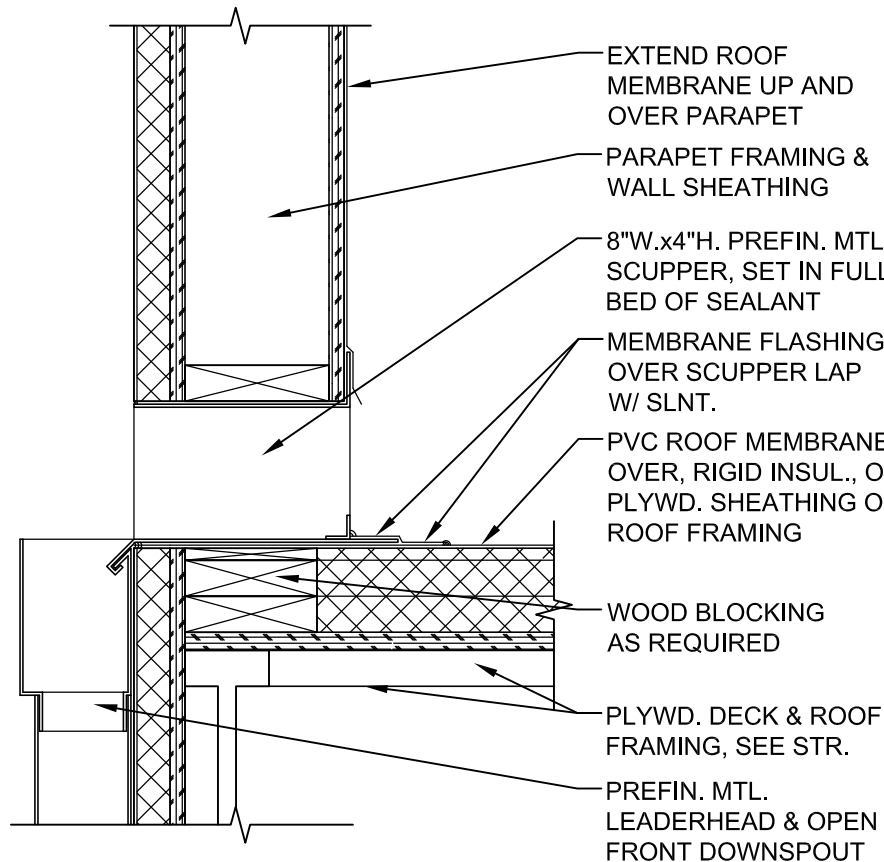
1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO FACE OF EXTERIOR SHEATHING.
2. ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR: ALL ROOF FLASHING AND COUNTER FLASHING; PROVIDING AND INSTALLING SWALES, SCUPPERS, GUTTERS, DOWNSPOUTS AND ANY OTHER ROOF DRAINAGE ITEMS AS REQUIRED
3. COORDINATE LOCATION AND SIZE OF ALL ROOF TOP EQUIPMENT WITH MECHANICAL AND STRUCTURAL
4. RTU MUST BE PROPERLY ALIGNED ON ROOF CURB TO ENSURE AIR SUPPLY AND RETURNS ARE NOT OBSTRUCTED.
5. GENERAL CONTRACTOR TO PROVIDE AND INSTALL A FLEXIBLE WALKWAY SYSTEM ON ROOFTOP FROM POINT OF ROOF ACCESS TO ALL ITEMS THAT REQUIRE SERVICE.
6. WHITE 50 MIL. PVC ROOF SYSTEM. NATIONAL PRICING AVAILABLE THROUGH DURLAST SEE NATIONAL VENDORS LIST.
7. WHITE 50 MIL. PVC ROOF SYSTEM AT WALK-IN. PROVIDED BY WALK-IN SUPPLIER INSTALLED BY G.C.
8. MAINTAIN 3" CLEAR DIMENSION FROM END OF EYEBROW/CANOPY TO CHIMNEY FINISH OR EXTERIOR WALL FINISH

ROOF PLAN NOTES

- 1 TAPERED ROOF INSULATION
- 2 HVAC EQUIPMENT & CURBS BY MECHANICAL CONTRACTOR, SEE 6/A2.2
- 3 REFRIGERATION LINESET PENETRATION AS REQUIRED, SEE 7/A2.2. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
- 4 WATER HEATER EXHAUST AND COMBUSTION AIR INTAKE. VERIFY ROOF PENETRATION REQUIREMENTS, SPACING, AND HEIGHTS WITH MANUFACTURERS REQUIREMENTS AND PREVAILING CODES. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
- 5 THRU WALL SCUPPER TO DOWNSPOUT AND THRU WALL OVERFLOW SCUPPER, SEE 2/A2.2 & 3/A2.2. ROOFING CONTRACTOR TO COORDINATE WITH EIFS AND ALPOLIC INSTALLERS TO PROVIDE A LEAKPROOF ASSEMBLY. WRAP AND SEALPROOF IN STRICT ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS
- 6 PREFINISHED METAL EYEBROW AND CANOPY
- 7 ROOF ACCESS, SEE ELEVATION
- 8 CONDENSER, SEE 5/A2.2 & SEE MECH. DRAWINGS FOR INSTALLATION REQMTS & UNIT WEIGHTS. SHIM AS REQUIRED TO ENSURE UNITS ARE PLUMB AND LEVEL
- 9 PLUMBING VENT, SEE 4/A2.2. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
- 10 ROOFTOP CONDENSERS AND LINE-SETS PART OF WALK-IN COOLER/FREEZER PACKAGE
- 11 COOKING LINE EXHAUST FAN, SEE 6/A2.2 & MECH. DRAWINGS FOR INSTALLATION REQMTS & UNIT WEIGHTS. MUST MAINTAIN 10'-0" CLEARANCE FROM ALL AIR INTAKE
- 12 RESTROOM EXHAUST FAN, SEE 6/A2.2 & MECH. DRAWINGS FOR INSTALLATION REQMTS & UNIT WEIGHTS
- 13 EYEBROW MOUNTED "GRILL & CHILL" SIGN
- 14 AT EACH EYEBROW BRACKET, PROVIDE 1x4x18" LONG VERTICAL BLOCKING BTM. AT 10'-0"

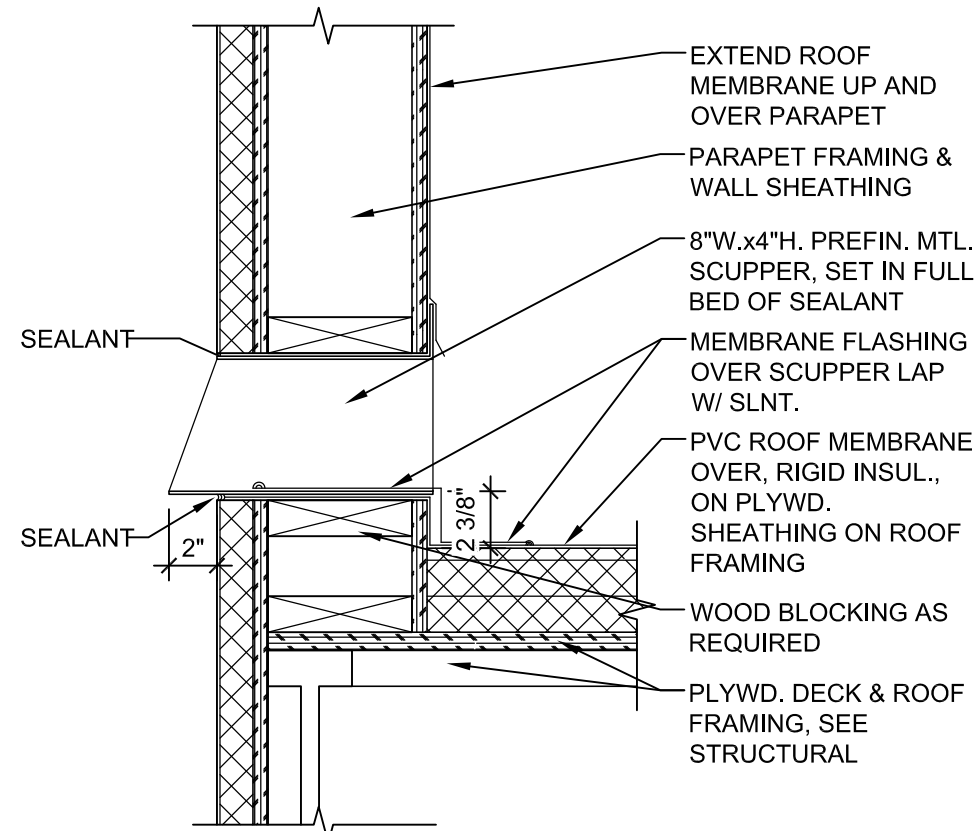
1 ROOF PLAN

A2.2 SCLAE: 1/4" = 1'-0"



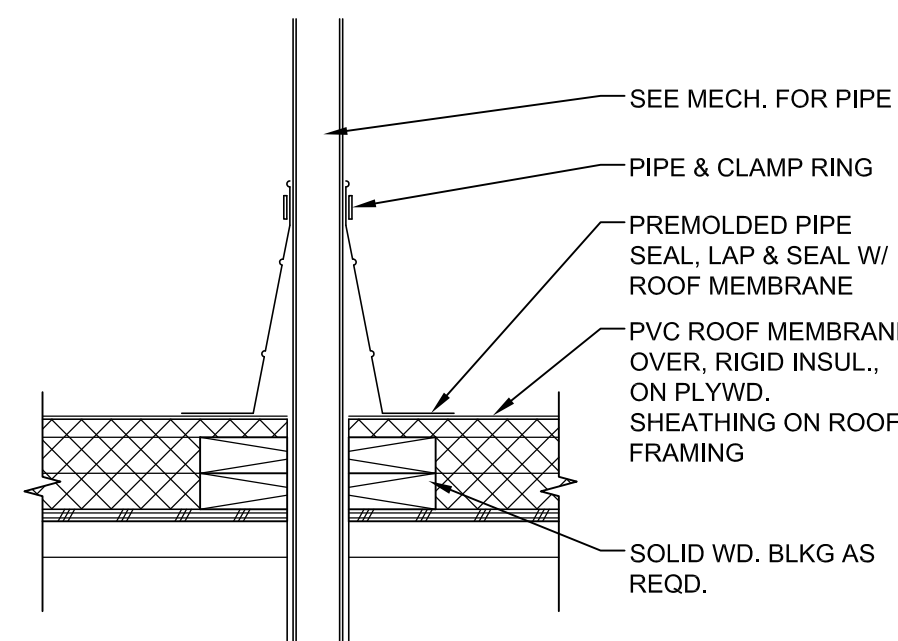
2 SCUPPER DETAIL

A2.2 SCALE: 1 1/2" = 1'-0"



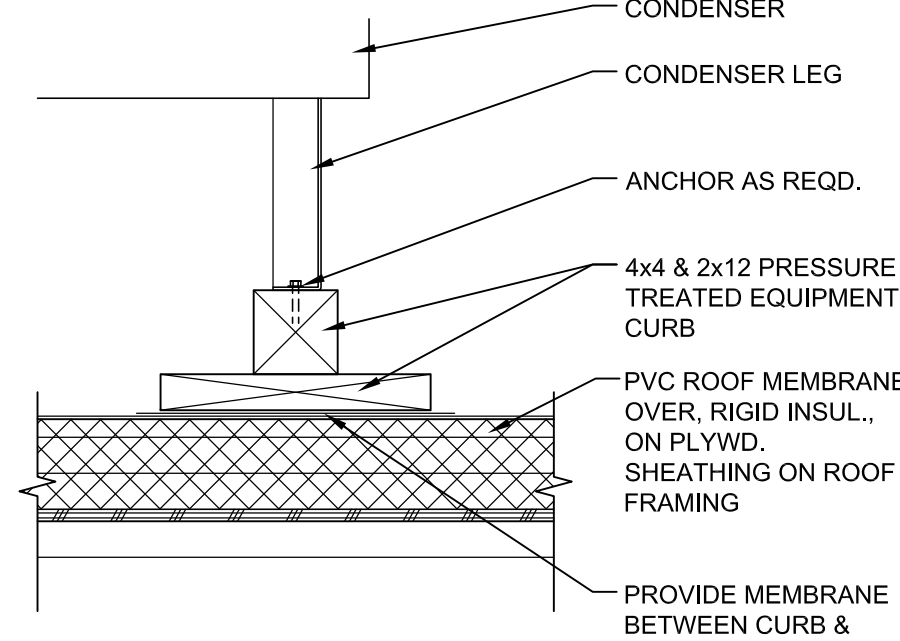
3 OVERFLOW SCUPPER DTL.

A2.2 SCALE: 1 1/2" = 1'-0"



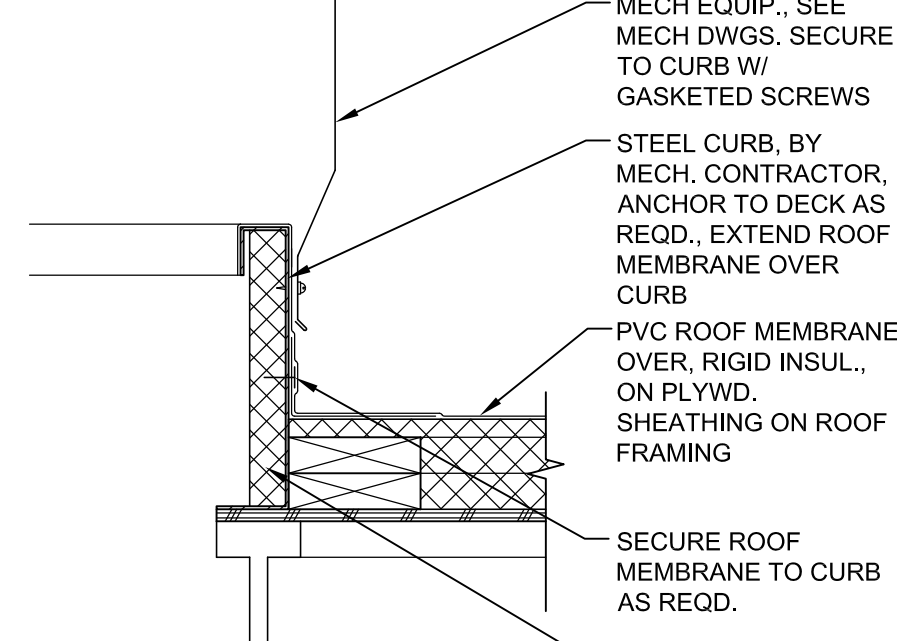
4 PIPE PENETRATION DTL.

A2.2 SCALE: 1 1/2" = 1'-0"



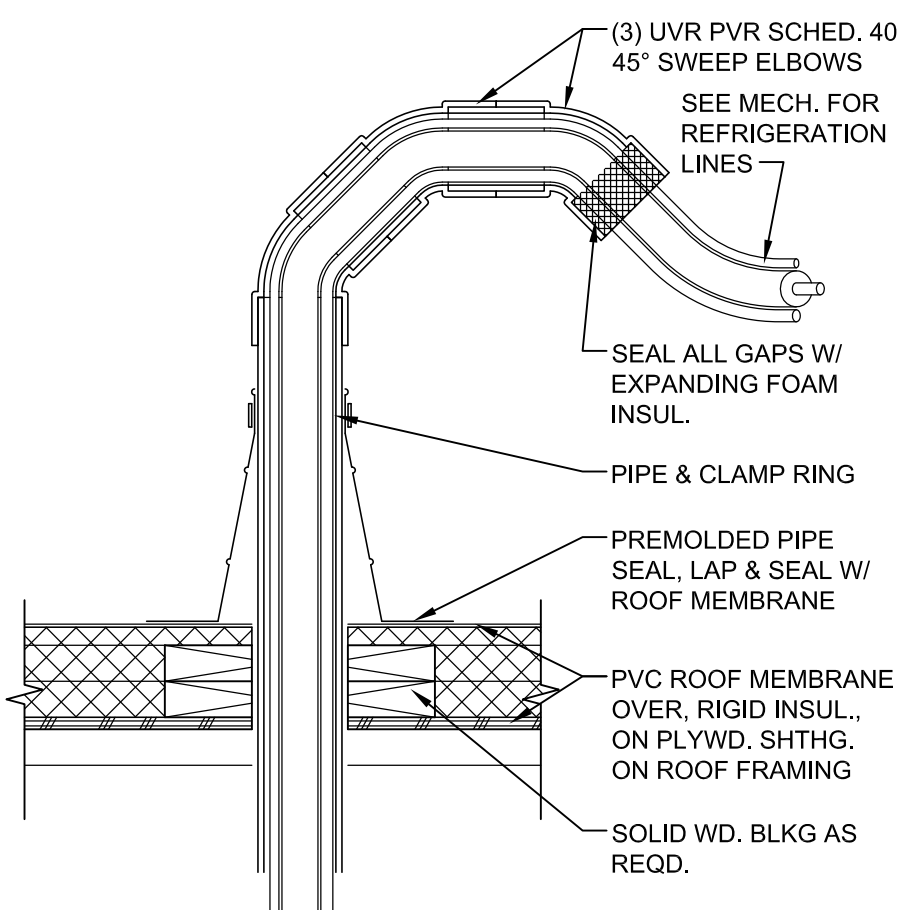
5 CONDENSER CURB DTL.

A2.2 SCALE: 1 1/2" = 1'-0"



6 MECH. CURB DETAIL

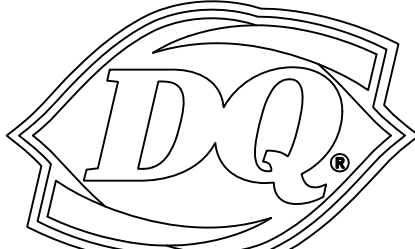
A2.2 SCALE: 1 1/2" = 1'-0"



7 REF. PIPE PENETRATION DTL.

A2.2 SCALE: 1 1/2" = 1'-0"

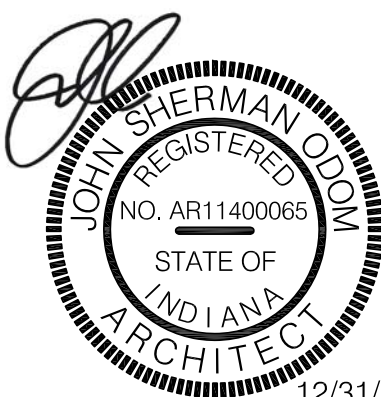
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ROOF PLAN & DETAILS

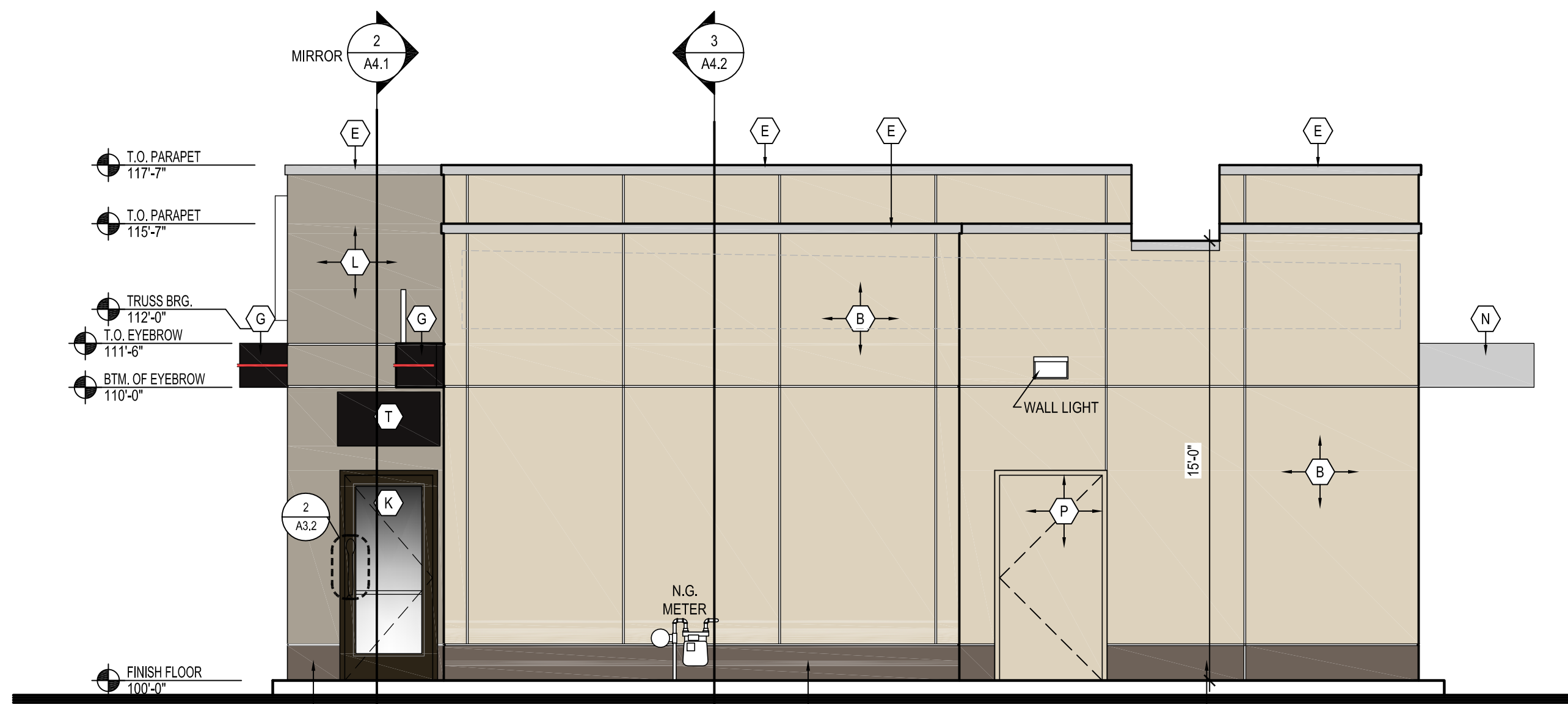
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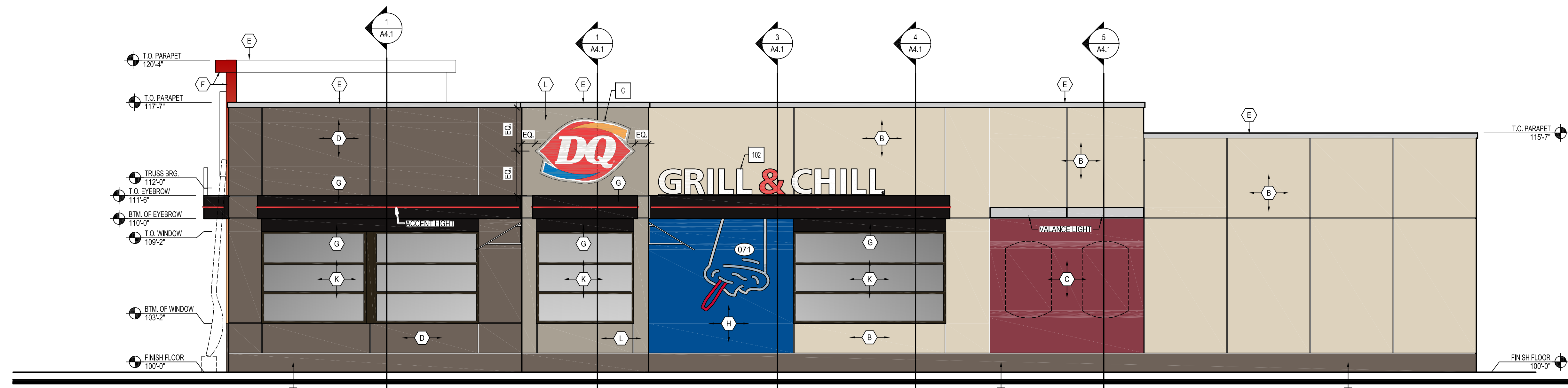
1 FRONT ELEVATION
A3.1 SCALE: 1/4" = 1'-0"

NOTE: THE DO RED SPOON HANDLES HAVE SPECIAL INSTALLATION REQUIREMENTS. ALUM. STOREFRONT MFG. MUST COORD. LOCK & HANDLE, LOCATION & HEIGHTS

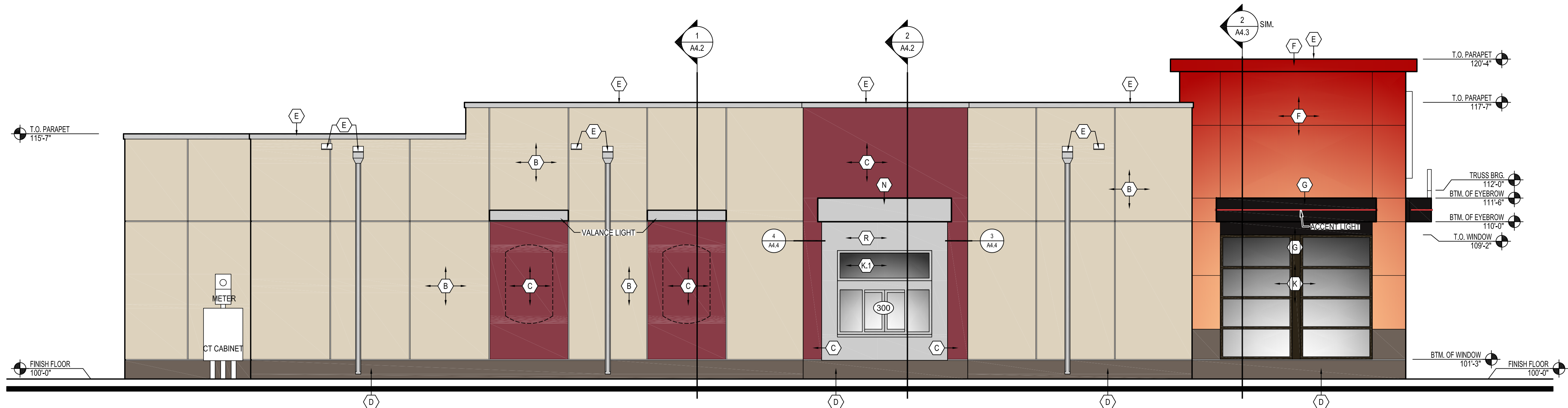


2 REAR ELEVATION
A3.1 SCALE: 1/4" = 1'-0"

NOTE: THE DO RED SPOON HANDLES HAVE SPECIAL INSTALLATION REQUIREMENTS. ALUM. STOREFRONT MFG. MUST COORD. LOCK & HANDLE, LOCATION & HEIGHTS



3 ENTRANCE ELEVATION
A3.1 SCALE: 1/4" = 1'-0"

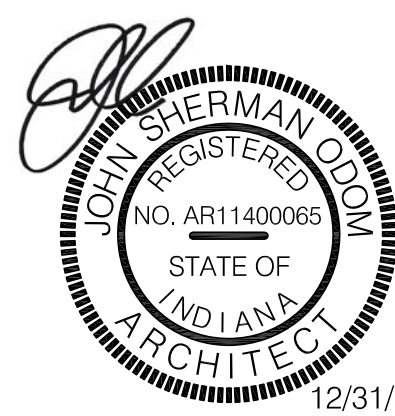


4 DRIVE-THRU ELEVATION
A3.1 SCALE: 1/4" = 1'-0"

NEW BUILDING FOR:



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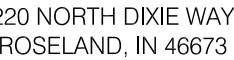
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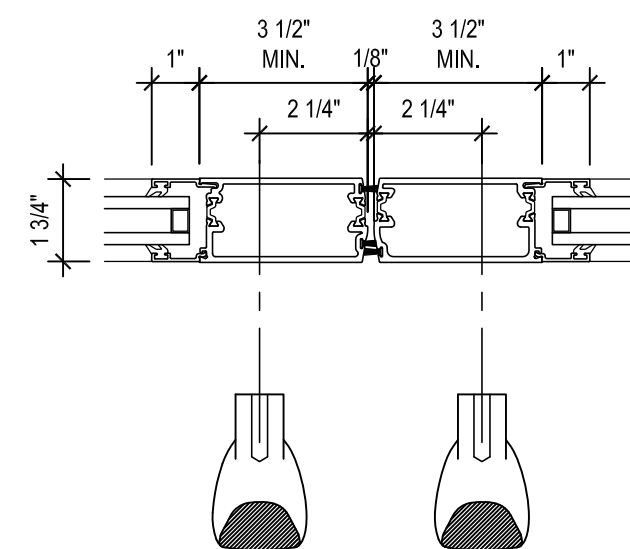
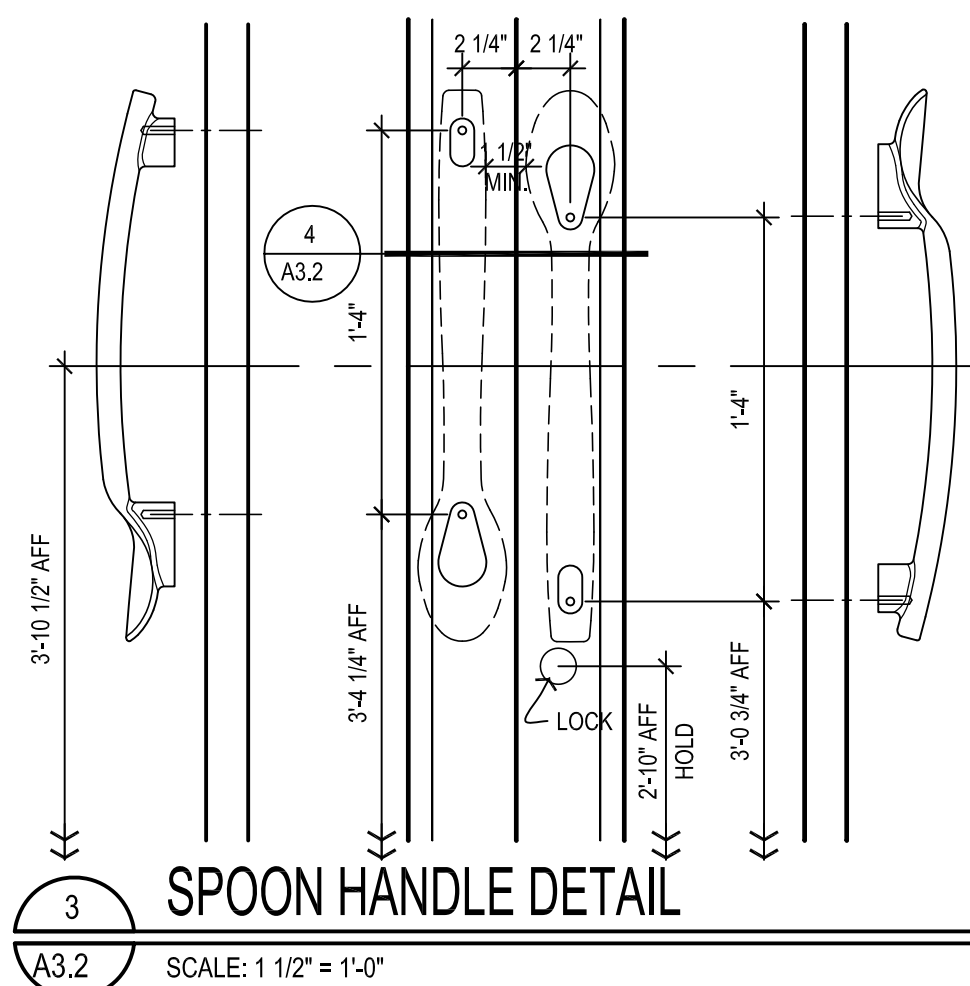
EXTERIOR ELEVATIONS

SHEET NUMBER:

A3.1



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SPOON HANDLE DETAIL

SCALE: 3" = 1'-0"

SPOON HANDLE DETAIL

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

1 NOT USED

A3.2 ✓

EXTERIOR ELEVATION KEYNOTES:

- | | | |
|---|--|---|
| <p>(B) EIFS: (LIGHT)
 MFRG: STO CORPORATION
 COLOR: NA19-0021 (MATCHES BENJAMIN MOORE, TEMPORAL SPIRIT 965)
 FINISH: 310 ST0 (FINE SAND)
 NOTE: PROVIDE HIGH IMPACT EIFS FROM GRADE TO 3'-0" A.F.F.</p> | <p>(F) METAL PANEL:
 MFRG: ALPOLIC
 STYLE: 4MM
 COLOR: D05 (DQ DARK RED)
 NOTE: MUST BE INSTALLED HORIZONTALLY; REFERENCE ARROWS ON BACK OF PANEL MUST BE ALIGNED IN THE SAME DIRECTION.
 VENDOR: ARCHITECTURAL METALS, SEE NATIONAL VENDORS LIST</p> | <p>(K) STOREFRONT:
 MFRG: YKK AP AMERICA INC.
 STYLE: 2"x4 1/2"
 FINISH: CLEAR
 GLAZING: CLEAR, 1" INSULATED, LOW E</p> |
| <p>(C) EIFS: (RED)
 MFRG: STO CORPORATION
 COLOR: NA19-0022 (MATCHES BENJAMIN MOORE, CALIENTE AF-290)
 FINISH: 130D STOUT 1.0D (FINE SAND)
 NOTE: PROVIDE HIGH IMPACT EIFS FROM GRADE TO 3'-0" A.F.F.</p> | <p>(G) METAL EYEBROW, OUTRIGGERS, & FLASHINGS:
 MFRG: FIRESTONE UNA-CLAD
 MATL: .040 ALUMINUM
 COLOR: EXTRA DARK BRONZE
 FINISH: KYNAR 500
 VENDOR: ARCHITECTURAL METALS, SEE NATIONAL VENDORS LIST</p> | <p>(L) EIFS: (MEDIUM)
 MFRG: STO CORPORATION
 COLOR: NA20-0019 (MATCHES BENJAMIN MOORE, WILLOW CREEK #1468)
 FINISH: 310 ST0 (FINE SAND)
 NOTE: PROVIDE HIGH IMPACT EIFS FROM GRADE TO 3'-0" A.F.F.</p> |
| <p>(D) EIFS: (DARK)
 MFRG: STO CORPORATION
 COLOR: NA19-0023 (MATCHES BENJAMIN MOORE, DEEP CREEK 1477)
 FINISH: 130D STOUT 1.0D (FINE SAND)
 NOTE: PROVIDE HIGH IMPACT EIFS FROM GRADE TO 3'-0" A.F.F.</p> | <p>(H) EIFS: (BLUE)
 MFRG: STO CORPORATION
 COLOR: NA19-0024 (MATCHES BENJAMIN MOORE, BIG COUNTRY BLUE #2666-30)
 FINISH: 130D STOUT 1.0 (FINE SAND)
 NOTE: PROVIDE HIGH IMPACT EIFS FROM GRADE TO 3'-0" A.F.F.</p> | <p>(N) METAL EYEBROW, OUTRIGGERS, & FLASHINGS:
 MFRG: FIRESTONE UNA-CLAD
 MATL: .040 ALUMINUM
 COLOR: CLEAR ANODIZED
 FINISH: SATIN
 VENDOR: ARCHITECTURAL METALS, SEE NATIONAL VENDORS LIST</p> |
| <p>(E) COPING & SCUPPERS:
 MFRG: FIRESTONE UNA-CLAD
 MATL: 24 GA. STEEL
 COLOR: SILVER METALLIC
 FINISH: KYNAR 500
 VENDOR: ARCHITECTURAL METALS, SEE NATIONAL VENDORS LIST</p> | <p>(K) STOREFRONT:
 MFRG: YKK AP AMERICA INC.
 STYLE: 2"x4 1/2"
 FINISH: DARK BRONZE
 GLAZING: CLEAR, 1" INSULATED, LOW E</p> | <p>(P) PAINT:
 MFRG: BENJAMIN MOORE
 COLOR: TEMPORAL SPIRIT 965
 PRODUCT: AURA EXTERIOR PAINT, EGG SHELL LOW LUSTRE #634
 PRIMER: FIRST COAT - AURA EXTERIOR PAINT</p> |

OPENING SCHEDULE NATIONAL ACCOUNT DOOR AND FRAME SUPPLIER (PLAM, WOOD AND H.M.) HAMILTON PARKER, SEE NATIONAL VENDORS LIST

OPNG. NO.	OPENING LOCATION	FRAME				DOOR			FIRE RATING	HARDWARE GROUP	NOTES:
		SIZE	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH			
100A	VESTIBULE (EXT.)	3'-4" x 7'-2" x 4 1/2"	F-1	ALUM	DK BRZ	B	ALUM.	DK BRZ	-	E3	SEE 3/3.2 & 4/A3.2 FOR DOOR HANDLE INSTALLATION
100B	VESTIBULE (EXT.)	3'-4" x 7'-2" x 4 1/2"	F-1	ALUM	DK BRZ	B	ALUM.	DK BRZ	-	E3	SEE 3/3.2 & 4/A3.2 FOR DOOR HANDLE INSTALLATION
100C	VESTIBULE (INT.)	6'-4" x 7'-2" x 4 1/2"	F-2	ALUM	DK BRZ	B	ALUM.	DK BRZ	-	E2	MOUNT BOTTOM OF DOOR FRAME LEVEL W/ TOP OF FLOOR TILE
100D	VESTIBULE WINDOW	6'-4" x 6'-0" x 4 1/2"	F-4	ALUM	DK BRZ	-	-	-	-	-	
101A	DINING ROOM	9' 11-1/4" x 6'-0" x 4 1/2"	F-4	ALUM	DK BRZ	-	-	-	-	-	
101B	DINING ROOM	14'-2" x 6'-0" x 4 1/2"	F-5	ALUM	DK BRZ	-	-	-	-	-	
101C	DINING ROOM	16'-11 1/2" x 6'-0" x 4 1/2"	F-7	ALUM	DK BRZ	-	-	-	-	-	
101D	TO PATIO	8'-7" x 9'-2" x 4 1/2"	F-6	ALUM	DK BRZ	B	ALUM.	DK BRZ	-	E3	SEE 3/3.2 & 4/A3.2 FOR DOOR HANDLE INSTALLATION
101E	DINING ROOM	9'-8" x 6'-0" x 4 1/2"	F-5	ALUM	DK BRZ	-	-	-	-	-	
102	RESTROOM	3'-4" x 7'-2" x5 3/4"	F-1	HM	PNT	A	PC	-	-	R1	UNDERCUT BY 1". - PLAM: FORMICA PLATINUM 902-58
103	RESTROOM	3'-4" x 7'-2" x5 3/4"	F-1	HM	PNT	A	PC	-	-	R1	UNDERCUT BY 1". - PLAM: FORMICA PLATINUM 902-58
105	DRIVE-THRU	6'-0" x 5'-4" x 4 1/2"	F-3	ALUM	CLR	-	-	-	-	-	
109	OFFICE	3'-4" x 7'-2" x5 3/4"	F-1	HM	PNT	A	PC	-	-	O	UNDERCUT BY 1". - PLAM: FORMICA PLATINUM 902-58
110	SERVICE	3'-10" x 7'-2" x 5 3/4"	F-1	HM	PNT	A	HM	-	-	S1	-

NOTES:

1. PARTICLE CORE DOORS: SIZE AS PER PLAN AND SCHEDULE. ALL EDGES/SURFACES TO BE COVERED WITH PLASTIC LAMINATE.
2. HOLLOW METAL DOOR(S): SIZE AS PER PLAN AND SCHEDULE. (HOT ROLLED LEVEL 2 MODEL 2) STEEL TO BE 18 GA., INTERIOR TO BE FOAM INSULATION, WITH INTEGRAL REINFORCEMENT FOR CLOSURE AND PANIC HARDWARE.
3. GLAZING (TYPICAL AT ALL): CLEAR, 1" INSULATED, LOW E

ALUM = ALUMINUM
HM = HOLLOW METAL
PC = PARTICLE CORE
DK BRZ = ANODIZED ALUMINUM STATUTORY DARK BRONZE FINISH
CLR = ANODIZED ALUMINUM CLEAR FINISH
PNT = SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR COLOR

HARDWARE GROUPS

NATIONAL ACCOUNT DOOR AND FRAME SUPPLIER (PLAM, WOOD AND H.M.) HAMILTON PARKER, SEE NATIONAL VENDORS LIST

- GROUP #E2: TYPICAL INTERIOR VESTIBULE DOORS**
- CLOSER: HAGER MFG. MODEL #5200 SPR CSH CLOSER.
 - HINGE(S): HAGER MFG., MDL #BB1199 32DB WITH NON-REMOVABLE HINGE PINS, 4.5" X 4.5" X 0.180" THK., (4) HINGES PER LEAF.
 - PUSH/PULL: HAGER MFG., MDL#159D LH COMBO 32DB, & MDL#159D COMBO 32DB.
 - FLOOR STOP: HAGER 241F 26D DOME LOW STOP, (1) PER LEAF

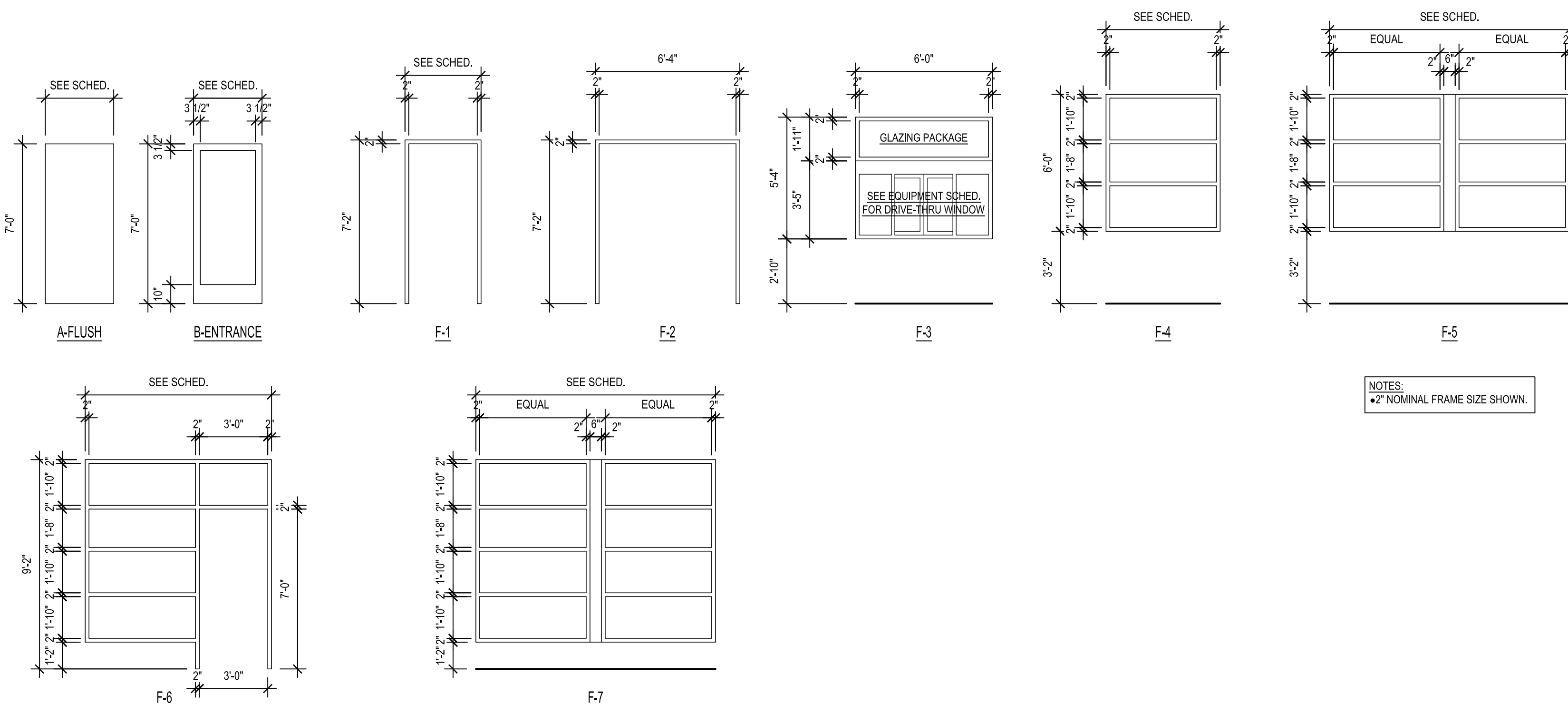
1. HARDWARE PART OF DOOR MANUFACTURERS PACKAGE
2. NOTE: DEADBOLT LOCK NOT ALLOWED ON THIS DOOR SET

- GROUP B'S: TYPICAL EXTERIOR PATIO/GRESS DOOR HARDWARE
 CLOSER: HAGER MFG. MODEL #5200 SPR CHS CLOSER.
 • HINGES(H): 4.5" X 4.5" X 1.180" THICK, 4 HINGERS PER LEAF.
 HINGE PINS: 4.5" X 4.5" X 1.180" THICK, (4) HINGERS PER LEAF.
 CYLINDERS: HAGER MFG. MODEL #362 MORTISE CYLINDER.
 PROVIDE (2) KEYS PER DOOR, ALL CYLINDERS KEYS ALIKE. (MOUNTED
 AT 34" AFF. COORDINATE W/ SPOON HANDLE)
 • SPOON HANDLE (PROVIDED & INSTALLED BY ALUM. STOREFRONT
 CONTRACTOR, AVAILABLE FROM HUC, SEE ADD. NOTATIONAL VENDORS
 LIST)
 • HAGER 4500 SERIES RIM PANIC HANDLER (OR SIMILAR WITH
 ARCHITECT APPROVAL)
 • SWEEP: HAGER MFG. MDL #00158, MIL ALUM FINISH, SIZED TO FIT
 DOOR WIDTH.
 • WEATHER: HAGER MFG. MDL #412S, MIL ALUM FINISH, SIZED TO FIT
 DOOR OPENING WIDTH.
 • WEATHER STRIPPING:
 • WEATHER STRIPPING:

- GROUP 15: TYPICAL REAR SERVICE DOOR
- * CLOSER: HAGER MFG. MODEL #2500 SPR CSH CLOSER.
- * EXIT DEVICE: HAGER MFG., MDL #4710 RIM US28, SPRAYED ALUMINUM FINISH.
- * HINGE(S): HAGER MFG., MDL #ECB8 1100 US28D WITH NON-REMOVABLE HINGE PINS, 4.5" X4.5" X 0.134" THICK. (4) HINGES PER LEAF.
- * KICK PLATE: HAGER MFG., MDL #ARMOR PLATE, 40"W X 20"H X 0.05" THK.
- * PROTECTOR, TRIM: HAGER, MFG., MDL #H2250
- * PULL: HAGER MFG., MDL #J32D, (EXTERIOR SIDE OF DOOR).
- * SWEET: HAGER MFG., MDL #901S V, MIL ALUM FINISH, SIZED TO FIT DOOR WIDTH.
- * THRESHOLD: HAGER MFG., MDL #412S, MIL ALUM FINISH, SIZED TO FIT DOOR OPENING WIDTH.
- * VIEWER: HAGER MFG., 1756 US26D, 200 DEGREE VIEW (FACTORY INSTALLED).
- * WEATHERSTRIPPING: HAGER MFG., MDL #891S V, MIL ALUM FINISH, SIZED TO FIT DOOR.
- * EXIT ALARM: EXC BATTERY POWERED DOOR MOUNTED WEATHERSTRIPING EXIT ALARM, EXC-B000

- GROUP #R1: TYPICAL SINGLE OCCUPANCY RESTROOM DOOR
-CLOSER: HAGER MFG. MODEL #5200 CLOSER.
-HINGES: HAGER MFG., MDL #ECBB 1100 US26D, 4.5" X 4.5" X 0.134" Thk.
-3 HINGES PER LEAF.
-KICK PLATE: HAGER MFG., MDL#190S 18 Ga. 34"W X 10"H X 0.05" Thk.
(MOUNTING HOLES PREDRILLED AT FACTORY, INSTALLED ON PUSH SIDE OF DOOR)

- INDICATOR LOCK: SCHLAGE B571626
 -(2) 4x16 PUSH PLATES - DRILLED
 -PULL HANDLE: HAGER 3E320



NOTES:
● 2" NOMINAL FRAME SIZE SHOWN.

DOOR & FRAME TYPES

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

INDIANA ARCHITECT LICENSE NUMBER
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ISSUE DATE: 12/31/21

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12/31/21

ORIGINAL ISSUE

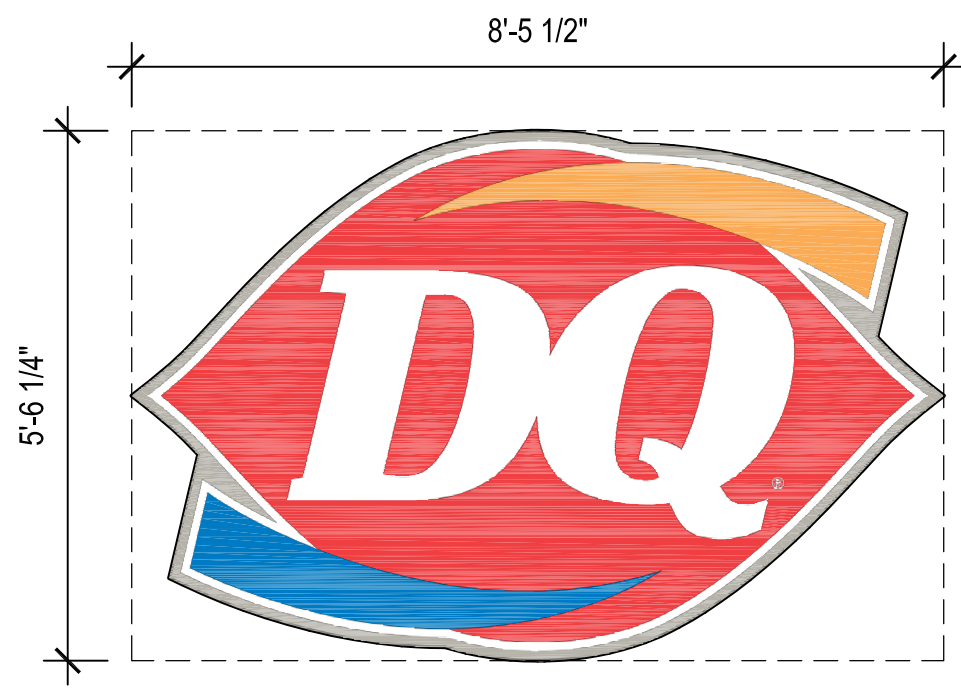
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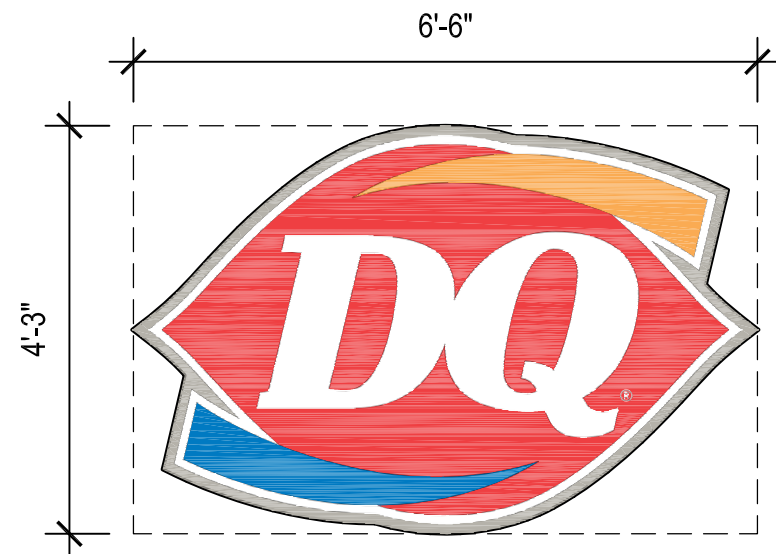
ELEVATIONS, DOOR & FRAME TYPES

SHEET NUMBER:

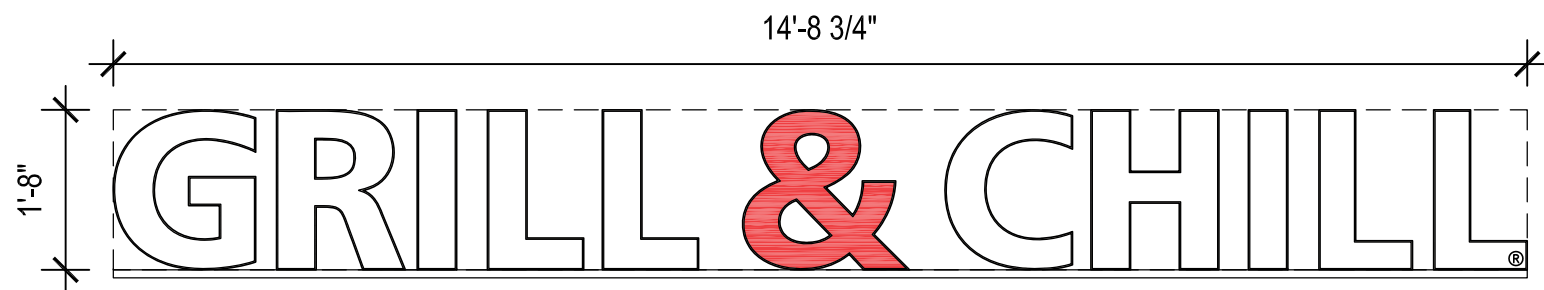
A3.2



B DAIRY QUEEN LOGO (ILLUM.)
PROFILE = 33.1 SF RECTANGULAR = 46.7 SF

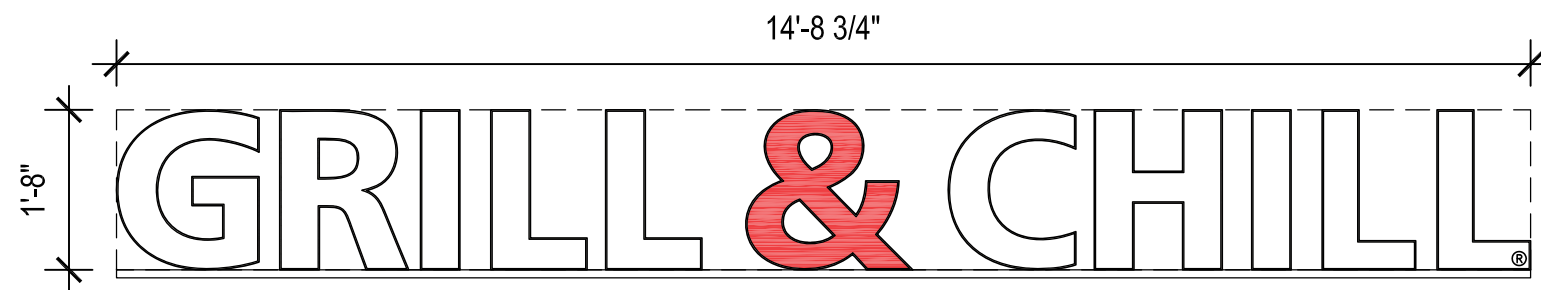


C DAIRY QUEEN LOGO (ILLUM.)
PROFILE = 19.6 SF RECTANGULAR = 27.6 SF



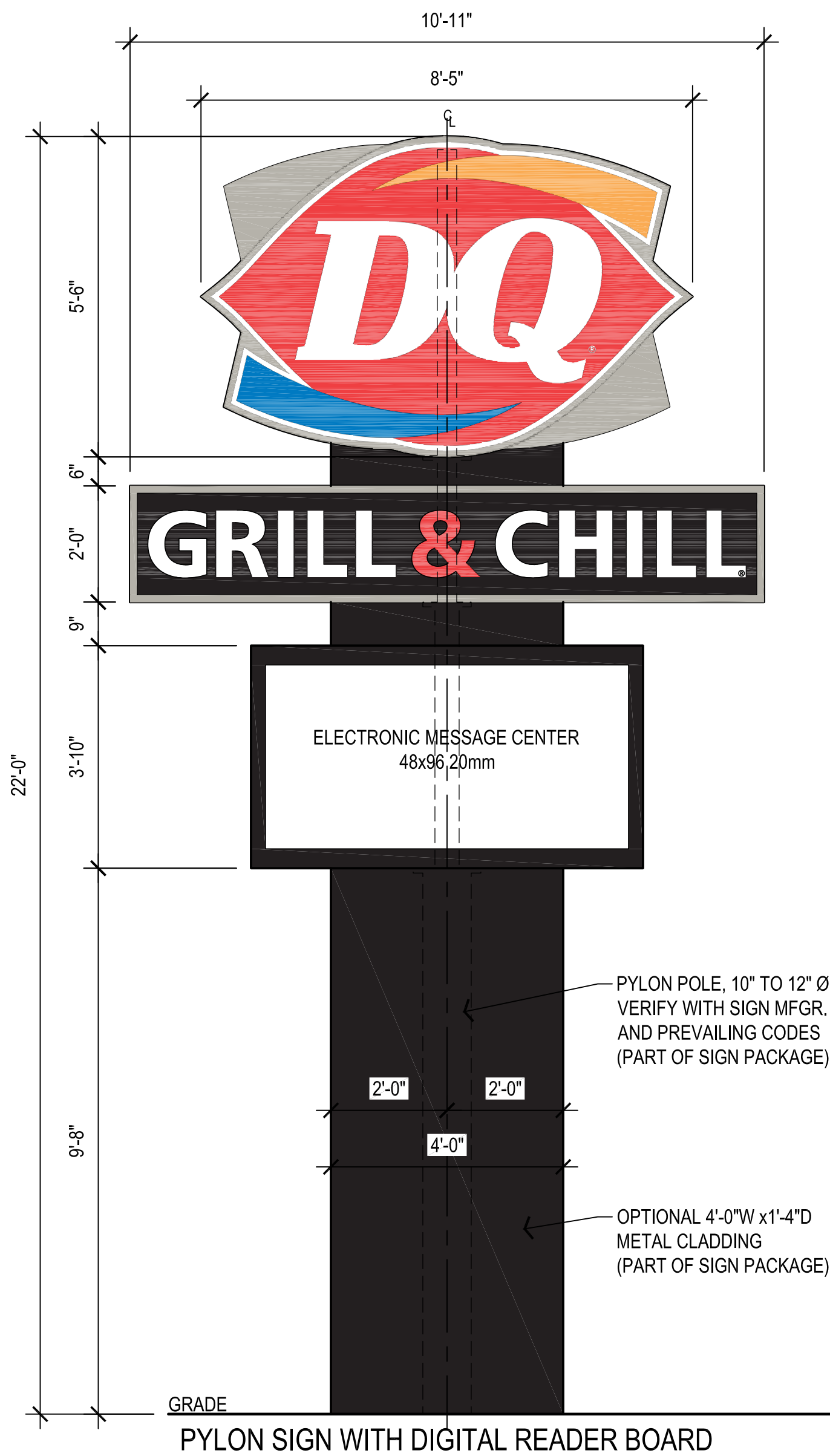
102 1'-8" H. CHANNEL LETTERS
INTERNALLY ILLUMINATED
PROFILE AREA: 12.22 SF RECTANGULAR AREA: 24.55 SF

2 BUILDING SIGNAGE (FRONT ELEVATION)
SCALE: 1/2" = 1'-0"

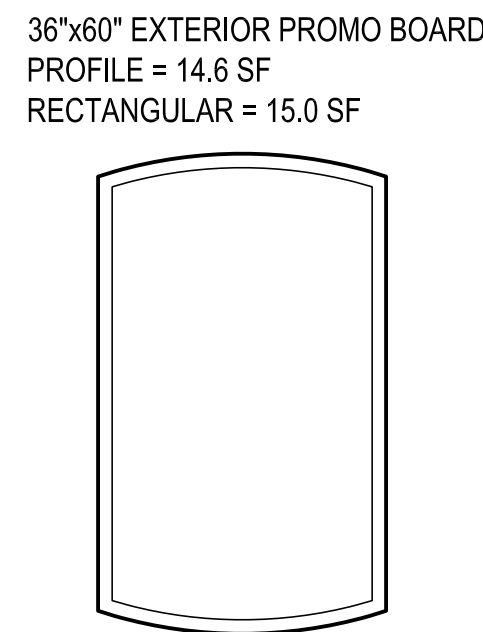
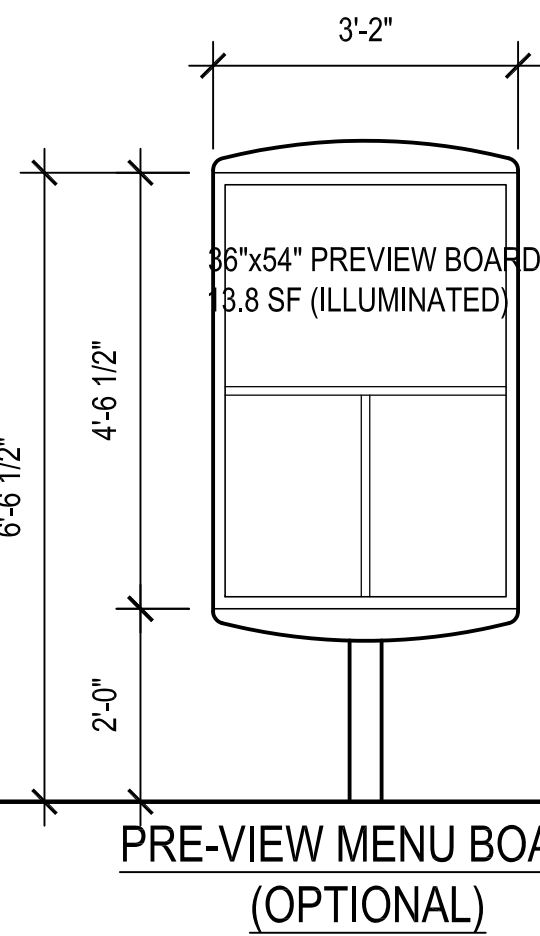
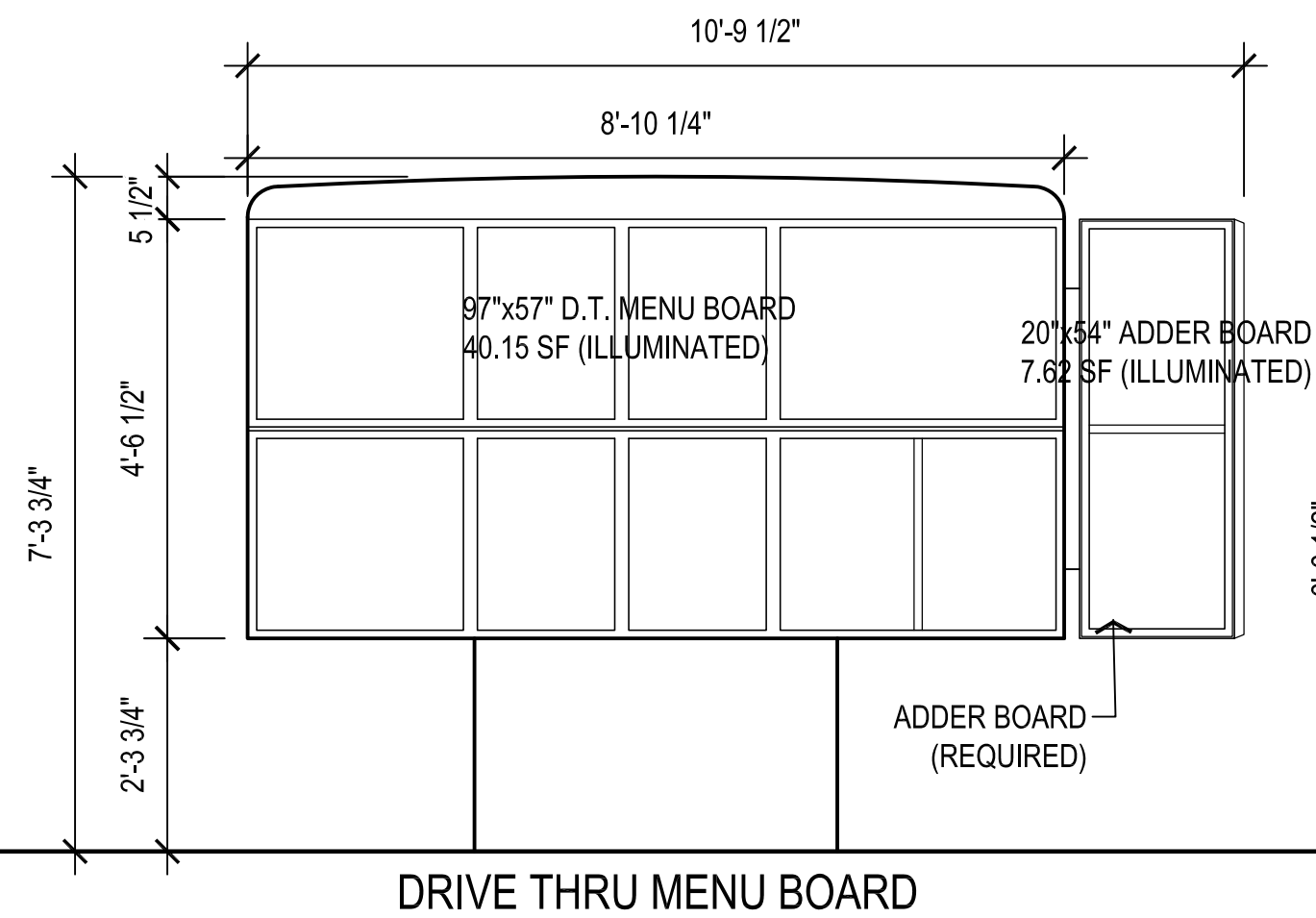


102 1'-8" H. CHANNEL LETTERS
INTERNALLY ILLUMINATED
PROFILE AREA: 12.22 SF RECTANGULAR AREA: 24.55 SF

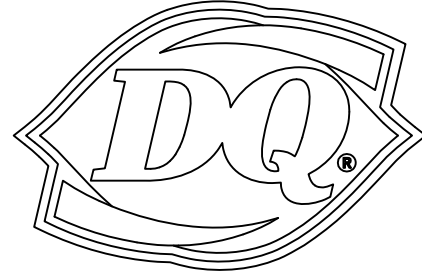
3 BUILDING SIGNAGE (ENTRANCE ELEVATION)
SCALE: 1/2" = 1'-0"



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



NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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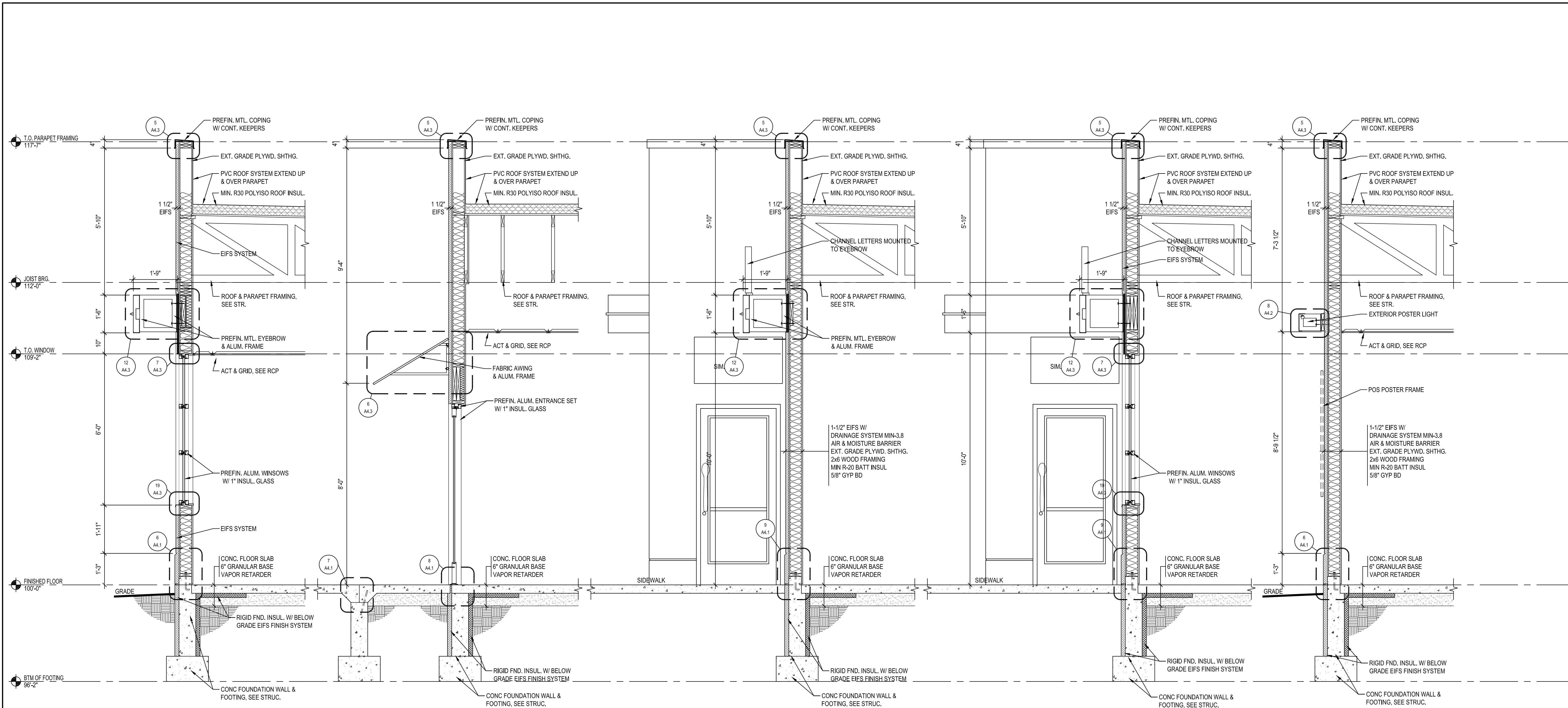
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SIGNAGE MATRIX

SHEET NUMBER:

A3.3



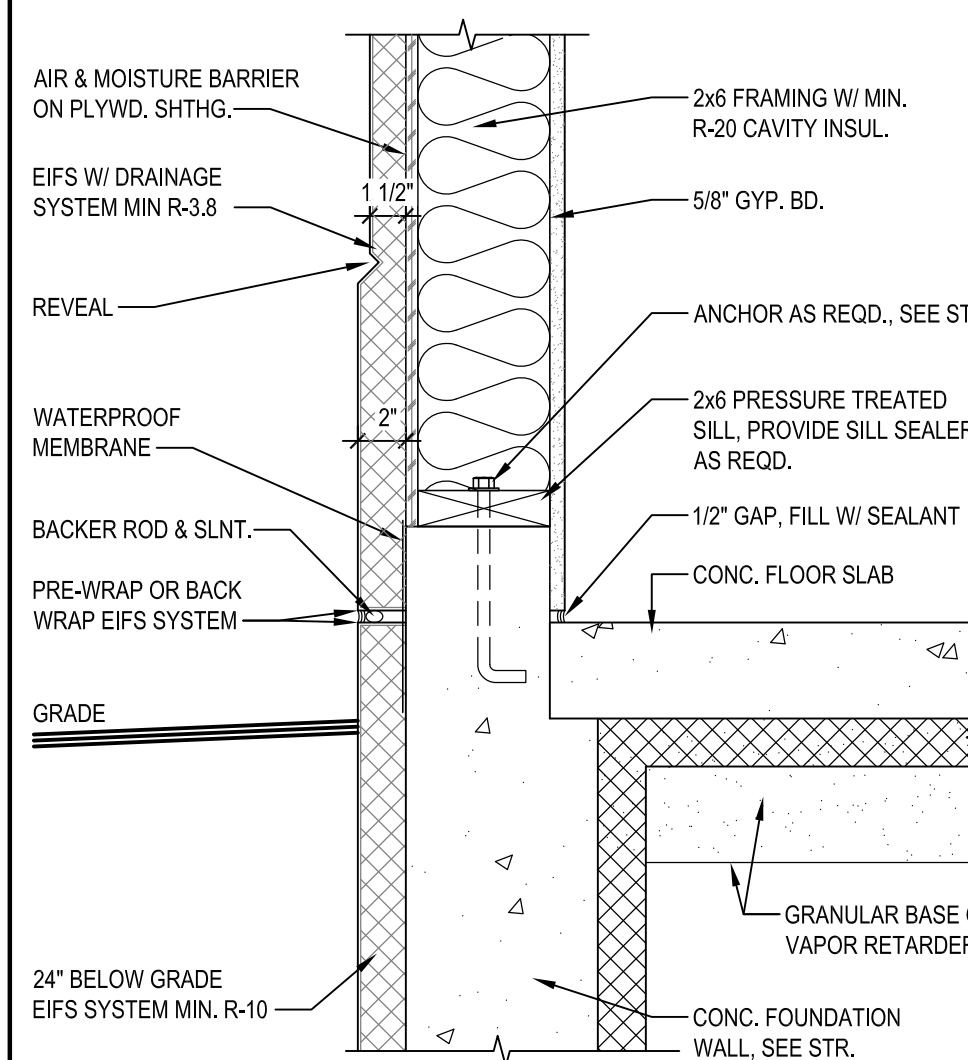
1 SECTION
A4.1 SCALE: 1/2" = 1'-0"

2 SECTION
A4.1 SCALE: 1/2" = 1'-0"

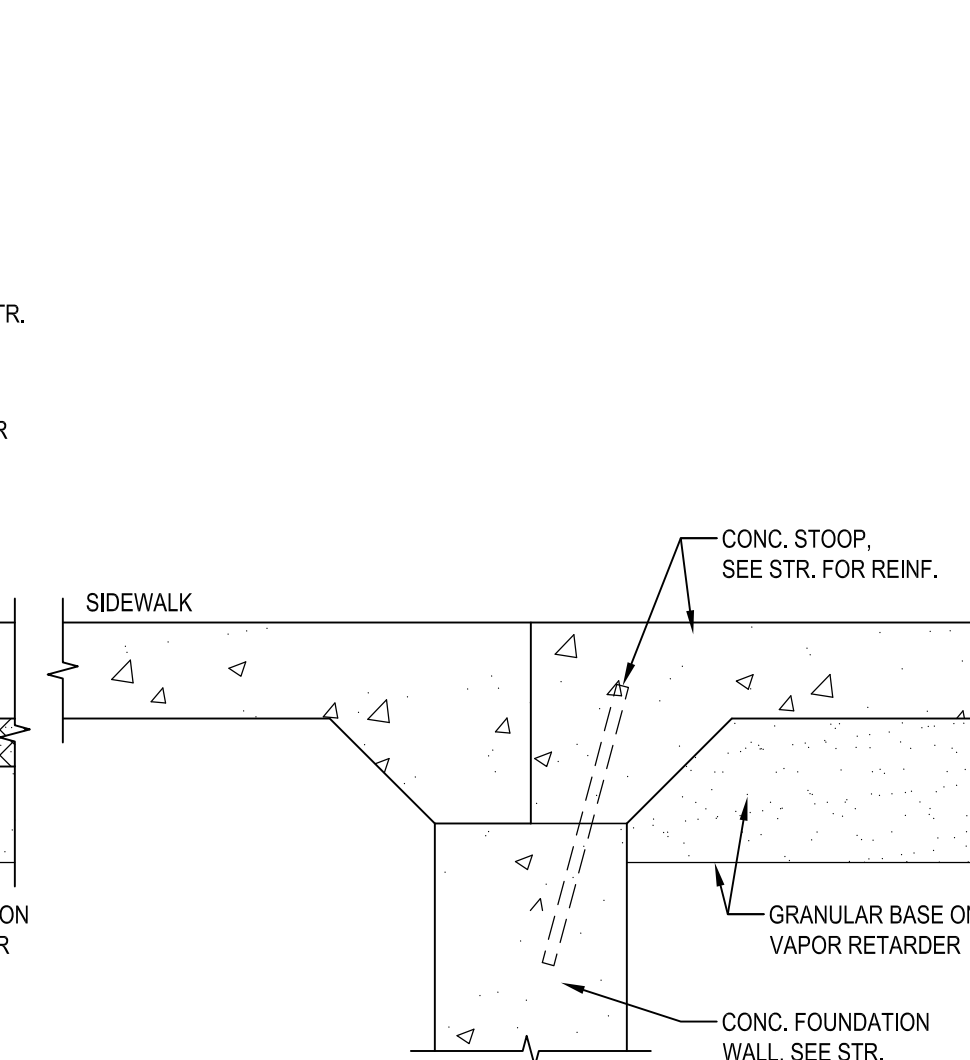
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A4.1 SCALE: 1/2" = 1'-0"

4 SECTION
A4.1 SCALE: 1/2" = 1'-0"

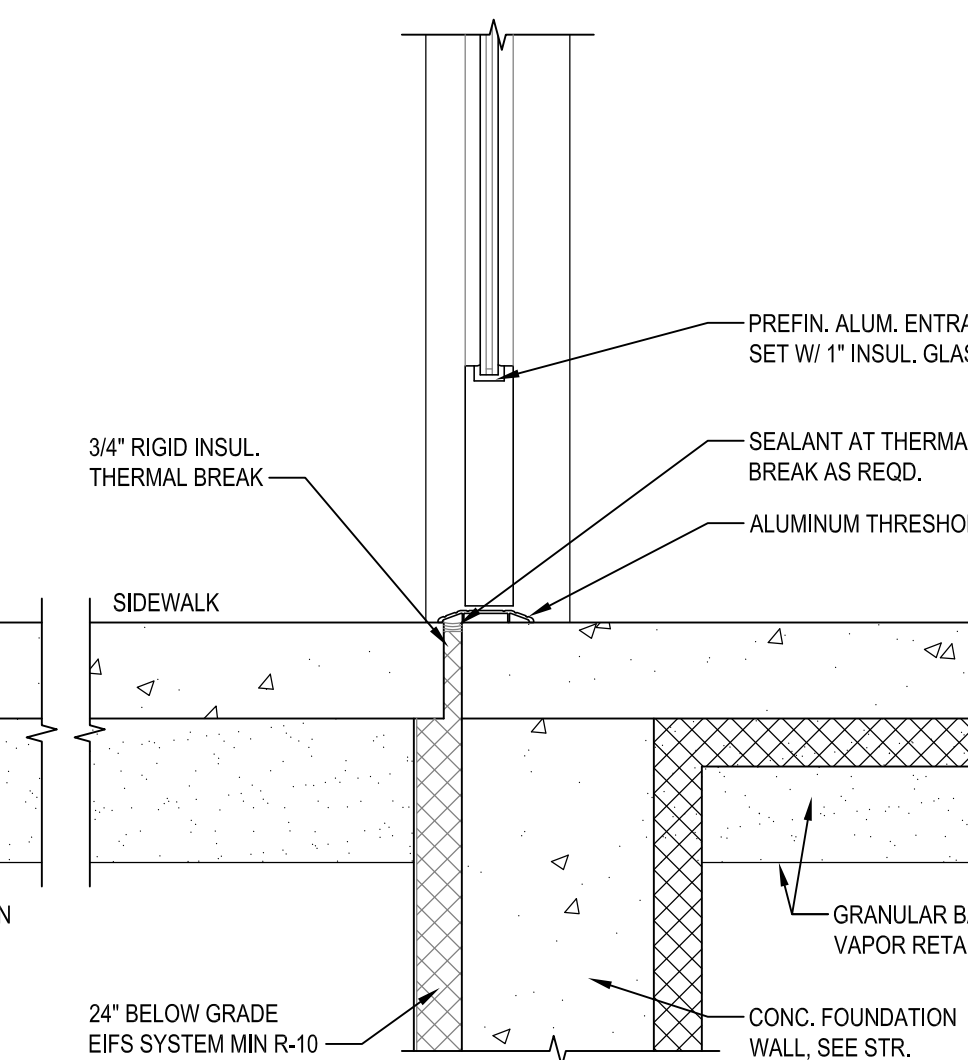
5 SECTION
A4.1 SCALE: 1/2" = 1'-0"



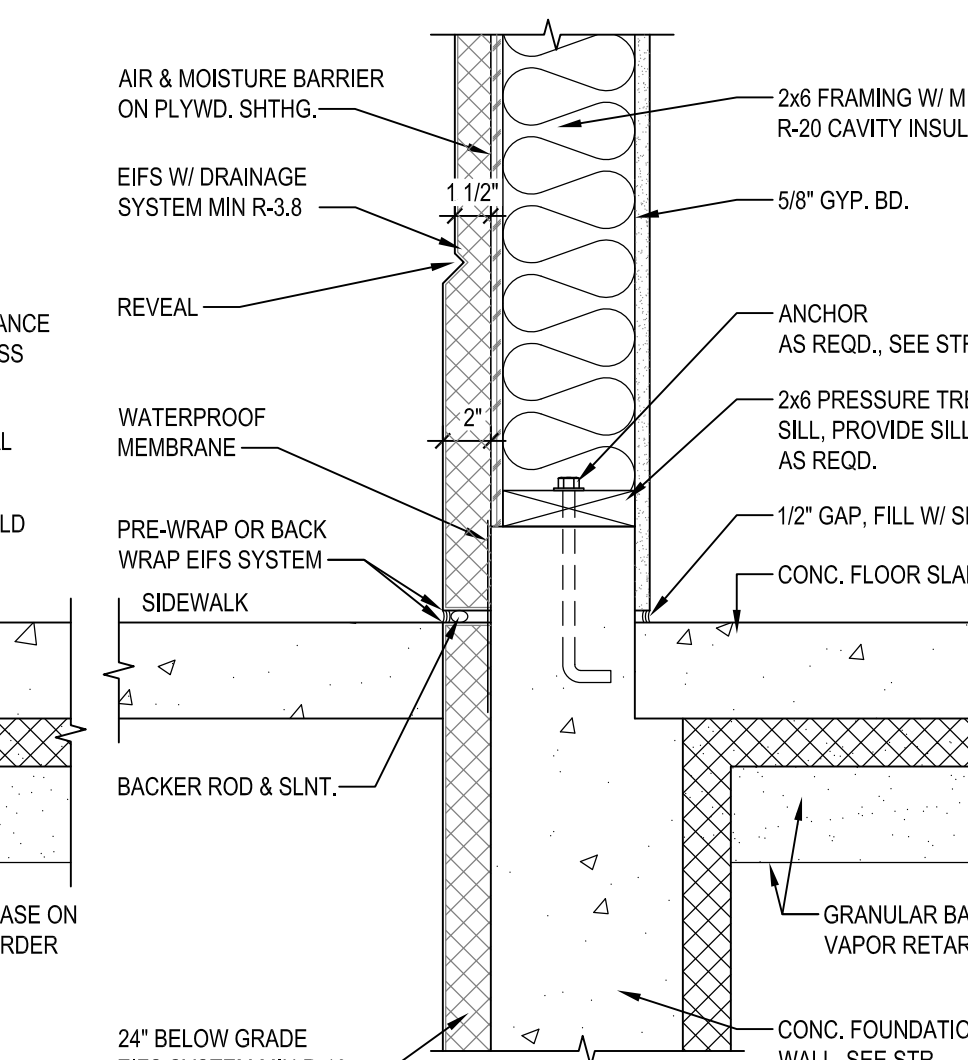
6 FINISH AT GRADE
A4.1 SCALE: 1 1/2" = 1'-0"



7 CONCRETE STOOP
A4.1 SCALE: 1 1/2" = 1'-0"



8 DOOR THRESHOLD
A4.1 SCALE: 1 1/2" = 1'-0"

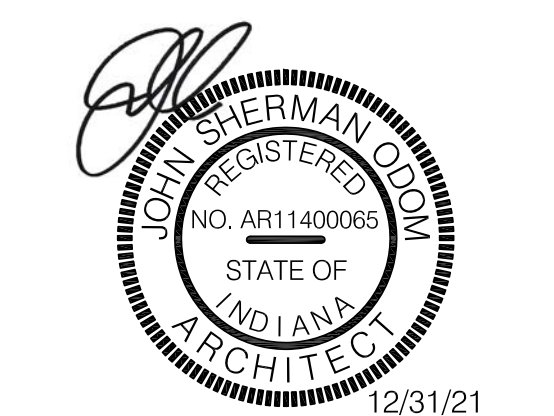


9 WALL FINISH AT SIDEWALK
A4.1 SCALE: 1 1/2" = 1'-0"

NEW BUILDING FOR:

220 NORTH DIXIE WAY
ROSELAND, IN 46673

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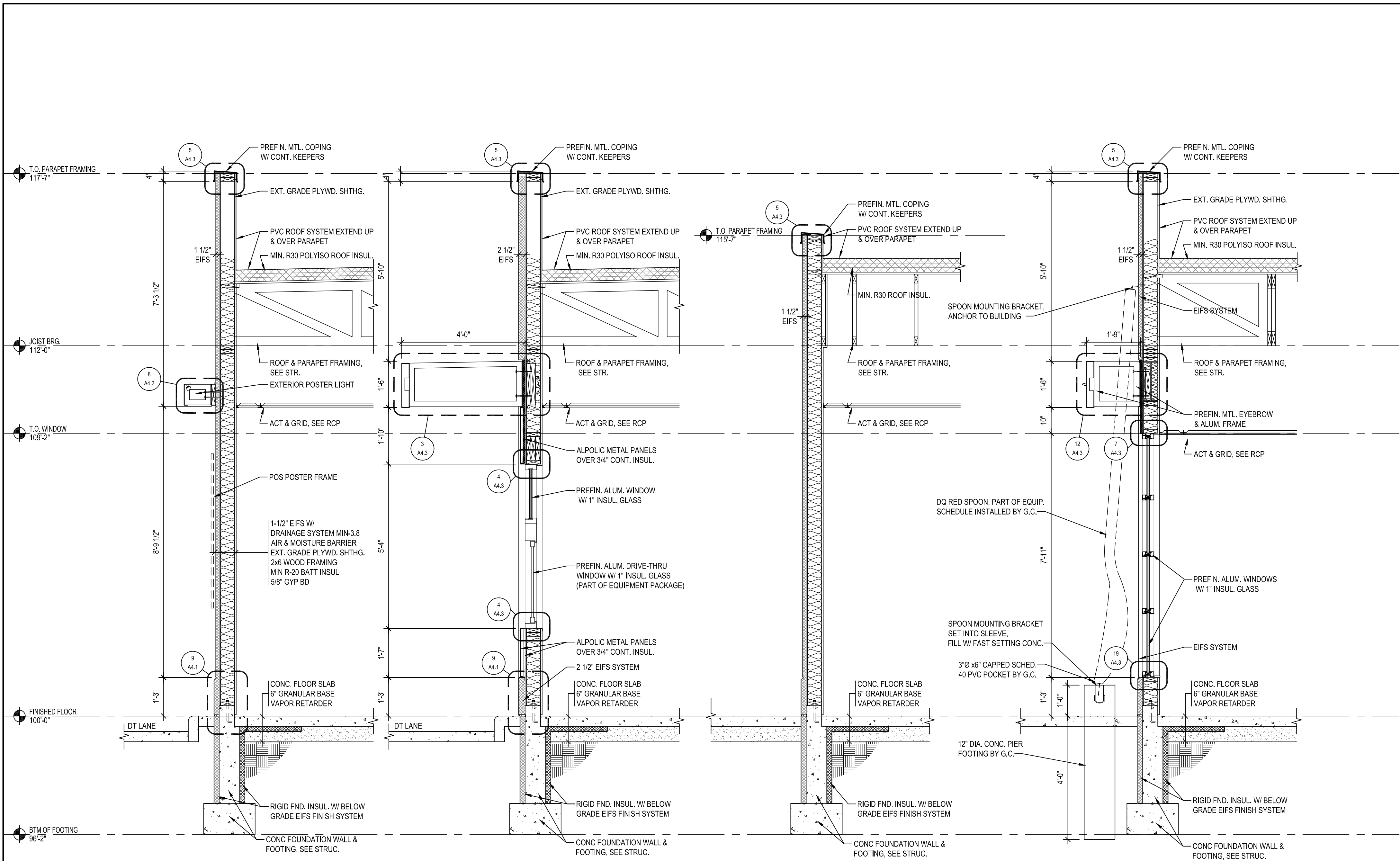
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WALL SECTIONS & DETAILS

SHEET NUMBER:
A4.1

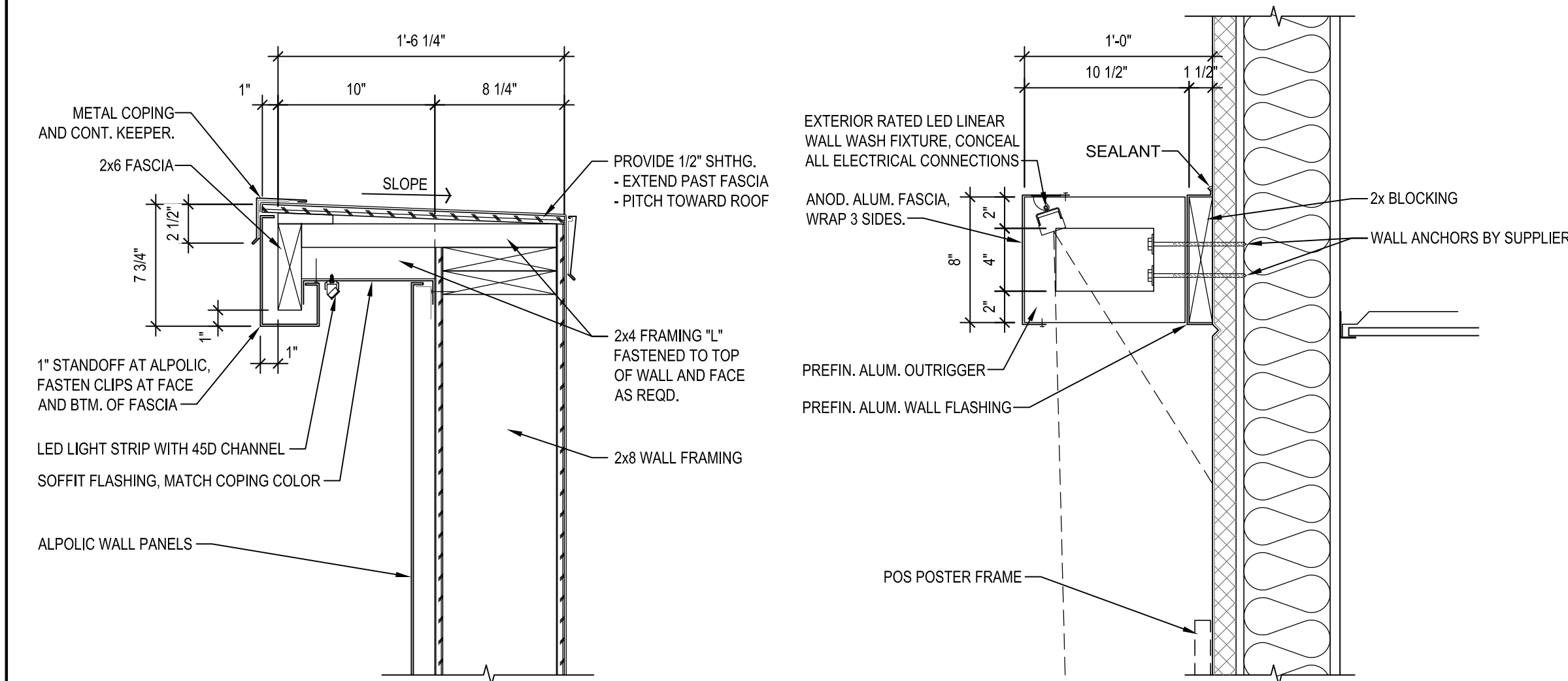


SECTION 1
A4.2 SCALE: 1/2" = 1'-0"

SECTION 2
A4.2 SCALE: 1/2" = 1'-0"

SECTION 3
A4.2 SCALE: 1/2" = 1'-0"

SECTION 4
A4.2 SCALE: 1/2" = 1'-0"



7 PARAPET DETAIL
A4.2 SCALE: 1 1/2" = 1'-0"

8 EXTERIOR VALANCE LIGHT
A4.2 SCALE: 1 1/2" = 1'-0"

NEW BUILDING FOR:

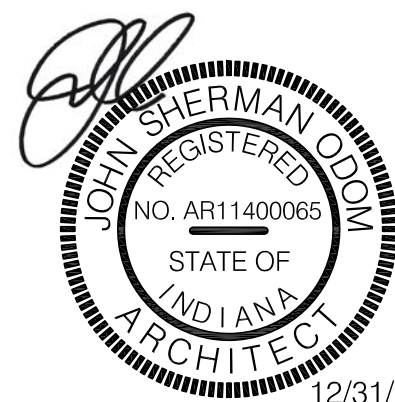


220 NORTH DIXIE WAY
ROSELAND, IN 46673

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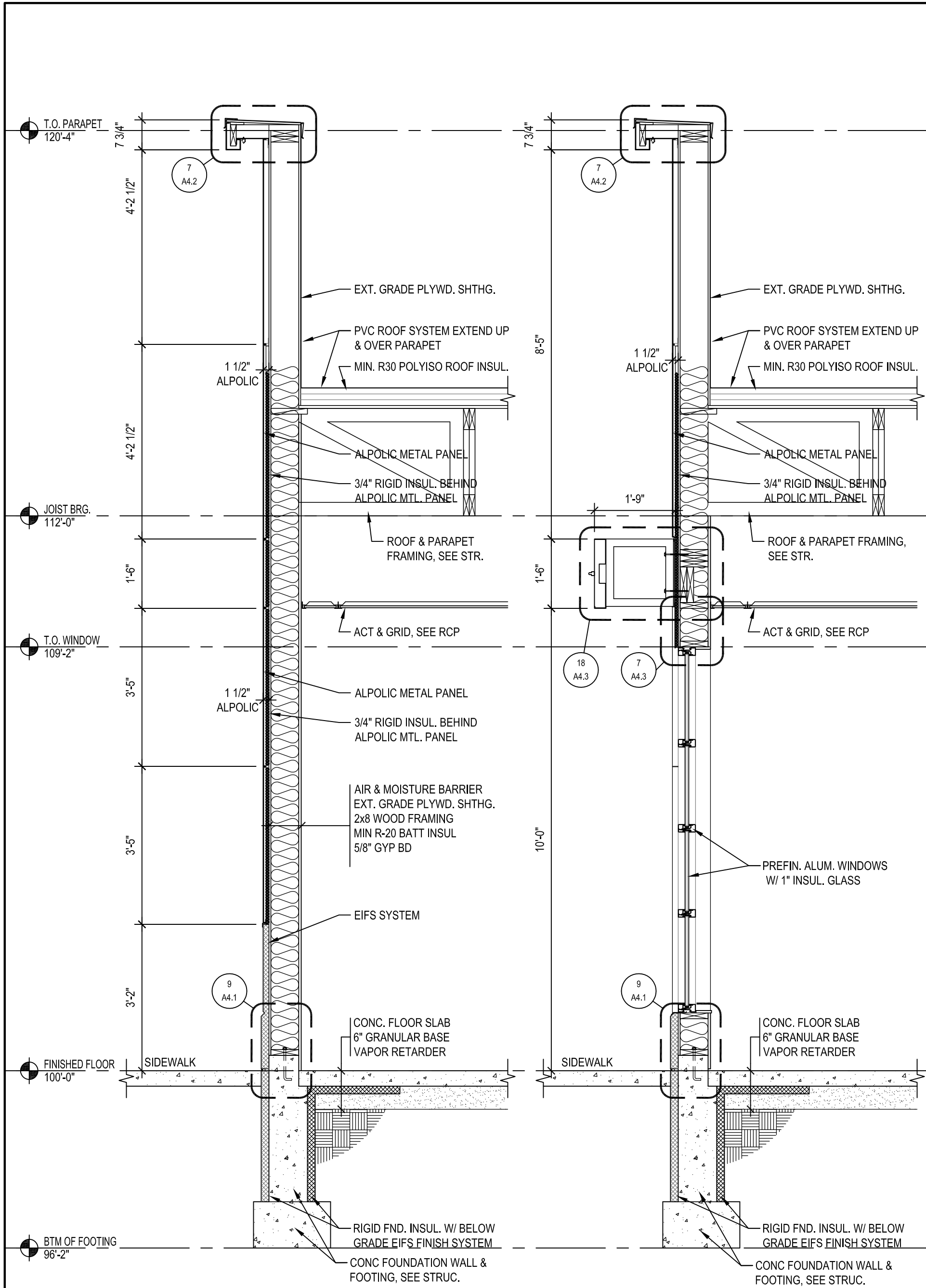
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WALL SECTIONS
& DETAILS

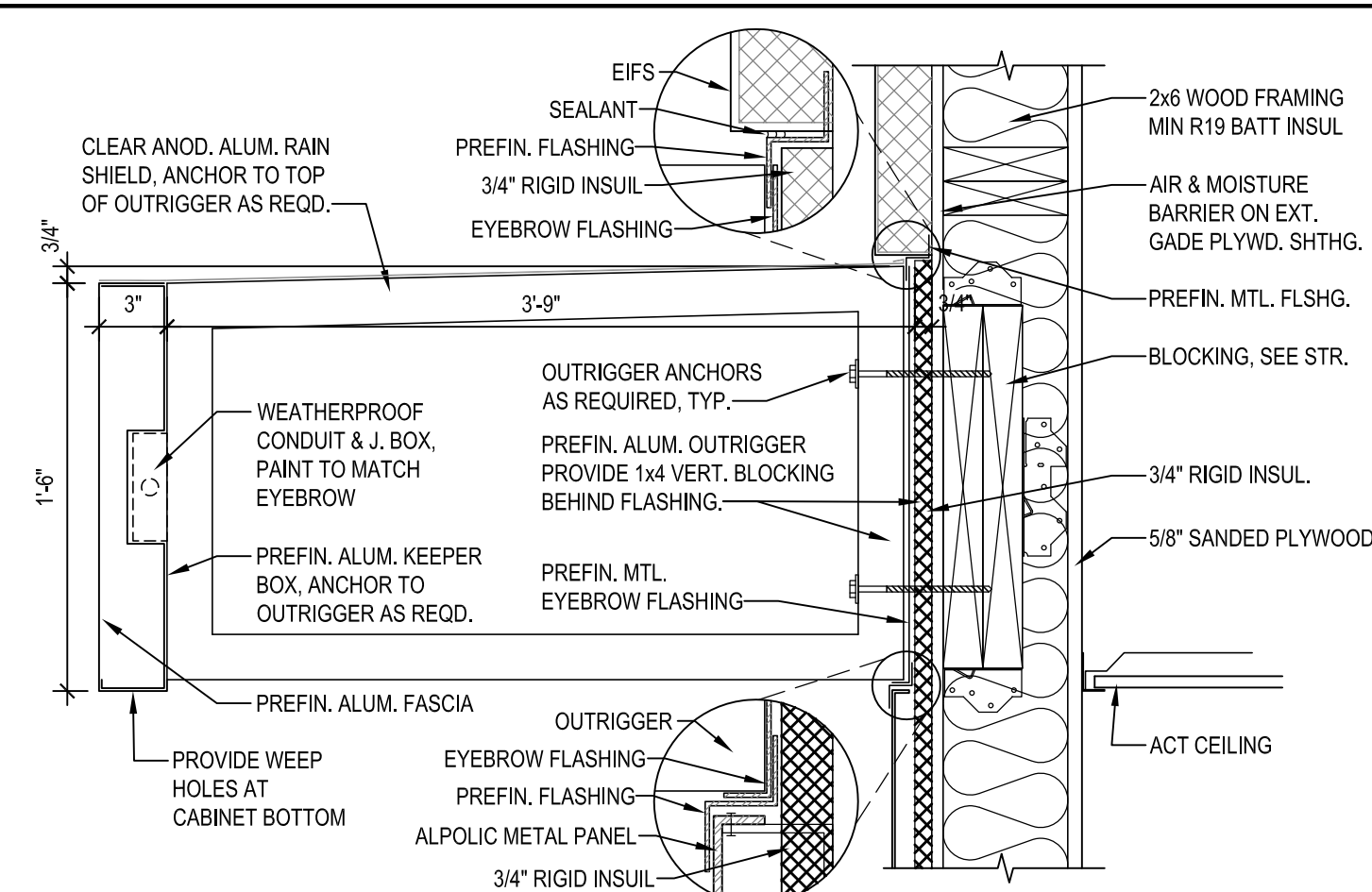
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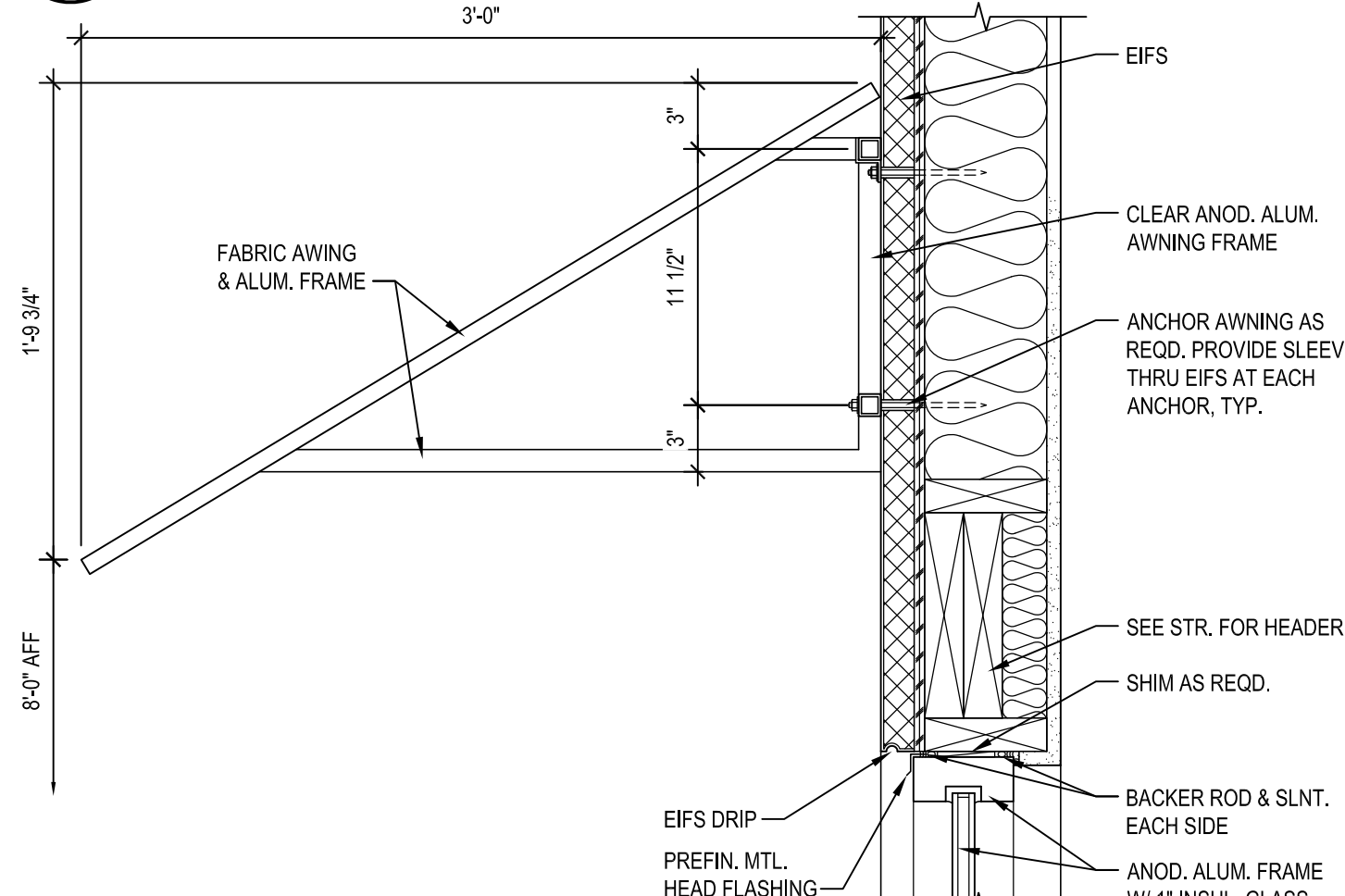


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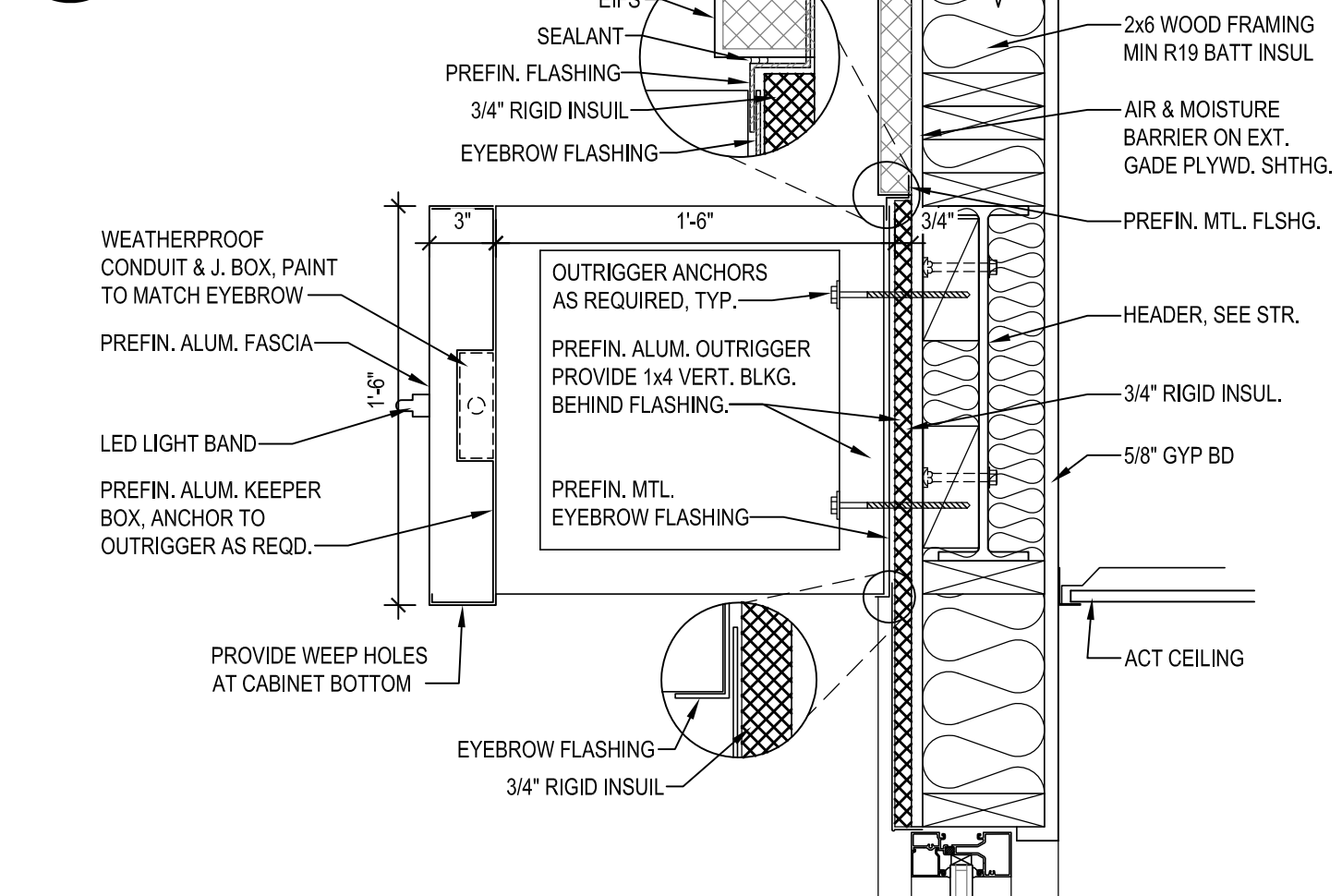
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A4.3 SCALE: 1/2" = 1'-0"



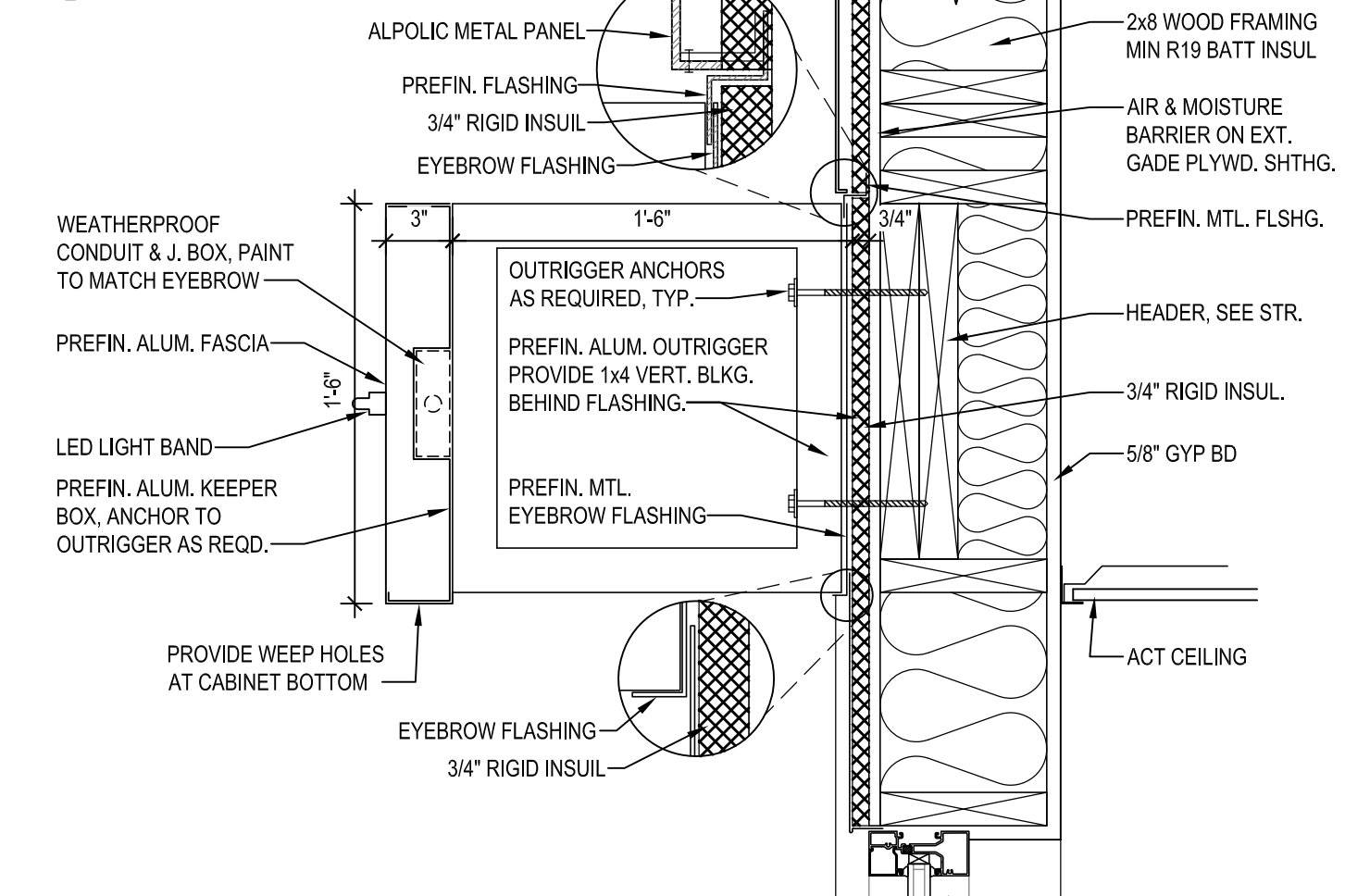
3 DT CANOPY DETAIL
A4.3 SCALE: 1 1/2" = 1'-0"



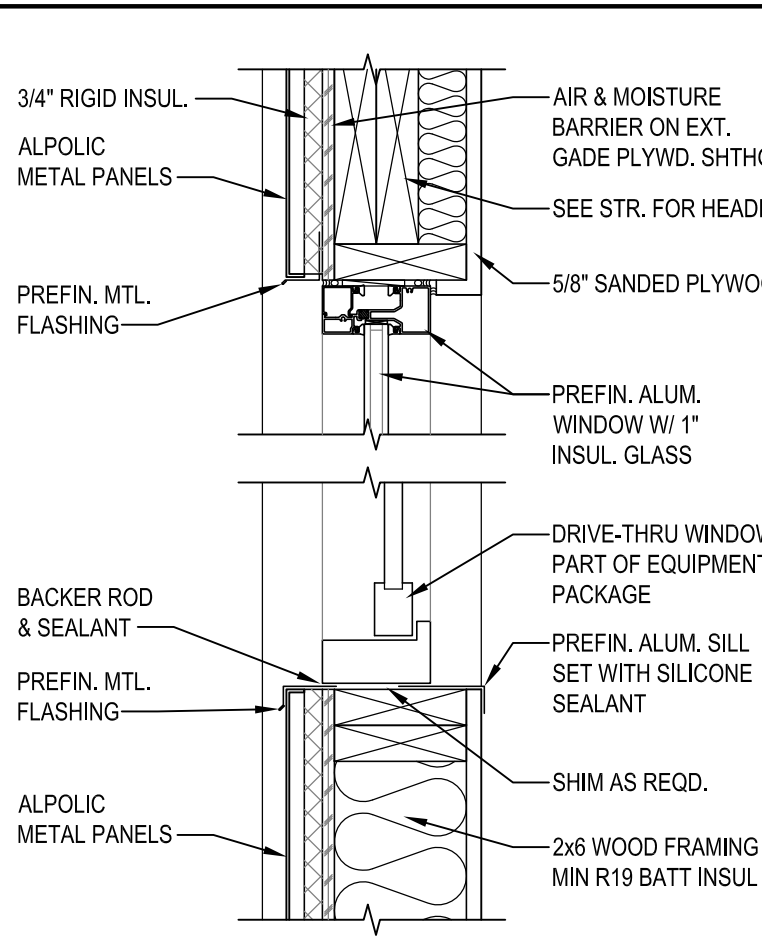
6 ENTRY CANOPY DETAIL
A4.3 SCALE: 1 1/2" = 1'-0"



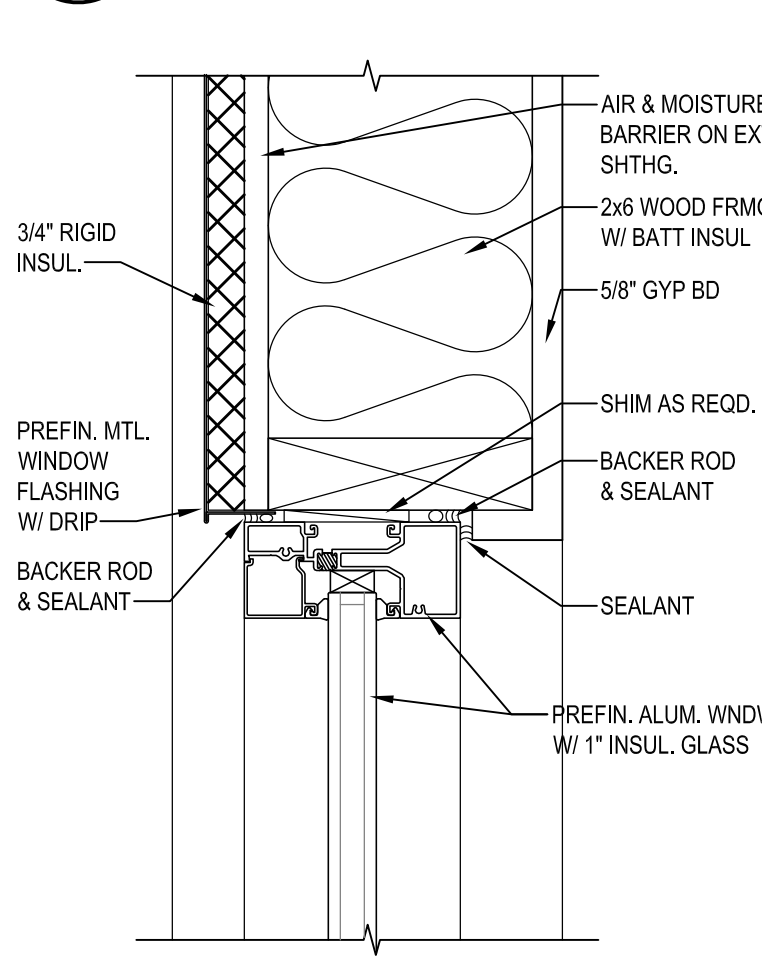
12 EYEBROW DETAIL
A4.3 SCALE: 1 1/2" = 1'-0"



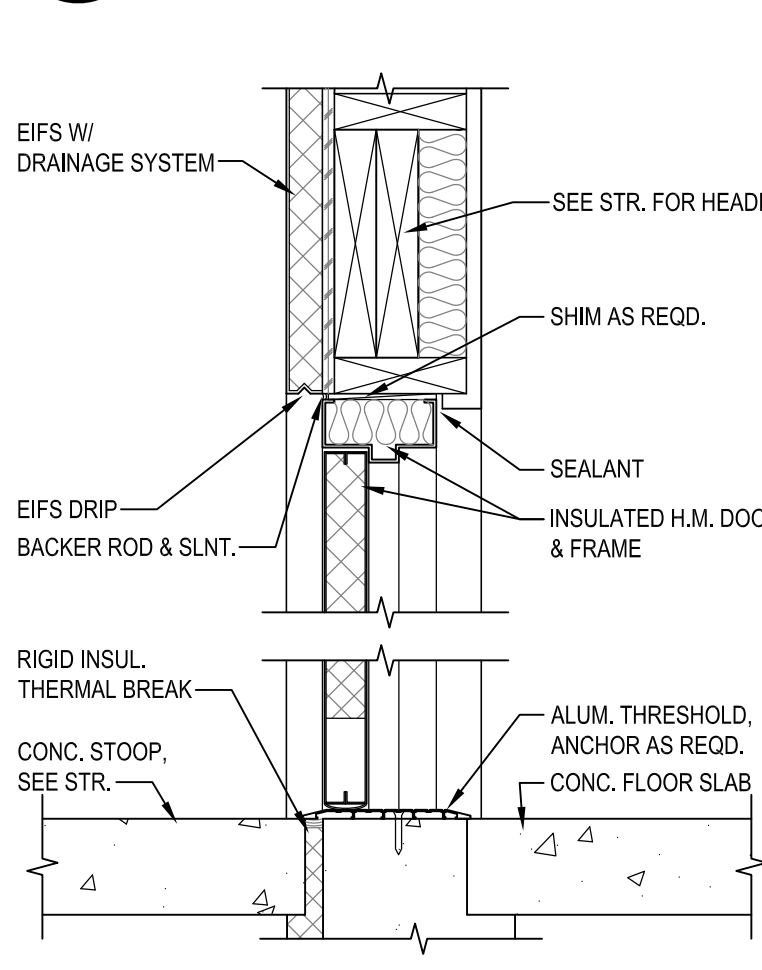
18 EYEBROW DETAIL
A4.3 SCALE: 1 1/2" = 1'-0"



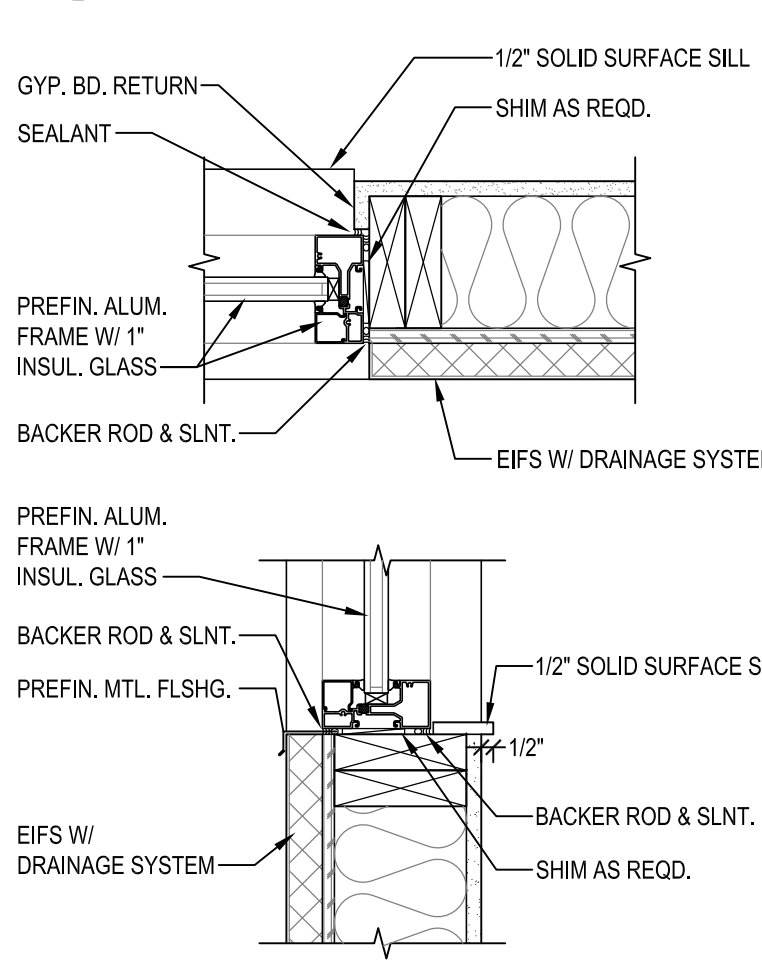
4 DT WINDOW DETAIL
A4.3 SCALE: 1 1/2" = 1'-0"



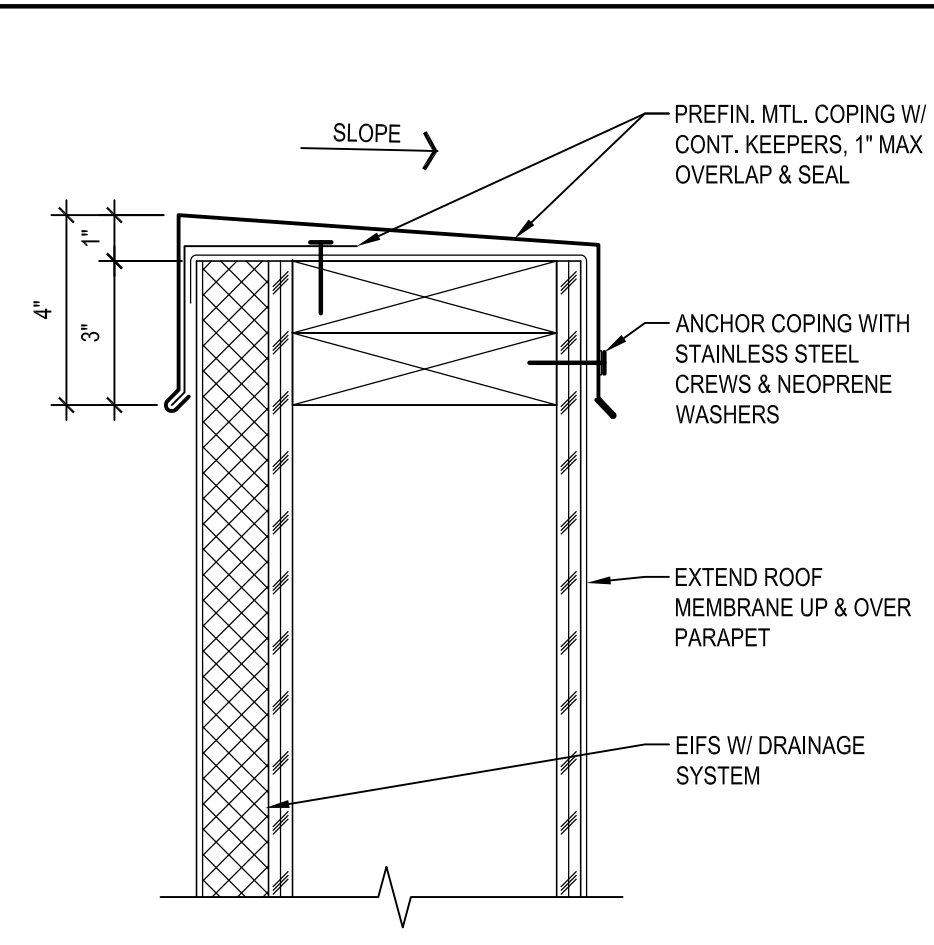
7 WINDOW HEAD DETAIL
A4.3 SCALE: 3\"/>



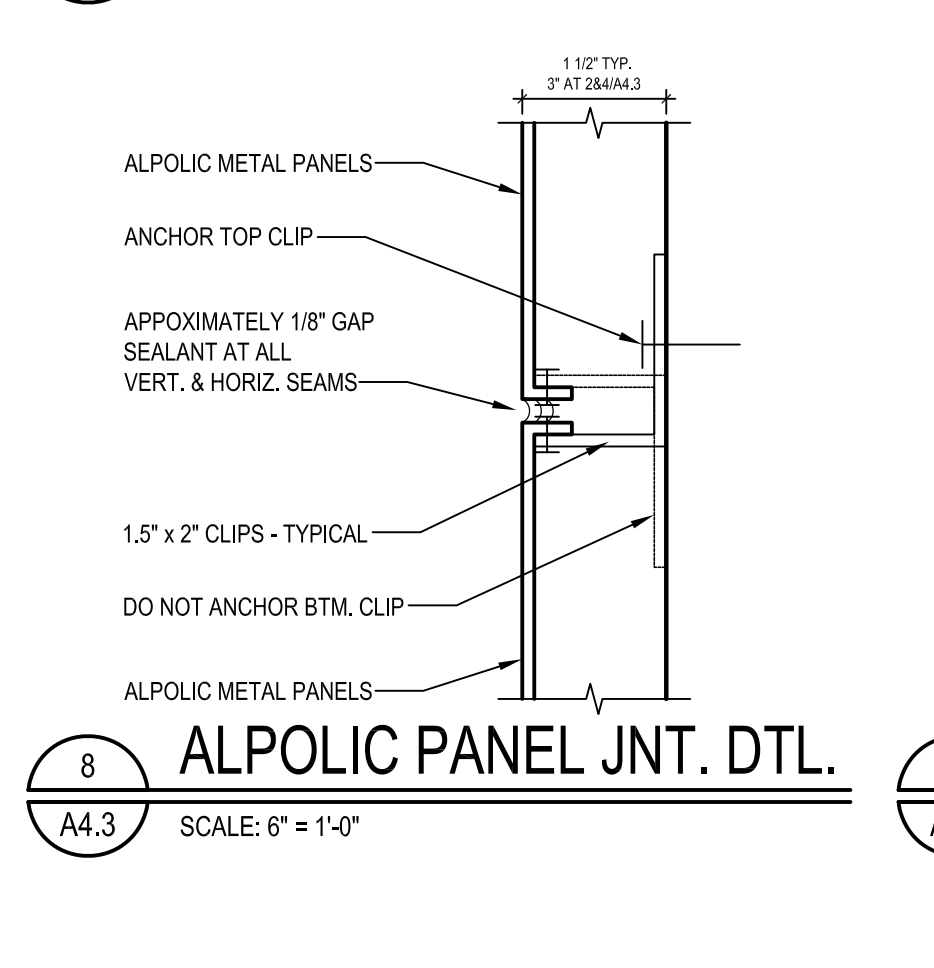
13 H.M. DOOR HEAD DTL.
A4.3 SCALE: 1 1/2" = 1'-0"



19 WINDOW DETAILS
A4.3 SCALE: 1 1/2" = 1'-0"



5 CAP FLASHING DETAIL
A4.3 SCALE: 3\"/>



8 ALPOLC PANEL JNT. DTL.
A4.3 SCALE: 6\"/>



9 EIFS REVEAL DETAIL
A4.3 SCALE: 6\"/>

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REVISION DATE:	
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WALL SECTIONS & DETAILS

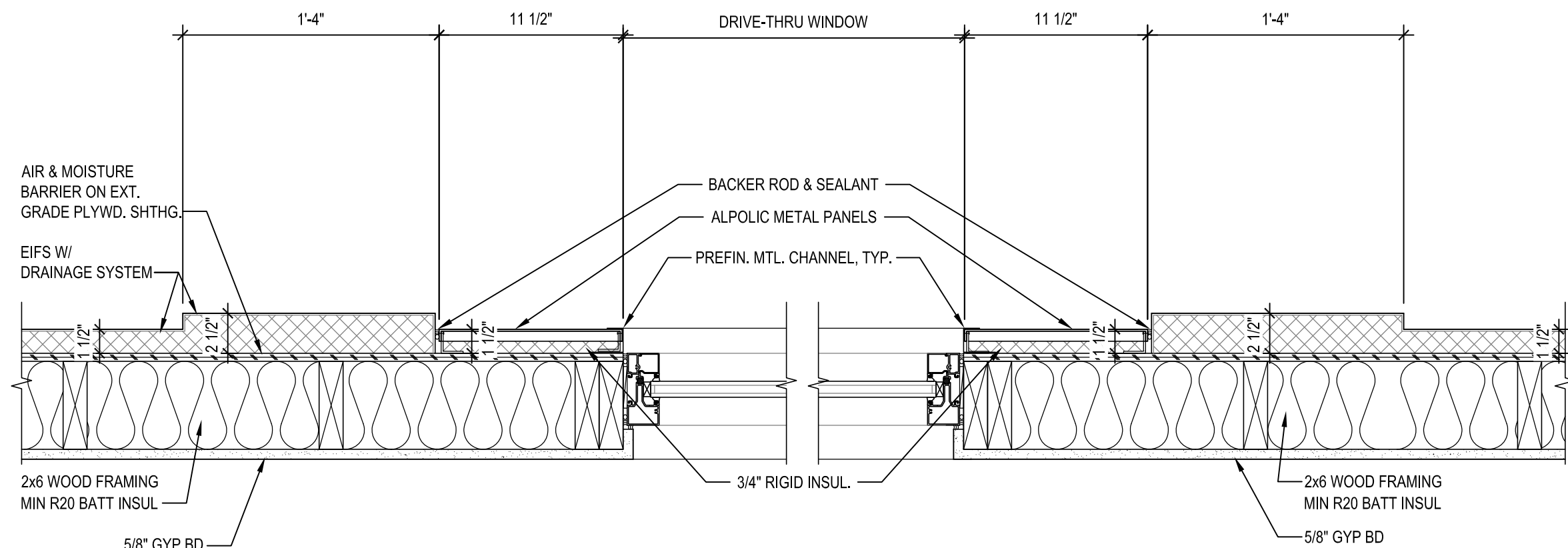
SHEET NUMBER:

A4.3



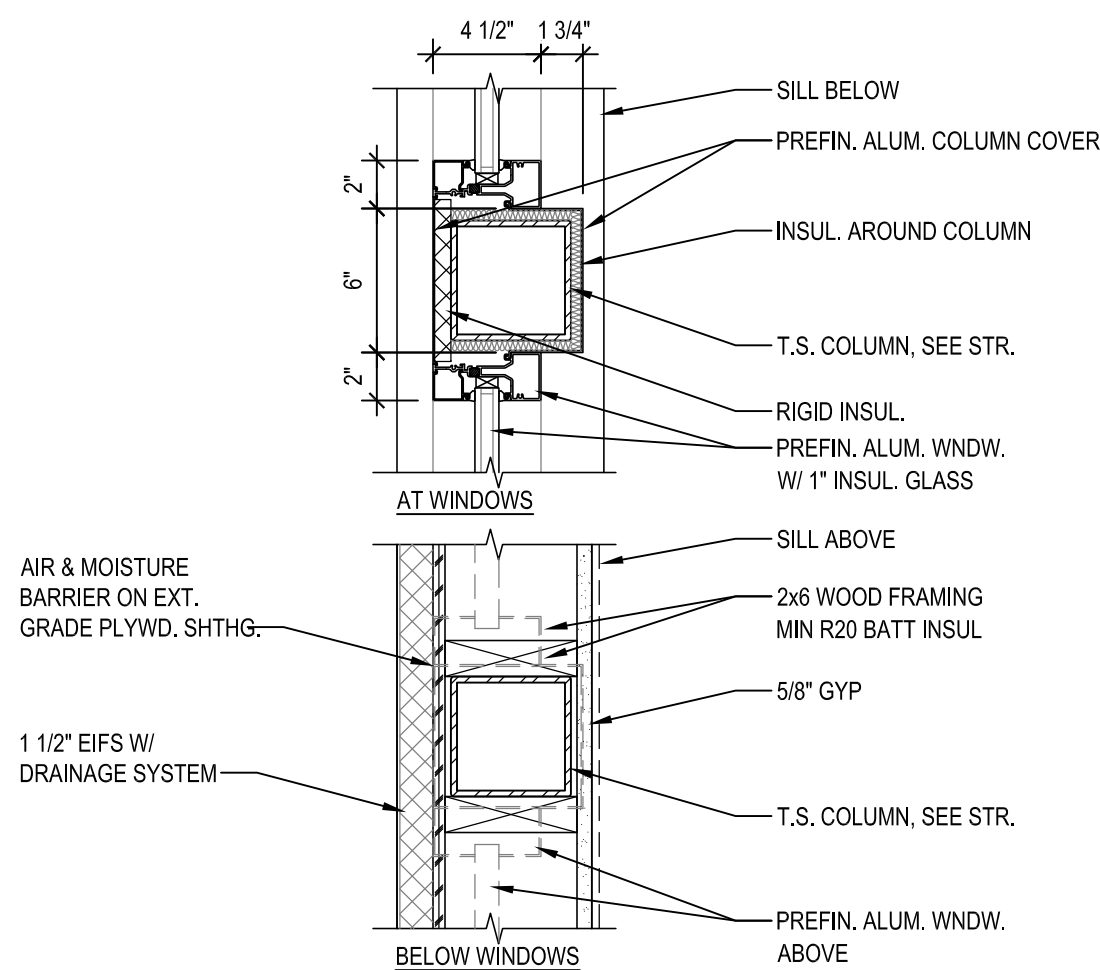
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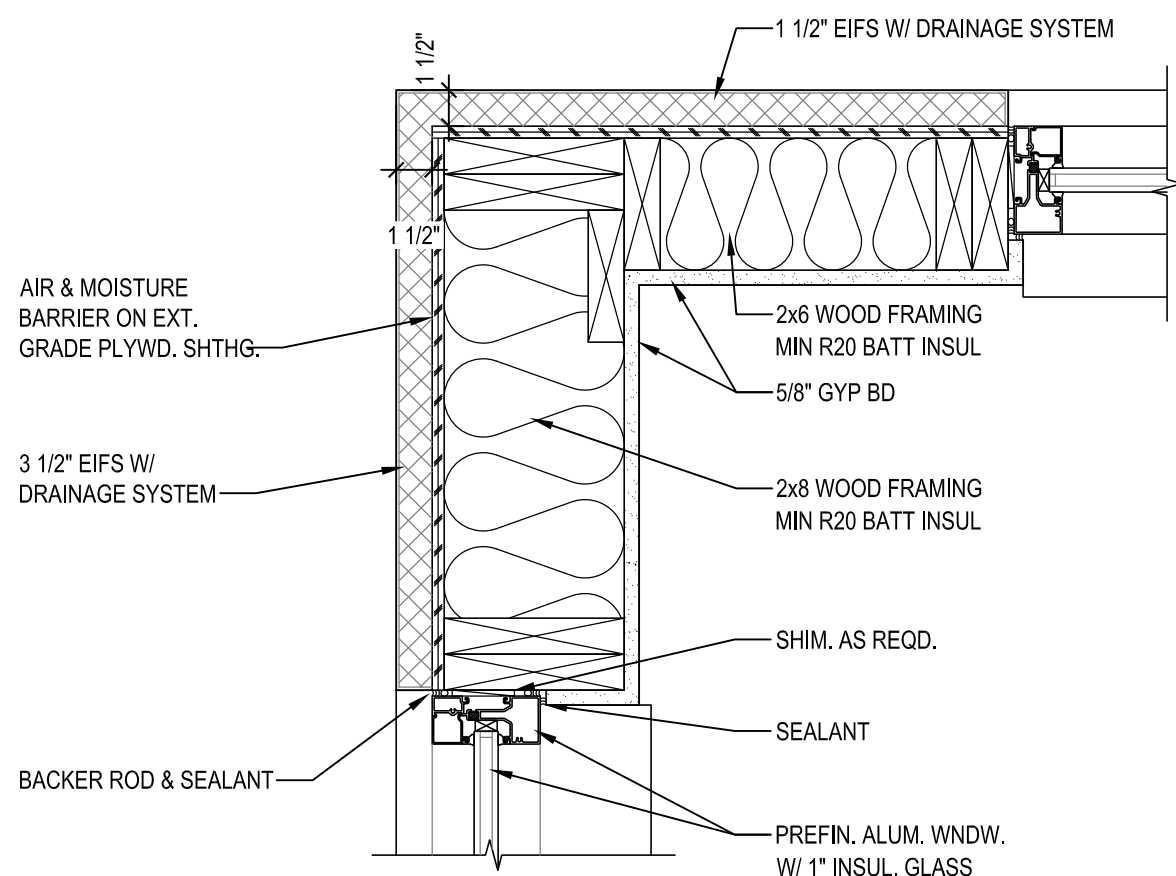


3
A4.4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

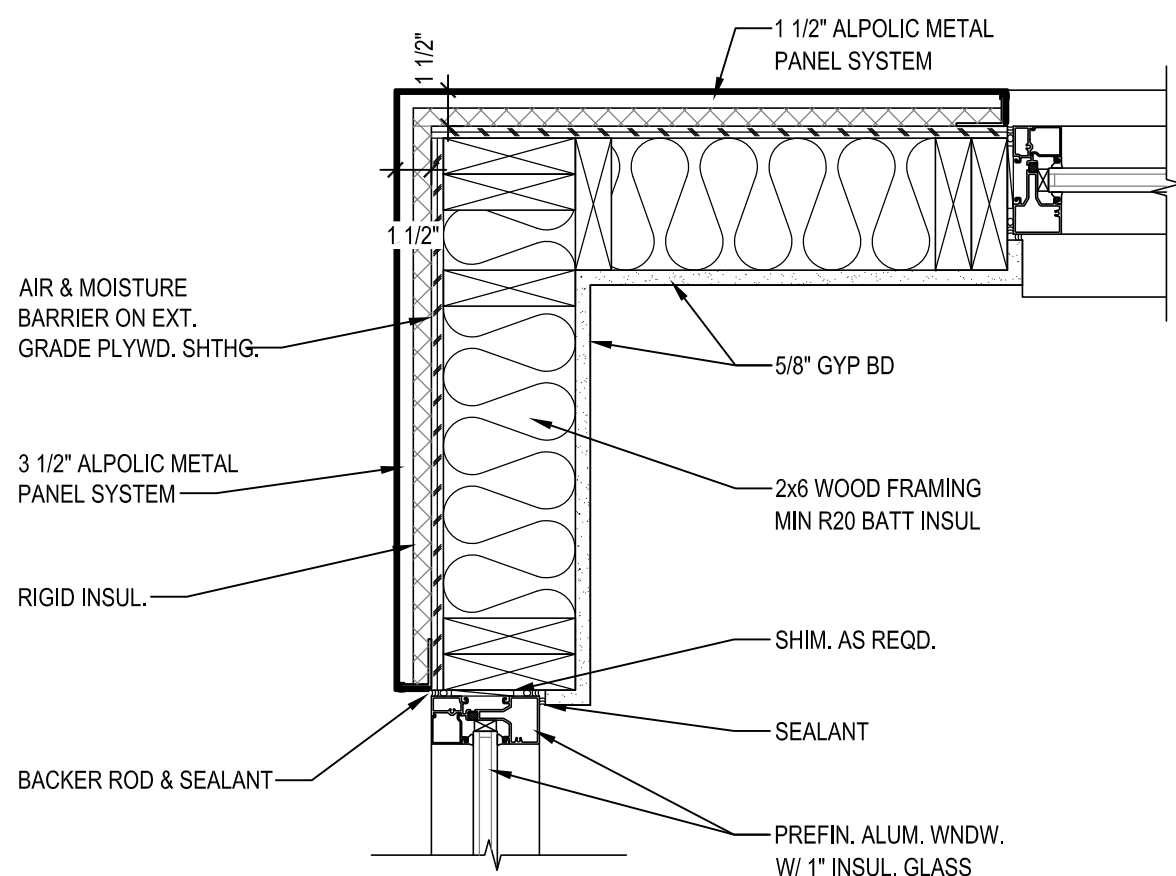
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A4.4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



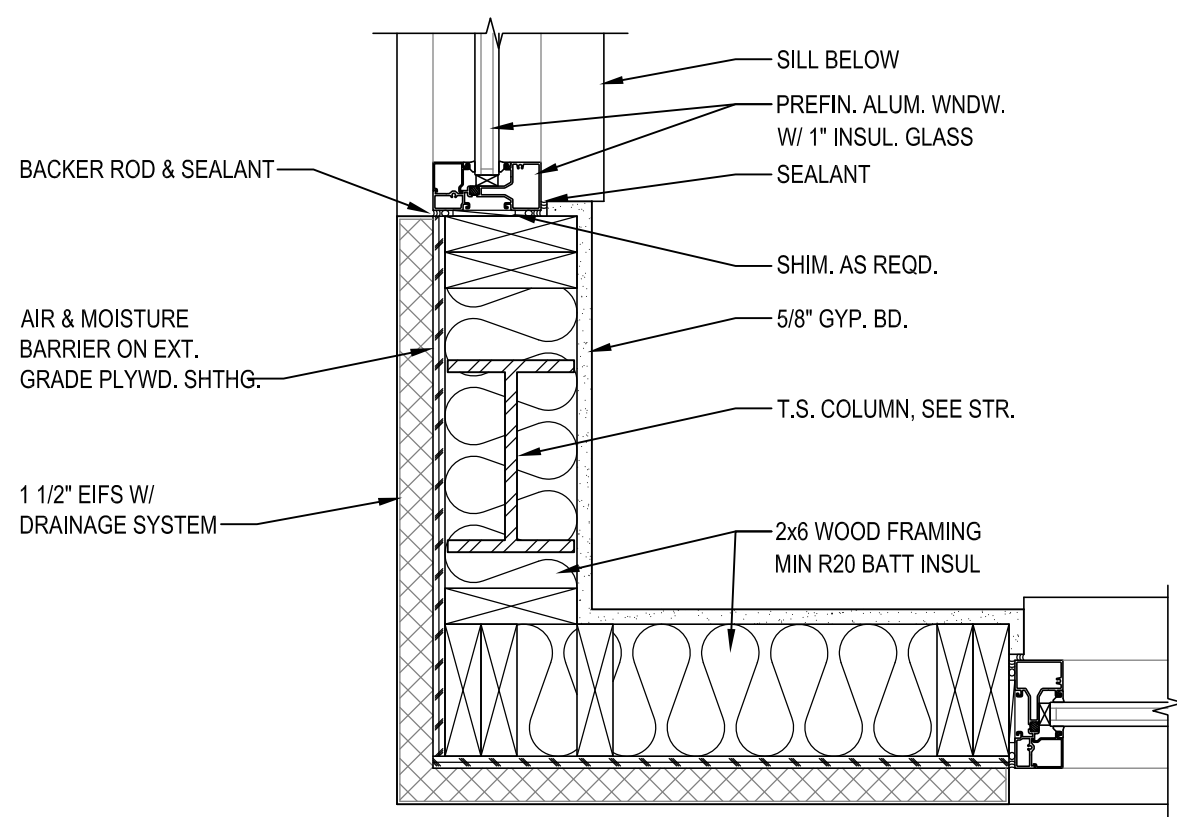
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A4.4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



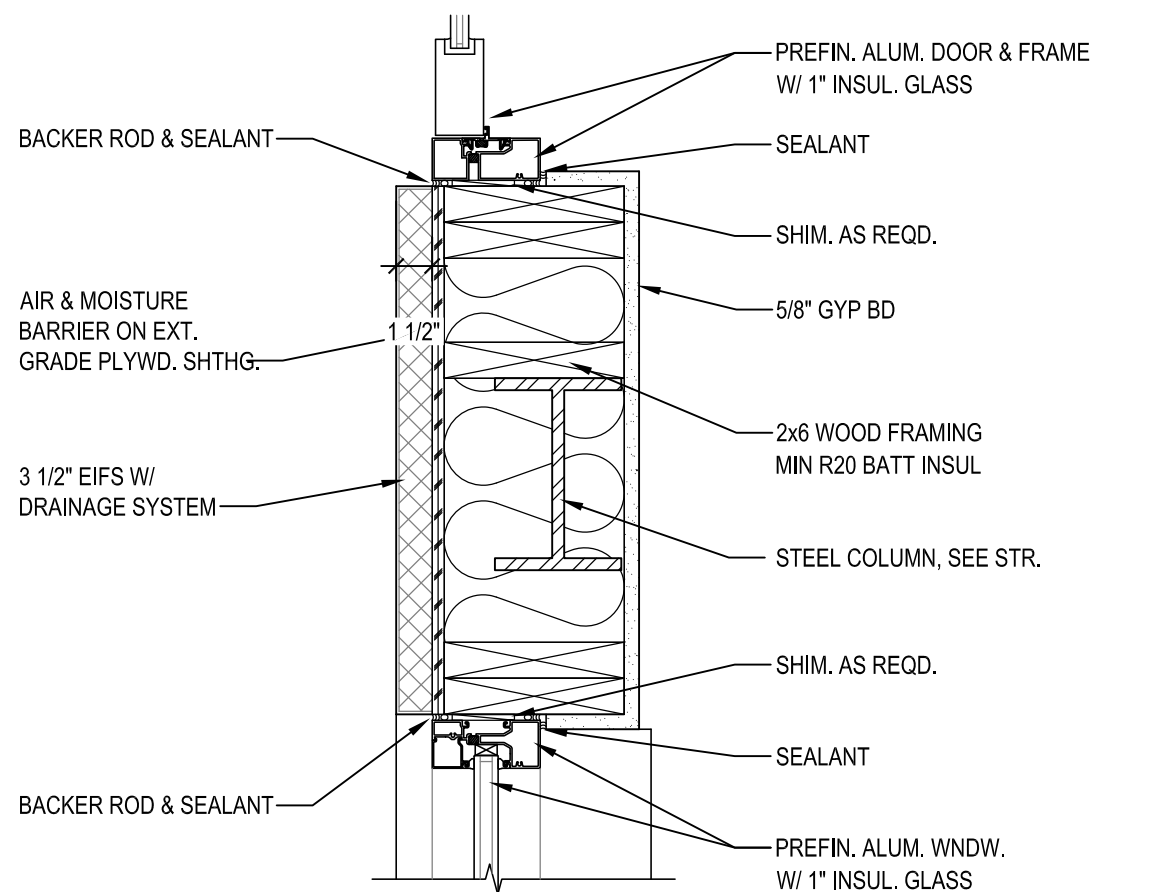
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A4.4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



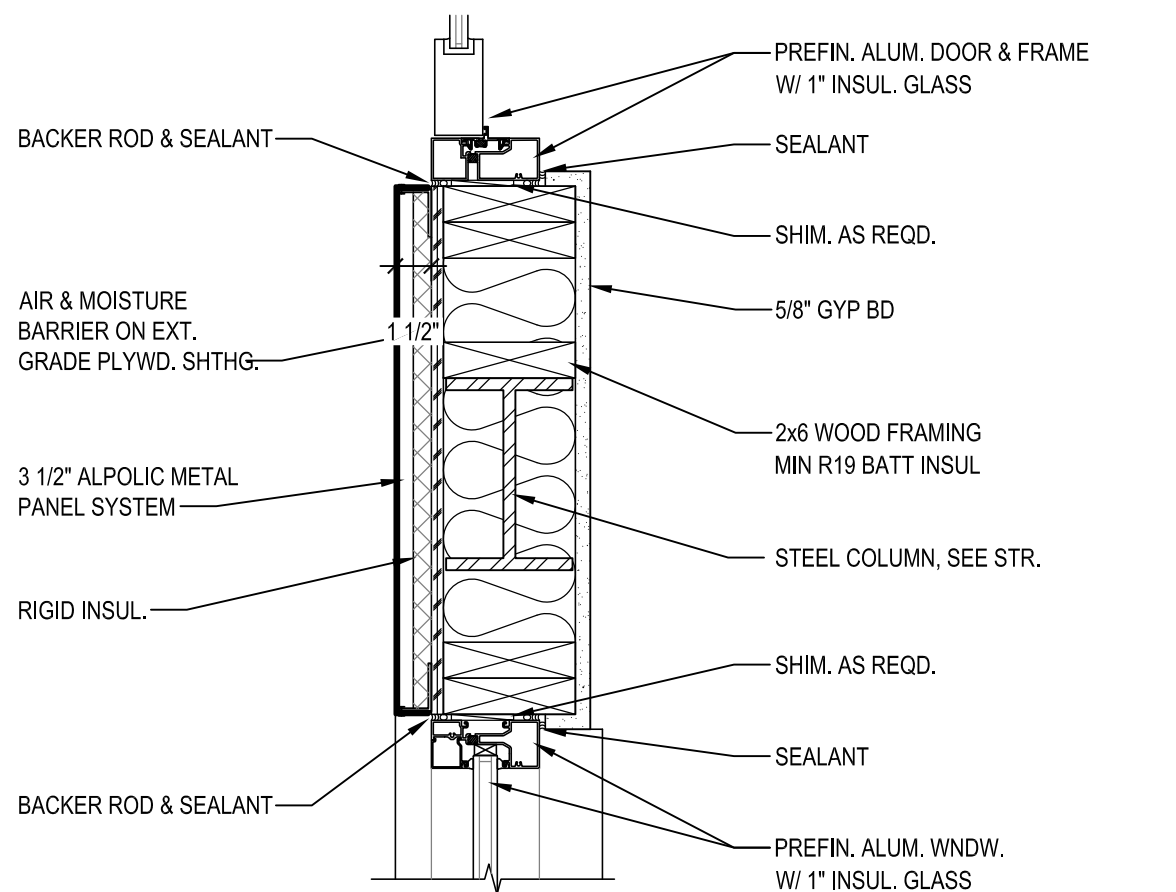
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A4.4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



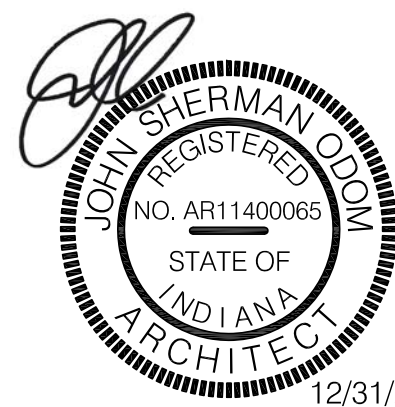
12
A4.4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



13
A4.4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



14
A4.4 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



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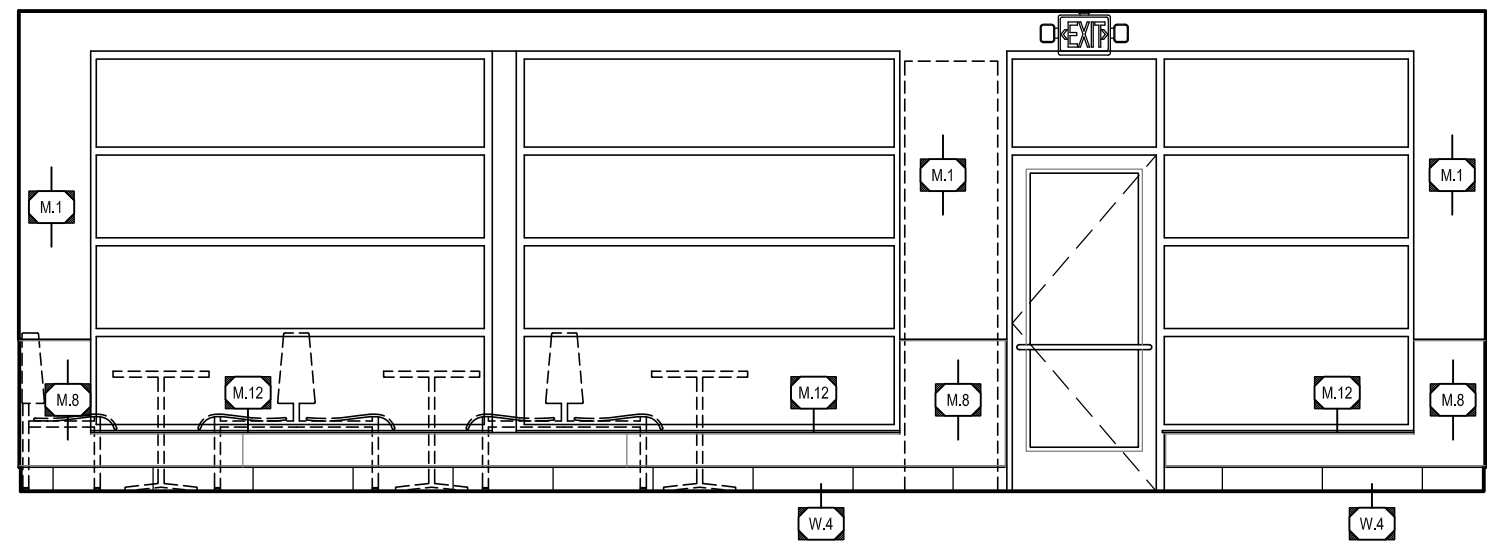
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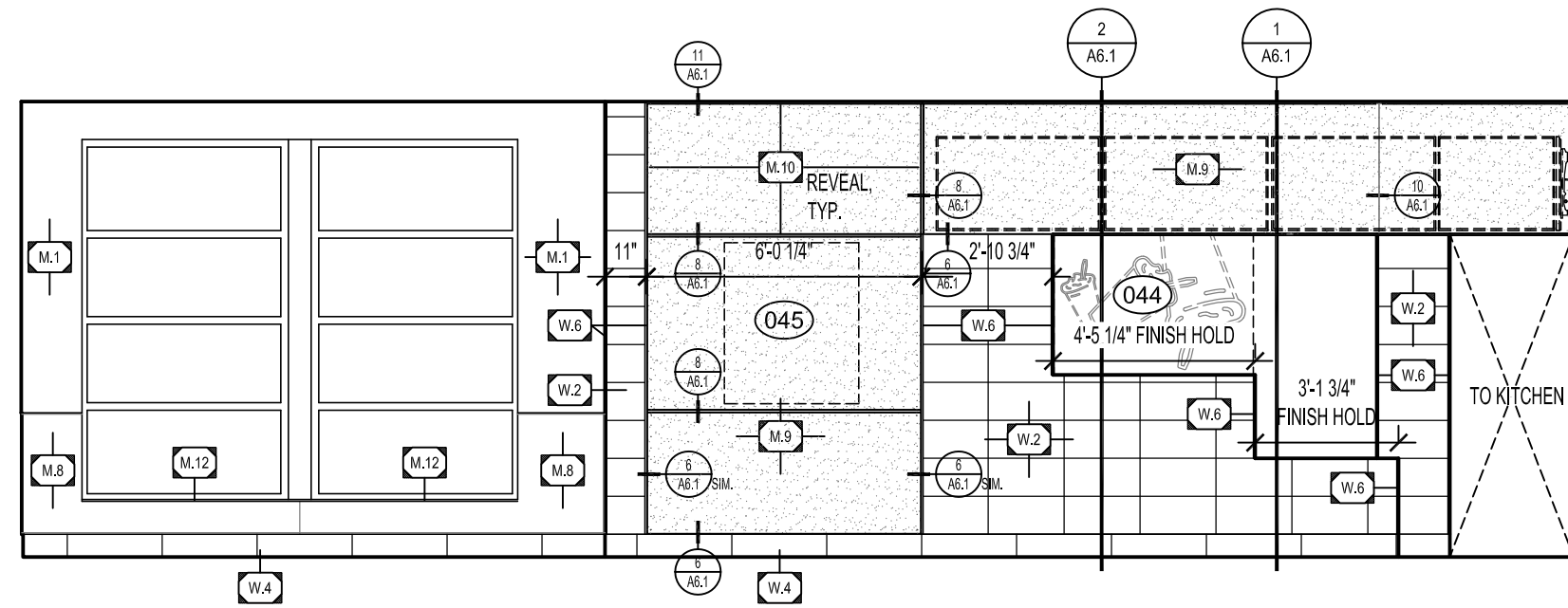
DETAILS

SHEET NUMBER:

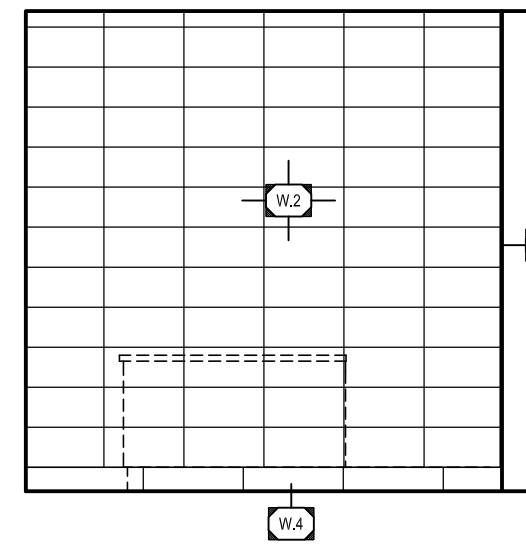
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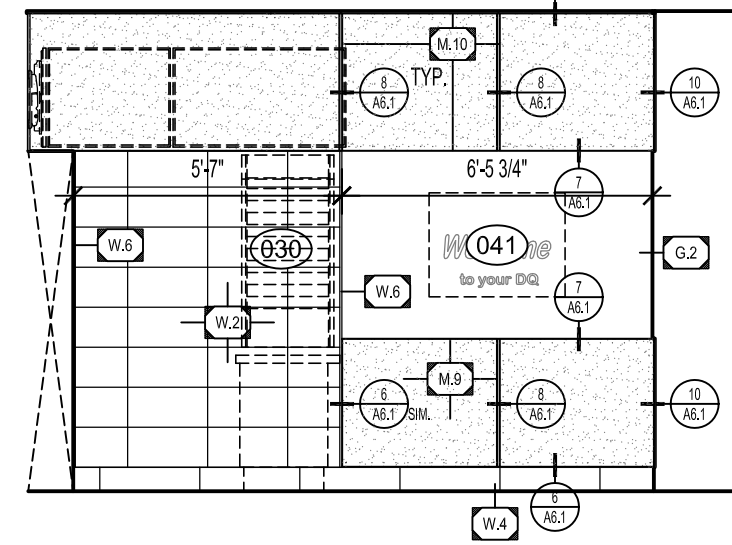
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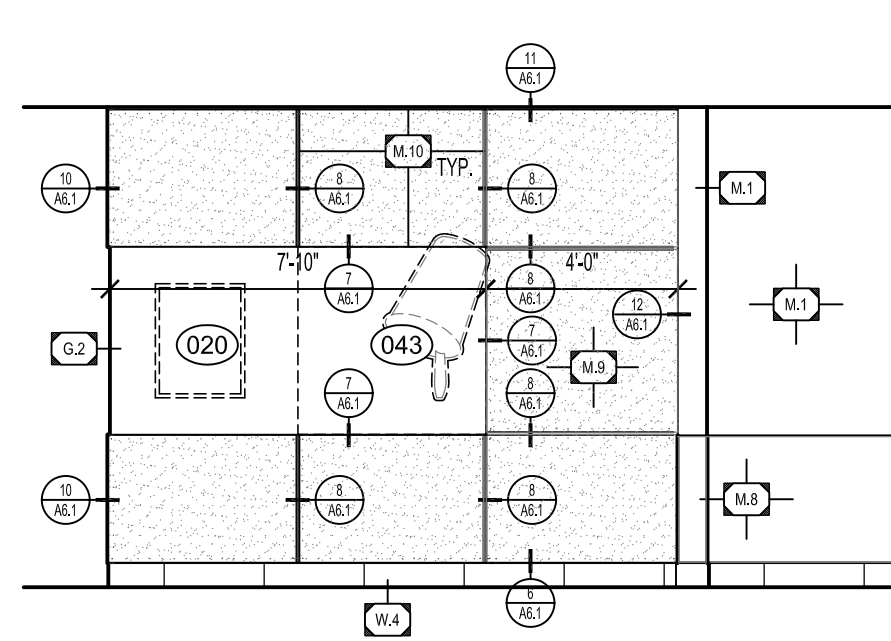
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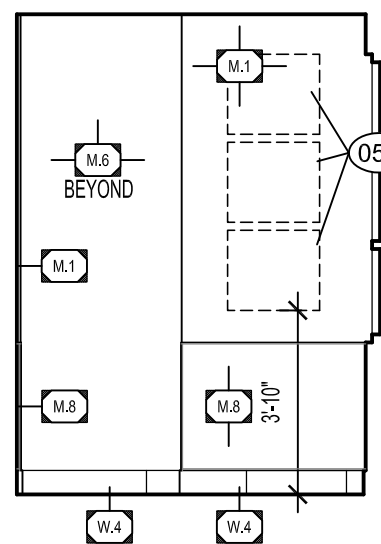
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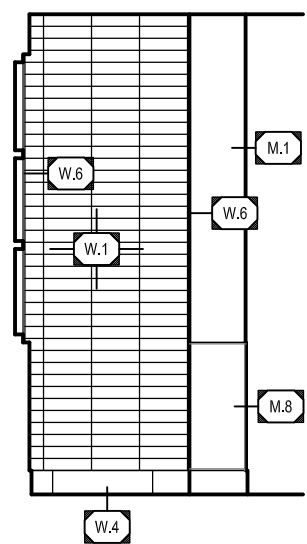
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A5.1 SCALE: 1/4" = 1'-0"



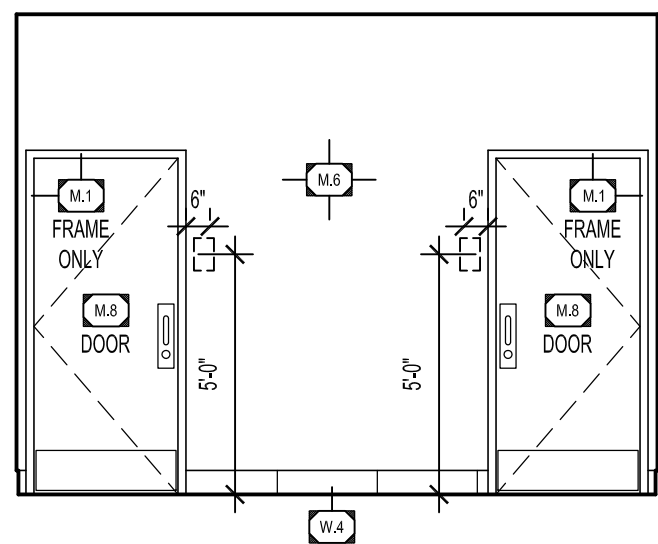
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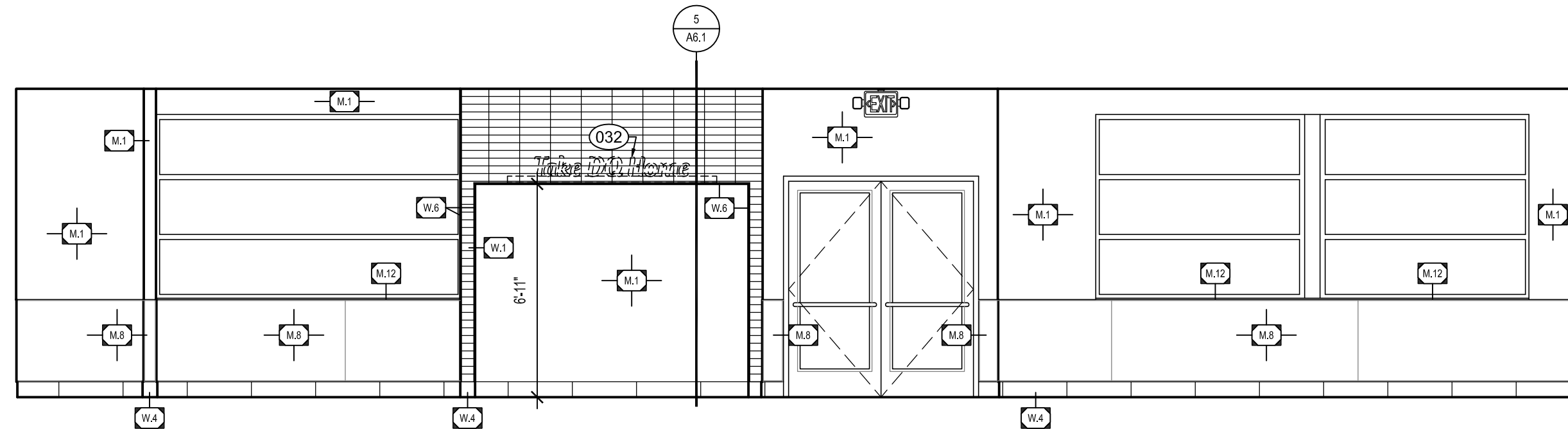
6 ELEVATION
A5.1 SCALE: 1/4" = 1'-0"



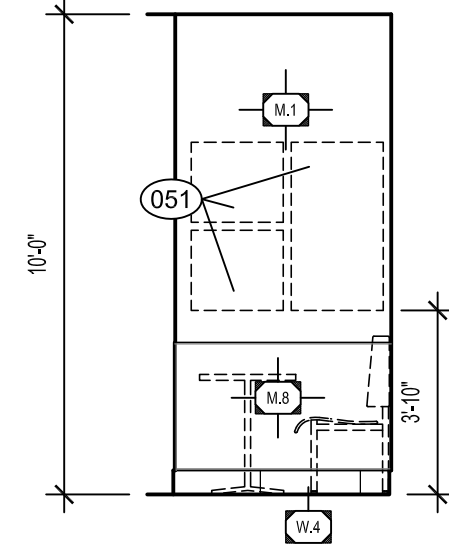
7 ELEVATION
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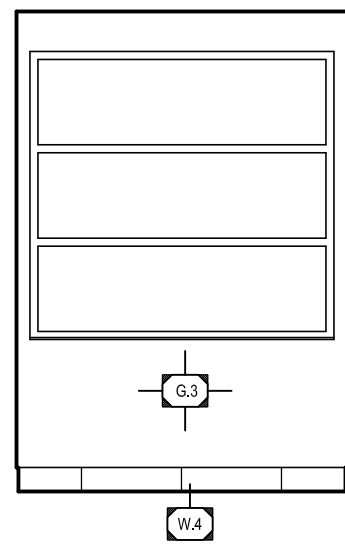
8 ELEVATION
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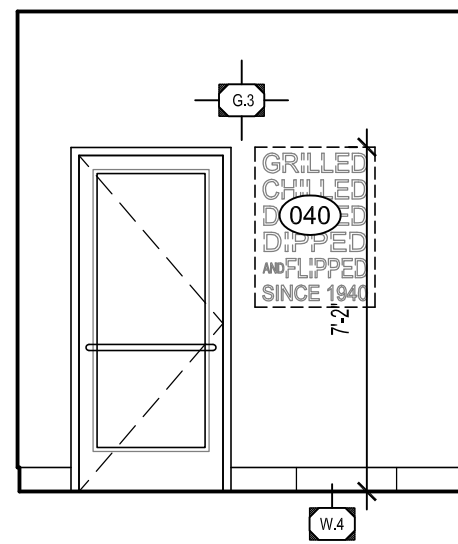
9 ELEVATION
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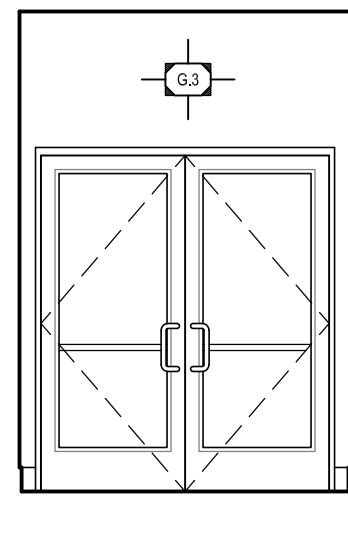
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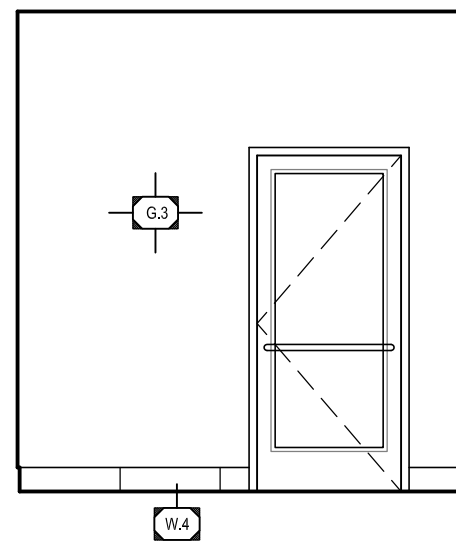
11 ELEVATION
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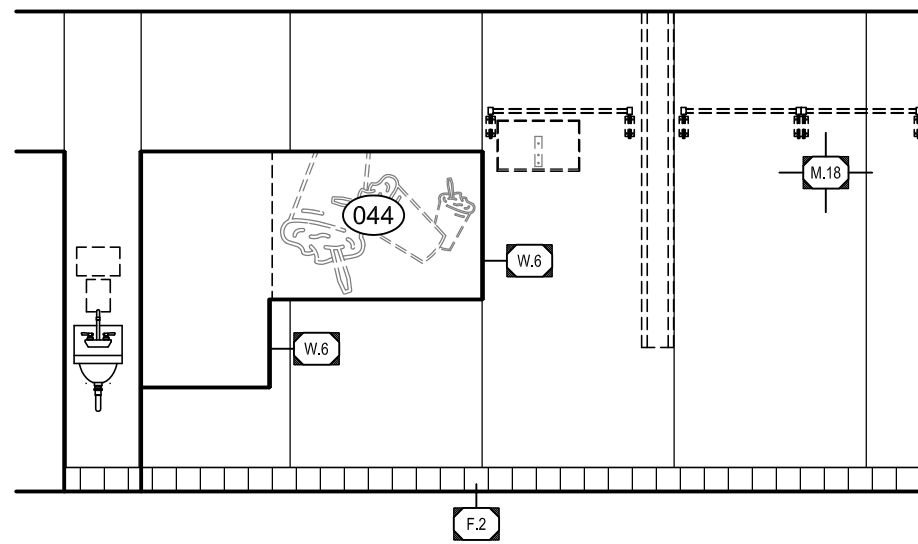
12 ELEVATION
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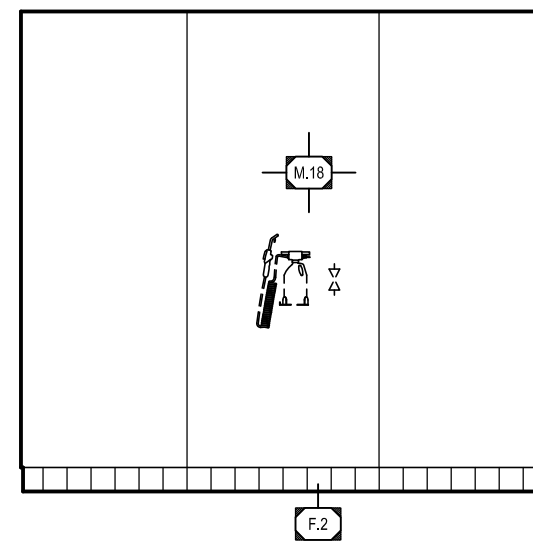
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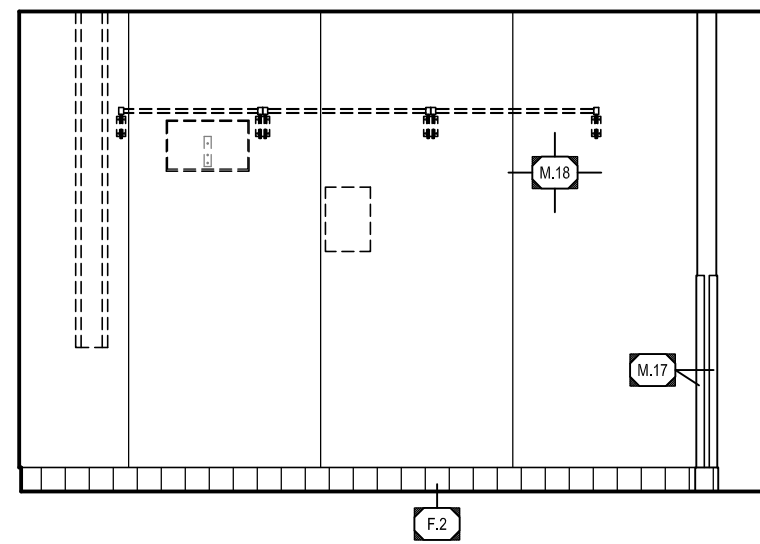
14 ELEVATION
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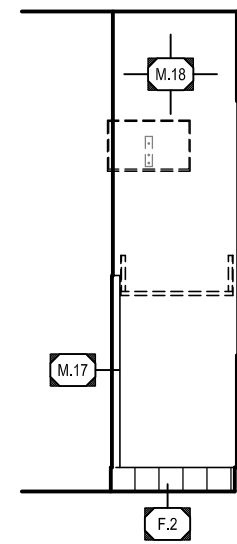
15 ELEV.
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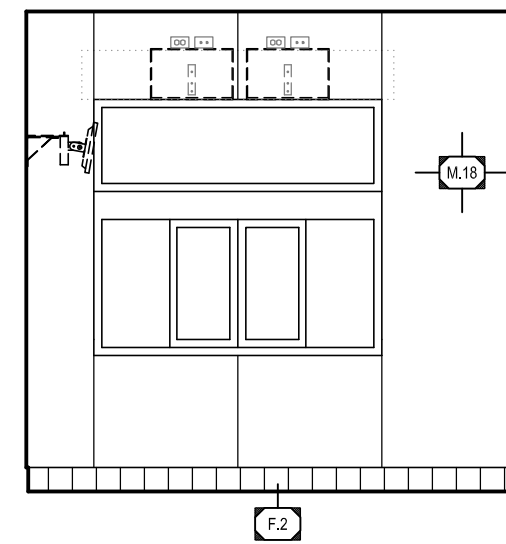
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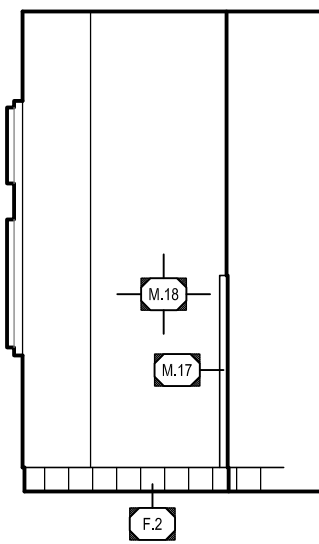
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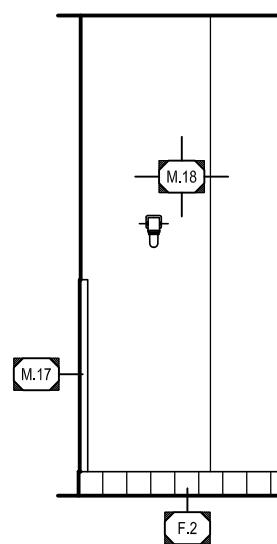
18 ELEVATION
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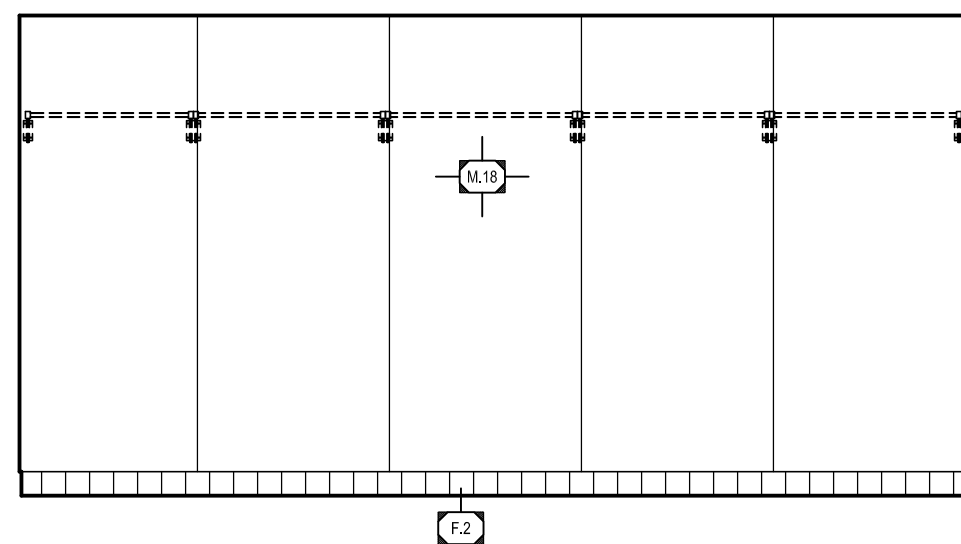
19 ELEVATION
A5.1 SCALE: 1/4" = 1'-0"



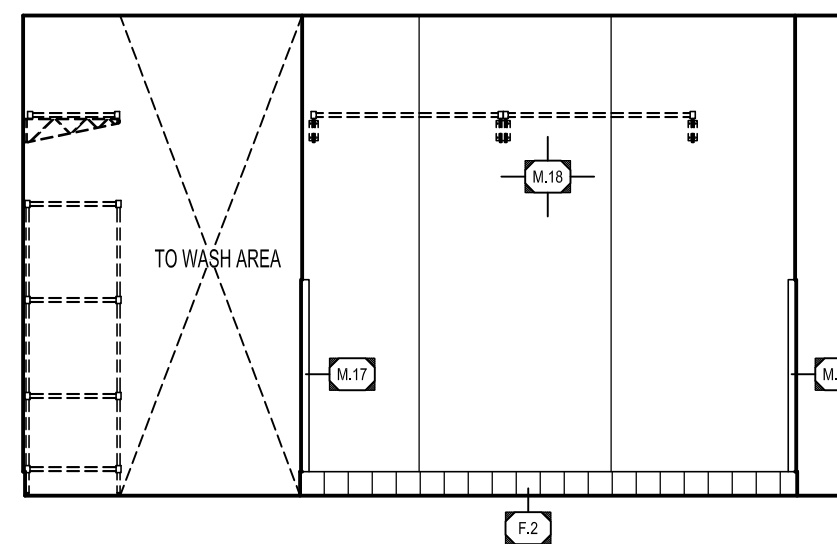
20 ELEVATION
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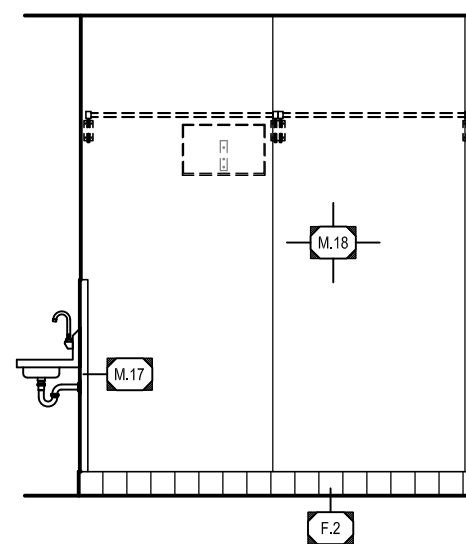
21 ELEVATION
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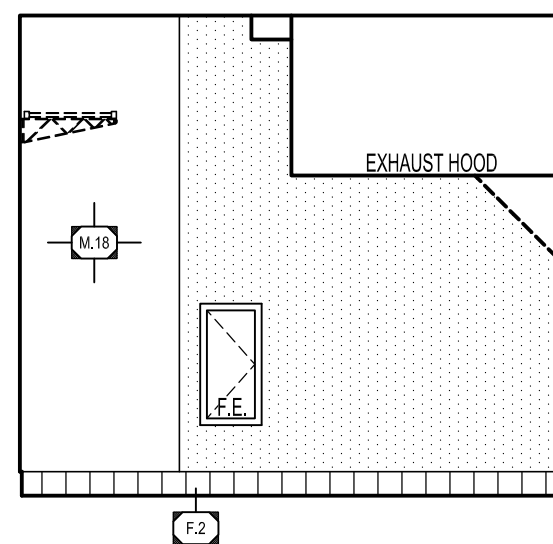
22 ELEVATION
A5.1 SCALE: 1/4" = 1'-0"



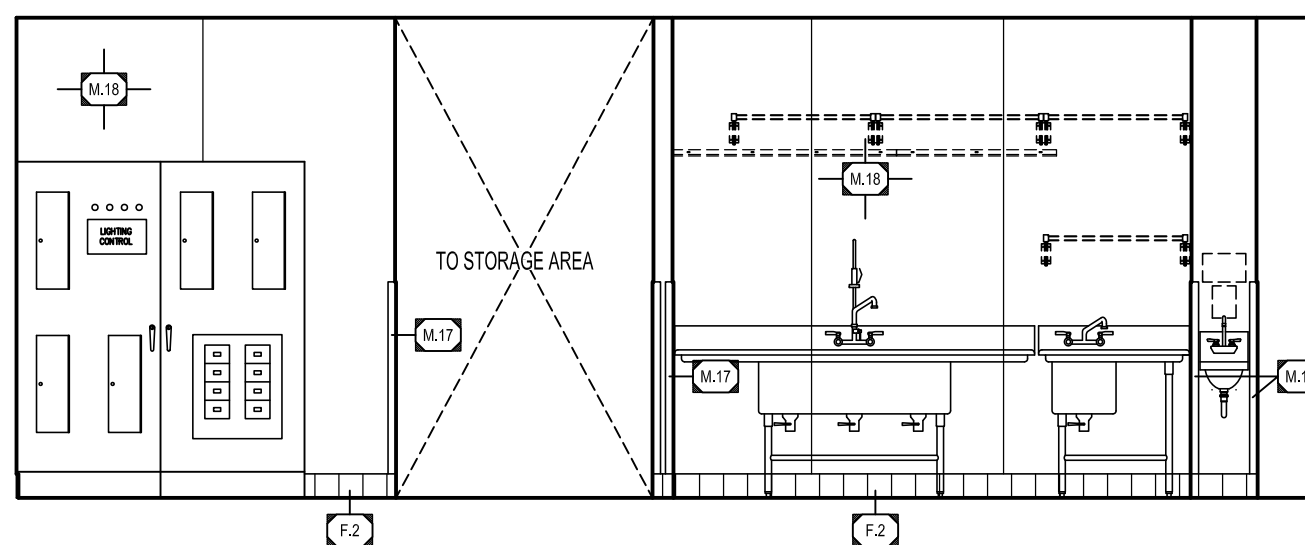
23 ELEVATION
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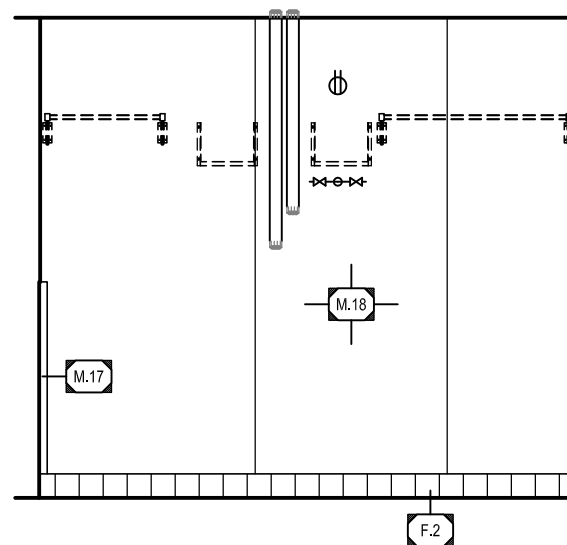
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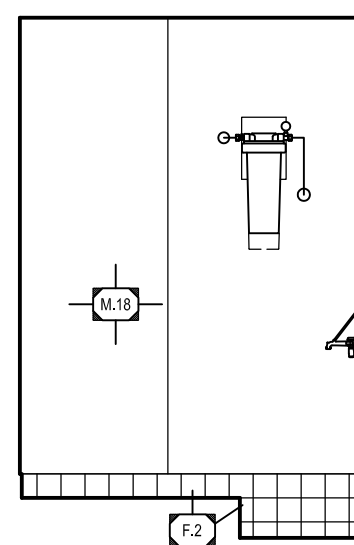
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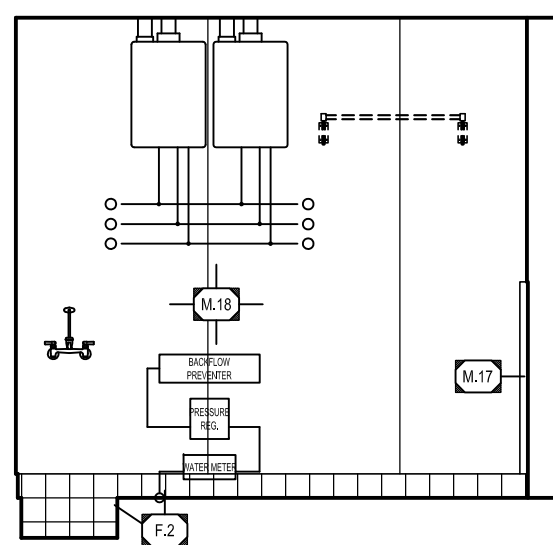
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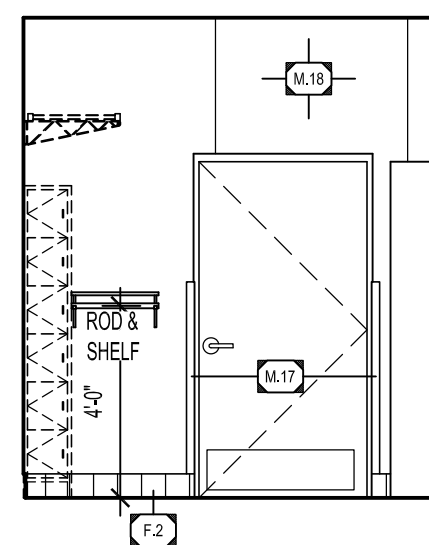
27 ELEVATION
A5.1 SCALE: 1/4" = 1'-0"



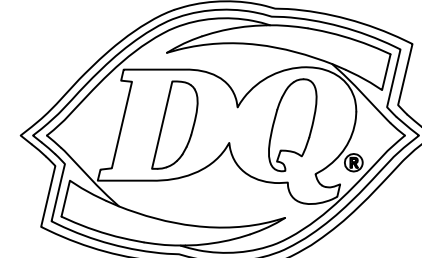
28 ELEVATION
A5.1 SCALE: 1/4" = 1'-0"



29 ELEVATION
A5.1 SCALE: 1/4" = 1'-0"



NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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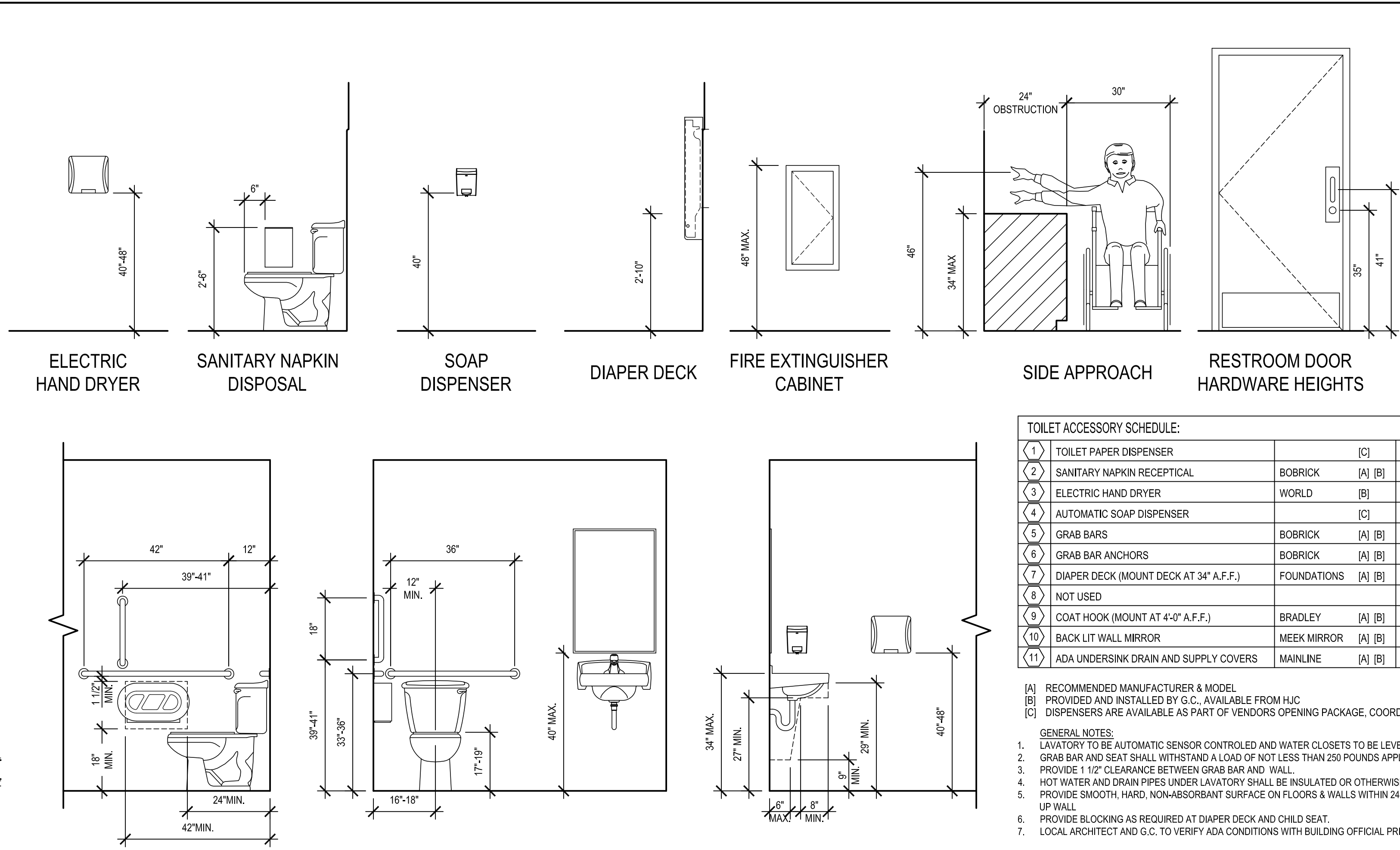
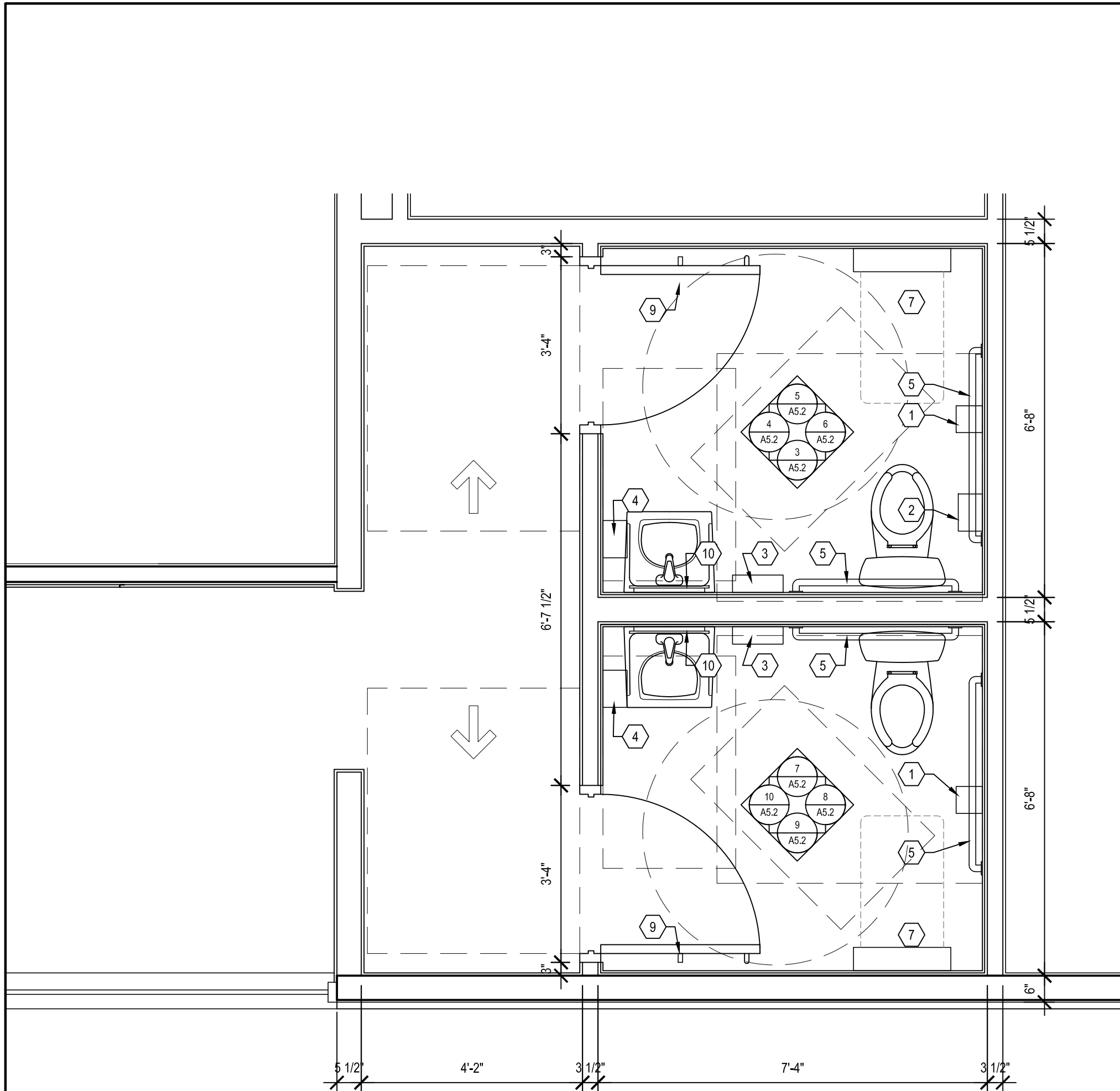
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INTERIOR
ELEVATIONS

SHEET NUMBER:

A5.1

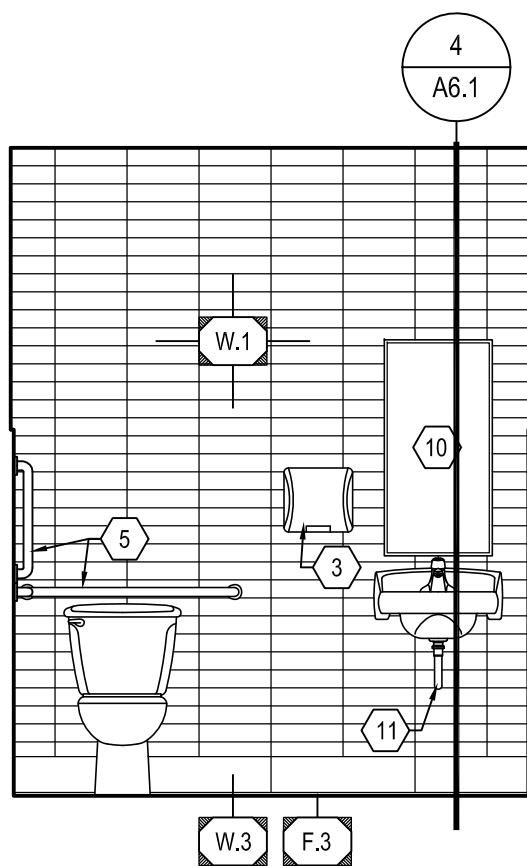


TOILET ACCESSORY SCHEDULE:			
1	TOILET PAPER DISPENSER	[C]	
2	SANITARY NAPKIN RECEPTAL	BOBRICK [A] [B]	B-270
3	ELECTRIC HAND DRYER	WORLD [B]	SLIMgh L-973
4	AUTOMATIC SOAP DISPENSER	[C]	
5	GRAB BARS	BOBRICK [A] [B]	B-6806
6	GRAB BAR ANCHORS	BOBRICK [A] [B]	252-30
7	DIAPER DECK (MOUNT DECK AT 34" A.F.F.)	FOUNDATIONS [A] [B]	100-EV, LIGHT GRAY
8	NOT USED		
9	COAT HOOK (MOUNT AT 4'-0" A.F.F.)	BRADLEY [A] [B]	9134
10	BACK LIT WALL MIRROR	MECK MIRROR [A] [B]	SEE LIGHTING SCHEDULE
11	ADA UNDERSINK DRAIN AND SUPPLY COVERS	MAINLINE [A] [B]	ML102EZ

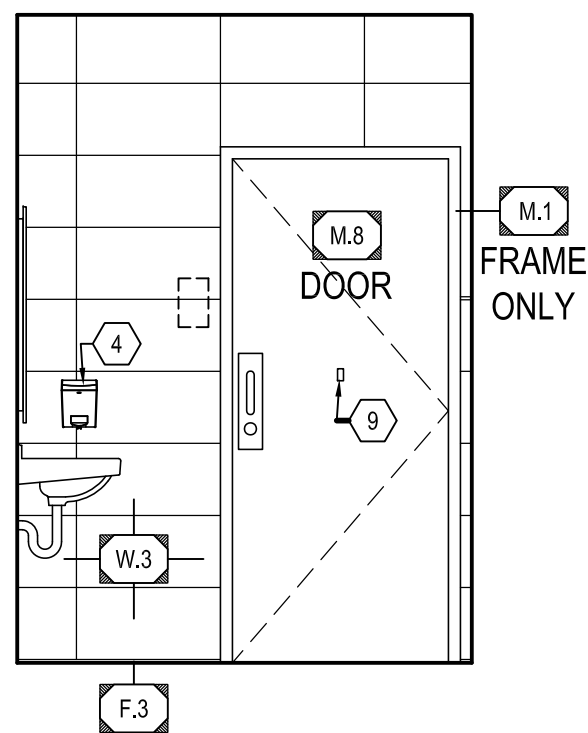
- [A] RECOMMENDED MANUFACTURER & MODEL
[B] PROVIDED AND INSTALLED BY G.C., AVAILABLE FROM HJC
[C] DISPENSERS ARE AVAILABLE AS PART OF VENDORS OPENING PACKAGE, COORDINATE WITH FRANCHISEE & VENDOR, INSTALLED BY G.C.
- GENERAL NOTES:
1. LAVATORY TO BE AUTOMATIC SENSOR CONTROLLED AND WATER CLOSETS TO BE LEVER TYPE CONTROL.
2. GRAB BAR AND SEAT SHALL WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY POINT. PROVIDE BLOCKING AS REQUIRED.
3. PROVIDE 1 1/2" CLEARANCE BETWEEN GRAB BAR AND WALL.
4. HOT WATER AND DRAIN PIPES UNDER LAVATORY SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
5. PROVIDE SMOOTH, HARD, NON-ABSORBANT SURFACE ON FLOORS & WALLS WITHIN 24" OF URINAL AND WATERCLOSET & EXTENDING MIN. 48" UP WALL.
6. PROVIDE BLOCKING AS REQUIRED AT DIAPER DECK AND CHILD SEAT.
7. LOCAL ARCHITECT AND G.C. TO VERIFY ADA CONDITIONS WITH BUILDING OFFICIAL PRIOR TO CONSTRUCTION.

1 RESTROOM FLOOR PLAN
A5.2 SCALE: 1/2" = 1'-0"

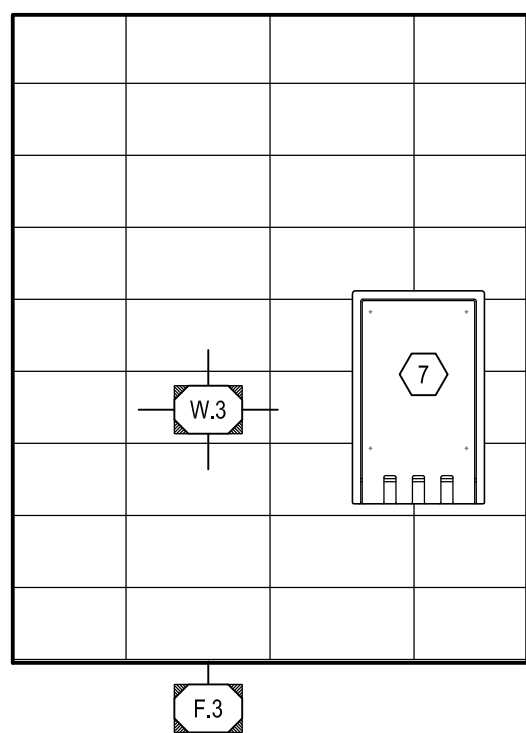
2 ACCESSIBLE MOUNTING HEIGHTS & CLEARANCES
A5.2 SCALE: 1/2" = 1'-0"



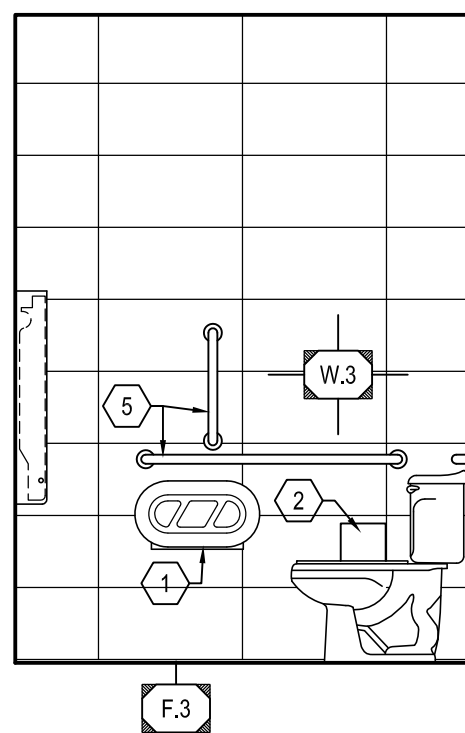
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A5.2 SCALE: 3/8" = 1'-0"



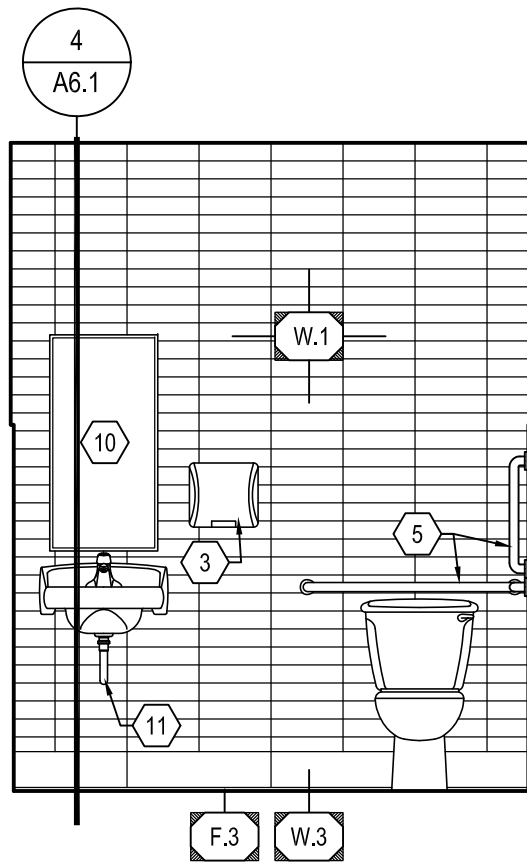
4 RESTROOM ELEVATION
A5.2 SCALE: 3/8" = 1'-0"



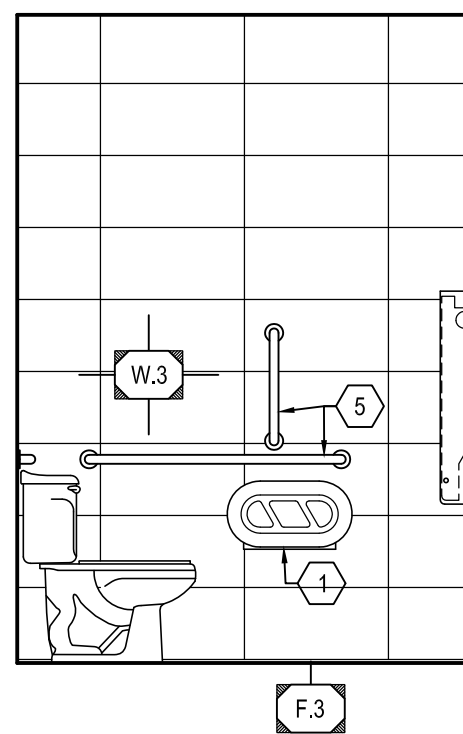
5 RESTROOM ELEVATION
A5.2 SCALE: 3/8" = 1'-0"



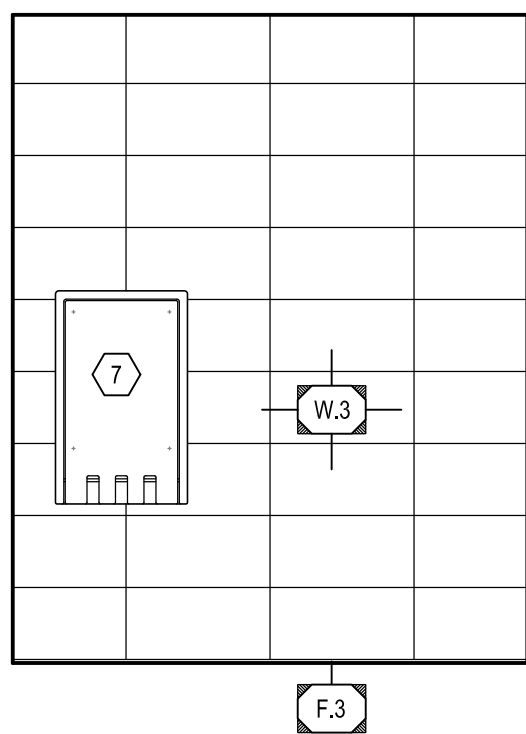
6 RESTROOM ELEVATION
A5.2 SCALE: 3/8" = 1'-0"



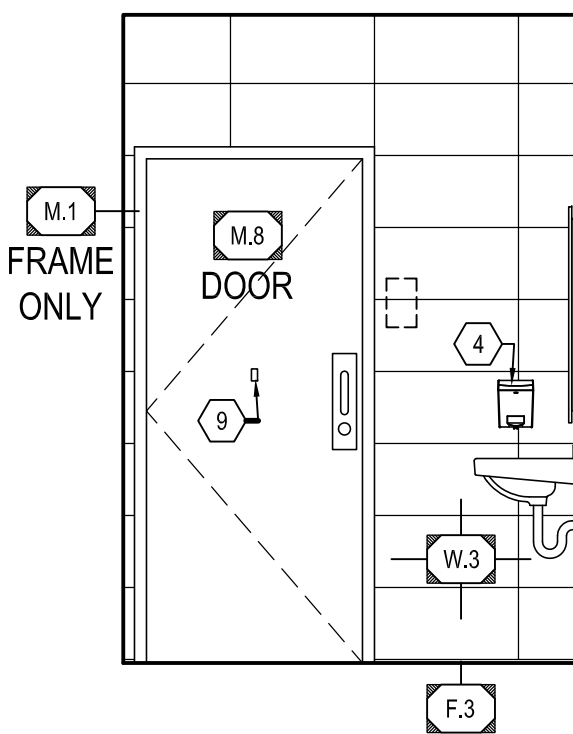
7 RESTROOM ELEVATION
A5.2 SCALE: 3/8" = 1'-0"



8 RESTROOM ELEVATION
A5.2 SCALE: 3/8" = 1'-0"



9 RESTROOM ELEVATION
A5.2 SCALE: 3/8" = 1'-0"



10 RESTROOM ELEVATION
A5.2 SCALE: 3/8" = 1'-0"

NEW BUILDING FOR:

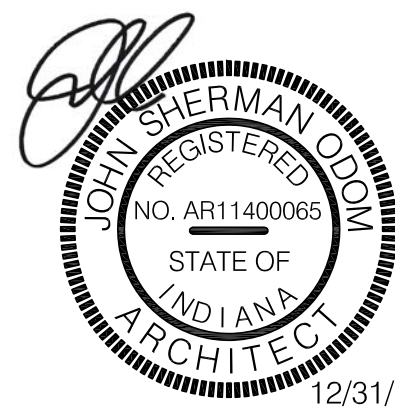


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REVISION DATE:

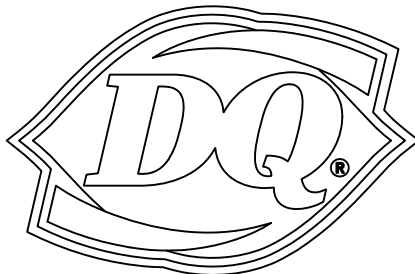
12/31/21 ORIGINAL ISSUE

RESTROOM PLAN & ELEVATIONS

SHEET NUMBER:

A5.2

NEW BUILDING FOR:

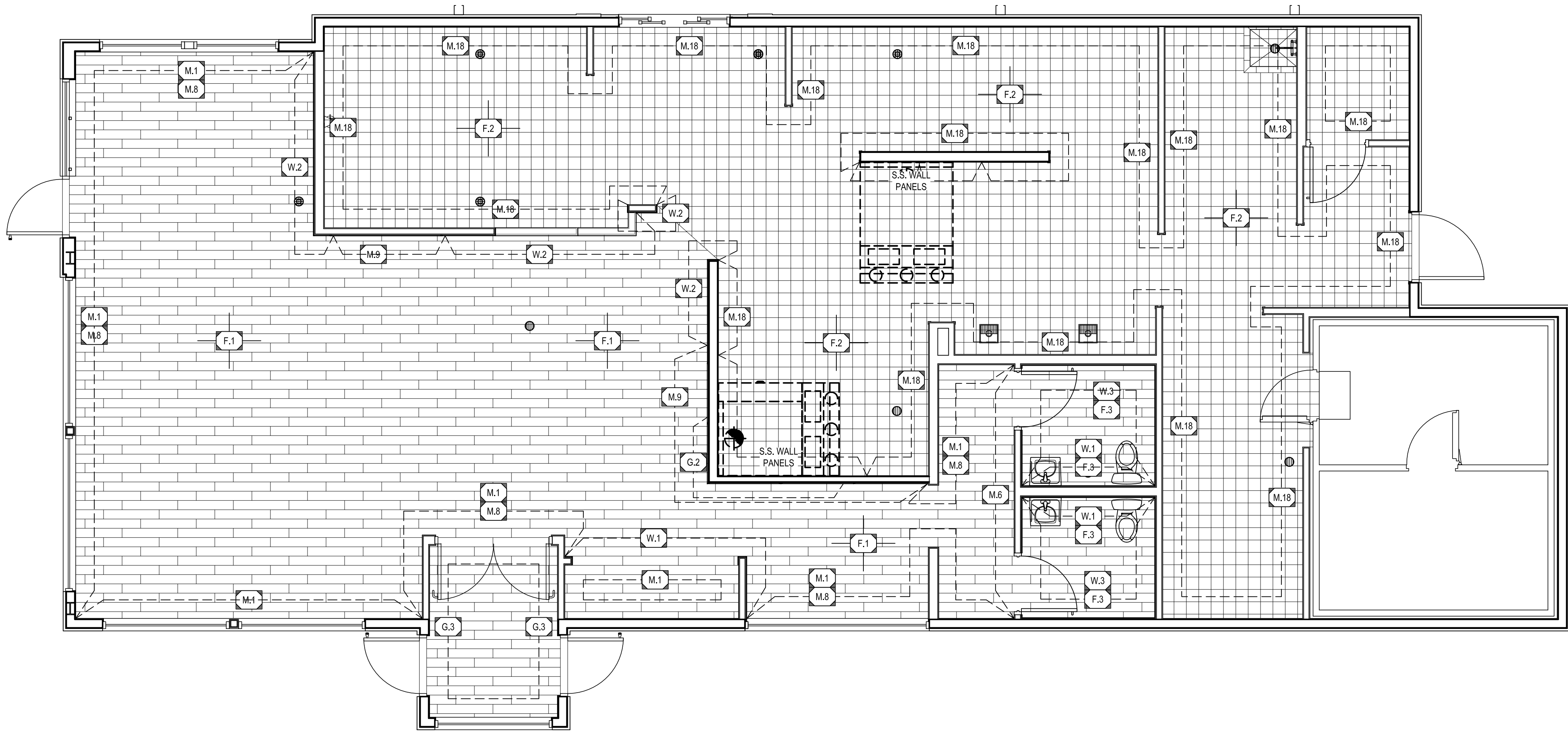


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1
A5.3 FINISH PLAN

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

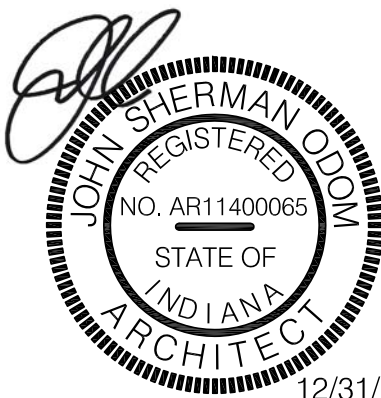
FINISH SCHEDULE: (GRILL & CHILL)

NOTE: THIS IS A PROTOTYPICAL SCHEDULE. ALL FINISHES MAY NOT BE USED.

F.1 DINING & RESTROOM FLOOR TILE: MFGR: MILESTONE SERIES: MOOD WOOD COLOR: HONEY SIZE: 6'x36" 1/3 OFFSET/STAGGERED PATTERN VENDOR: HJC GROUT: LATICRETE W/ SPECTRALOCK, 1/8" JOINT GROUT COLOR: DUSTY GREY #60	G.1 VESTIBULE GRAPHIC WALL COVERING: MFGR: JOLIET PATTERN SERIES: COMMERCIAL GRADE TYPE II-J COLOR: RED WITH GOLD ICON WAVE (VWP-RWG) SIZE: 50" WIDTH BOLT NOTE: USED ONLY IN CORE66 PROTOTYPE	M.1 PAINT: (LIGHT) MFGR: BENJAMIN MOORE COLOR: SILVER CHAIN #472 PRODUCT: ULTRA SPEC SCUFF-X INTERIOR LATEX MATTE 0484 PRIMER: ULTRA SPEC 500 INTERIOR LATEX PRIMER 534	M.12 COUNTER TOP AND SILL SOLID SURFACE: MFGR: CORIAN SOLID SURFACE SIZE: 1/2" THICK COLOR: CIRRUS WHITE (MATTE FINISH)
F.2 KITCHEN FLOOR TILE: MFGR: METROPOLITAN CERAMICS SERIES: QUARRY BASICS COLOR: PURITAN GRAY #607 SIZE: 8'x8" W/ MATCHING 6'x8" COVE BASE TRIMS AT MOP SINK: BULLNOSE & FLAT TOP COVE TRIMS VENDOR: HJC GROUT: LATICRETE SPECTRALOCK 2000 IG, 1/2" JOINT GROUT COLOR: DUSTY GREY #60	G.2 GOLD ICON WAVE: MFGR: JOLIET PATTERN SERIES: INSET AT LOBBY WALL PANELING COLOR: WELCOME WALLPAPER (WWPG) SIZE: 50" WIDTH BOLT x L.P. AS REQUIRED NOTES: INSTALL HORIZONTAL, DO NOT PATTERN MATCH	M.4 PAINT: MFGR: BENJAMIN MOORE COLOR: HOLLY BERRY 1321 PRODUCT: ULTRA SPEC SCUFF-X INTERIOR LATEX MATTE 0484 PRIMER: ULTRA SPEC 500 INTERIOR LATEX PRIMER 534	M.13 FRONT CABINET FACE LAMINATE: MFGR: WILSONART COLOR: MILWAUKEE JCT. RUST, Y0397K-22
F.3 RESTROOM FLOOR BASE COVED TRANSITION TRIM: MFGR: SCHLUTER SYSTEMS SERIES: DILEX-AHK MODEL: AHK 1S 125 AE MATL: SATIN ANODIZED ALUMINUM, 8-2 1/2" LENGTHS VENDOR: HJC NOTE: PROVIDE ASSOCIATED ACCESSORIES - INSIDE CORNER: 190/AHK IS/AE - OUTSIDE CORNER: E/AHK IS/AE - CONNECTOR: V/AHK	G.3 VESTIBULE GRAPHIC WALL COVERING: ALTERNATE "G.1" MFGR: JOLIET PATTERN SERIES: COMMERCIAL GRADE TYPE II-J COLOR: RED WITH RED ICONS (18WP-FR OR 27WP-FR) SIZE: 50" WIDTH BOLT x 18" OR 27" LENGTH, 27.72" REPEAT NOTE: PROVIDE PROTECTION AT OUTSIDE CORNERS WITH BRUSHED ALUMINUM GUARDS FULL HEIGHT.	M.5 RESTROOM CEILING AND SOFFIT: MFGR: BENJAMIN MOORE COLOR: AMERICAN WHITE #2112-70 PRODUCT: ULTRA SPEC SCUFF-X INTERIOR LATEX MATTE 0484 PRIMER: ULTRA SPEC 500 INTERIOR LATEX PRIMER 534	M.14 DRINK CABINET FACE LAMINATE: MFGR: FORMICA COLOR: CITADEL 1097-58
	G.4 GRAPHIC WALL COVERING: ALTERNATE "M.1" MFGR: JOLIET PATTERN SERIES: COMMERCIAL GRADE TYPE II-J COLOR: GREY WITH GREY ICONS (18WP-F OR 27WP-F) SIZE: 50" WIDTH BOLT x 18" OR 27" LENGTH, 27.72" REPEAT NOTE: PROVIDE PROTECTION AT OUTSIDE CORNERS WITH BRUSHED ALUMINUM GUARDS FULL HEIGHT.	M.6 ACCENT WALL: MFGR: BENJAMIN MOORE COLOR: BIG COUNTRY BLUE 2066-30 PRODUCT: ULTRA SPEC SCUFF-X INTERIOR LATEX MATTE 0484 PRIMER: ULTRA SPEC 500 INTERIOR LATEX PRIMER 534	M.16 TOILET PARTITION: MFGR: BRADLEY STYLE: FLOOR-TO-CEILING MATERIAL: POWDER COATED STEEL OR STAINLESS STEEL COLOR: WARM GREY 0412 OR BRUSHED STAINLESS STEEL VENDOR: HJC
		M.8 DOOR, MILLWORK & WAINSCOT LAMINATE: MFGR: FORMICA COLOR: PLATINUM 902-58 DINING WAINSCOT: HARDSTOP PANELS, CLEAR ANODIZED TRIMS, & COLOR SIL SEALANT VENDOR: HARDSTOP AVAILABLE THROUGH HJC	M.17 CORNER GUARD: MFGR: CONSTRUCTION SPECIALTIES SERIES: ACROVYN SURFACE MOUNTED MODEL: #SSM204F549 COLOR: WHITE #949 SIZE: 2'x2"x48"long
		M.9 LOBBY WALL PANELS: MFGR: MARLITE SERIES: SIEVA COLOR: ARBORITE INUKSHUK GREY P344RM SIZE: 48"x120"x71/16" PANELS VENDOR: HJC	M.18 FRP: MFGR: SEQUENTIA COLOR: WHITE FINISH: PEBBLED VENDOR: HJC NOTE: PROVIDE ALL MATCHING TRIM PIECES. INSTALL PER MANUFACTURERS REQUIREMENTS.
		M.10 LOBBY WALL PANEL TRIMS: MFGR: FRY REGLET SERIES: 1/2" MILLWORK TRIMS WITH RETURN KEYS FINISH: CLEAR SATIN ANODIZED ALUMINUM VENDOR: HJC NOTE: - CHANNEL, MWC5050 - OUTSIDE CORNER, MWCK50 - 1" ANGLE, MWCL5050	M.19 PREFINISHED METAL LIGHTCOVE: MFGR: FIRESTONE UNA-CLAD MATL: 24 GA. STEEL COLOR: BONE WHITE FINISH: KYNAR 500 NOTE: SEE REFLECTED CEILING PLAN
			M.20 OPTIONAL WINDOW SHADE: GENERAL CONTRACTOR TO PROVIDE & INSTALL -WINDOW HEAD FRAME MOUNTED -SNAP ON FASCIA, BRONZE #876 -FABRIC: SUMMIT U500, COLOR: FOG/WHITE C7805 VENDOR: CE CONTRACT
			M.24 DINING CEILING TILE/GRID: MFGR: ARMSTRONG SERIES: CIRRUS, MEDIUM TEXTURE SIZE: 24"x24"x3/4" ANGLED TEGULAR COLOR: GREY STONE GRID: PRELUDE XL 15/16" EXPOSED TEE GRID COLOR: GREY STONE VENDOR: HJC NOTE: PAINT CEILING DIFFUSERS: BENJAMIN MOORE WILLOW CREEK #1468
			M.25 DINING CEILING PERIMETER SOFFIT: MFGR: ARMSTRONG SERIES: ULTIMA, FINE TEXTURE STYLE: FLOOR-TO-CEILING MATERIAL: POWDER COATED STEEL OR STAINLESS STEEL COLOR: WARM GREY 0412 OR BRUSHED STAINLESS STEEL GRID COLOR: WHITE VENDOR: HJC
			M.28 KITCHEN CEILING TILE/GRID: MFGR: ARMSTRONG SERIES: VINYLLOAD SIZE: 24"x48"x1/2" SQUARE EDGE COLOR: WHITE GRID: PRELUDE 15/16" EXPOSED TEE GRID COLOR: WHITE VENDOR: HJC
			W.1 CAKE ENCLOSURE WALL TILE: MFGR: IMOLA SERIES: SLASH COLOR: WHITE, SLSH 73W ACCENT: WHITE SLSH1 73W - 33% RANDOM INSTALL SIZE: 3'x12" STACKED/GRID PATTERN GROUT: LATICRETE PERMACOLOR, 1/8" JOINT GROUT COLOR: SMOKE GREY #89 VENDOR: HJC
			W.2 KITCHEN WALL TILE: MFGR: KATE-LO TILE & STONE SERIES: CD MODULAR COLOR: ARCTIC WHITE (KB,CD,ARW,1020,BR) SIZE: 10"x20" STACKED PATTERN GROUT: LATICRETE PERMACOLOR, 1/8" JOINT GROUT COLOR: SMOKE GREY #89 VENDOR: HJC
			W.3 RESTROOM WALL TILE: MFGR: PANARIA SERIES: CONNECT COLOR: SOSPINI, NATURAL SIZE: 12"x24" STACKED PATTERN GROUT: LATICRETE PERMACOLOR, 1/4" JOINT GROUT COLOR: SMOKE GREY #89 VENDOR: HJC
			W.4 DINING WALL BASE TILE: MFGR: OLYMPIA TILE, INC. SERIES: SANDS EXPERIENCE COLOR: MATTE GREY SIZE: 6"x24" (CUT FROM 12x24) GROUT: LATICRETE PERMACOLOR, 1/4" JOINT GROUT COLOR: DUSTY GREY #60 VENDOR: HJC
			W.6 TILE ACCESSORIES: MFGR: SCHLUTER SYSTEMS STYLE: QUADCC COLOR: SATIN ANODIZED ALUM. (AE) SIZE: AS REQUIRED BY LOCATION & TILE THICKNESS VENDOR: HJC NOTE: PROVIDE ASSOCIATED ACCESSORIES -END CAP, OUTSIDE/INSIDE CORNER - EV/ -CONNECTOR - V/RO

FINISH NOTES:

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION MANUAL, THE MECHANICAL AND ELECTRICAL DRAWINGS ALONG WITH THEIR SPECIFICATIONS.
- FIELD VERIFICATION IS REQUIRED FOR QUANTITIES OF ALL MATERIALS PRIOR TO ORDERING AND INSTALLING. THIS INCLUDES FLOOR & WALL TILES, VINYL WOOD FLOORING AND PAINT (DO NOT SCALE DRAWINGS).
- CONTRACTOR TO PHYSICALLY RECHECK ALL MEASUREMENTS PROVIDED IN THE DRAWINGS.
- UPON AWARD OF CONTRACT CONTRACTOR TO ORDER FINISH MATERIALS & CONFIRM DELIVERY DATE OF ORDER.
- ALL MATERIALS LISTED TO BE AS SPECIFIED OR AN APPROVED ALTERNATE. ANY PROPOSED ALTERNATES MUST BE SUBMITTED TO THE IDO ARCHCONST. DEPT. FOR REVIEW PRIOR TO ORDERING.
- ALL MATERIALS LISTED TO BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED.
- ENSURE SUB FLOOR IS PROPERLY PREPARED FOR INSTALLATION OF SPECIFIED FLOOR FINISH.
- ALL FLOORING MATERIAL TO HAVE MANUFACTURERS RECOMMENDED FINISH APPLIED AFTER INSTALLATION AND PROPER CARE AND MAINTENANCE INSTRUCTIONS TO BE ISSUED TO THE CLIENT.
- ALL FLOOR FINISHES TO BE INSTALLED AFTER ALL WALLS AND KNEE WALLS HAVE BEEN CONSTRUCTED.
- FLOOR FINISH TO EXTEND COMPLETELY UNDER MILLWORK.
- WHEN A CHANGE IN FLOOR FINISH OCCURS AT DOORWAY, THE SEAM IS TO BE CENTERED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS OTHERWISE INDICATED.
- ALL FLOOR FINISHES TO BE PROTECTED FROM DAMAGE BY TRADES AFTER INSTALLATION. ANY DAMAGE TO BE REPAIRED AT NO COST TO THE OWNER.
- ALL DOOR FRAMES AND BASE MUST BE PROTECTED WITH APPROPRIATE MATERIAL TO AVOID DAMAGE DURING INSTALLATION OF FLOORING MATERIALS. THE PROTECTION MATERIALS AND METHOD OF ADHESION SHOULD NOT DAMAGE THE FINISH WHEN REMOVED. DAMAGE DONE TO COMPLETED WORK TO BE REPAIRED AT NO COST TO THE OWNER.
- CONTRACTOR TO PREPARE A PACK OF SIGNIFICANT SIZE LEFTOVERS WHICH WILL REMAIN ON SITE FOR FUTURE REPAIRS AND PATCHING. (CONFIRM QUANTITY WITH CLIENT; 10% OVERAGE IS STANDARD).
- USE "XLT" GREY THINSET FOR ALL FLOOR & WALL TILE UNLESS NOTED OTHERWISE.
- USE "XLT" GREY THINSET BY LATICRETE FOR ALL FLOOR & WALL TILE UNLESS NOTED OTHERWISE.
- USE "GLASS TILE ADHESIVE" BY LATICRETE FOR ALL GLASS TILE. ENSURE FULL COVERAGE WITH NO TROWEL MARKS.
- PROVIDE "HYDROBAN" BY LATICRETE FOR CRACK ISOLATION AS NEEDED.
- PROVIDE "LATASIL" 100% SILICONE SEALANT BY LATICRETE AT CHANGE IN PLANE AS NEEDED.
- ANY KILN RELEASE RESIDUE MUST BE CLEANED OFF TILE BEFORE SETTING.



12/31/21

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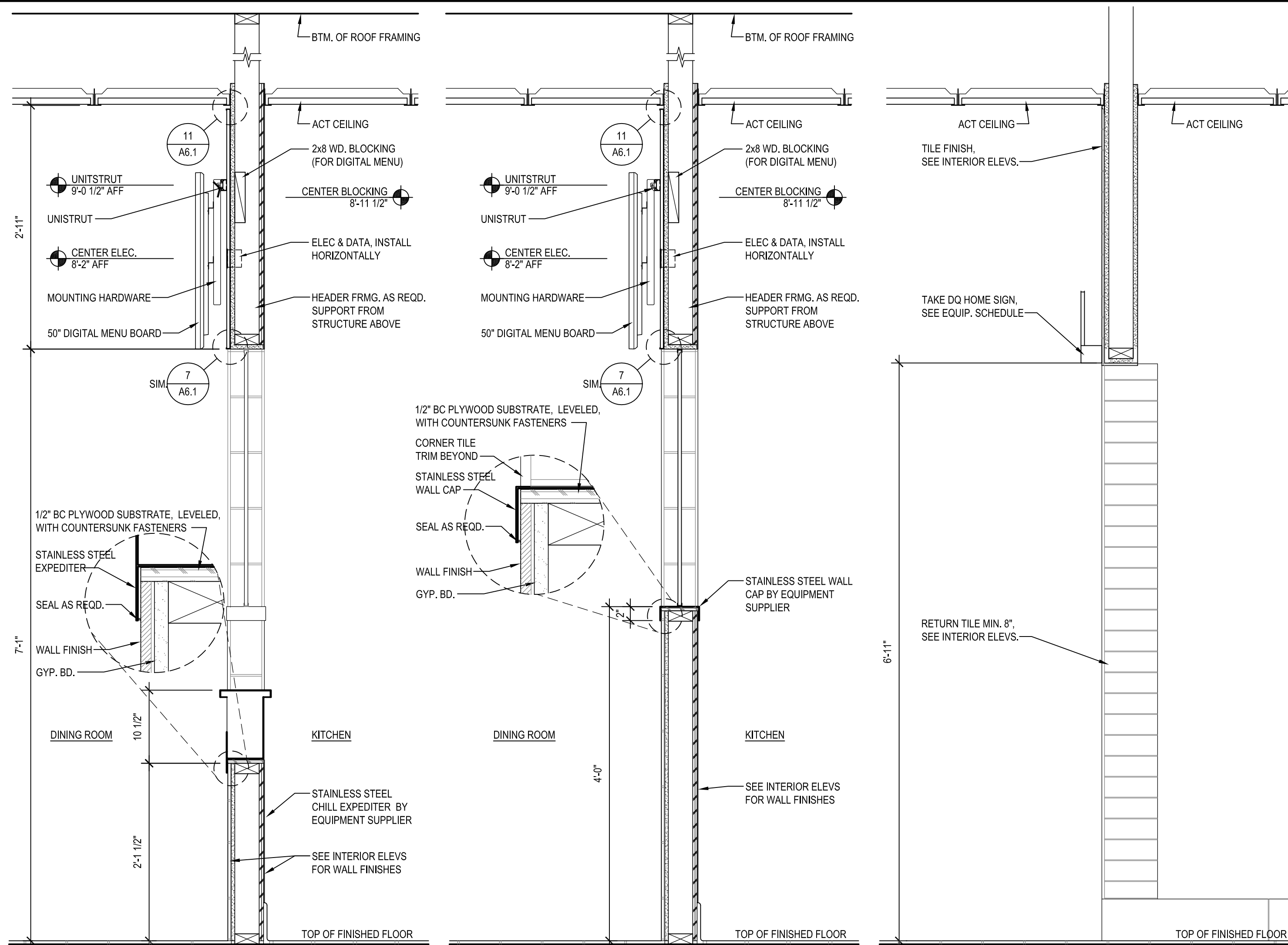
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FINISH PLAN &
SCHEDULE

SHEET NUMBER:

A5.3



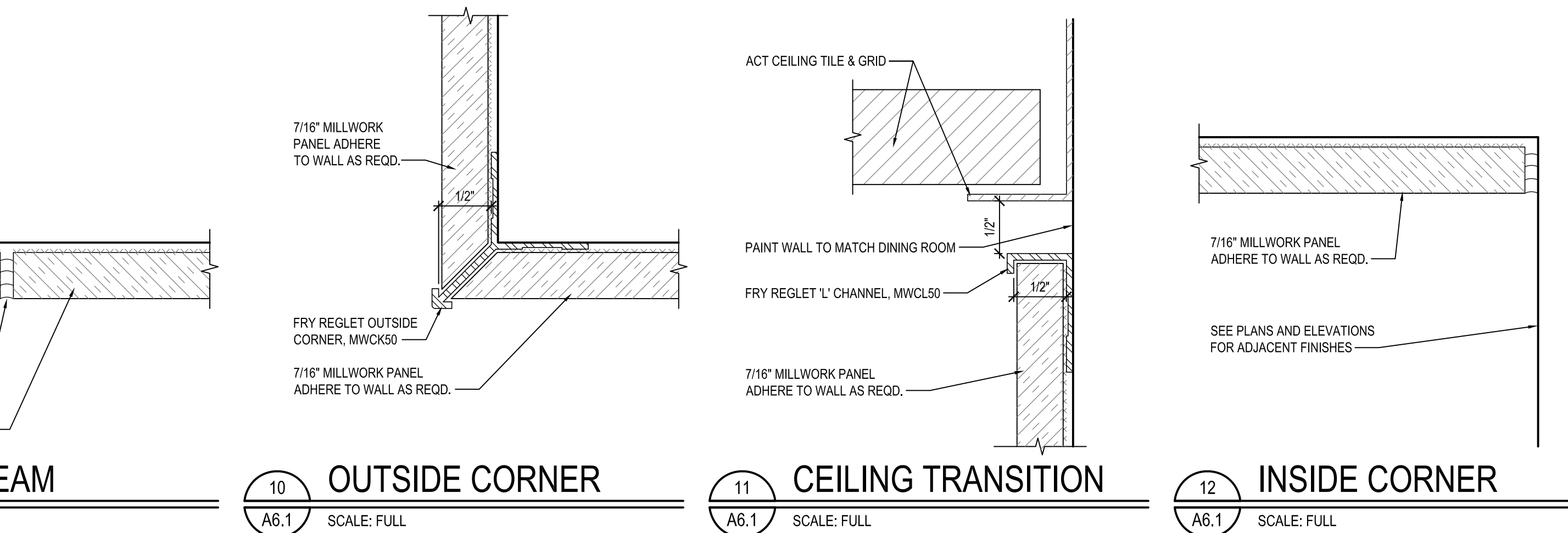
1 KITCHEN WALL SECTION
A6.1 SCALE: 1" = 1'-0"

2 KITCHEN WALL SECTION
A6.1 SCALE: 1" = 1'-0"

3 CAKE ENCLOSURE SECTION
A6.1 SCALE: 1" = 1'-0"

4 LAVATORY SECTION
A6.1 SCALE: 1" = 1'-0"

5 PANELING ELEVATION
A6.1 SCALE: 1" = 1'-0"



6 PANEL BASE
A6.1 SCALE: FULL

7 PANEL TRANSITION
A6.1 SCALE: FULL

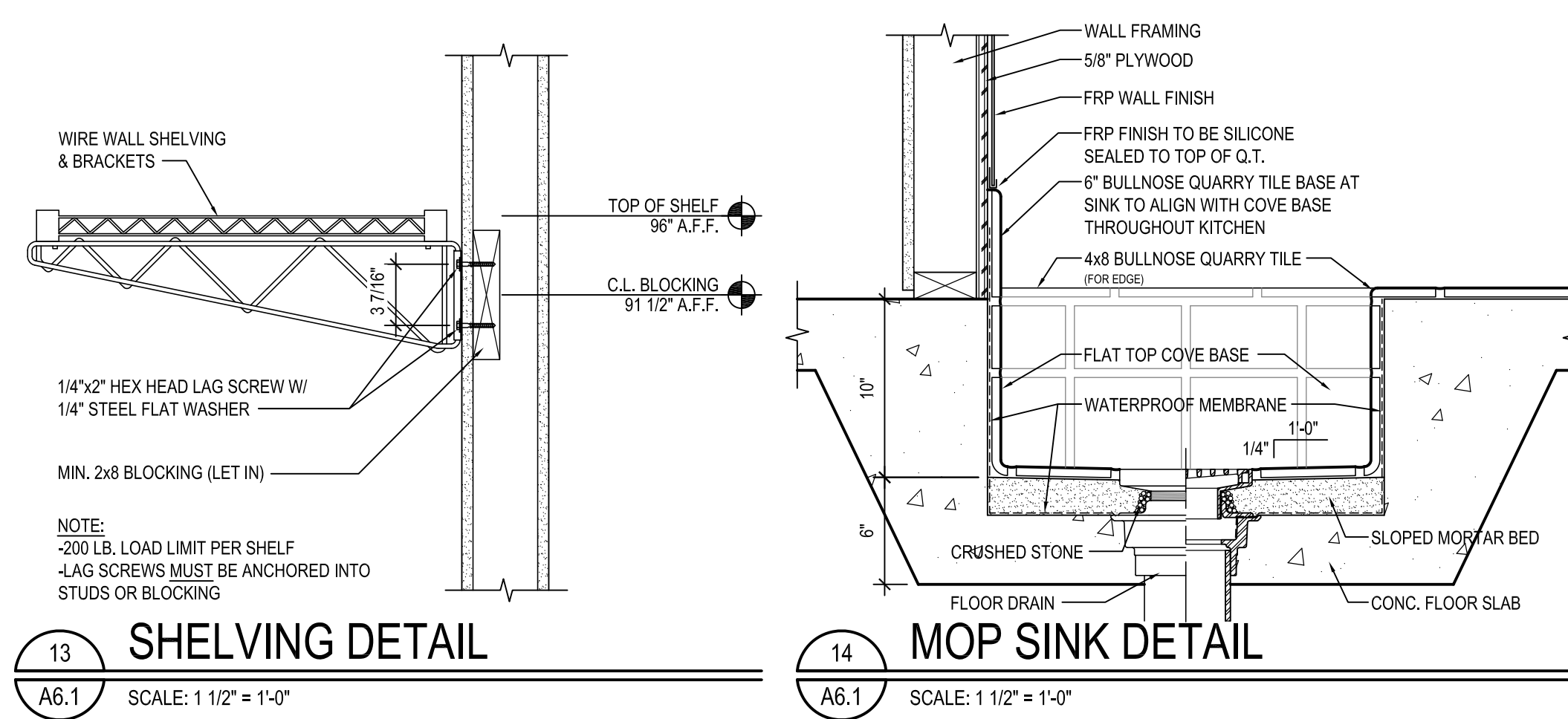
8 PANEL REVEAL
A6.1 SCALE: FULL

9 PANEL SEAM
A6.1 SCALE: FULL

10 OUTSIDE CORNER
A6.1 SCALE: FULL

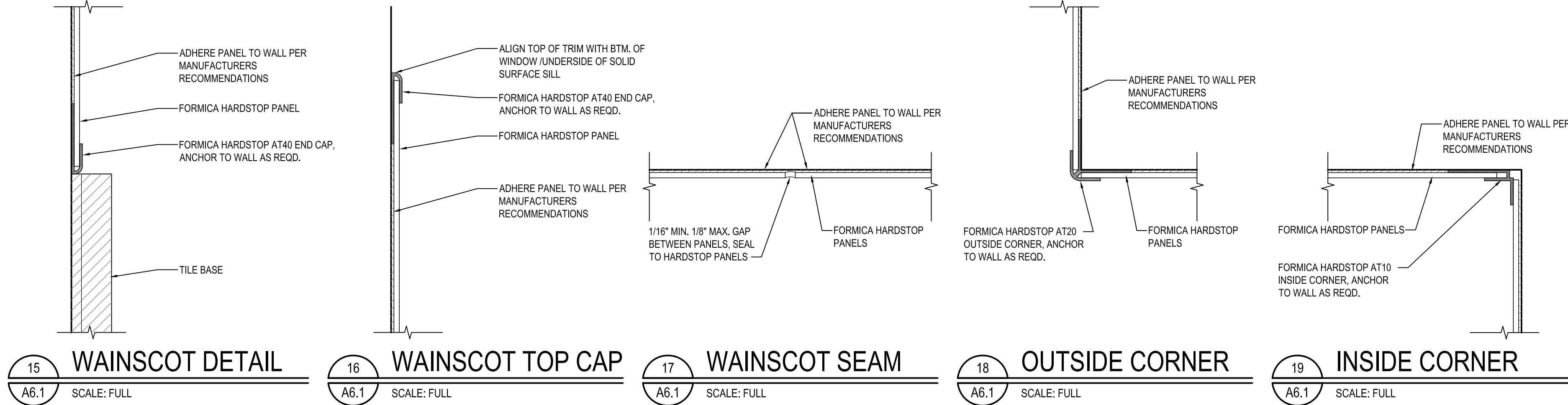
11 CEILING TRANSITION
A6.1 SCALE: FULL

12 INSIDE CORNER
A6.1 SCALE: FULL



13 SHELVING DETAIL
A6.1 SCALE: 1 1/2" = 1'-0"

14 MOP SINK DETAIL
A6.1 SCALE: 1 1/2" = 1'-0"



15 WAINSCOT DETAIL
A6.1 SCALE: FULL

16 WAINSCOT TOP CAP
A6.1 SCALE: FULL

17 WAINSCOT SEAM
A6.1 SCALE: FULL

18 OUTSIDE CORNER
A6.1 SCALE: FULL

19 INSIDE CORNER
A6.1 SCALE: FULL



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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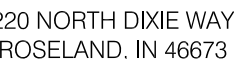
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DETAILS

SHEET NUMBER:

A6.1



AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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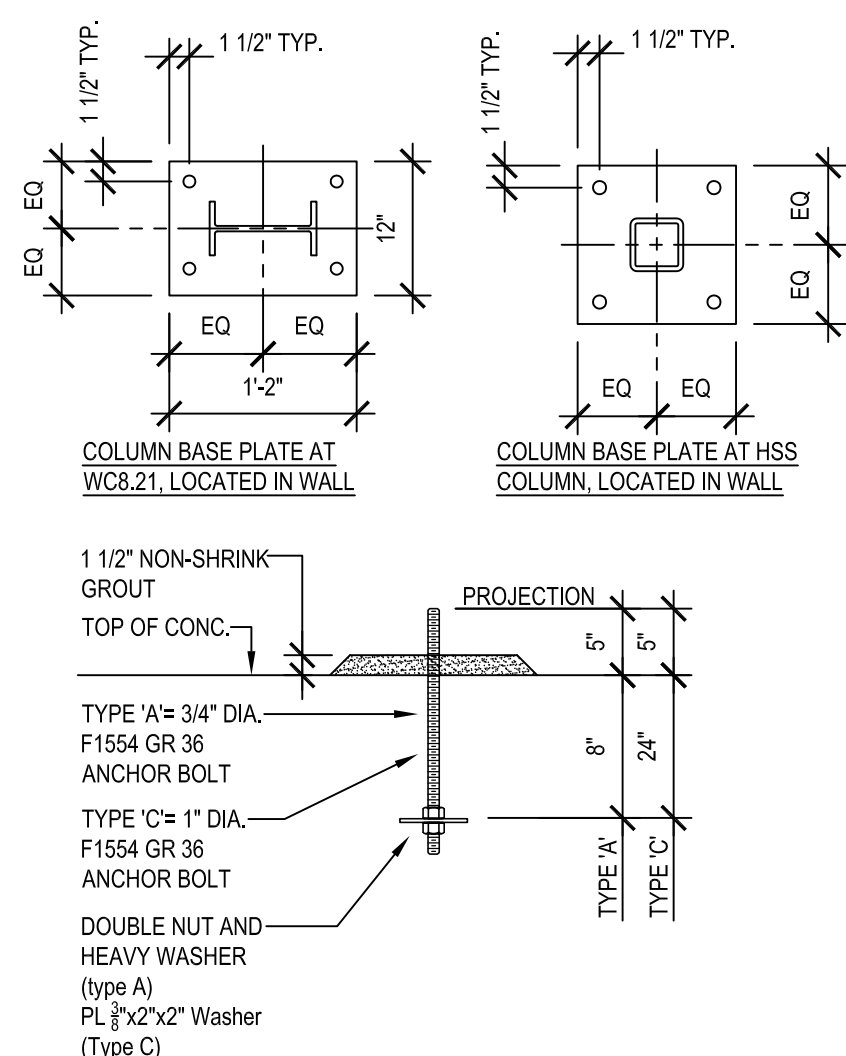
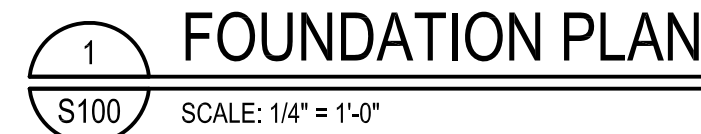
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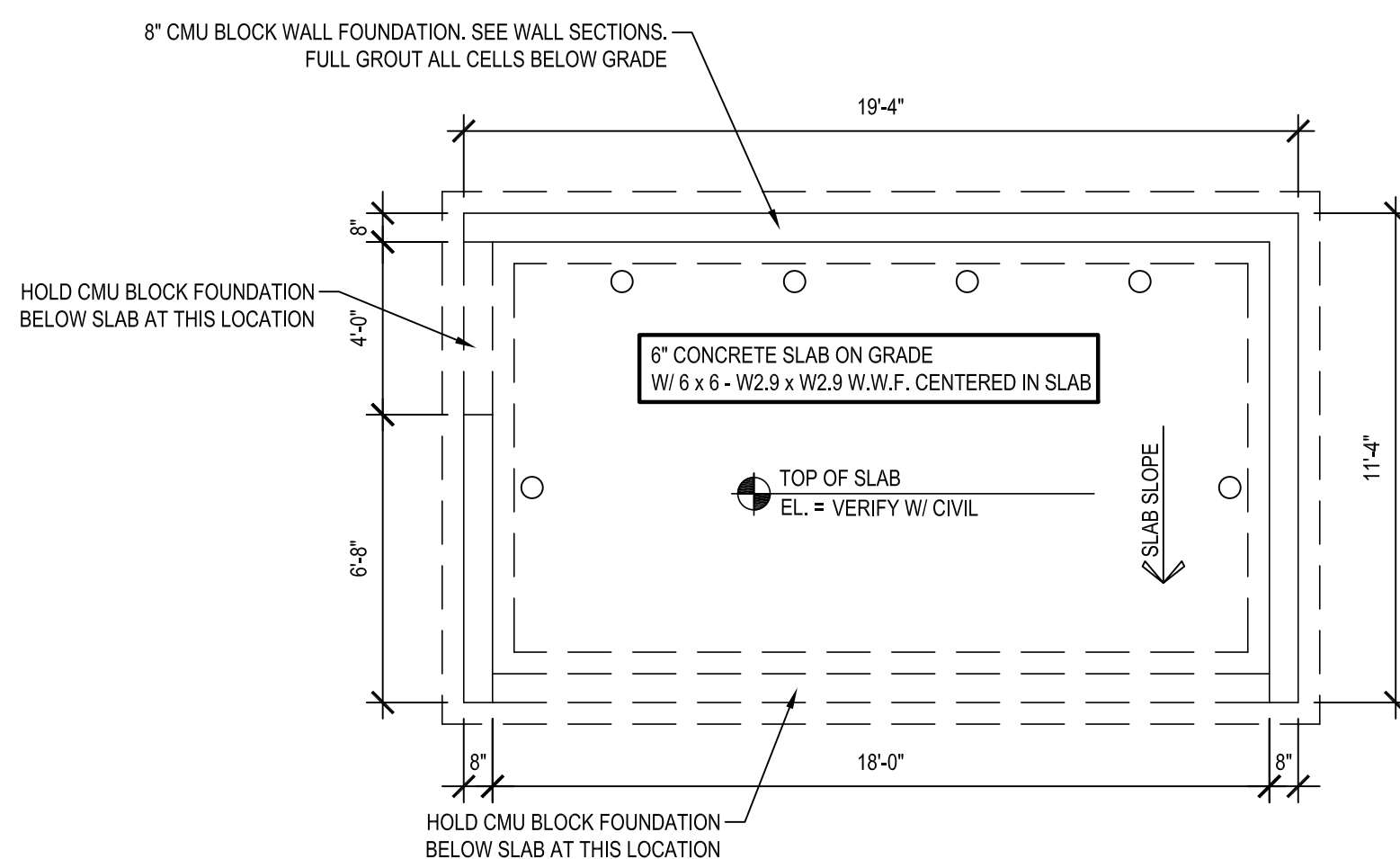
FOUNDATION PLAN

SHEET NUMBER:

S100



2 TYP. BASE PLATE & ANCHOR BOLT DETAILS
S100



3 TRASH ENCLOSURE FOUNDATION PLAN
S100

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING: BOTTOM U.N.O.
F3	3'-0" x 3'-0" x 12"	(3) #5 BARS EACH WAY

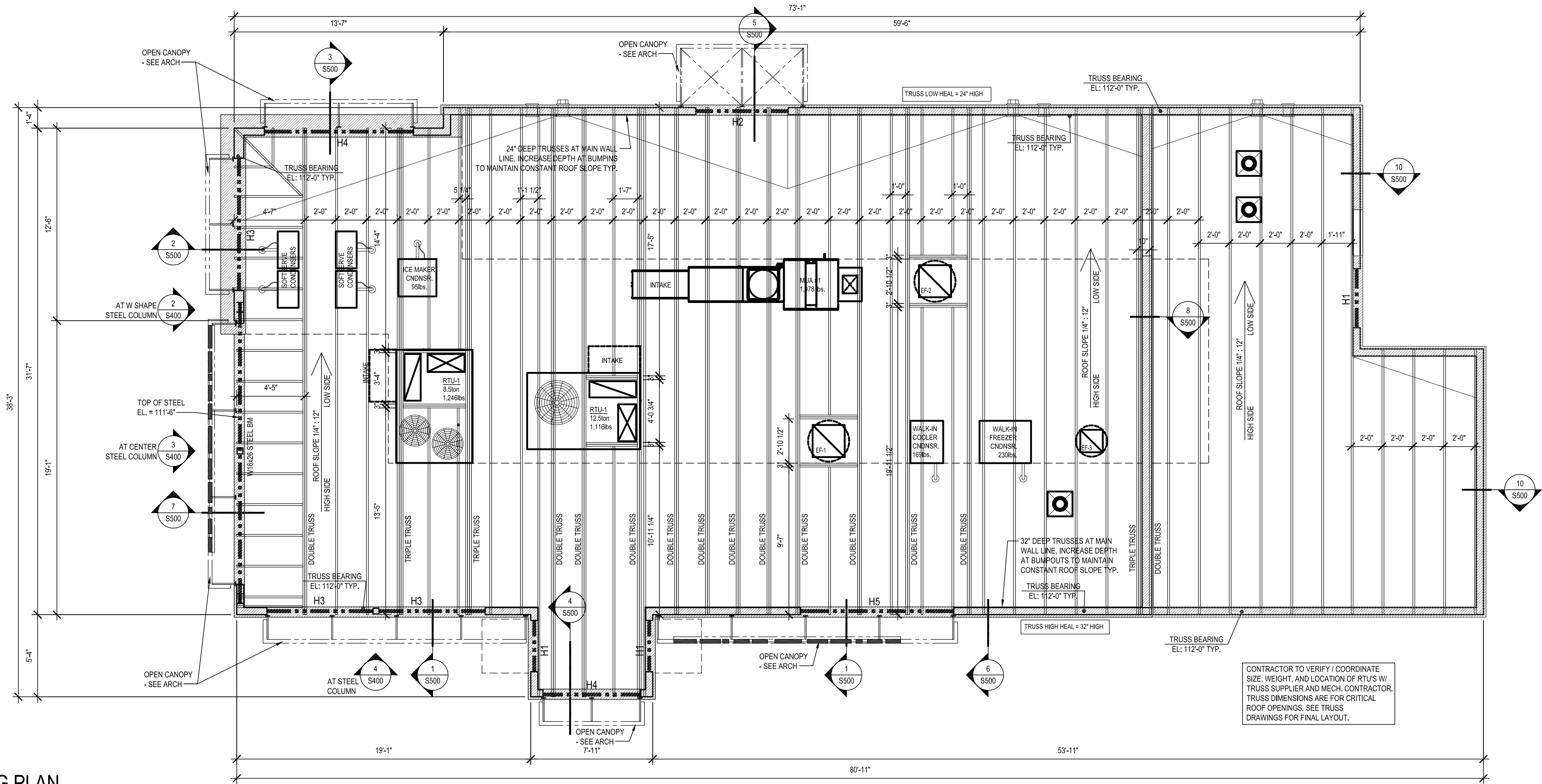
PIER SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
P16	16" x 16" CIP CONCRETE PIER	(4) #6 VERT. W/ #3 TIES AT 12" O.C. AND (2) EXTRA ON TOP	BUILT INTEGRAL WITH FDN WALL
P16/24	16" x 24" CIP CONCRETE PIER	(6) #6 VERT. W/ #3 TIES AT 12" O.C. AND (2) EXTRA ON TOP	BUILT INTEGRAL WITH FDN WALL

COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	ANCHOR BOLT TYPE
C5.25-A	HSS5 x 5 x 1/4	3/4" x 11" x 11"	A
C5.25-C	HSS5 x 5 x 1/4	3/4" x 11" x 11"	C
WC8.21	W8 x 21	1 1/8" x 12" x 14"	C

1. BPE (BOTTOM OF BASE PLATE ELEVATION) = 99'-5 1/2"
2. WELD CAP PLATES ON COLUMNS W/ 1/4" FILLET ALL AROUND, U.N.O
3. ALL COLUMNS ARE CONTINUOUS TO FOOTING U.N.O.

FOUNDATION PLAN NOTES:

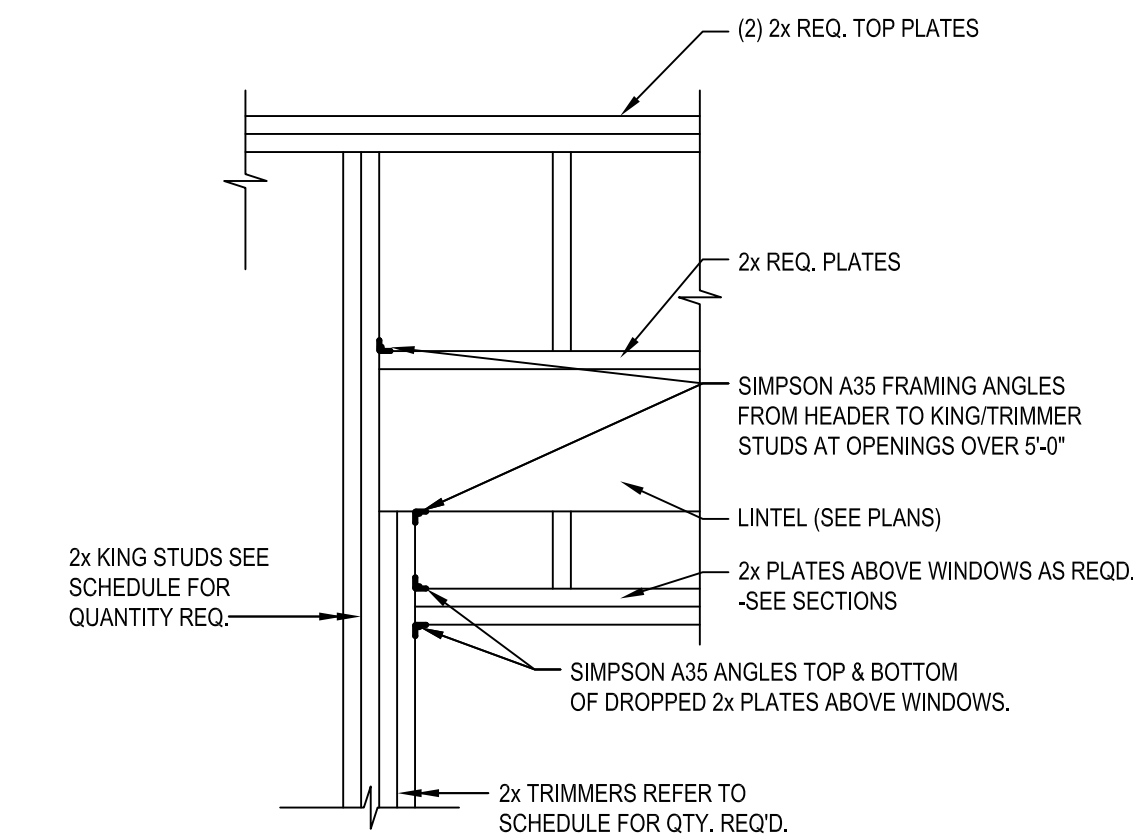
1. ALL EXTERIOR WALL FOOTINGS TO BE 24" x 10" CONCRETE STRIP FOOTINGS WITH (3) #5 CONTINUOUS AT TYPICAL WALL.
2. BOTTOM OF EXTERIOR FOOTING SHALL BE AT ELEVATION 96'-2" (U.N.O.).
3. ALL COLUMN FOOTINGS ARE CENTERED ON COLUMNS AND WALL FTGS ARE CENTERED BENEATH WALLS (U.N.O.).
4. STEPPED WALL FOOTINGS ARE INDICATED THIS:
- DROP FOOTINGS AS REQUIRED BY SITE TO MAINTAIN FROST COVER.
- CONTRACTOR NOTE: COORDINATE STEP LOCATIONS IN FINAL SITE GRADE.
5. VERIFY SIZE, LOCATION AND DEPTH OF UTILITIES AND SLEEVES WITH OTHER TRADES. FOR MECHANICAL LINES BELOW FOUNDATION, DISCONTINUE OR THICKEN FOOTING AS INDICATED IN DETAIL.
6. PROVIDE 1/2" DIA. x 12" ANCHOR BOLTS AT 4'-0" O.C. AND PLACE WITHIN 12" OF ALL WINDOWS AND DOORS AT ALL EXTERIOR WALLS, AND INTERIOR BEARING WALLS. SEE SHEAR WALL SCHEDULE FOR ADDITIONAL ANCHOR BOLT REQUIREMENTS
7. VERIFY ALL DOOR AND STUCCO LOCATIONS WITH OWNER AND ARCHITECT.



NOTE:
SEE SHEET S100 FOR OUTSIDE FACE OF WOOD
SHEATHING/OUTSIDE FACE OF FOUNDATION
DIMENSIONS

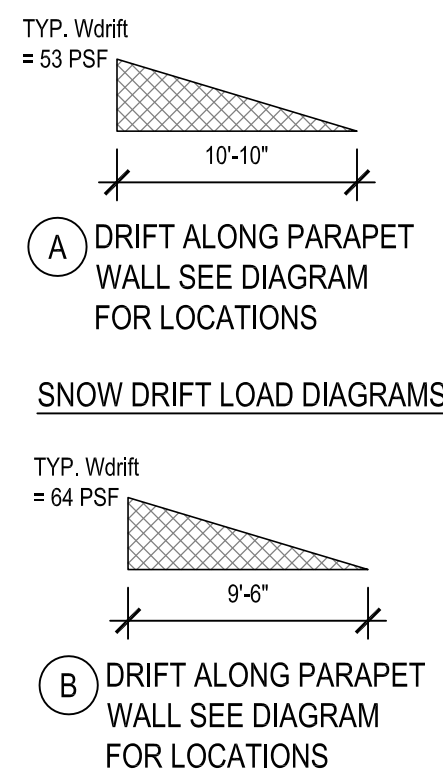
CONTRACTOR TO VERIFY / COORDINATE
SIZE, WEIGHT, AND LOCATION OF RTUS W/
TRUSS SUPPLIER AND MECH. CONTRACTOR.
TRUSS DIMENSIONS ARE FOR CRITICAL
ROOF OPENINGS. SEE TRUSS
DRAWINGS FOR FINAL LAYOUT.

1 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



NOTE:
KING AND TRIMMER STUDS TO BE SAME
WIDTH AS WALL CONSTRUCTION

2 HEADER DETAIL



3 SNOW DRIFT LOAD DIAGRAMS

HEADER SCHEDULE **			
MARK	SIZE	NO. OF TRIMMER STUDS	NO. OF KING STUDS
H1	(2) 2x10	1	2
H2	(3) 1 1/2 X 9 1/4" LVL	2	3
H3	(2) 1 1/2 X 16" LVL	2	3
H4	(3) 1 1/2 X 16" LVL	3	3
H5	(3) 1 1/2 X 16" LVL	3	4

**SEE PLAN FOR HEADER BEARING AT STEEL COLUMN

- ROOF FRAMING PLAN NOTES:
- TRUSS SUPPLIER/ENGINEER TO USE THE FOLLOWING LOADING CRITERIA:
TOP CHORD:
SL = 10 PSF + DRIFT (SEE DIAGRAM)
DL = 15 PSF
BOTTOM CHORD:
DL = 10 PSF
WIND = PER ASCE 7-16 115MPH (ULTIMATE), EXP. C, BASED ON TRIBUTARY AREA,
MAX ROOF DL USED FOR UPLIFT = 10PSF
 - TYPICAL TRUSS BEARING ELEVATIONS ARE SHOWN ON PLANS, (T.B.E. =).
 - INSTALL TRUSSES AND BRACING PER TRUSS MANUFACTURER'S RECOMMENDATIONS.
 - TYPICAL EXTERIOR WALLS TO BE 1/2" PLYWOOD OR OSB SHEATHING,
131x2 1/2" NAILS SPACED AT 8" O.C. AT EDGES AND BOUNDARIES, 12" O.C. IN THE FIELD, U.N.O.
-SEE DETAIL S400 FOR ADDITIONAL SHEARWALL REQUIREMENTS
 - TYPICAL WALL STUDS ARE 2x6 SPF NO. 1 / NO. 2 OR BETTER AT 16" O.C. U.N.O. ON PLANS.
 - ROOF SHEATHING TO BE 5/8" THICKNESS (NOMINAL) 3/4" SPAN RATING W/ 131x2 1/2" NAILS
AT 12" OC IN THE FIELD AND 6" OC AT EDGES AND BOUNDARIES. SEE DETAIL
AND STRUCTURAL NOTES FOR ROOF WALLING REQUIREMENTS



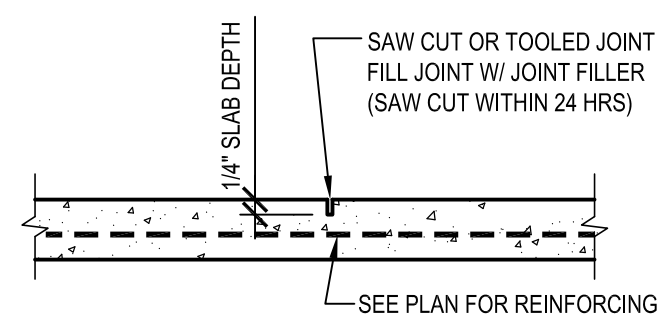
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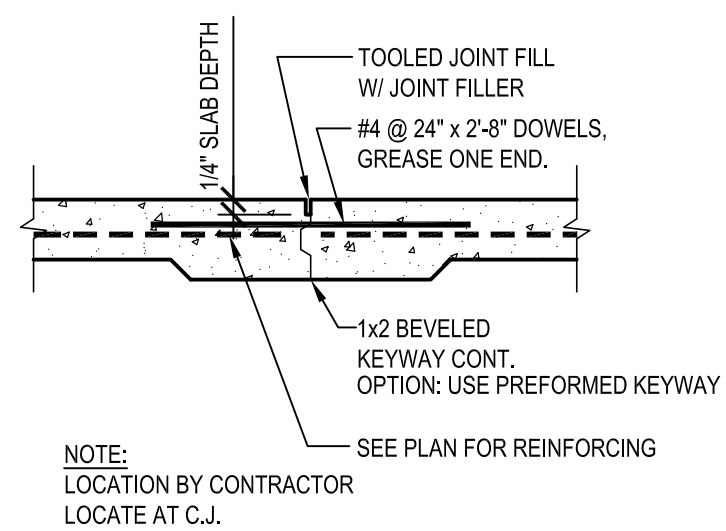
ROOF FRAMING PLAN

SHEET NUMBER:
S200



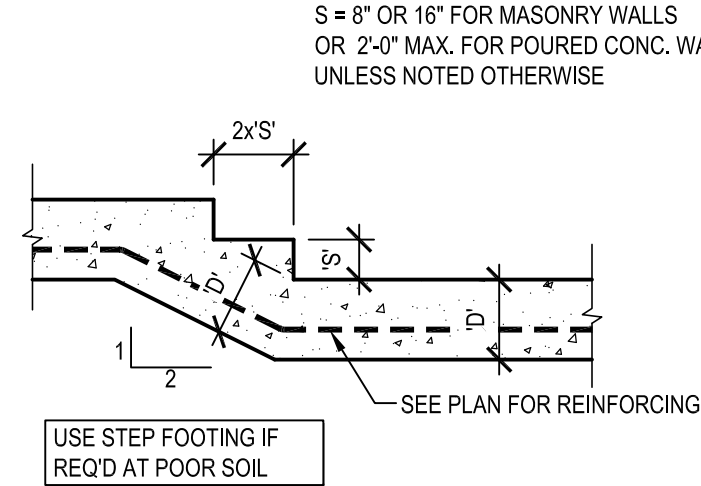
NOTE: SEE STRUCTURAL NOTES FOR SPACING

1 CONTROL JOINT - SLAB
S300

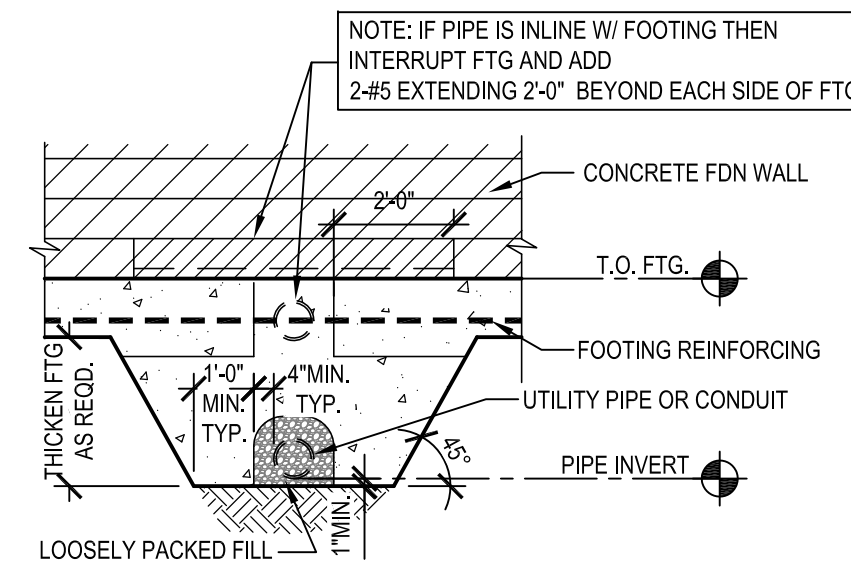


NOTE:
LOCATION BY CONTRACTOR
LOCATE AT C.J.

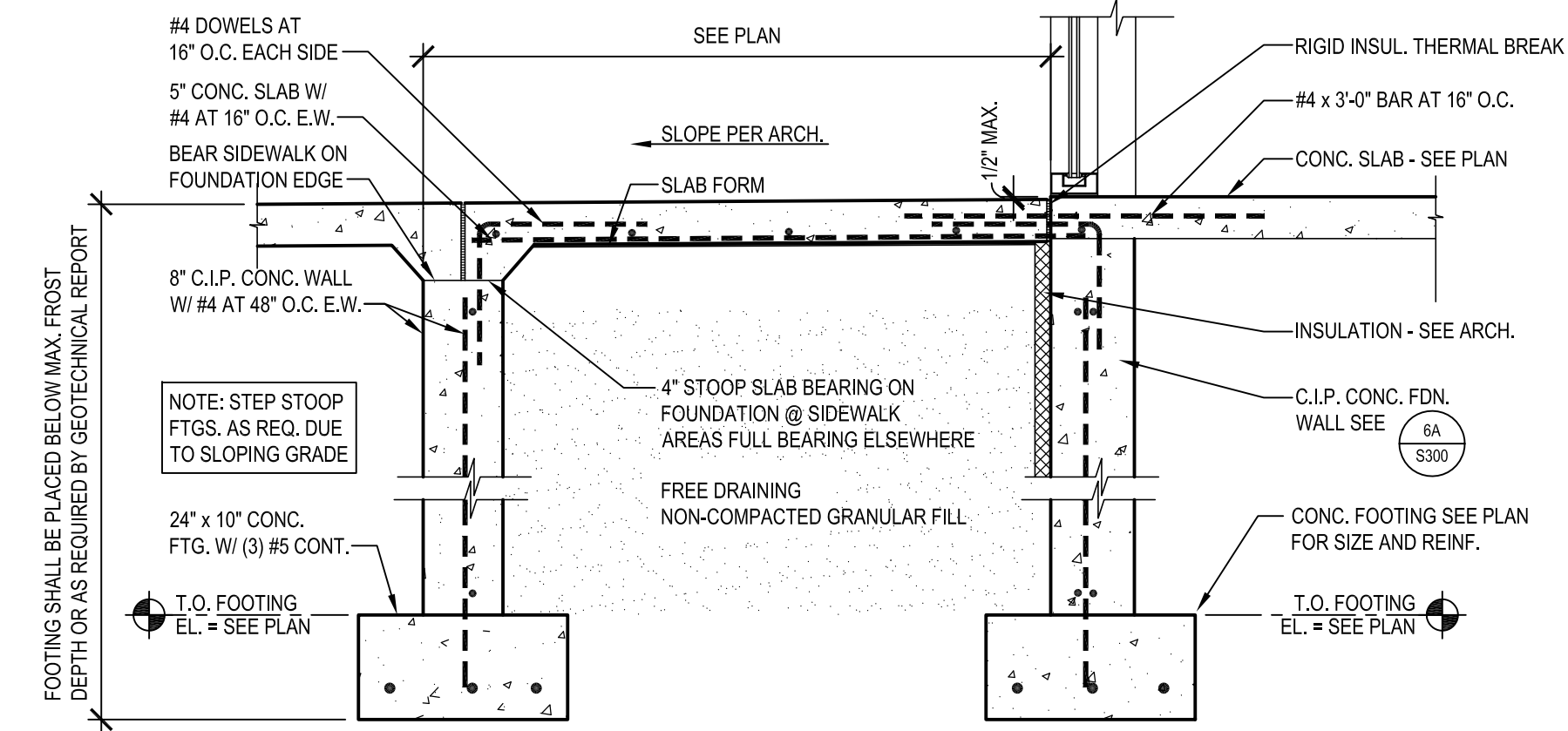
2 CONSTRUCTION JOINT - SLAB
S300



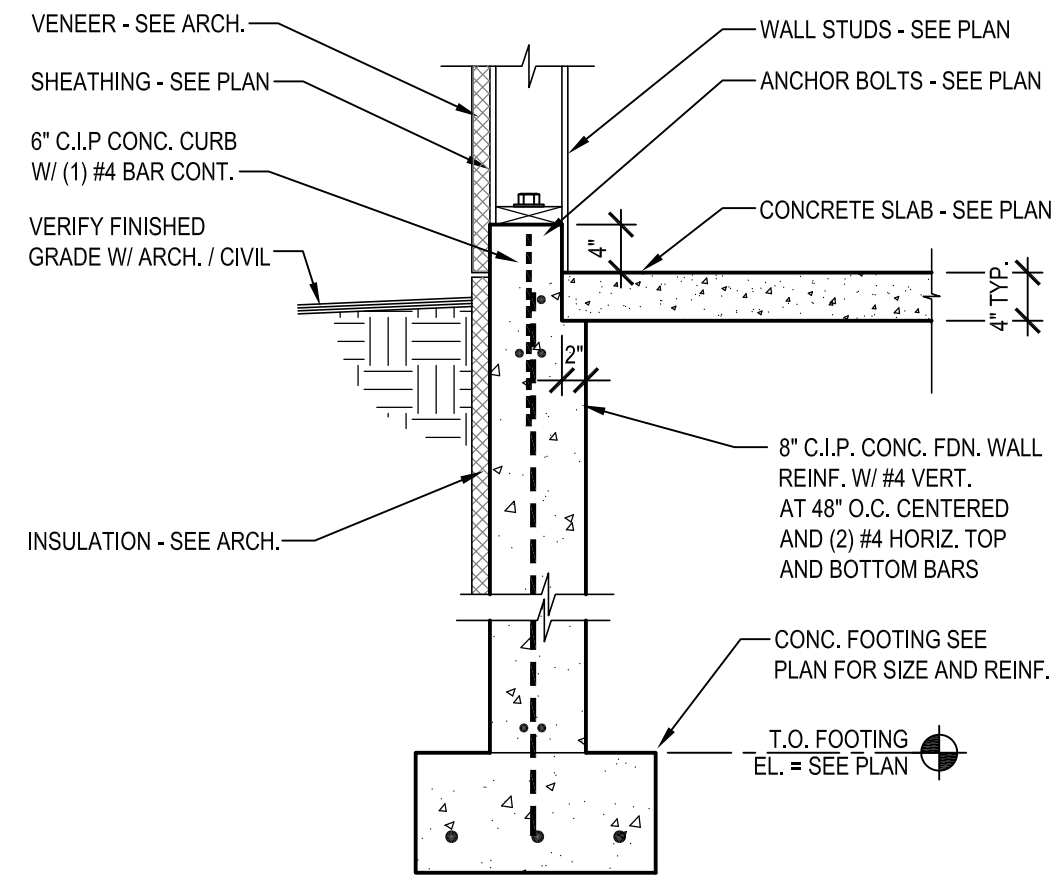
3 STEP FOOTING
S300



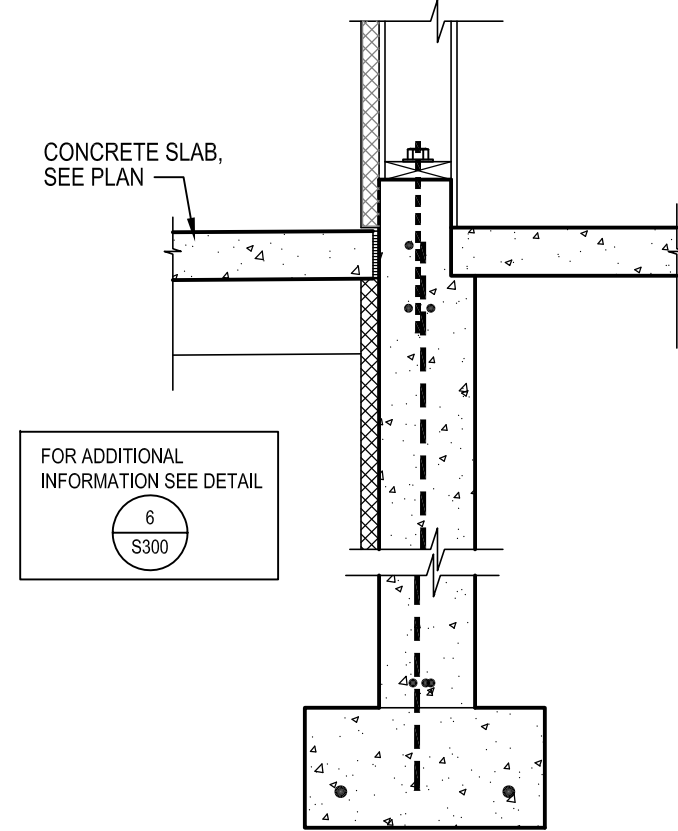
4 FOUNDATION AT UTILITY
S300



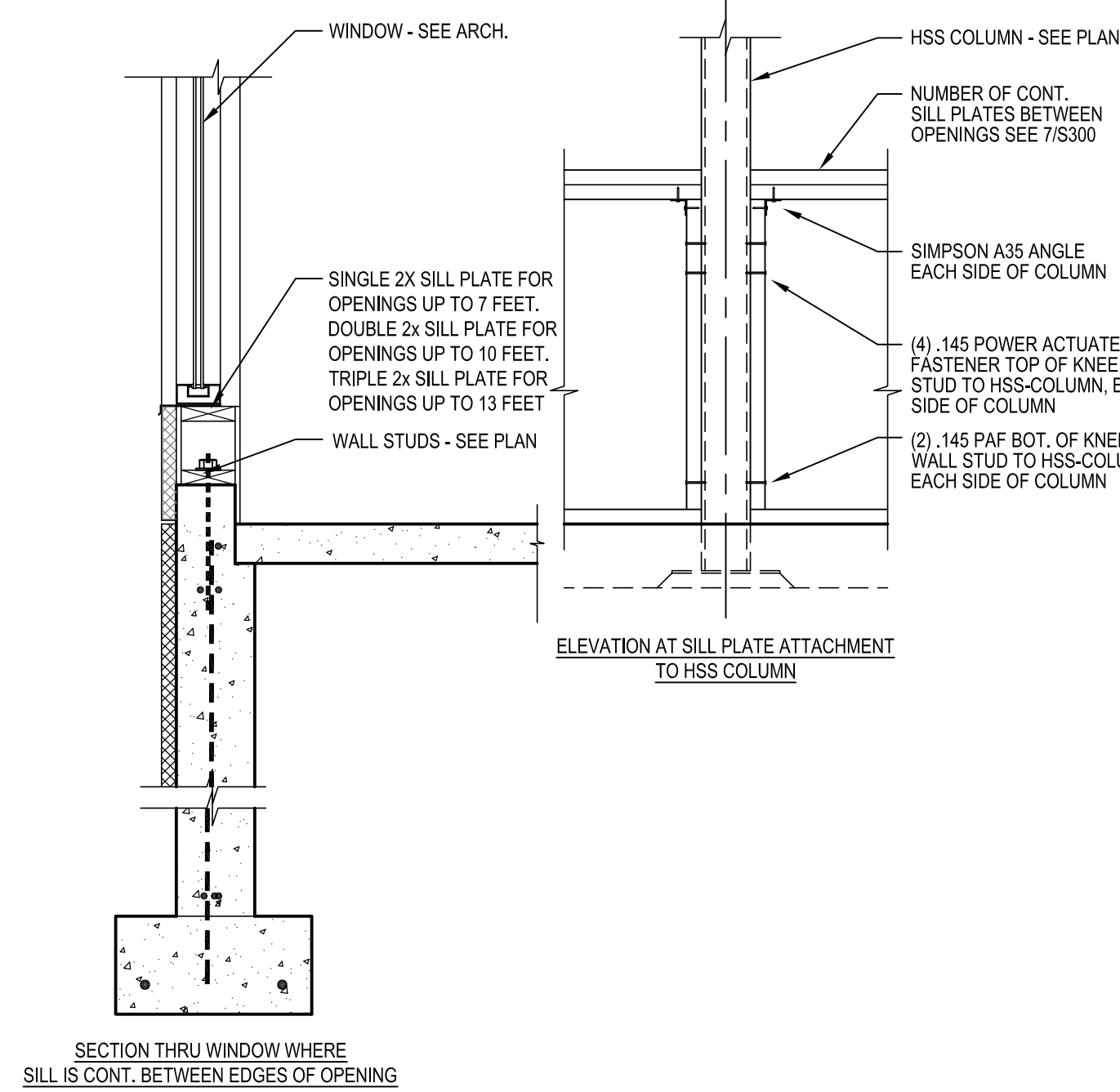
5 STOOP SECTION
S300



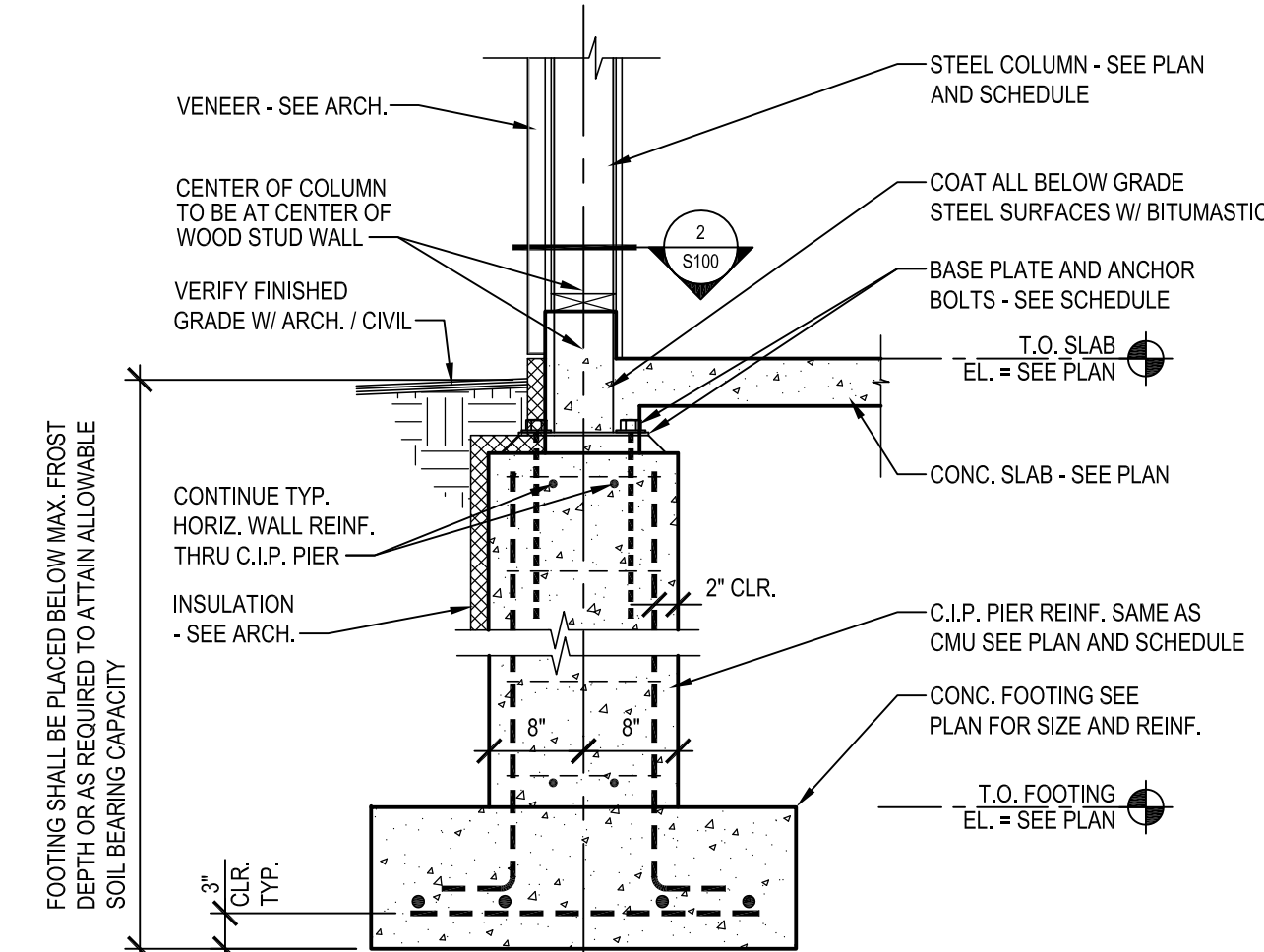
6 TYP. FOUNDATION SECTION
S300



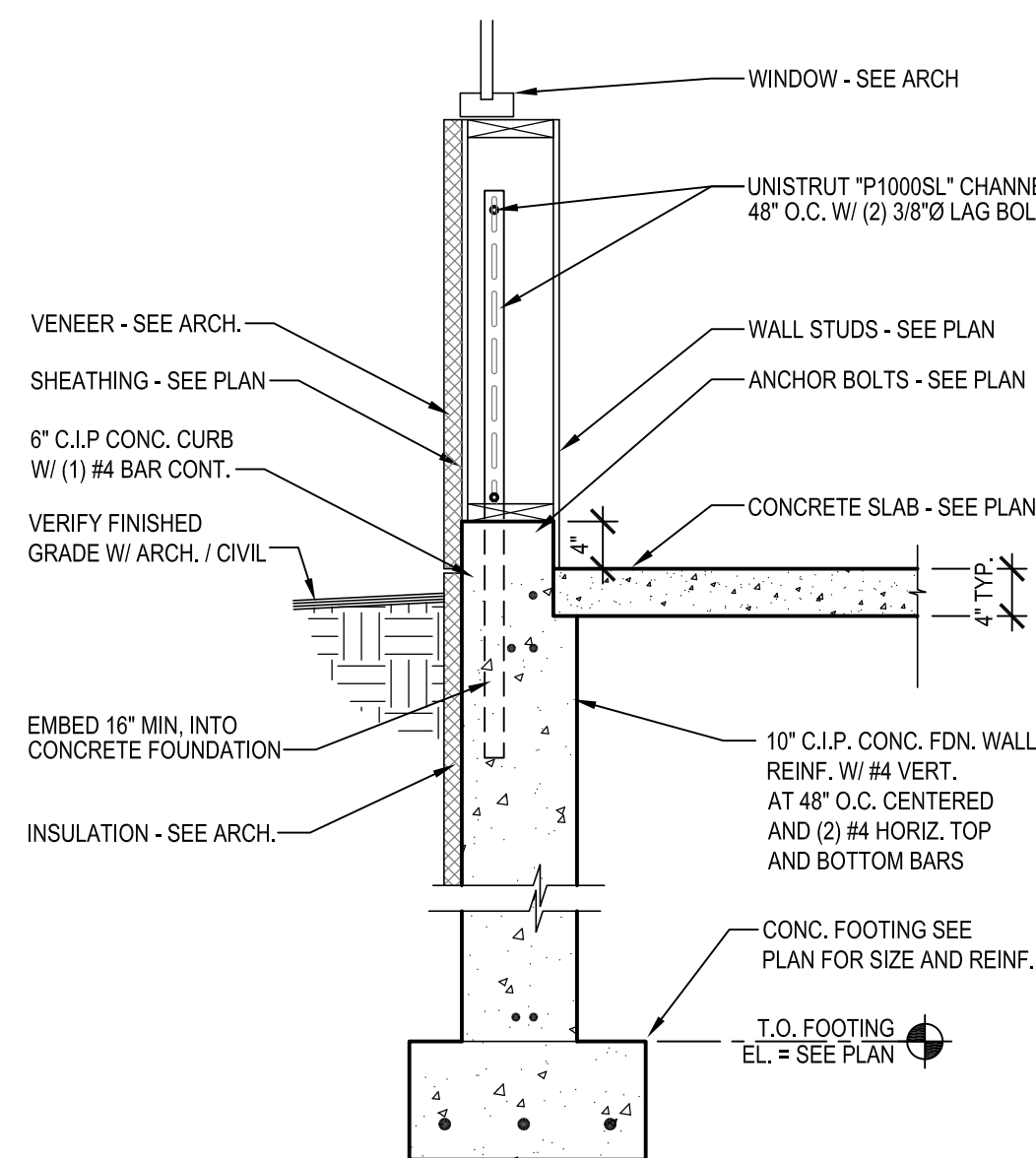
6A SECTION
S300



7 FOUNDATION SECTION AT WINDOW
S300



8 SECTION AT COLUMN PIER
S300



9 FOUNDATION SECTION
S300



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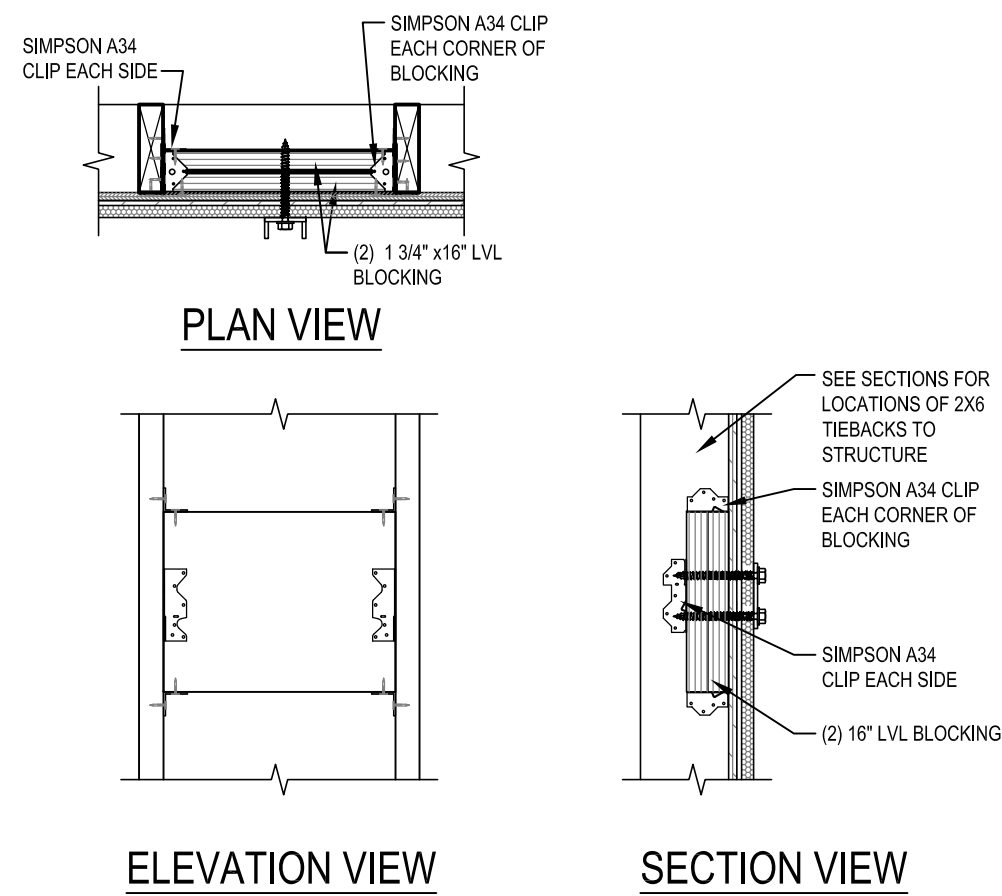
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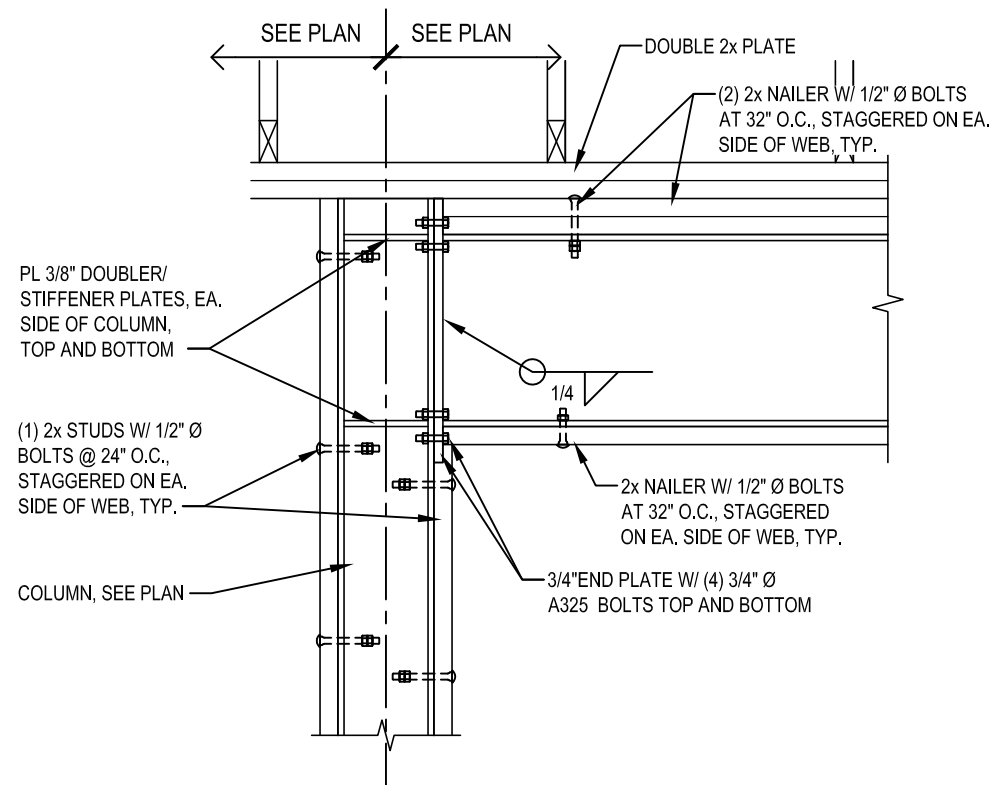
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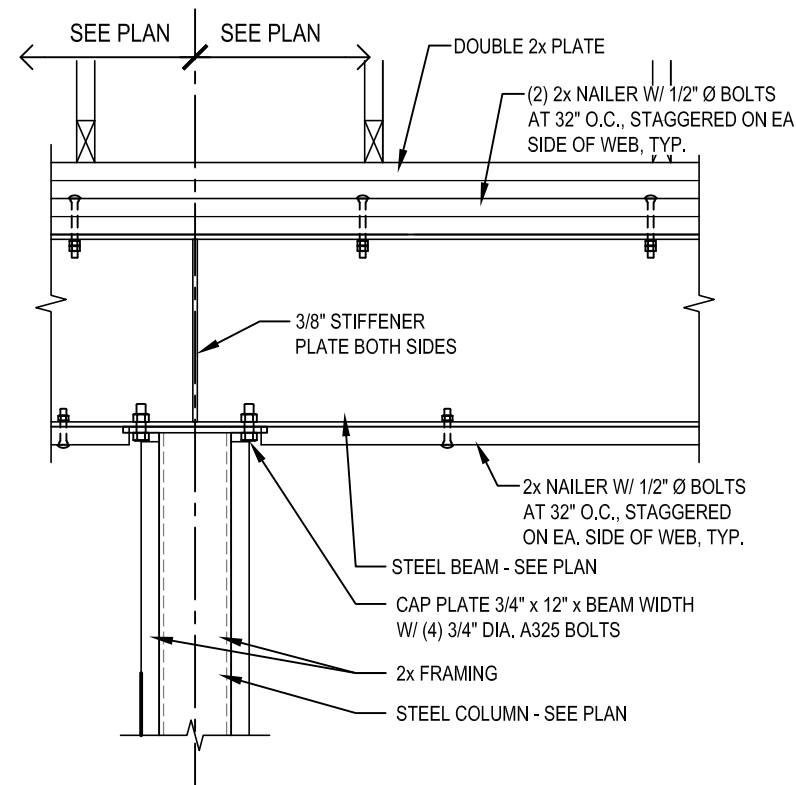
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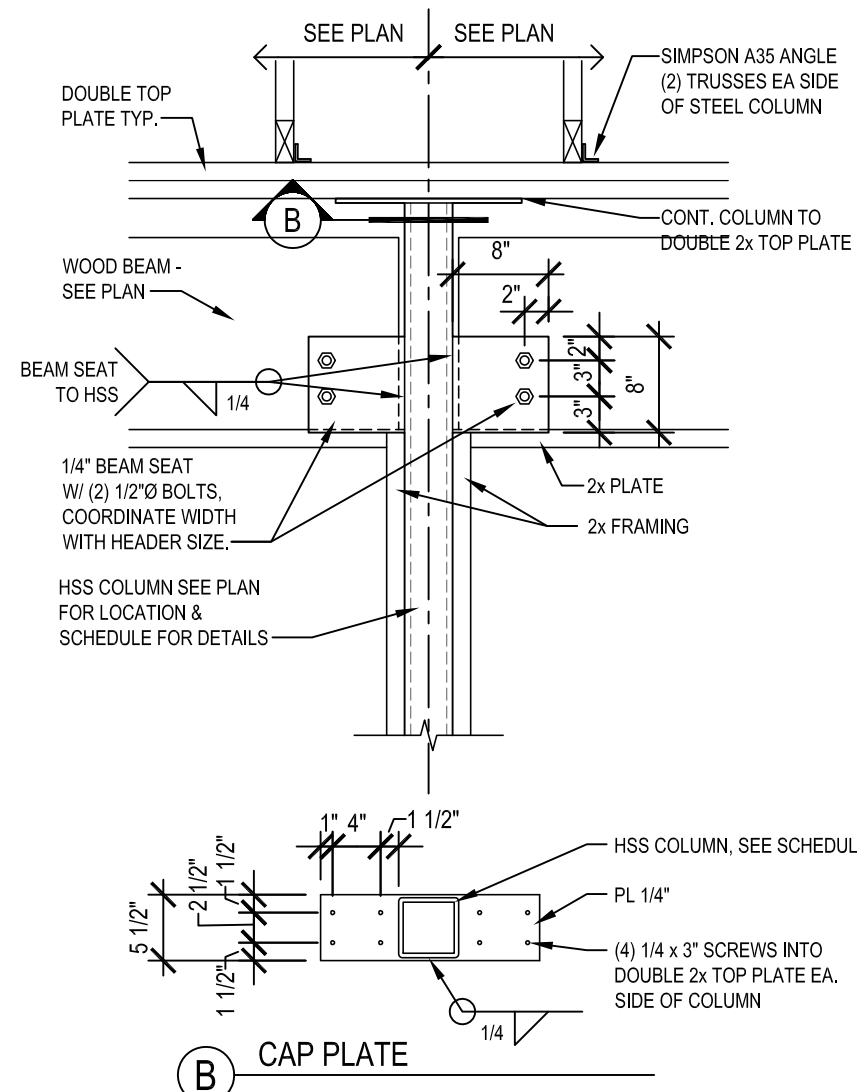
1 BLOCKING DETAIL
S400



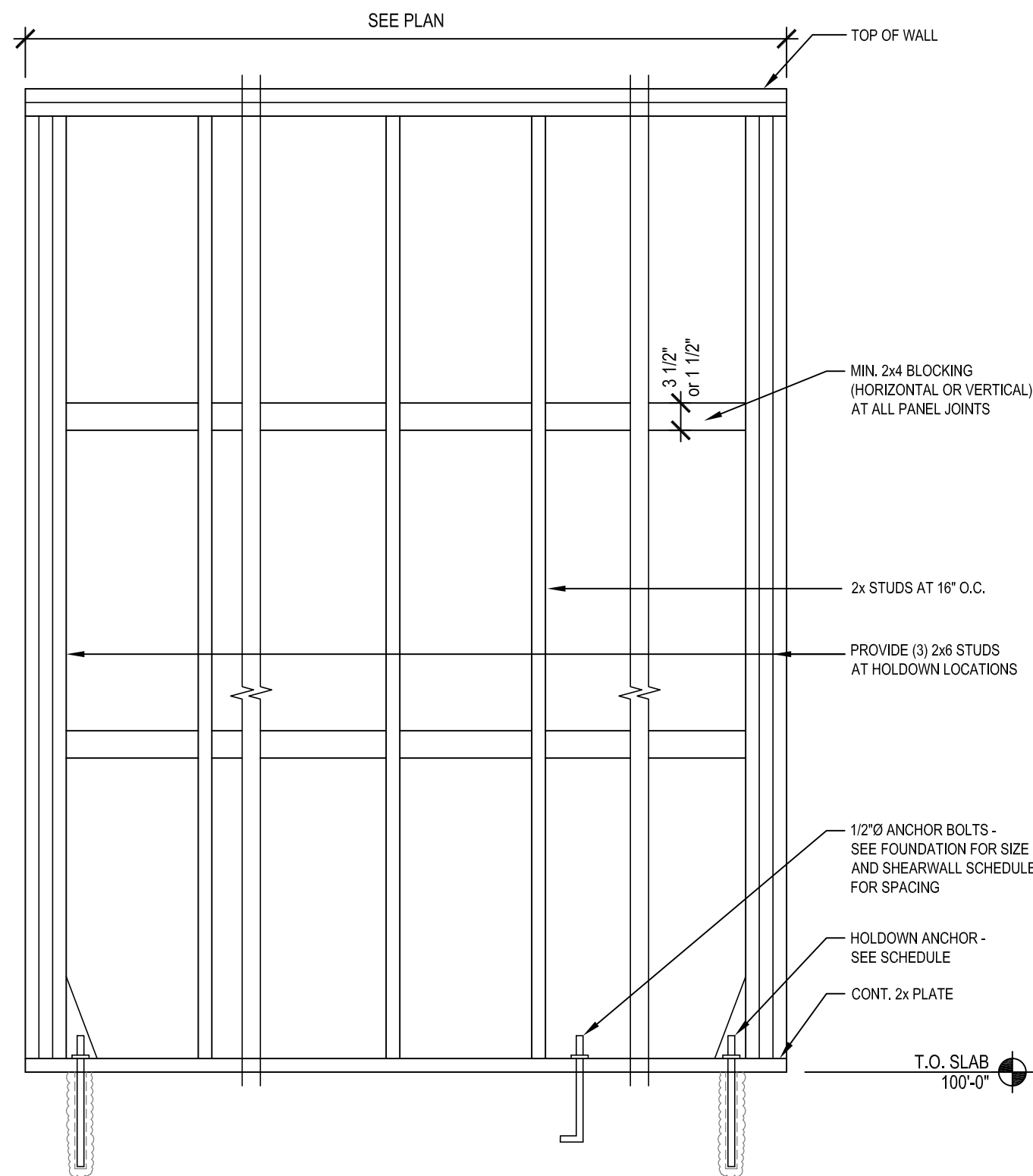
2 WIND FRAME DETAIL
S400



3 BEAM/COLUMN DETAIL
S400



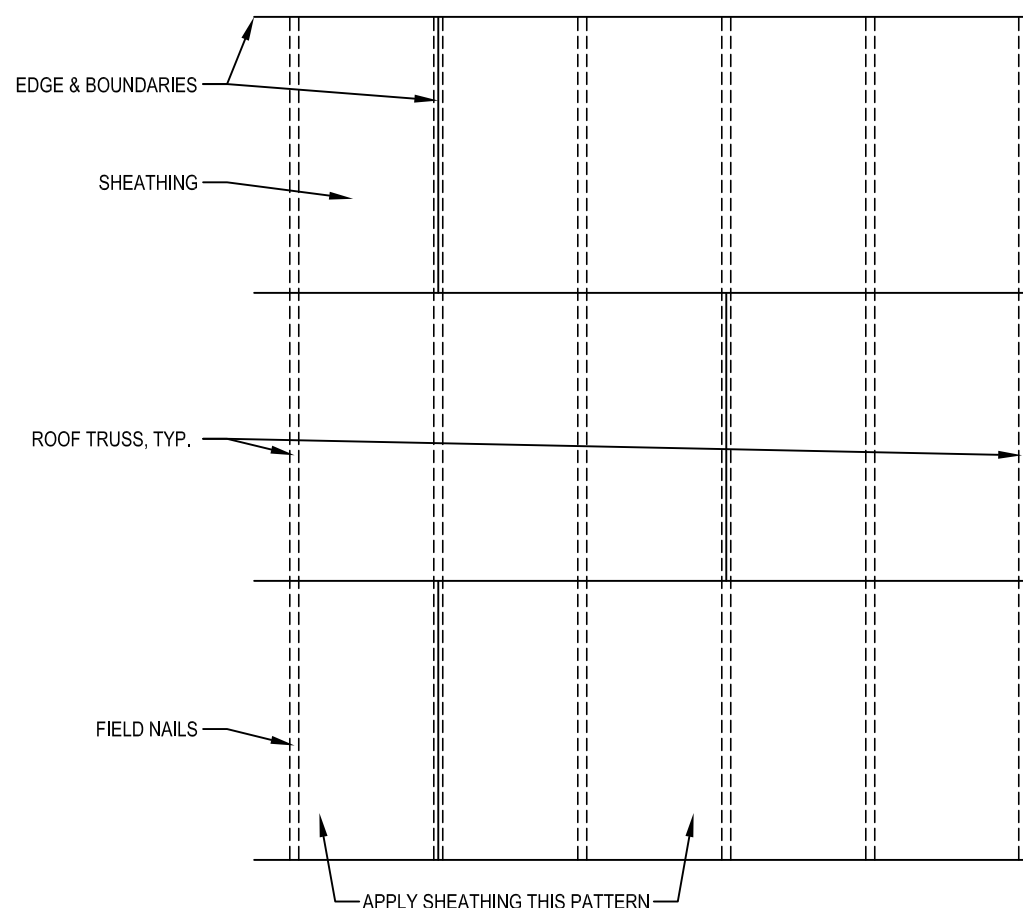
4 DETAIL
S400



5 SHEARWALL SCHEDULE AND DETAIL
S400

SHEARWALL SCHEDULE						
MARK	SHEATHING	SHEATHING NAIL SIZE	SHEATHING NAIL** SPACING AT PANEL EDGES	SHEATHING NAIL** SPACING AT INTERMEDIATE SUPPORTS	HOLDDOWN*** ANCHORS	ANCHOR BOLT SPACING
A	(1) 15/32.	.131 x 2 1/2"	6"	12"	NONE	48"
B	(1) 15/32.	.148 x 3"	6"	12"	(1) SIMPSON HDU8 7/8"Ø ANCHOR, w/ WASHER AND HHN	24"
C	(1) 15/32.	.131 x 2 1/2"	6"	12"	(1) SIMPSON HDU8 7/8"Ø EPOXY ANCHOR	24"

- NOTES:
- SHEATHING PANELS MAY BE LAID UP HORIZONTALLY OR VERTICALLY. NO VERTICAL PANEL EDGES ON VERTICAL CHORDS (HOLDDOWN LOCATION).
 - WIND LOADS GOVERN OVER SEISMIC LOADS.
 - SCREW HOLDDOWN ANCHORS TO VERTICAL MEMBER W/ ALL MFR'S. SUPPLIED SCREWS.
 - PLACE TWO VERTICAL WALL REINFORCEMENT WITHIN 3" OF HOLDDOWN ANCHOR.
- * IF SILL PLATE OR TOP PLATES ARE NOT CONTINUOUS, CONTACT THE ENGINEER OF RECORD FOR SOLUTION.
** NAIL SHEATHING TO ROOF DIAPHRAGM CHORD & TO EACH MEMBERWALL VERTICAL CHORD W/ .131 x 2 1/2" NAILS @ 6" O.C. UNO.
*** AS MANUF. BY SIMPSON. USE HILTI HIT HY200 EPOXY FOR THE INSTALLATION OF THREADED ROD ANCHORS.



- ROOF DIAPHRAM NOTES:
- SEE PLAN AND STRUCTURAL NOTES FOR SHEATHING THICKNESS AND NAILING REQUIREMENTS.
 - NAIL EDGE AND BOUNDARY NAILS W/ .131 x 2 1/2" NAILS AT 6" O.C.
 - NAIL FIELD W/ .131 x 2 1/2" NAILS @ 12" O.C.
 - NAILS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF SHEATHING

6 ROOF CONSTRUCTION
S400

NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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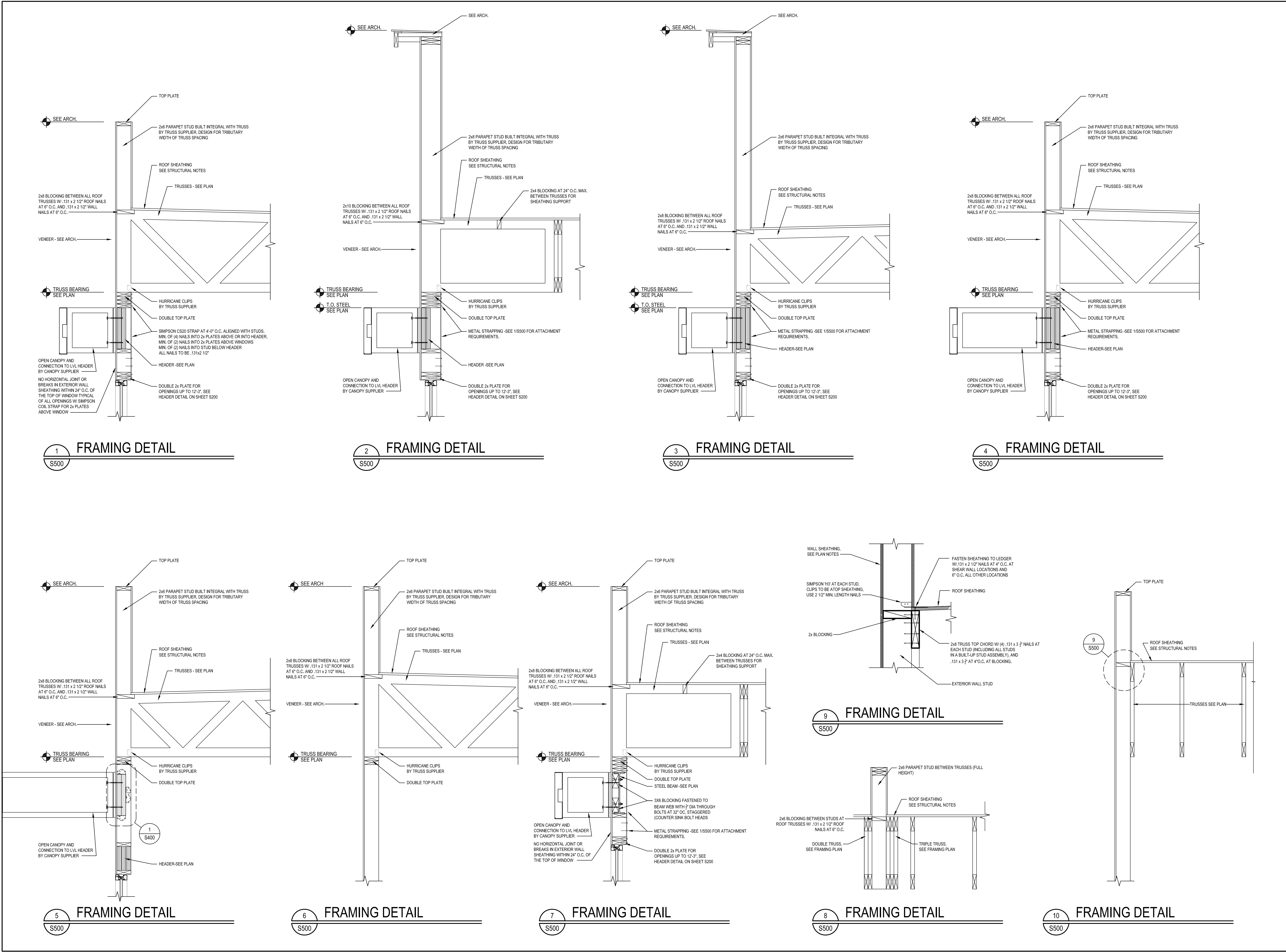
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DETAILS

SHEET NUMBER:

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NEW BUILDING FOR:



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DETAILS

SHEET NUMBER:
S500

GENERAL STRUCTURAL NOTES:

DESIGN AND LOADING
THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:

BUILDING CODE: 2014 INDIANA BUILDING CODE (2012 INTERNATIONAL BUILDING CODE)
1. FLOOR LIVE LOAD: 100 PSF

2. ROOF LIVE LOAD: 20 PSF
ROOF DEAD LOAD: 20 PSF + 5 PSF SPRINKLERS

3. GROUND SNOW LOAD: 30 PSF
FLAT ROOF SNOW LOAD: 21 PSF
SNOW EXPOSURE FACTOR, Ce: 1.0
IMPORTANCE FACTOR: I=1.0
THERMAL COEFFICIENT, Ct: 1.0

4. BASIC WIND SPEED: 115 MPH (3-SECOND GUST)
IMPORTANCE FACTOR: 1.00
BUILDING OCCUPANCY CATEGORY: II
WIND EXPOSURE: C
PRESSURES PER ASCE7

5. SEISMIC RISK CATEGORY: II
IMPORTANCE FACTOR: 1.00
SITE CLASS: D
Sa=0.096g, S1=0.067g
Ss=0.102g, Sd1=0.06g
DESIGN CATEGORY: B

FOUNDATION NOTES

1. THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA:
- A. MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 1500 PSF. (ASSUMED) SOIL BORINGS MUST BE TAKEN PRIOR TO CONSTRUCTION TO VERIFY THE ACTUAL ALLOWABLE SOIL BEARING CAPACITY.
 - B. FOUNDATIONS INDICATED MUST BE MODIFIED IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN THE VALUE NOTED IN ITEM 'A'
2. ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST.

CONCRETE AND REINFORCING

1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST EDITIONS.
2. ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI FOR FOUNDATIONS (4000 PSI FOR SLABS).
3. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318.
4. REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 315 AND 315R.
5. THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SUB-CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", LATEST EDITION.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
- D. ANCHOR RODS F1554, GRADE 36
 - E. HIGH STRENGTH STRUCTURAL BOLTS A325-A U.N.O.
 - F. STRUCTURAL SHAPES (W) A992
 - G. STRUCTURAL SHAPES (M, S, C, MC, PLATES) A36
 - H. STRUCTURAL SHAPES (HP) A572
 - I. STRUCTURAL TUBING (HSS) A500 GRADE B
 - J. STRUCTURAL ANGLES A36
3. ALL WELDING ELECTRODES SHALL BE E70-XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.I.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY CERTIFIED WELDERS.

CONSTRUCTION AND CONTROL JOINTS IN CONCRETE

1. CONSTRUCTION JOINTS SHALL BE MADE AS DETAILED ON THE DRAWINGS.
2. MAXIMUM SPACING FOR CONTROL JOINTS IN SLAB ON GRADE SHALL BE 12'-0"
3. A 12'-0" MAXIMUM SPACING OF CONTROL JOINTS MAY NOT INSURE COMPLETE CONTROL OF SHRINKAGE CRACKS. A CLOSER SPACING MAY BE USED BY REQUEST OF OWNER IF MORE COMPLETE SHRINKAGE CRACK CONTROL IS DESIRED. CONTRACTOR TO VERIFY WITH OWNER.

ROOF TRUSSES

1. TRUSSES SHALL BE DESIGNED TO MEET ALL LOADING AND SPANS AS INDICATED ON THE PLANS.
2. TRUSSES SHALL BE DESIGNED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
3. SUPPLIER SHALL BE RESPONSIBLE FOR ALL BRACING AND/OR BRIDGING REQUIRED FOR THE DESIGN OF THE TRUSS MEMBERS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING AND/OR BRIDGING REQUIRED DURING CONSTRUCTION.

SAWN LUMBER

1. ALL GRADES OF LUMBER SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE NATIONAL LUMBER GRADES AUTHORITY (NLGA). LUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:
- A. SPRUCE-PINE-FIR No. 1/ No. 2 OR BETTER, TYP. U.N.O.
 - B. TREATED SILL PLATE SOUTHERN PINE NO. 3 OR BETTER.
2. BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
3. MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE IF NO OTHER CRITERIA IS GIVEN.
4. CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON/USP. WRITTEN APPROVAL BY ENGINEER REQUIRED FOR SUBSTITUTIONS.

ROOF & WALL SHEATHING

1. ALL SHEATHING SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION (APA) DESIGN SPECIFICATIONS, LATEST EDITION. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.
2. WALL SHEATHING SHALL BE 15/32" (1/2" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 24/16. ALL WALL SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ .131 x 2 1/2" NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATED SUPPORTS, U.N.O.
3. ROOF SHEATHING SHALL BE 19/32" (5/8" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 40/20. ALL ROOF SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ .131 x 2 1/2" NAILS @ 6" O.C. AT PANEL EDGES, AND 12" O.C. AT INTERMEDIATE SUPPORTS, U.N.O.

SHOP DRAWINGS

1. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY CONTRACTOR PRIOR TO SUBMITTING TO THE ENGINEER AND ARCHITECT
2. FABRICATORS ARE TO CREATE THEIR OWN DRAWINGS.

SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:

- A. CONCRETE MIX DESIGN
- B. FOUNDATION REINFORCING BARS
- C. STRUCTURAL STEEL
- D. WOOD TRUSSES AND CALCULATIONS
- E. TRELLIS SYSTEM & CALCULATIONS

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704 OF IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED IBC SECTIONS/LOCATIONS:
- A. SOILS - SECTION 1705.6 PER TABLE 1705.6
 - B. CONCRETE - SECTION 1705.3 PER TABLE 1705.3
 - C. STEEL - SECTION 1705.2

MISCELLANEOUS

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS WHICH MUST BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY.
2. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.
3. DO NOT SCALE THE DRAWINGS.
4. DO NOT PROCEED WITH ANY DEGREE OF UNCERTAINTY

(OPTIONAL) CMU MASONRY

1. MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", TMS 402/ACI 530/ASCE 5 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602/ACI 530.1/ASCE 6)
2. MASONRY MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS:
- H. HOLLOW LOAD BEARING CONCRETE BLOCK: ASTM C-90, GRADE N1 MINIMUM COMPRESSIVE STRENGTH = 1900 PSI AT 28 DAYS.
 - I. MORTAR: ASTM C-270, TYPE S MINIMUM COMPRESSIVE STRENGTH = 1800 PSI AT 28 DAYS.
 - J. MORTAR: ASTM C-270, TYPE M MINIMUM COMPRESSIVE STRENGTH = 2500 PSI AT 28 DAYS (USED FOR BELOW GRADE WORK)
 - K. GROUT: ASTM C-476, MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS
 - L. MASONRY REINFORCEMENT: ASTM A-82, GALVANIZED
 - M. MASONRY PRISM STRENGTH: FM = 1500 PSI

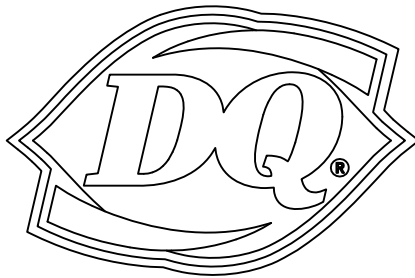
3. PRIOR TO DELIVERY OF MASONRY UNITS TO THE JOB SITE, FURNISH TO THE OWNER SUBMITTALS CERTIFYING THAT ALL UNITS CONFORM TO THEIR RESPECTIVE ASTM REQUIREMENTS.
4. CALCIUM CHLORIDE AND/ OR ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT ALLOWED TO BE INCLUDED IN MORTAR OR GROUT MIX.
5. NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT. UNLESS THE RECOMMENDATIONS SPECIFIED BY THE INTERNATIONAL MASONRY INDUSTRY ALL WEATHER COUNCIL IN THEIR PUBLICATION "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY" ARE STRICTLY FOLLOWED.

THE MASONRY CONTRACTOR SHALL PROVIDE LATERAL BRACING AND SHORING AS REQUIRED

(OPTIONAL) CMU MASONRY SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704 OF IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED IBC SECTIONS/LOCATIONS:
- A. SOILS - SECTION 1705.6 PER TABLE 1705.6
 - B. CONCRETE - SECTION 1705.3 PER TABLE 1705.3
 - C. STEEL - SECTION 1705.2
 - D. MASONRY - SECTION 1705.4

NEW BUILDING FOR:



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ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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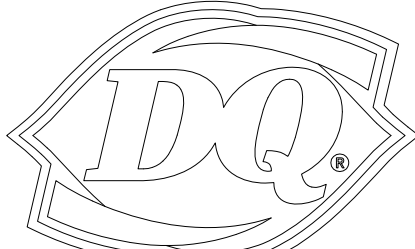


GENERAL
STRUCTURAL
NOTES

SHEET NUMBER:

S600

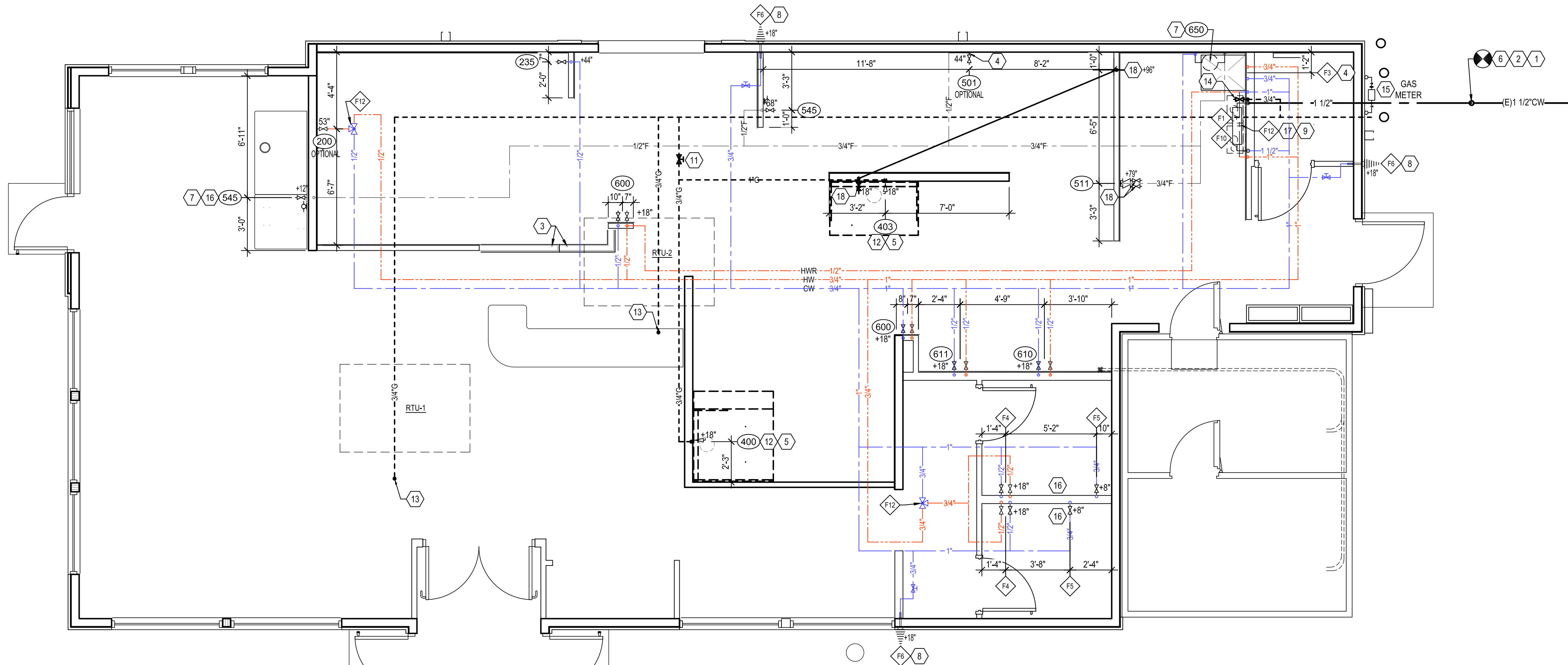
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THIS PLAN WAS DEVELOPED USING
THE 2018 IPC PLUMBING CODE

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	FLOOR DRAIN
	FLOOR DRAIN W/ FUNNEL
	FLOOR SINK
DCO	DOUBLE CLEAN OUT
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
VTR	VENT THRU ROOF
BFP	BACKFLOW PREVENTER
S.O.V.	SHUT OFF VALVE
	WASTE, BELOW FLOOR
	SYRRUP LINES/CHASE, OVERHEAD
	VENT
	FILTERED WATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	GAS LINE

WATER, GAS, & PLUMBING SUPPLY PLAN

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

GAS LOAD - BTU

RTU-1	250,000
RTU-2	250,000
WATER HEATER	180,000
WATER HEATER	180,000
BATTERY OF FRYERS	240,000
CHAR BROILER	58,000
FLAT GRILL (BREAKFAST OPTION)	<135,000>
TOTAL	1,158,000

TOTAL GAS USAGE: 1171.0 MBH
MIN. SERVICE PRESSURE: 7" WC.
PRESSURE AFTER METER: 7" WC.
PRESSURE DROP: 0.5
LONGEST RUN: 103±

NOTE:
REDUCE GAS PRESSURE AT THE EQUIPMENT'S REGULATORS IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

NOTE:
ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2015 MINNESOTA PLUMBING CODE, UNLESS PRIOR AUTHORIZATION IS GRANTED BY THE ADMINISTRATIVE AUTHORITY. ALL PIPING, PIPE FITTINGS, TRAPS, FIXTURES, MATERIAL, AND DEVICES USED IN THE PLUMBING SYSTEM SHALL MEET CODE SECTIONS 301.1 AND 1401.1:
(1) BE LISTED OR LABELED (THIRD PARTY CERTIFIED) BY A LISTING AGENCY;
(2) COMPLY WITH THE APPROVED APPLICABLE RECOGNIZED STANDARDS REFERENCED IN THIS CODE;
(3) BE FREE FROM DEFECTS.
CROSS-LINK POLYETHYLENE (PBX) WATER DISTRIBUTION SYSTEMS MUST MEET SECTION 605.10 AND TABLE 604.1:
A. THE TUBING MUST COMPLY WITH ASTM F876, ASTM F877, OR CSAB 137.5.
B. ASTM F876 TUBING MUST BE MARKED WITH THE STANDARD OF THE FITTINGS TO BE USED.
C. THE FITTINGS MUST BE MARKED WITH ASSE 1061, ASTM F877, ASTM F1807, ASTM F1960, ASTM F1961, ASTM F2080, ASTM F2159, ASTM F2735, OR CSAB 137.5.

THE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PER SECTION 609.9.
THE PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH SECTIONS 609.4 AND 712.0.

LEGEND

NO.	DESCRIPTION
F1	WATER METER
F2	WATER HEATERS
F3	SERVICE SINK FAUCET
F4	LAVATORY
F5	WATER CLOSET
F6	HOSE BIB
F7	BACKFLOW PREVENTER
F8	URINAL
F9	MIXING VALVE

GENERAL NOTES

- REFER TO EQUIPMENT SCHEDULE FOR PLUMBING SPECIFICATIONS FOR EQUIPMENT PROVIDED BY OWNER AND/OR OTHERS.
- PROVIDE SHUT OFF VALVES AT ALL FIXTURES.
- CHEMICAL SANITIZER WITH HOT WATER (120°), IS ASSUMED FOR DISHWASHING IN STORE. LOCAL CODES SHOULD BE VERIFIED PRIOR TO CONSTRUCTION TO CONFIRM SPECIFIC REQUIREMENTS.
- PLUMBING CONTRACTOR TO VERIFY IN FIELD ALL EXISTING UTILITIES, DIMENSIONS AND CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION. DIMENSIONS GIVEN TO ROUGH-INS ARE CRITICAL FOR EQUIPMENT PLACEMENT.
- ALL DOMESTIC WATER PIPING INSULATED WITH 1" POLYETHYLENE THERMA-CELL INSULATION WITH ALL JOINTS AND SEAMS SEALED, OR EQUAL.
- REFRIGERATION SITE GLASS IS INCLUDED WITH ALL REFRIGERATION EQUIPMENT FURNISHED BY OWNER AND/OR OTHERS.
- GAS PIPING CONTRACTOR MAY USE FLEXIBLE AND CONTINUOUS PIPING AS LISTED AND APPROVED AGA, TracPipe® BY "megaFLEX" IF ALLOWED BY PREVAILING CODES.
- WATER PIPING CONTRACTOR MAY USE FLEXIBLE AND CONTINUOUS PIPING (ADJUST PIPE SIZES AS REQUIRED), ZURN "PEX" #C-D3-NSF-PW-CLD-ASTM, IF ALLOWED BY PREVAILING CODES.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL CONDENSATE DRAINS.
- PLUMBING CONTRACTOR TO PROVIDE INDIRECT WASTE AND CONDENSATE PIPING FOR ALL KITCHEN EQUIPMENT.
- IF WATER SOFTENER REQUIRED BY OWNER SHALL SERVE ALL FIXTURES OTHER THAN ICE MACHINES, DRINK SYSTEMS, ICED TEA BREWERS, COFFEE MAKERS, HOSE BIBS, CARBONATORS AND ALL.
- (H) HIGH PRESSURE GAS PIPE SIZES BASED ON 2 PSI DELIVERY PRESSURE WITH A 1PSI DROP IN PRESSURE THROUGH A TOTAL EQUIVALENT LENGTH OF 115 FT.

KEY NOTES

- CONNECT 1 1/2" CW TO SITE CONNECTION. COORDINATE LOCATION WITH CIVIL. VERIFY WATER PRESSURE ON SITE. PROVIDE PRESSURE REDUCING VALVE AS NECESSARY.
- WATER METER REMOTE READOUT LOCATED ON THE EXTERIOR WALL.
- HALF HIGH WALL. NO FULL HEIGHT VERTICAL PLUMBING LINES.
- SURFACE MOUNTED PLUMBING LINES (AFTER WALL FINISH IS APPLIED)
- IF LOCAL GAS PRESSURE REQUIRES A REGULATOR ON THE GAS OPERATED EQUIPMENT, THE PLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL THE GAS REGULATORS AS REQUIRED.
- MAINTAIN CLEARANCE REQUIRED BY CODE BETWEEN THE SANITARY SEWER AND THE WATER LINE.
- PROVIDE 1/2" OD PUSH/PULL FITTING FROM WATER FILTER TO ICE MAKER.
- PROVIDE SHUT-OFF WITH DRAIN MOUNTED AT WATER METER. PIPE TO BE SLOPED AFTER SHUT-OFF VALVE TOWARDS HOSE BIB TO ALLOW FOR DRAINING OF THE PIPE.
- WATER HEATER FLUE AND COMBUSTION AIR VENT THROUGH ROOF SEE DETAIL 8/P4.
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL A SHUT-OFF VALVE AND A STAINLESS STEEL BACKFLOW PREVENTOR AT CARBONATOR.
- PROVIDE ONE MANUALLY OPERATED SHUT-OFF VALVE ON BRANCH GAS PIPING TO APPLIANCES LOCATED ACCESSIBLE ABOVE CEILING TILE.
- QUICK DISCONNECTS AND RETENSION CABLES PROVIDED WITH FRYERS & CHAIN BROILER
- GALVANIZED OR COPPER GAS PIPING UP THROUGH ROOF TO ROOFTOP HVAC EQUIPMENT.
- 3/4" GAS PIPING TO WATER HEATER. SEE DETAIL 8/P4.
- GAS METER (DO NOT MOUNT ON BUILDING EIFS) WITH SHUT-OFF VALVES AND PRESSURE REGULATOR PROVIDED BY THE GAS COMPANY. GAS METER SIZED FOR 1119.2 MBH @ 2 PSI DELIVERY PRESSURE ON BUILDING SIDE OF METER.
- LOCATE FLUSH LEVER ON THIS SIDE OF TOILET PER ADA REQUIREMENTS.
- 5/8" NPT PLASTIC CONDENSATE LINE TO SERVICE SINK SURFACE MOUNT TIGHT TO WALL. SLOPE TO DRAIN.
- PLUMBING CONTRACTOR TO PROVIDE QUICK DISCONNECT AND 3/4" BLACK IRON PIPE FROM FRYER TO USED COOKING OIL RECYCLING TANK. PROVIDE CONSTANT MIN. 1/4" PER FT. SLOPE TO RECYCLING TANK. PROVIDE BACK TO BACK 45° ELBOWS FOR ANY CHANGE IN DIRECTION.
- PLUMBING CONTRACTOR TO MAKE FINAL CONNECTION TO COUNTER RECEPTACLES AFTER COUNTER INSTALLATION.

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ISSUE DATE: 12/31/21

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ORIGINAL ISSUE

PLUMBING WATER SUPPLY PLAN

SHEET NUMBER:

P1

GAS PIPING SCHEMATIC

2

P1

NEW BUILDING FOR:



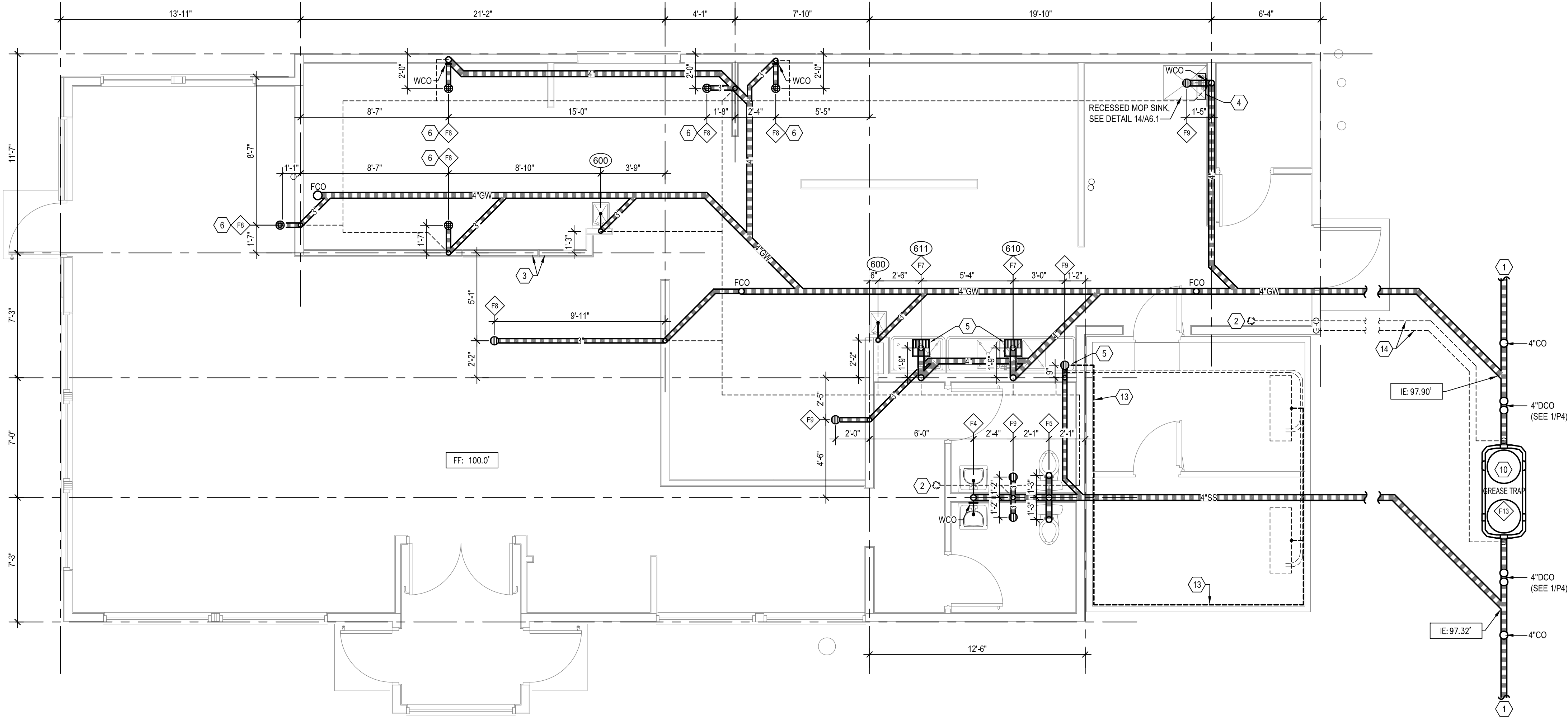
220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
	FLOOR DRAIN
	FLOOR DRAIN W/ FUNNEL
	FLOOR SINK
DCO	DOUBLE CLEAN OUT
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
VTR	VENT THRU ROOF
BFP	BACKFLOW PREVENTER
S.O.V.	SHUT OFF VALVE
	WASTE, BELOW FLOOR
	SYRUP LINES/CHASE, OVERHEAD
	VENT
	FILTERED WATER
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	GAS LINE



1 PLUMBING WASTE AND VENT PLAN
P2 SCALE: 1/4" = 1'-0"

FIXTURE SPECIFICATIONS

- F1 WATER METER: BY GENERAL CONTRACTOR LOCALLY, REMOTE DIGITAL READER COORDINATE LOCATION W/OWNER. SEE DETAIL 6/P4.
- F2 WATER HEATER: SEE SCHEDULE ON P4. 1" CW AND 1" 120 HW. PIPING
- F3 SERVICE SINK FAUCET: T&S BRASS B-0655-BSTP
- F4 WALL MOUNTED LAVATORY WITH CARRIER: SLOAN SS-3003 WHITE 3-HOLE 4" CENTERS, CODE 3873003 -SENSOR ACTIVATED FAUCET; TOTO TEL3LS10MCP WITH 4" CENTERS COVER PLATE: TOTO TN71V100S. -OPEN GRID STRAINER. -STOPS: CHROME PLATED ANGLE STOPS. -DRAIN: CHROME PLATED 17 GAUGE METAL P-TRAP MAINTAIN 29" FROM FLOOR TO TOP OF LAVATORY. PROVIDE A.D.A. WRAP'S ON DRAIN AND WATER SUPPLY LINES.
- F5 WATER CLOSET: TOTO CST74MEB01 (ADA-CST744ELB01) ECO DRAKE E-MAX 1.28 GPF (WHITE) WITH BOLT DOWN TANK LID -TRIP LEVER. VERIFY WITH PLAN -STOP: CHROME PLATED ANGLE STOP SEAT: SOLID PLASTIC ELONGATED OPEN FRONT W/CHECK HINGE (WHITE)
- F6 HOSE BIBB: ZURN ECOTOTROL #Z1320-EZ. ENCASED, NON-FREEZE, ANTI-SIPHON. AUTOMATIC DRAINING. HOSE BIBB INSTALLED AT +18" ABOVE FINISH GRADE.
- F7 FLOOR SINK: ZURN #FD-2370-PV3 WITH 12" PVC TOP
- F8 FLOOR DRAIN W/FUNNEL: ZURN #ZN415-2NL-73 WITH ROUND FUNNEL
- F9 FLOOR DRAIN : ZURN #ZN415-2NH-SB
- F10 REDUCED PRESSURE ZONE BACKFLOW PREVENTER: ZURN #34-375XL, 3/4" FEMALE THREADED BODY NPT CONNECTIONS AND BRONZE STRAINER, LEAD FREE.
- F11 WALL MOUNTED URINAL: SLOAN SU-1009-A UNIVERSAL HIGH-EFFICIENCY -SENSOR FLUSH VALVE: TOTO TEU1UN12RCP-W 0.125 GPF ECOPOWER (HANDS FREE). INCLUDES 3/4" VACUUM BREAKER AND 3/4" ANGLE STOP SET.
- F12 THERMOSTATIC MIXING VALVE FOR RESTROOM FIXTURES: ZURN #12-ZW1017XL-C
- F13 GREASE INTERCEPTOR: SCHIER GB-250 GREASE INTERCEPTOR. VERIFY SIZE WITH LOCAL CODES.
- FCO FLOOR CLEANOUT: ZURN #ZN1400-4NH
- WCO WALL CLEANOUT: ZURN #Z1441

FIXTURE & DRAIN CONNECTION SCHEDULE

NO.	DESCRIPTION	WASTE	VENT	WATER COLD	WATER HOT	GAS	FILTER WATER	REMARKS
F1	WATER METER			1 1/2"				SEE DETAIL SHEET P4
F2	WATER HEATER	3/4" P.R.V.		1"	1"	3/4"		SEE DETAIL SHEET P4
F3	SERVICE SINK FAUCET			3/4"	3/4"			
F4	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"			
F5	WATER CLOSET	3"	2"	1/2"				
F6	HOSE BIB			3/4"				
F7	FLOOR SINK	3"	2"					WITH FUNNEL
F8	FLOOR DRAIN	3"	2"					
F9	FLOOR DRAIN	3"	2"					
F10	BACKFLOW PREVENTER							
F11	URINAL	2"	1 1/2"	3/4"				
F12	MIXING VALVE			3/4"	3/4"			OUTPUT AT 110" FOR RESTROOM FIXTURES
F13	GREASE INTERCEPTOR	4"	4"					

NOTE:

- THIS IS A PROTOTYPICAL SCHEDULE. ALL EQUIPMENT PEICES MAY NOT BE USED.
- ALL FIXTURES PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR.

EQUIPMENT & DRAIN CONNECTION SCHEDULE

NO.	DESCRIPTION	WASTE	VENT	WATER COLD	WATER HOT	GAS	FILTER WATER	REMARKS
161	LOBBY DRINK HEAD W/ ICE DISP.	3/4" ID						INDIRECT DRAIN LINE TO FLOOR DRAIN. B.F.P. AS REQD. BY CODE
310	DT DRINK HEAD W/ ICE BIN	3/4" ID						INDIRECT DRAIN LINE TO FLOOR DRAIN. B.F.P. AS REQD. BY CODE
511	CARBONATOR						1/2"	PROVIDE S.S. DOUBLE CHECK BACKFLOW PROTECTOR
502	OPT. COFFEE MAKER						3/8"	PROVIDE FLEX WATER LINE FROM S.O.V.
203	SOFTSERVE FREEZERS	1/2" ID						AIR COOLER-REMOTE
400	CHAIN BROILER					3/4"		58,000 BTU
403	3-VAT FRYERS					1"		240,000 BTU (VERIFY W/ MFG.)
534	BLAST FREEZER	3/4" ID						INDIRECT WASTE TO FLOOR DRAIN
540	ICE MAKER	3/4" ID						INDIRECT WASTE TO FLOOR DRAIN
541	ICE BIN	3/4" ID						INDIRECT WASTE TO FLOOR DRAIN
545	ICE WATER FILTER						1/2"	
501	OPT. HOT WATER DISP.						1/4"	
600	HAND SINK	1 1/2"	1 1/2"	1/2"	1/2"			
610	SCRUB SINK	2" ID	1 1/2"	3/4"	3/4"			1/2" FLEX WATER LINE AT S.Q.V. & INDIRECT WASTE TO FLOOR SINK
611	VEGETABLE SINK	2" ID	1 1/2"	3/4"	3/4"			1/2" FLEX WATER LINE AT S.Q.V. & INDIRECT WASTE TO FLOOR SINK
620	CORNER SOFTSERVE SCRUB SINK	2" ID	1 1/2"	3/4"	3/4"			1/2" FLEX WATER LINE AT S.Q.V. & INDIRECT WASTE TO FLOOR SINK
650	WATER FILTER SYSTEM			3/4"				SEE DETAIL 7/P4
670	TREAT WORK TABLE	3/4"						INDIRECT DRAIN LINE TO FLOOR SINK

NOTE:

- THIS IS A PROTOTYPICAL SCHEDULE. ALL EQUIPMENT PEICES MAY NOT BE USED.
- EQUIPMENT PROVIDED BY OWNER AND INSTALLED BY PLUMBING CONTRACTOR.

GENERAL NOTES

- ALL FLOOR DRAINS TO BE LEVEL WITH FLOOR, EXCEPT IN THE RESTROOMS.
- REFER TO PLUMBING NOTES ON SHEET P1
- HORIZONTAL DRAINAGE PIPING MUST BE INSTALLED WITH A UNIFORM SLOPE OF 1/4 PER FOOT. WHERE MUNICIPAL SEWER DEPTH, STRUCTURAL FEATURES, OR BUILDING ARRANGEMENT PRECLUDE THIS SLOPE, A MINIMUM SLOPE OF 1/8 INCH PER FOOT MAY BE UTILIZED FOR PIPING 4 INCHES AND LARGER IF APPROVED BY THE AHJ.
- PVC SANITARY SEWERS MUST MEET ASTM DL 785, D2665, D3034, F789, F794, F891, F949, OR F1488 WITH APPROVED FITTINGS (SEE TABLE 701.1 AND INSTALLATION STANDARD 1). ONLY ASTM DL 785, D2665, F891, OR FL488 PVC MAY CROSS ABOVE OR LESS THAN 12 INCHES BELOW POTABLE WATER LINES (SEE SECTION 720.1). SOLVENT WELDED JOINTS MUST USE ASTM F656 PURPLE PRIMER AND ASTM D2564 CEMENT. THE SEWER MUST BE INSTALLED BY OPEN-TRENCH ON A CONTINUOUS GRANULAR BED PER ASTM D2321.
- THE PIPE MATERIAL TO BE USED FOR THE DRAIN WASTE AND VENT SYSTEM MUST COMPLY WITH MINNESOTA RULES, CHAPTER 4714, SECTION 701.0.

KEY NOTES

- CONNECT 4" WASTE LINE TO MAIN. COORDINATE LOCATION WITH CIVIL.
- EXTEND VENT THRU ROOF. MAINTAIN 10'-0" FROM ALL O.A. INTAKES.
- WALLS NOT TO CEILING. NO FULL HEIGHT VERTICAL PIPING ALLOWED.
- ROUTE DRAIN FROM BACKFLOW PREVENTER TO SERVICE SINK.
- INDIRECT DRAIN LINE TO FLOOR SINK.
- INDIRECT DRAIN LINE TO FLOOR DRAIN.
- WATER HEATER PTR VALVE DRAIN LINE TO SERVICE SINK.
- GREASE TRAP, SEE DETAIL 9/P4. VERIFY WITH LOCAL CODE IF REQD.
- DRINK LINES (SYRUP, FILTERED WATER & CO2 BUNDLE) OVERHEAD FROM LOCATIONS SHOWN. LINES REQUIRE SWEEPING AND MINIMAL BENDS. WHEN PENETRATING METAL FRAMING, GROMMETS MUST BE USED TO PROTECT LINES FROM DAMAGE. LOCATIONS SHOWN ARE ILLUSTRATIVE. CHASES SHOULD BE CONFIGURED AS DIRECT AND WITH AS FEW BENDS AS POSSIBLE. INSULATION MAY BE REQUIRED. VERIFY WITH VENDOR. DRINK LINES SURFACE MOUNTED TO FACE OF WALL, S.S. COVER PROVIDED BY VENDOR
- GREASE TRAP, SEE DETAIL 9/P4. VERIFY REQUIREMENTS WITH LOCAL CODES.
- MAINTAIN CLEARANCE REQ'D BY CODE BETWEEN SANITARY SEWER AND WATER LINE UNDERGROUND.
- DRINK LINES (SYRUP, MISTY SYRUP, FILTERED WATER, & CO2 BUNDLE) OVERHEAD FROM LOCATIONS SHOWN. LINES REQUIRE SWEEPING AND MINIMAL BENDS. WHEN PENETRATING METAL FRAMING, GROMMETS MUST BE USED TO PROTECT LINES FROM DAMAGE. LOCATIONS SHOWN ARE ILLUSTRATIVE. CHASES SHOULD BE CONFIGURED AS DIRECT AND WITH AS FEW BENDS AS POSSIBLE. INSULATION MAY BE REQUIRED. VERIFY WITH VENDOR. G.C. TO PROVIDE 2" PVC CHASE INSIDE WALL TO 48" AFF BEHIND MISTY MACHINE.
- CONDENSATE DRAIN LINE (1/2" COPPER). MOUNT TIGHT TO WALL AND SLOPE TO DRAIN. DRAIN LINE MUST BE WRAPPED WITH A HEAT TAPE AND INSULATED WITHIN THE WALK-IN FREEZER.
- VENT PIPING BELOW GRADE

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ORIGINAL ISSUE



PLUMBING
WASTE & VENT
PLAN

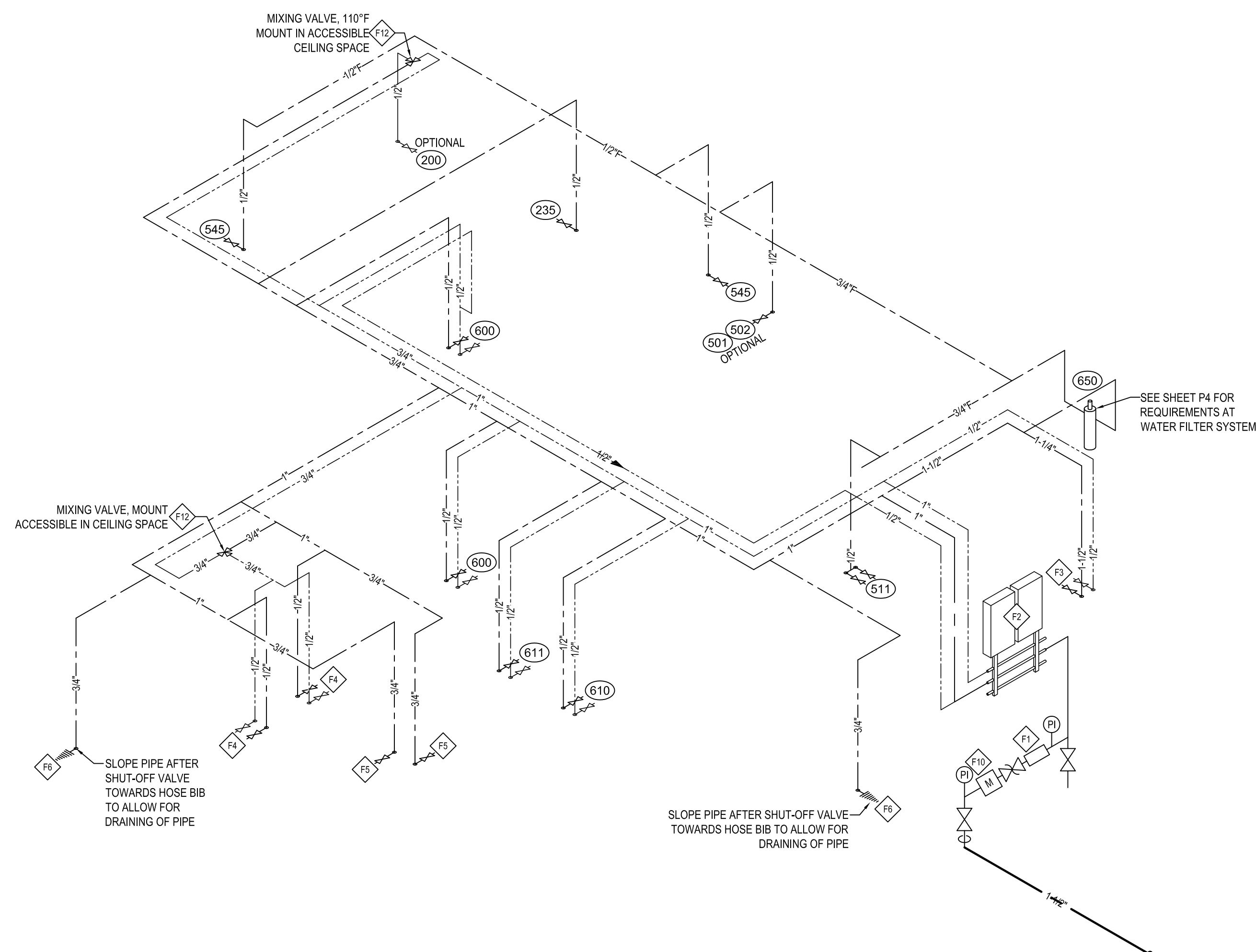
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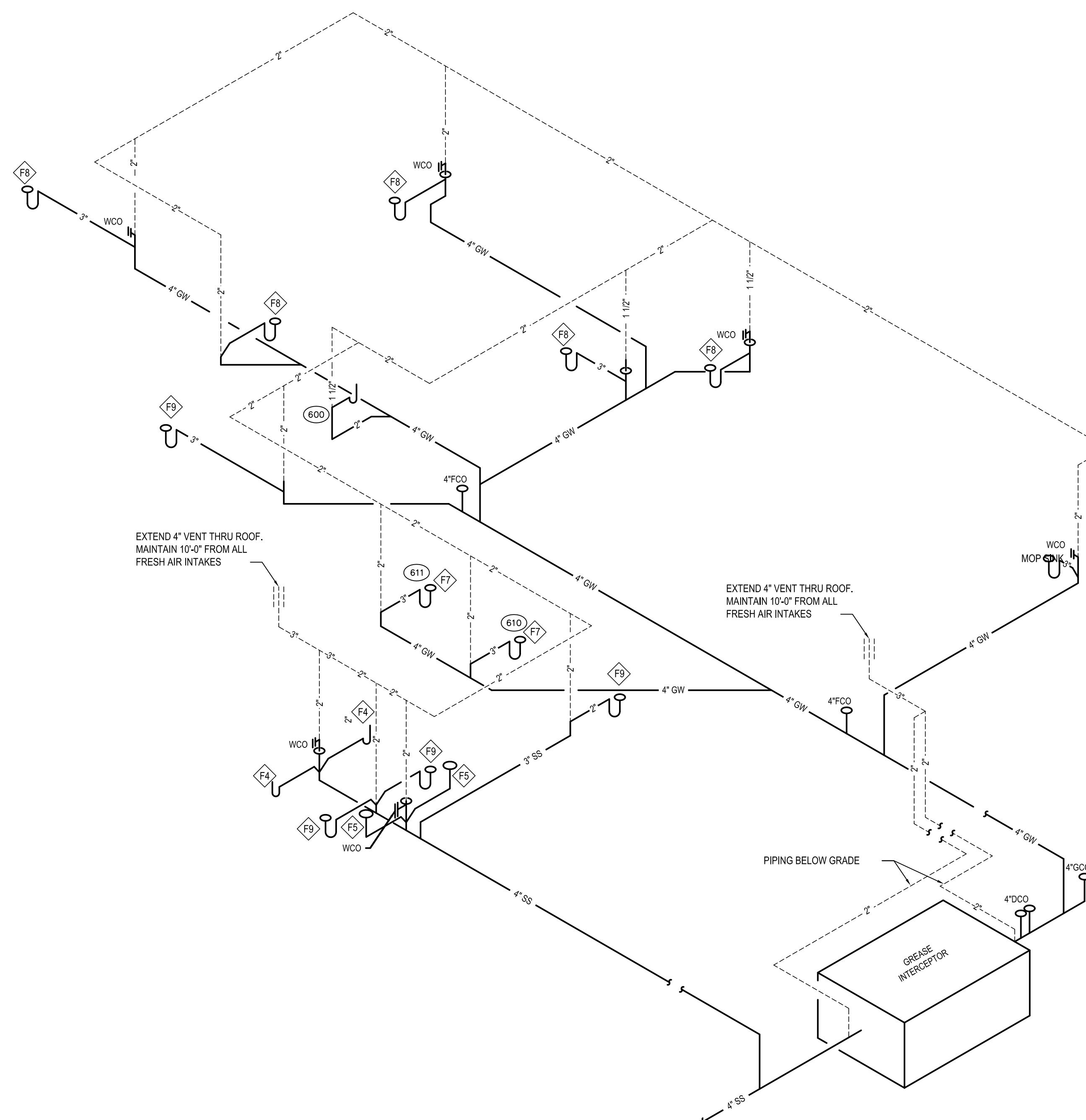


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MINNEAPOLIS, MN U.S.A.

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PLUMBING WATER RISER DIAGRAM



2 PLUMBING WASTE RISER DIAGRAM

SPECIAL NOTICES

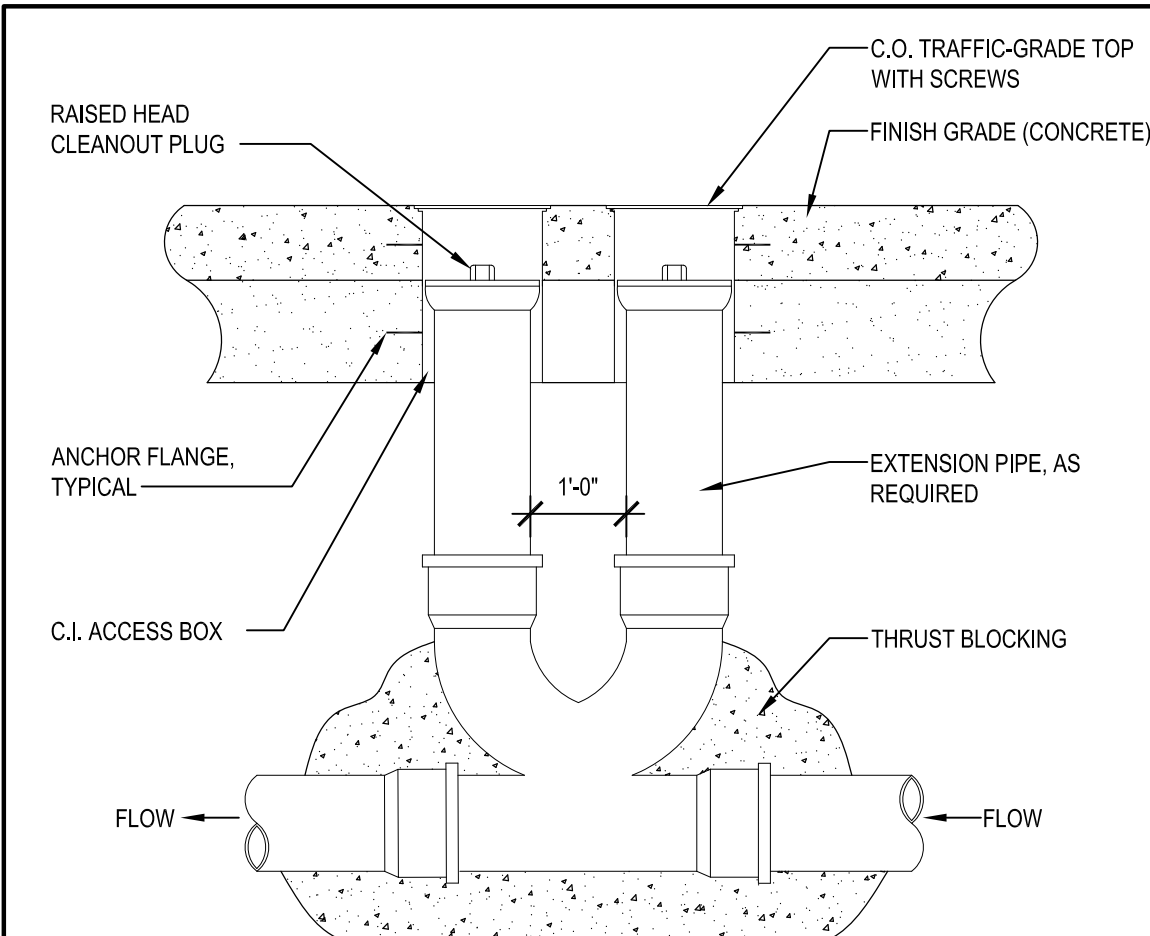
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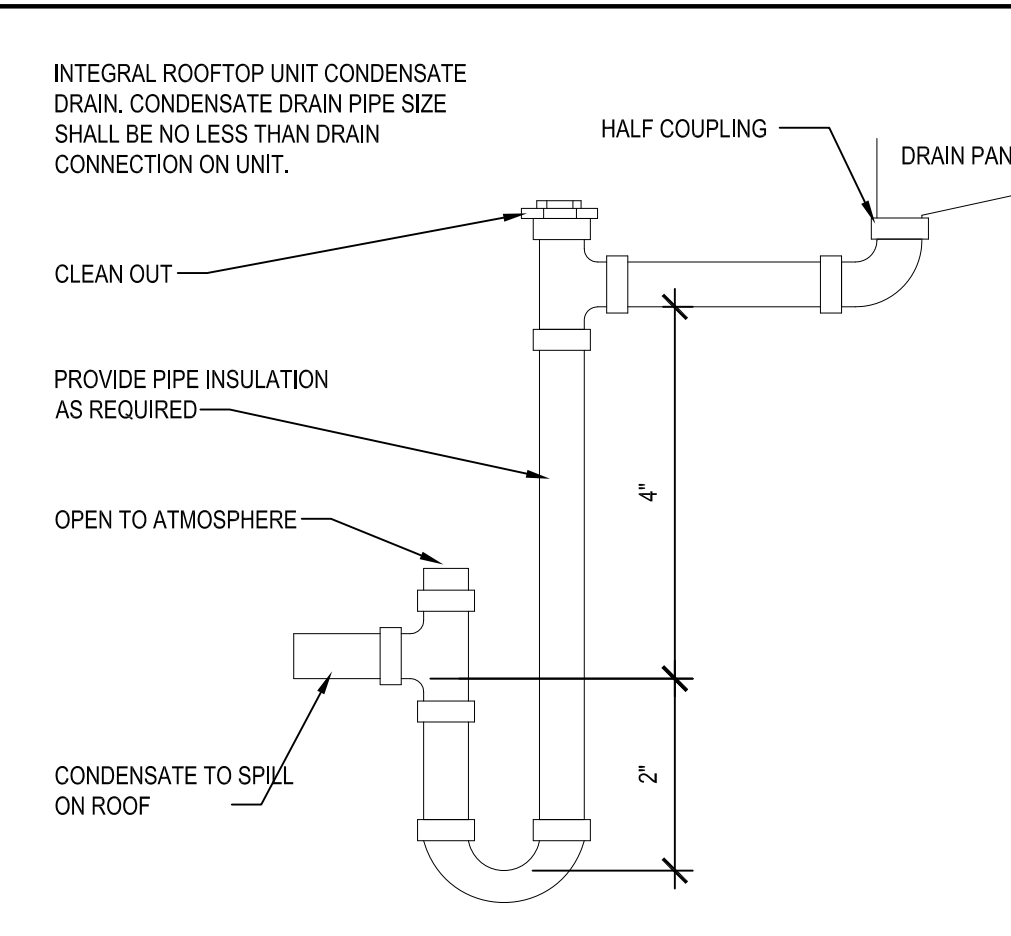
PLUMBING RISER DIAGRAMS

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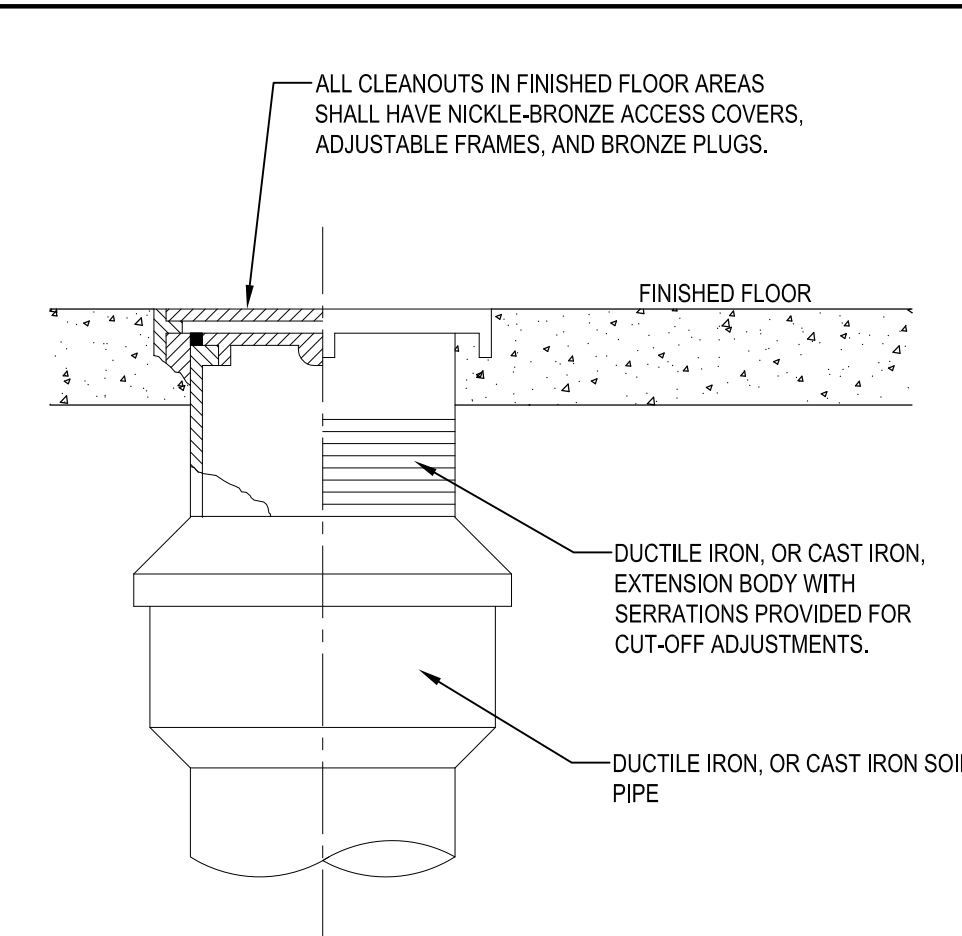
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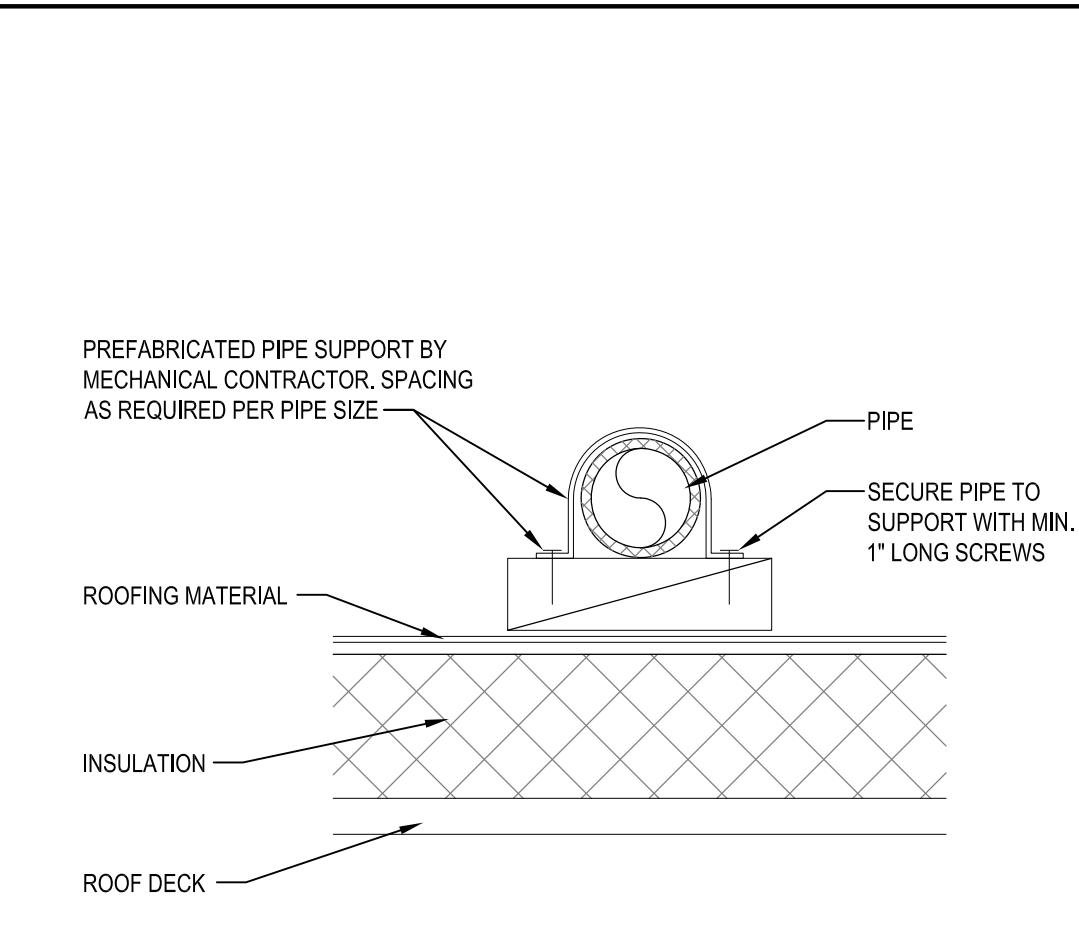
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P4



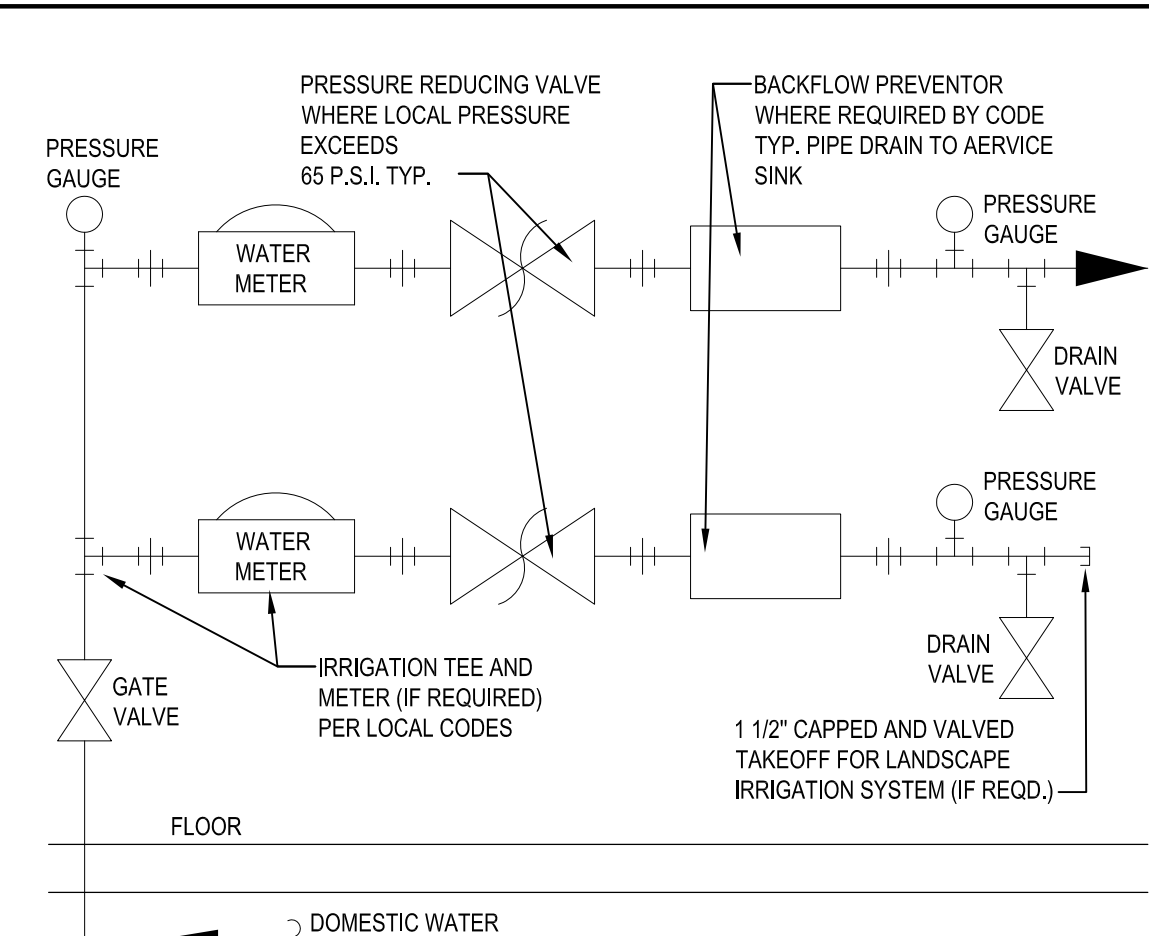
2 CONDENSATE DRAIN DETAIL
P4



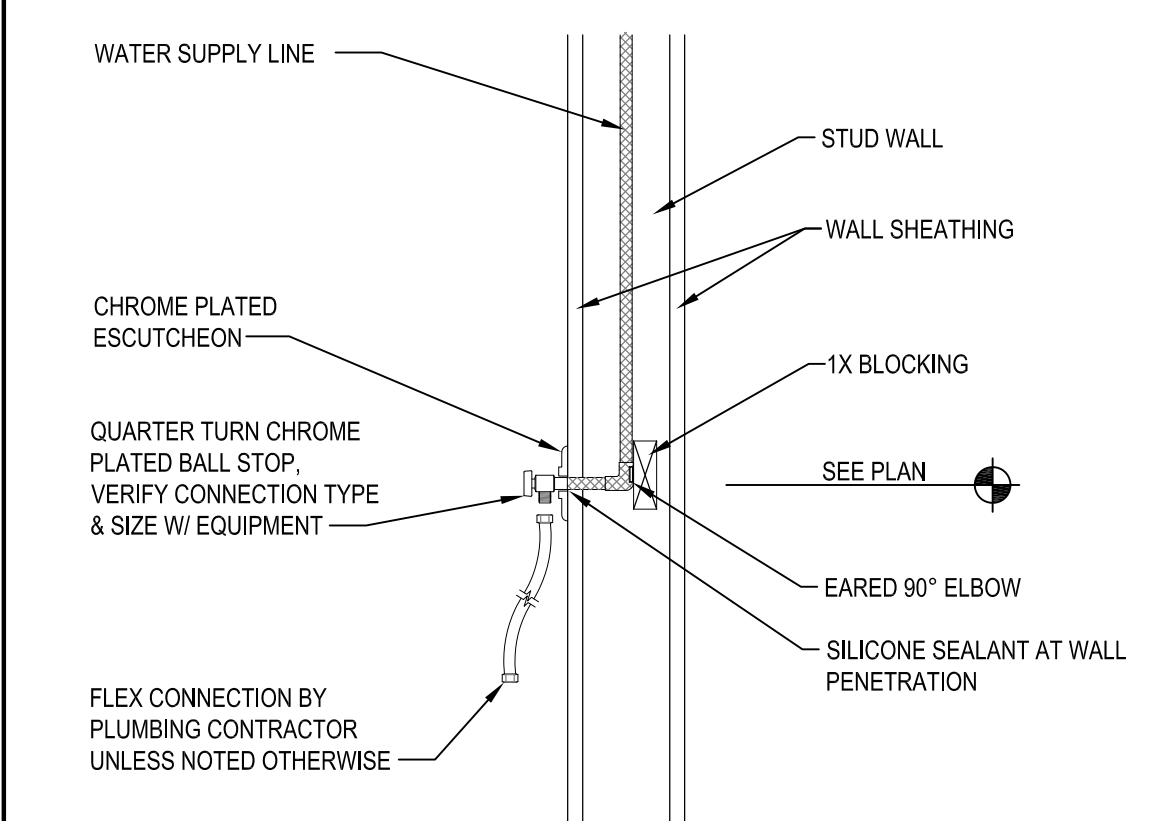
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P4



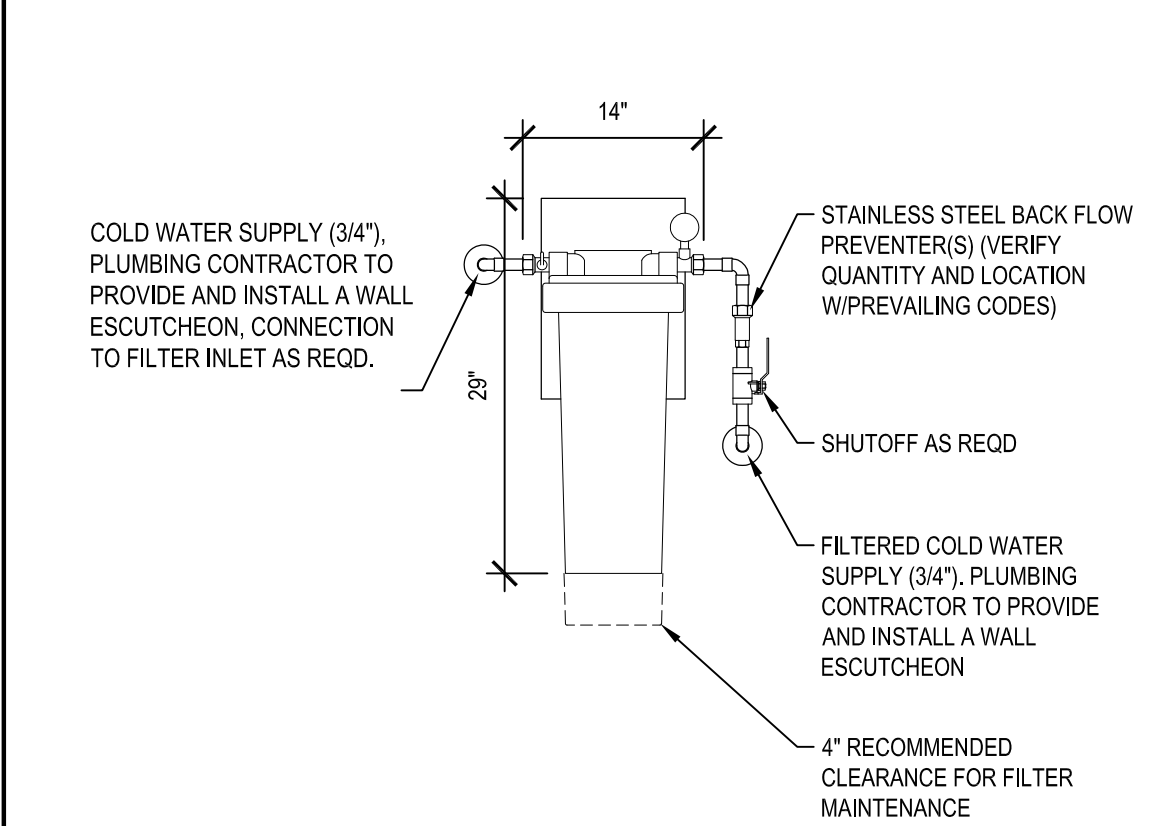
4 ROOF PIPE SUPPORT DETAIL
P4



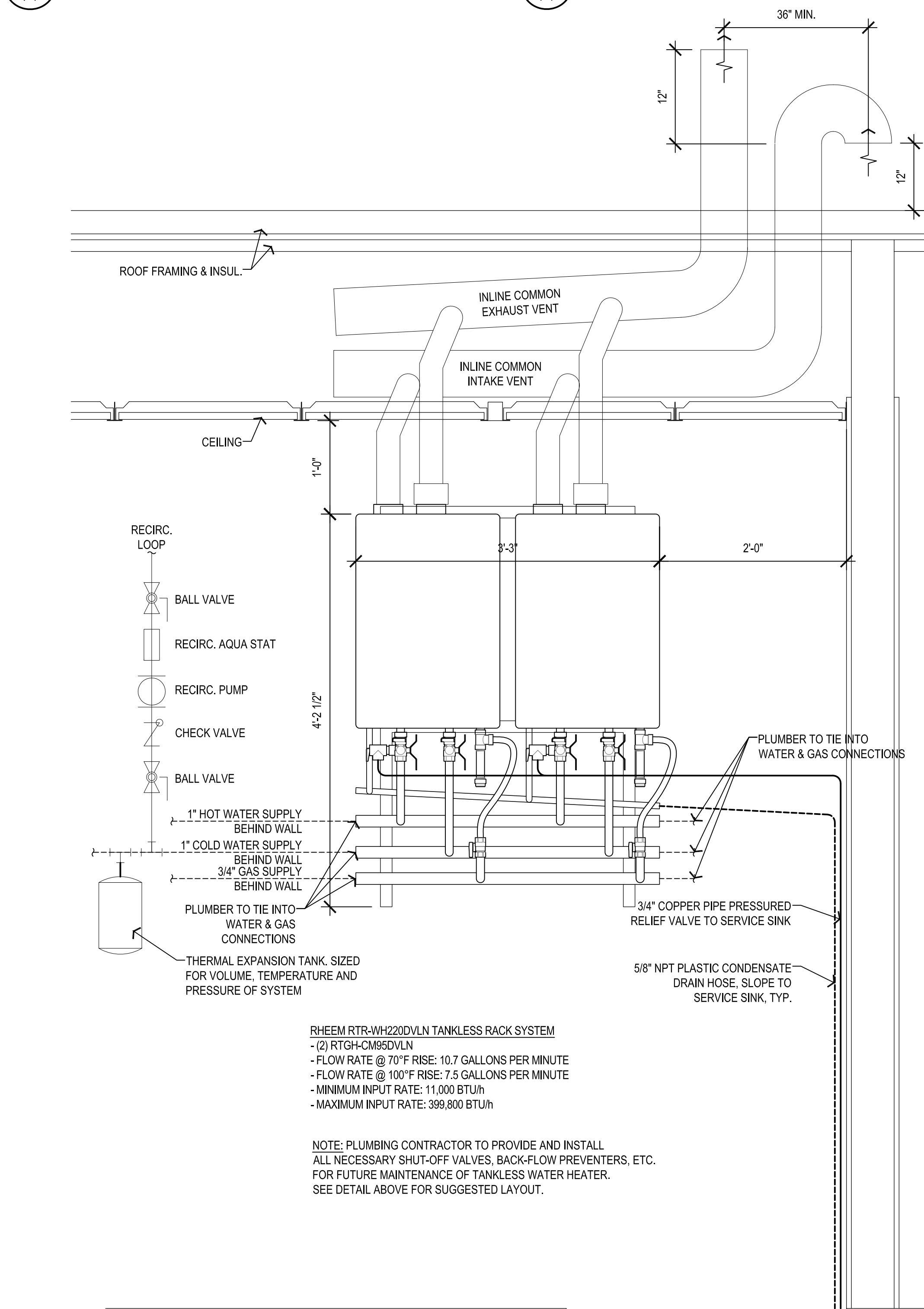
5 WATER METER DETAIL
P4



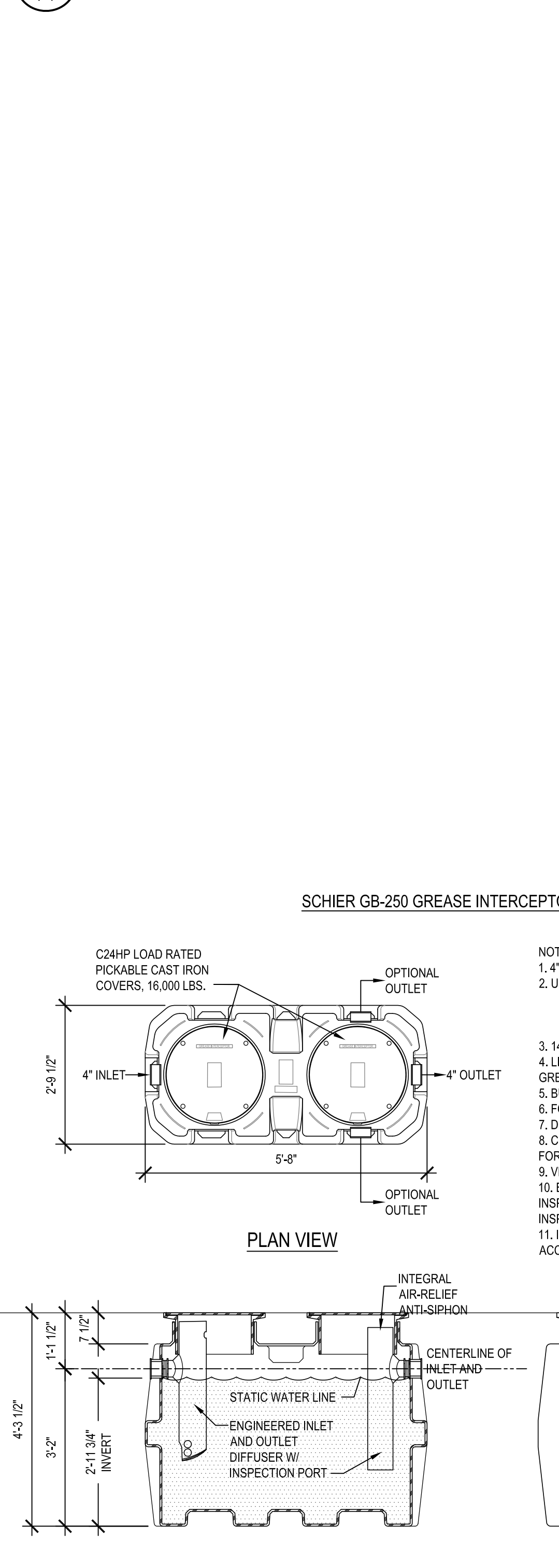
6 TYP. WATER SUPPLY CONN.
P4




7 WATER FILTER DETAIL
P4



8 TANKLESS WATER HEATER DETAIL
P4



9 GREASE TRAP DETAIL
P4



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
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PLUMBING DETAILS

SHEET NUMBER:

P4

NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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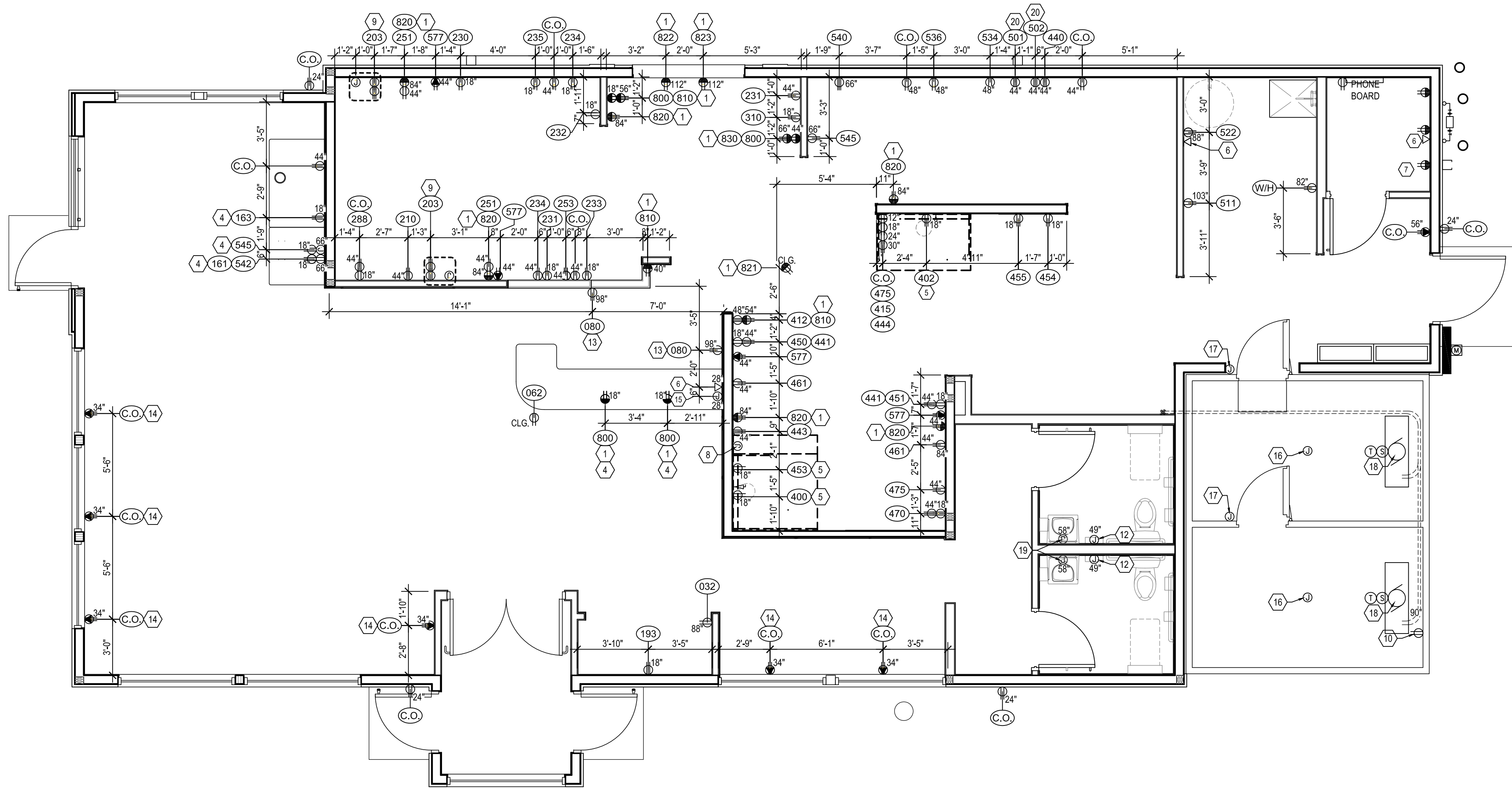
ELECTRICAL ROUGH-IN PLAN

SHEET NUMBER:

E1.2

ROUGH-IN PLAN

E1.2 SCALE: 1/4" = 1'-0"



GENERAL NOTES: APPROVED VENDOR: SSDI, SEE NATIONAL VENDORS LIST

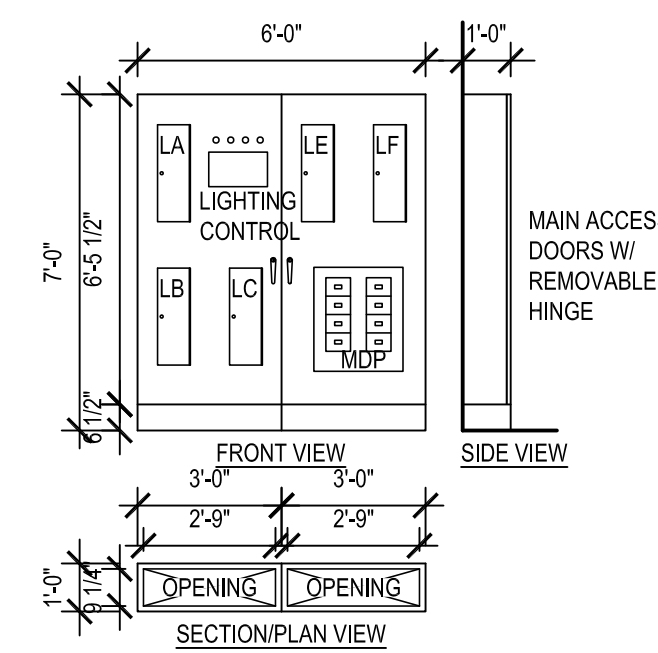
- WHERE APPLICABLE, ALL PANELBOARDS AND TRANSFORMERS WILL BE FACTORY INSTALLED AND CABLED WITH N.E.C. SIZED CONDUCTORS. SEE THE ONE-LINE DIAGRAM FOR DETAILS. THE CONTRACTOR WILL BE REQUIRED TO MAKE ALL FINAL TERMINATIONS FOR PROPER TORQUE.
- WHERE APPLICABLE, ALL PANELBOARDS WILL BE RECESS MOUNTED IN THE INTEGRATED SWITCHBOARD TO ALLOW FOR TOTAL FRONT ACCESS. A DEDICATED PANELBOARD WIREWAY IS ALSO PROVIDED.
- WHERE FACTORY INSTALLED CABLING OCCURS BETWEEN INTEGRATED SWITCHBOARD SHIPPING SPLITS, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE FIELD TERMINATION OF THE CABLES. SEE ELEVATION VIEW DRAWINGS FOR SHIPPING SPLIT INFORMATION.
- EACH INTEGRATED SWITCHBOARD SHIPPING SPLIT WILL BE PALLETIZED AND SHIPPED IN AN ENCLOSED SEMI-TRAILER. WHERE APPLICABLE, THE CONTRACTOR SHALL ARRANGE FOR A FORK TRUCK TO UNLOAD AND SET THE EQUIPMENT IN PLACE. 24-HOUR NOTICE WILL BE GIVEN PRIOR TO DELIVERY.
- ENGINEER OF RECORD SHALL VERIFY AVAILABLE SHORT-CIRCUIT CURRENT AND ADJUST INTERRUPTING CAPACITIES OF PANELBOARDS AS REQUIRED TO MEET CODE.
- THE E.C. SHALL PROVIDE ALL CUTTING, TRENCHING, BACK-FILLING AND PATCHING AS REQUIRED AND SHALL BE INCLUDED AS PART OF THE E.C.'S WORK.
- AN INTEGRATED SWITCHBOARD SHALL BE USED FOR THE STORE. INTEGRATED SWITCHBOARD SUPPLIER SHALL COORDINATE SWITCHBOARD LAYOUT, WIREWAYS, EQUIPMENT, AND ALL EQUIPMENT DIMENSIONS WITH THE ELECTRICAL CONTRACTOR BEFORE BUILDING INTEGRATED SWITCHBOARD. THE E.C. SHALL WORK WITH THE INTEGRATED SWITCHBOARD SUPPLIER SO THAT THE INTEGRATED SWITCHBOARD IS CORRECT AND WILL FIT INTO PLACE MEETING ALL N.E.C. CODES BEFORE SHIPPING EQUIPMENT. THE E.C. SHALL COORDINATE ALL CONDUITS AND WIRING INSTALLATION BEFORE ROUGH-IN TO ENSURE THAT THE CONDUITS AND WIRING ARE CORRECT FOR THE INTEGRATED SWITCHBOARD. 1/8" NOTE: ANY ADJUSTMENTS OR CHANGES WILL BE THE SOLE RESPONSIBILITY OF THE %%%E.C. AT NO COST TO THE OWNER.
- THE E.C. SHALL RETORQUE AND RETIGHTEN ALL PANELBOARDS, MDP, BREAKERS AND DISCONNECTS PER MANUFACTURER'S SPECIFICATIONS BEFORE POWER IS TURNED ON. VERIFY THAT CIRCUIT BREAKER PLACEMENTS IN PANELBOARDS AS SHIPPED TO THE JOB SITE MATCH PANEL SCHEDULES. IF NOT, REARRANGED CIRCUIT BREAKERS AS REQUIRED. LABEL AND IDENTIFY ALL LOADS IN MDP AND PANELBOARD DIRECTORIES. VERIFY ALL LOADS SHOWN, AND REPORT ANY CONFLICTS TO THE ENGINEER.
- INTEGRATED SWITCHBOARD IS SEISMIC RATED

CAUTION - SERIES COMBINATION SYSTEM
RATED 65,000 AMPERES. IDENTIFIED
REPLACEMENT COMPONENTS REQUIRED.

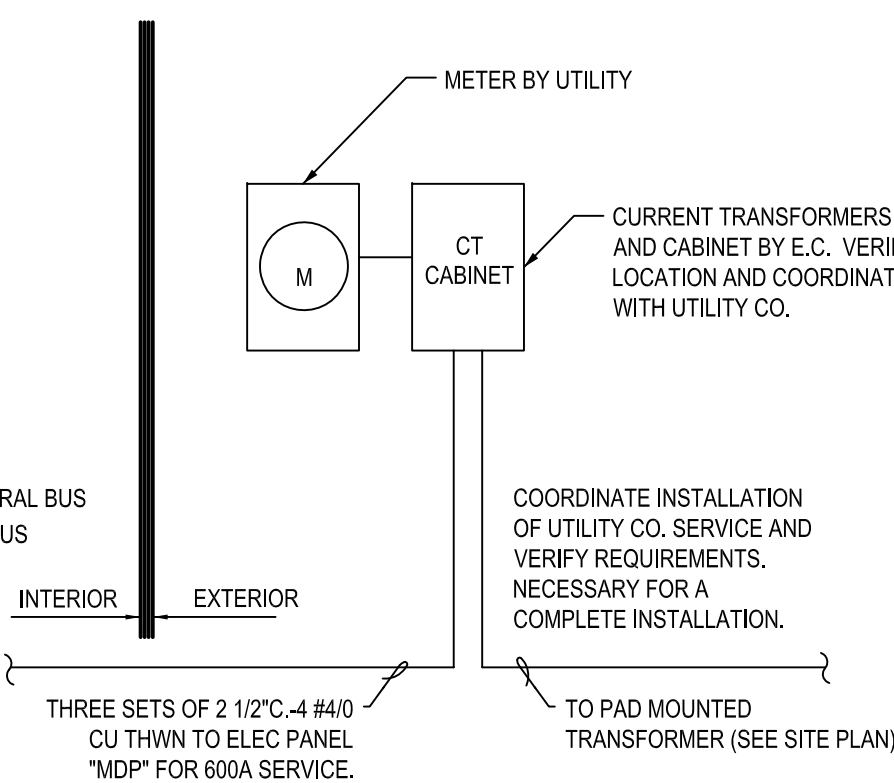
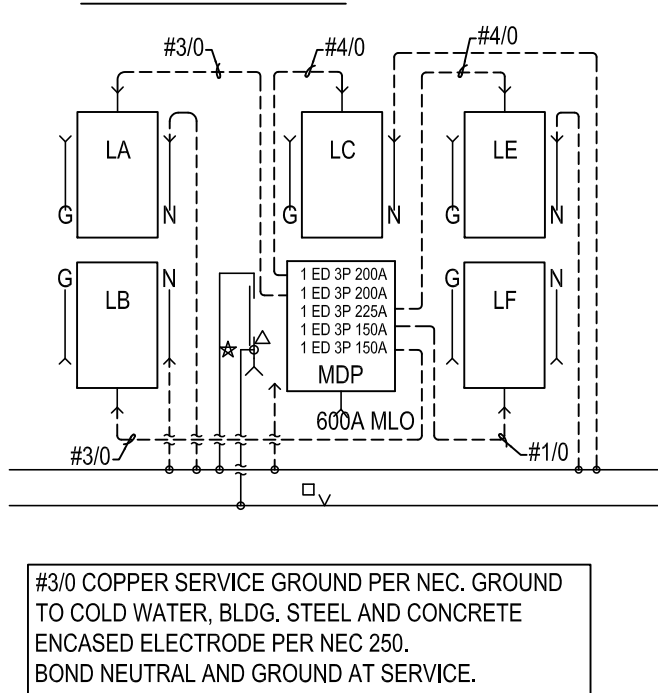
LEGEND

- ▲ - NEUTRAL DISCONNECT LINK
- - NEUTRAL TO GROUND CONNECTION
- - GROUND LUG
- ◇ - TERMINAL(S)
- - BUS LOCATION
- B.L. - BUS LOCATION
- - CABLE INSTALLED BY MANUFACTURER
- - CONTRACTOR SUPPLIED & INSTALLED

SERVICE VOLTAGE 208Y/120V 3 PHASE 4 WIRE
MAIN BUS 600A NEUTRAL BUS 600A CU BUS MAIN
LUGS (3) #6-350 MCM 1-350MCM GROUND LUG
SUPPLIED AS STANDARD BUS BRACING 65KA
SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT
NEMA-1 ENCLOSURE FINISH RAL 7035 SWBD
ESTIMATED WEIGHT: 900 LBS PER SECTION



ELECTRICAL ONE LINE DIAGRAM



GENERAL NOTES

- ALL EQUIPMENT SHALL BE WIRED TO PANEL AND CIRCUIT NUMBER SHOWN. PROVIDE ELECTRICAL CONDUIT TO PANEL IS PREFERRED. MC CABLE ONLY IF LOCAL CODES ALLOW (TYPICAL UNLESS SHOWN OTHERWISE).
- ELECTRICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL CONVENIENCE OUTLETS PER TENANT/OWNER, AT TENANT/OWNER'S EXPENSE.
- IN ALL KITCHEN AREAS, ALL RECEPTACLES SHALL BE GFCI PER 2017 NEC SECTION 210.8(B)(3).
- VERIFY LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL ROOF TOP EQUIPMENT BEFORE ROUGH-IN AND COORDINATE WORK WITH OTHER TRADES.
- PROVIDE WHITE OUTLETS W/ WHITE PLATE IN DINING AREA
- PROVIDE WHITE OUTLET W/ S.S. PLATE IN KITCHEN AREA
- ALL DIMENSIONS & HEIGHTS ARE TO CENTER OF OUTLET

KEY NOTES

- CASH REGISTER/VIDEO MONITOR SYSTEM: WIRING FOR CASH REGISTER/VIDEO MONITOR SYSTEM SHALL BE IN SEPARATE CONDUIT FROM OTHER SYSTEMS AND SHALL HAVE INSULATED/ISOLATED GROUND CONDUCTORS. RECEPTACLES SHALL BE NEMA 5-20R/15. E.C. SHALL VERIFY WITH OWNER/TENANT ALL WIRING RELATED TO CASH REGISTERS AND VIDEO MONITORS FOR ANY CHANGES OR ADDITIONS BASED ON ACTUAL UNITS USED.
- ROOF TOP RECEPTACLES: ELECTRICAL CONTRACTOR TO PROVIDE AND WIRE COMPLETE GFI/WP RECEPTACLE AT OR NEAR ROOF TOP EQUIPMENT.
- THIS IS A WALL THAT IS NOT FULL HEIGHT, ALL CONDUIT MUST BE ROUTED AROUND THE OPENING OR BE RUN UNDERGROUND.
- E.C. TO MAKE FINAL CONNECTION TO COUNTER RECEPTACLES AFTER COUNTER INSTALLATION.
- EQUIPMENT BENEATH HOODS SHALL HAVE SHUNT TRIP BREAKERS INTERLOCKED WITH FIRE EXTINGUISHING SYSTEM. E.C. TO PROVIDE 120V POWER FOR CONTROLS. SEE PANEL SCHEDULE E4.
- E.C. TO PROVIDE AN EMPTY BOX AND 1/2" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE FOR PHONE SERVICE. COORDINATE ADDITIONAL PHONE SERVICE LOCATIONS PER OWNER'S REQUEST. FINAL TERMINATION OF PHONE JACKS BY COMMUNICATIONS CONTRACTOR.
- AT THIS LOCATION, E.C. TO PROVIDE PROPERLY SIZED SERVICES FOR THE FOLLOWING ITEMS: 120V/1PH - COMPUTER; 120V/1PH - MONITOR; 120V/1PH - PRINTER/FAX; 120V/1PH ADDING MACHINE; 120V/1PH - CONVENIENCE OUTLET; 120V/1PH WITH ISOLATED AND INSULATED GROUND FOR POS SYSTEM; JUNCTION BOX(ES) - TELEPHONE/DATA LINES; OPEN JUNCTION BOXES FOR STORE SECURITY SYSTEM; OPEN JUNCTION BOXES FOR STORE MUSIC/PAGING SYSTEM.
- ANSUL SYSTEM: E.C. TO PROVIDE JUNCTION BOX AND (1) 20A CIRCUIT FOR ANSUL SYSTEM CONNECTION. VERIFY ALL REQUIREMENTS WITH OTHER TRADES BEFORE ROUGH-IN.
- SERVICE FOR THE CONDENSING UNIT COMES FROM THE SOFTSERVE FREEZER (J BOX ON BACKSIDE OF THE SOFTSERVE FREEZER. SEE DETAIL 3/E1 & 3/E1). ALSO PROVIDE A 10 AMP, 2 POLE DISCONNECT SWITCH AT THE ROOF MOUNTED CONDENSING UNIT. (1) SG 122 +GROUND WIRE PER BARREL. CLEARLY LABEL EACH LINE WITH UNIT LETTER AND BARREL NUMBER (A1,A2,B1,B2) AT UNIT & AT ROOF.
- E.C. TO PROVIDE JUNCTION BOX, TOGGLE SWITCH, RECEPTACLE, AND HEAT TAPE FOR DRAIN LINE. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE POWER TO KITCHEN FAN CONTROL CENTER, SEE SHEET M4.
- ELECTRIC HAND DRYER PROVIDED BY G.C., INSTALLED BY E.C. INSTALL PER MANUFACTURES RECOMMENDATIONS.
- MENU BOARD OUTLETS TO BE INSTALLED HORIZONTAL
- USB RECEPTACLES, LEGRAND PASS & SEYMOUR FED SPEC TAMPER-RESISTANT SINGLE RECEPTACLE WITH USB CHARGING (TR5261USB), 15 AMP/125V, NEMA 5-15R, WHITE UNIT WITH WHITE PLATE
- COUNTER LIGHTING 'X'K, ELECTRICAL CONTRACTOR TO PROVIDE POWER TO JUNCTION BOX. VERIFY LIGHTING SUPPLIER WITH MILLWORK CONTRACTOR. SEE MILLWORK PLANS AND LIGHTING SCHEDULE.
- WALK-IN LIGHTING PROVIDED BY WALK-IN MFG. INSTALLED BY ELEC. CONTRACTOR, COORD. POWER REQMTS.
- WALK-IN DOOR PANEL CONTROLS PROVIDED BY WALK-IN MFG. INSTALLED BY ELEC. CONTRACTOR, COORD. POWER REQMTS.
- ELECTRICAL CONTRACTOR REFER TO MFG. WIRING DIAGRAM FOR INFORMATION ON WIRING CONTROLS PROVIDED BY MFG.
- HALO-LIT MIRROR. ELECTRICAL CONTRACTOR TO TIE INTO RESTROOM LIGHTING CONTROLS, SEE LIGHTING PLAN.
- OPTIONAL EQUIPMENT. COORDINATE WITH FRANCHISEE AND EQUIPMENT VENDOR.

ELECTRICAL SERVICE DIAGRAM

E1.2

NEW BUILDING FOR:

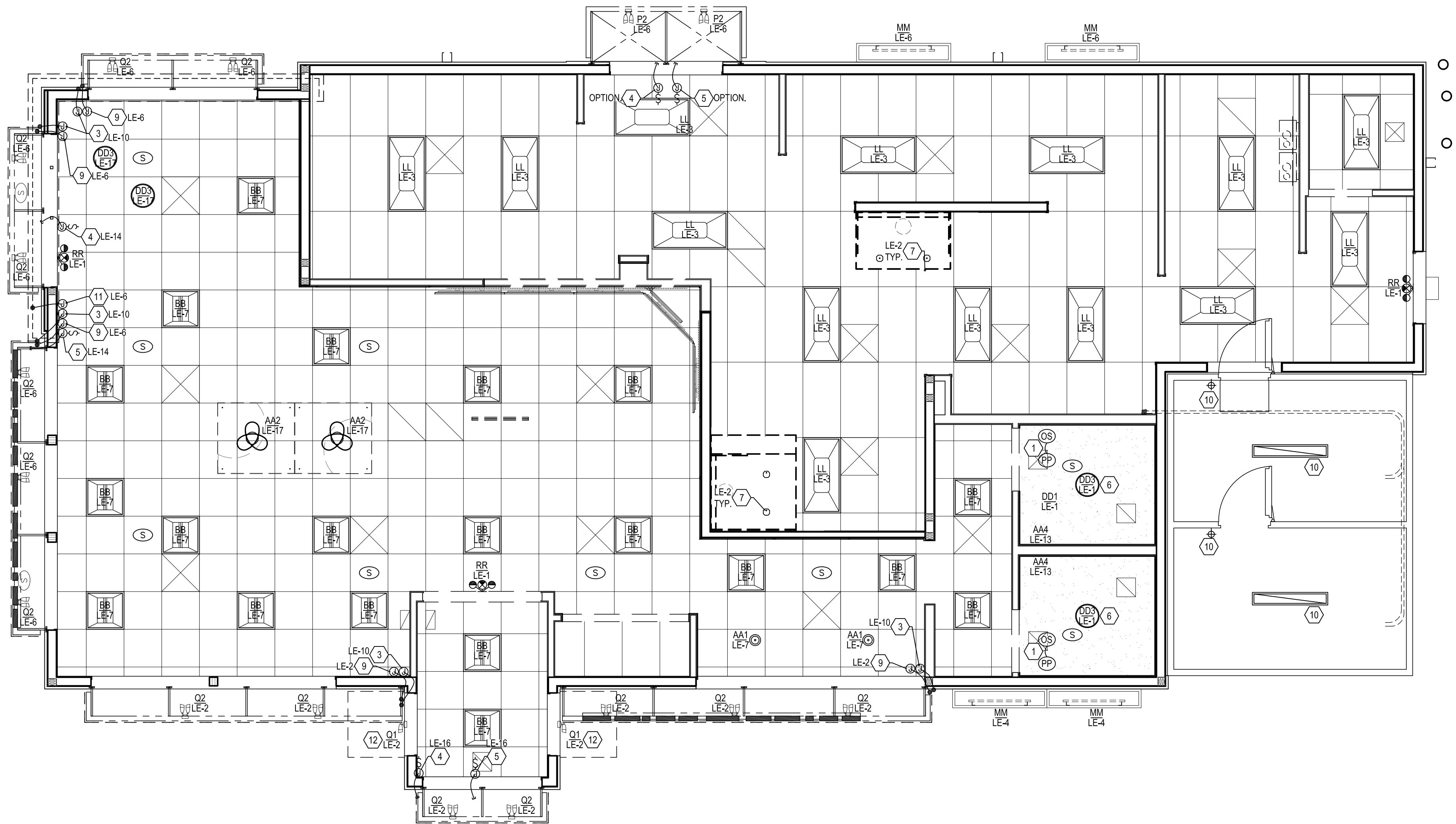


220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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1 LIGHTING PLAN

E2 SCALE: 1/4" = 1'-0"

ELECTRICAL LEGEND

SYM	DESCRIPTION
	SPECIAL PURPOSE OUTLET (COMBO WALL USB CHARGER) - FLUSH MOUNT (15 AMP RATED)
	DUPLEX RECEPTACLE OUTLET - FLUSH MOUNT (20 AMP RATED)
	208 VOLT RECEPTACLE - FLUSH MOUNTED
	ISOLATED GROUND RECEPTACLE (NEMA 5-20R-1G)
	JUNCTION BOX - FLUSH MOUNT
	DISCONNECT SWITCH
	PHONE
	SPEAKER FIXTURE
	SINGLE POLE SWITCH
	UNDERGROUND CONDUIT
	CONDUIT HOME RUN TO PANEL "LF" WITH CIRCUIT 7
	PANEL "LE" AND CIRCUITS 8 THROUGH 18 (I.E., CIRCUITS 8, 10, 12, 14, 16 AND 18)

ABBREVIATIONS

SYM	DESCRIPTION
WP	WEATHER PROOF
F.B.O.	FURNISHED BY OTHERS
U.G.	UNDERGROUND
HP	HORSE POWER
W.I.C.	WALK-IN COOLER
FTRONS	FUSETRONS
SAF.SW.	SAFETY SWITCH
C.	CONDUIT
A.F.G.	ABOVE FINISHED GROUND
A.H.J.	AUTHORITY HAVING JURISDICTION

GENERAL NOTES

- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL GENERAL LIGHTING AS SHOWN.
- EMERGENCY BATTERY LIGHTING SHALL PROVIDE A UNIFORMLY DISTRIBUTED MINIMUM 1.0 FOOT CANDLE AVERAGE ILLUMINATION AT FLOOR LEVEL FOR PATH OF EGRESS. PROVIDE ADDITIONAL EMERGENCY LIGHTING AND INCLUDE IN YOUR BID IF REQUIRED BY AUTHORITY HAVING JURISDICTION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING LOCATIONS OF LIGHT FIXTURES WITH STRUCTURAL JOIST LOCATIONS, MECHANICAL DUCT WORK, AND EQUIPMENT BEFORE STARTING WORK.
- REFER TO SHEET E6 LIGHTING CONTROL DIAGRAM FOR LIGHTING CONTROLS.

KEY NOTES

THESE NOTES ARE PROTOTYPICAL, NOT ALL KEYNOTES MAY BE USED

- RESTROOM LIGHTING CIRCUITS: ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL MOTION AND SOUND ACTIVATED SENSORS IN EACH RESTROOM. UNIT TO BE A "CM-PDT" WITH A "PP-20" POWER PACK, WITH ALL REQUIRED ACCESSORIES.
- ELECTRICAL CONTRACTOR TO PROVIDE SEPARATE DEDICATED CONTROLS FOR DINING ROOM RECESSED AND LAY-IN LIGHTS WITHIN INDICATED BOUNDARY.
- EE' LED STRIP LIGHT: ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A JUNCTION BOX IN AN ACCESSIBLE AREA ABOVE THE FINISHED CEILING AND MAKE ALL CONNECTIONS REQUIRED TO PROPERLY INSTALL LED. PROVIDE THRU-WALL CONNECTION FROM LED TO JUNCTION BOX, ALL CONNECTIONS, WALL PENETRATIONS, ETC. MUST BE WATERTIGHT AND COMPLY WITH PREVAILING CODES.
- E.C. TO PROVIDE JUNCTION BOX WITH DISCONNECT SWITCH IN ACCESSIBLE CEILING SPACE AND RUN 12' FLEXIBLE SEAL TIGHT CONDUIT THROUGH EXTERIOR WALL TO SIGNAGE CONNECTION POINT AFTER SIGN HAS BEEN INSTALLED. FIELD VERIFY BEST MOUNTING LOCATION FOR JUNCTION BOX AND SIGN REQUIREMENTS WITH SIGN SUPPLIER AND ARCHITECTURAL DRAWINGS. MAKE FINAL CONNECTION AS REQUIRED.
- E.C. TO PROVIDE JUNCTION BOX WITH DISCONNECT SWITCH IN ACCESSIBLE CEILING SPACE AND RUN 12' FLEXIBLE SEAL TIGHT CONDUIT THROUGH EXTERIOR WALL AND OUTRIGGER FRAMES TO CHANNEL LETTER SIGNAGE CONNECTION POINT AFTER SIGN HAS BEEN INSTALLED. FIELD VERIFY BEST MOUNTING LOCATION FOR JUNCTION BOX AND SIGN REQUIREMENTS WITH SIGN SUPPLIER AND ARCHITECTURAL DRAWINGS. MAKE FINAL CONNECTION AS REQUIRED.
- FIXTURES DENOTED "EM" TO INCLUDE EMERGENCY BALLAST. BALLAST TO PROVIDE FULL OUTPUT. FIXTURES SHALL BE CONNECTED AHEAD OF ANY SWITCHES.
- EXHAUST HOOD LIGHTING FIXTURE(S) PART OF HOOD PACKAGE, FINAL ELECTRICAL CONNECTION BY ELECTRICAL CONTRACTOR.
- "MOOD" MUSIC SYSTEM PACKAGE INCLUDES: SPEAKERS, RECEIVER, CABLING AND INSTALLATION AND IS PROVIDED BY THE OWNER AND INSTALLED BY MUZAK SYSTEM INSTALLER. SEE NATIONAL VENDORS LIST FOR SYSTEM NATIONAL ACCOUNT PRICING & INSTALLATION COORDINATION. INTERIOR CEILING MOUNTED (MATCH CEILING COLOR) AND EXTERIOR BACK SIDE OF EYEBROW MOUNTED (BLACK) SPEAKER LOCATIONS.
- E.C. TO PROVIDE JUNCTION BOX LOCATED IN ACCESSIBLE CEILING SPACE AND FLEXIBLE SEAL TIGHT CONDUIT THROUGH EXTERIOR WALL/OUTRIGGER FRAMES TO UP LIGHTS AND DOWN LIGHTS MOUNTED ON OUTRIGGER FRAME SYSTEM AFTER FRAME HAD BEEN INSTALLED. E.C. TO COORDINATE MOUNTING WITH OTHER TRADES FOR BEST MOUNTING AND ROUTING OF CONDUIT.
- WALK-IN COOLER/FREEZER LIGHTING PROVIDED BY WALK-IN MANUFACTURER, INSTALLED BY ELECTRICAL CONTRACTOR.
- GG' LED LIGHT MODULES: E.C. TO PROVIDE JUNCTION BOX WITH DISCONNECT SWITCH IN ACCESSIBLE CEILING SPACE AND RUN 3' FLEXIBLE SEAL TIGHT CONDUIT THROUGH TOWER ALPOLIC CORNICE TO LED MODULES. FIELD VERIFY BEST MOUNTING LOCATION FOR JUNCTION BOX WITH ARCHITECTURAL DRAWINGS DETAIL 7/A4.2. MAKE FINAL CONNECTION AS REQUIRED.
- DIRECTIONAL DOWNLIGHT TO BE INSTALLED BELOW AWNING AT 107" AFF.

LIGHTING SCHEDULE: (GRILL & CHILL)

NOTE: THIS IS A PROTOTYPICAL SCHEDULE, ALL FINISHES MAY NOT BE USED.

SYMBOL	LOCATION	MOUNT	MANUFACTURER	FIXTURE CATALOG NUMBER	REMARKS
AA1	DINING ROOM	PENDANT	DAINOLITE	CUT-P-691 - 1LT CUT OUT PENDANT JTONE WHT/SV	74" AFF. CENTER OVER TABLE.
AA2	DINING ROOM	PENDANT	WAC LIGHTING	DWELED, VORNADO, PD-87720-CH	84" AFF. CENTER OVER COUNTER HEIGHT TABLES. COORDINATE WITH CEILING ELEMENT. SEE F SHEETS
AA3	DINING ROOM	PENDANT	WAC LIGHTING	DWELED, VORNADO, PD-87735-CH	84" AFF. CENTER OVER COUNTER HEIGHT TABLES. COORDINATE WITH CEILING ELEMENT. SEE F SHEETS
AA4	RESTROOM MIRROR	WALL	MEEK MIRRORS	ML-5100-S HALO 18x36 SIDELIT MIRROR	-
BB	DINING ROOM	CEILING, LAY-IN	COOPER, METALUX	22SR-LD2-20-C-UNV	-
BBE	DINING ROOM	CEILING, LAY-IN	COOPER, METALUX	22SR-LD2-20-C-UNV-EL14W	W/ EMERGENCY BATTERY BACK-UP
CC	FESTOON LIGHTING	IN-LINE	AMERICAN LIGHTING	LS2-M-24-48-BK	BLACK WIRE, 52" LONG, 24" LIGHT SPACING USED ONLY WITH PERGOLA.
DD1	DINING ROOM, 7'0"	SURFACE	WAC LIGHTING	FM-7RN-WT	-
DD3	DINING ROOM, 15'0"	SURFACE	WAC LIGHTING	FM-15RN-WT	-
EE	OUTDOOR EYEBROW	LINEAR LED	MORGAN HOPE	LED-MH-NBL-24-R	FLEXIBLE LED WITH BLACK CHANNEL SYSTEM
FF	DINING ROOM	RECESSED DIRECTIONAL	LUM-TECH	LH-310 HOUSING, LT-356SN	-
GG	ALPOLIC CORNICE	SURFACE/RECESSED	MORGAN HOPE	MH-3JT-CVSB-3500K	-
HH	DINING ROOM, RESTROOM	RECESSED	CURRENT BY GE	LRX-R8-10-4-30-MD	-
KK	DINING ROOM	HALO LIGHT	MORGAN HOPE	MHMOD-65-12V	-
LL	KITCHEN	CEILING, LAY-IN	LSI INDUSTRIES	ELFP24-LED-40-UE	-
LLE	KITCHEN	CEILING, LAY-IN	LSI INDUSTRIES	ELFP24-LED-40-UE W/ 625074	W/ EMERGENCY BATTERY BACK-UP
M	OUTDOOR POS	WALL WASHER	DQ-MH15WPO-18ARM-GRY	-	REMODEL ONLY
MM	OUTDOOR POS	WALL WASHER	MORGAN HOPE	MH402-24V-6500K	COORDINATE WITH METALS PACKAGE
NN	OUTDOOR SECURITY	WALL	KEENE	LP7-T	MOUNTED AT 128" AFF
P	D.T. CANOPY	SURFACE	MORGAN HOPE	DQ-MH15WMO-GRY-45	MOUNTED IN DT CANOPY. #INDICATES NUMBER OF HEADS
Q	EYEBROW	SURFACE	MORGAN HOPE	DQ-MH15WMO-BLK-45	MOUNTED IN EYEBROW (UNLESS NOTED OTHERWISE), DIRECT ONE HEAD UP AND ONE DOWN. #INDICATES NUMBER OF HEADS
RR	EXIT, EMERGENCY	WALL, CEILING	EXITRONIX	VLED-U-WH-EL90	LOCATIONS TO COMPLY WITH PREVAILING CODES
SS1	PARKING LOT	POLE	STEALTH LIGHTING	83971	SEE PROJECT SITE PLANS FOR LOCATIONS - THIS ITEM HAS A 4 WEEK LEAD TIME.
SS2	PARKING LOT	POLE	STEALTH LIGHTING	(2)83971	SEE PROJECT SITE PLANS FOR LOCATIONS - THIS ITEM HAS A 4 WEEK LEAD TIME.
TT	PATIO	POST	HINKLEY LIGHTING	REEF-1951-HE	INCLUDE 7'-0" SILVER POST

NOTES:

- ALL FIXTURES AVAILABLE THROUGH HJC. SEE NATIONAL VENDORS LIST FOR CONTACT INFORMATION.
- WIRING METHODS FOR ALL RECESSED LIGHT FIXTURES SHALL BE CONDUIT, UNLESS OTHERWISE NOTED, J-BOXES WITH FLEX DROPS, ETC. PER NEC REQUIREMENTS.
- FIXTURES & VARIOUS ELECTRICAL DEVICES SHALL BE INSTALLED IN CEILING WITH PROPER SELF SUPPORTING METHODS FROM STRUCTURE PER NEC REQUIREMENTS.
- VERIFY WITH LOCAL GOVERNING OFFICIALS THE LOCATIONS OR ADDITIONS OF "EMERGENCY LIGHTING" AND PROVIDE.
- NOT ALL LIGHT FIXTURES MAY BE USED

SPECIAL NOTICES

In the event the client consents to, allows, authorizes or approves of changes to any plans, specifications or other construction documents, and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from any liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted by law, to indemnify and hold the design professional harmless from any damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes. Copyright © 2021 by John S. Odum, Architect. All rights reserved. No part of this drawing may be reproduced by photocopy or by any other means, or stored, processed, or transmitted in or by any computer or other systems without the prior written permission of the Architect.

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REVISION DATE:

12/31/21

ORIGINAL ISSUE



ELECTRICAL LIGHTING PLAN

SHEET NUMBER:

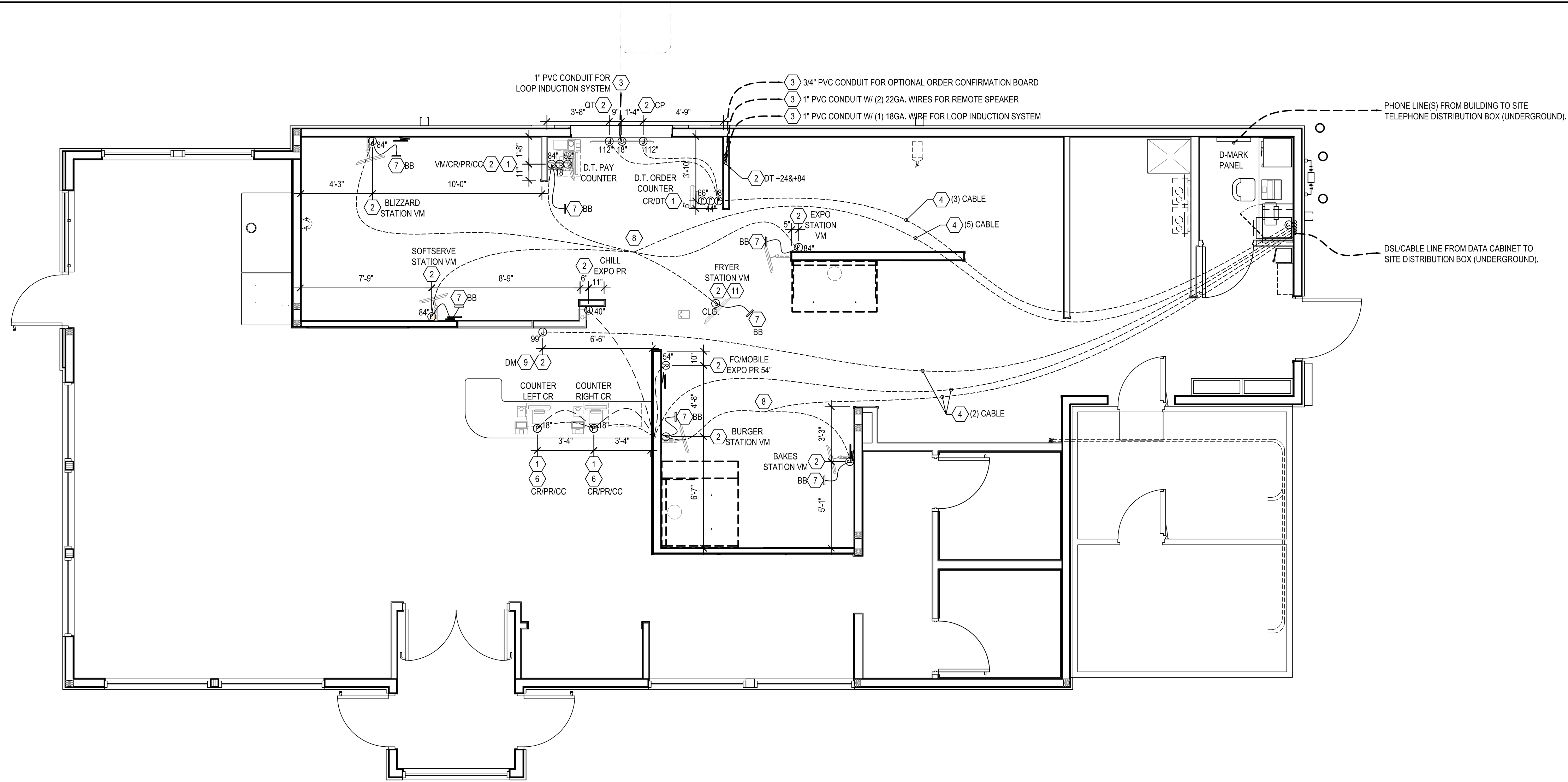
E2

ELECTRICAL PANEL LA																
LOAD SERVED	CKT #	TYPE	BKR TRIP	WIRE SIZE	PHASE A	PHASE B	PHASE C	PHASE A	PHASE B	PHASE C	WIRE SIZE	BKR TRIP	TYPE	CKT #	LOAD SERVED	
SPARE	1	GFCI	15		0			0				20	GFCI	2		
BURGER HOLDING CABINET	3		20	#12		1200			0					4	SPARE	
BAKES HOLDING CABINET	5		20	#12			1200							6	CAKE CONV. OUTLET	
BURGER PREP TABLE	7	GFCI	20	#12	1200			200			180	#12	20	8	OPTIONAL CAKE KOPY KAT	
SPARE	9	GFCI	20	#12		0			700			#12	20	GFCI	10	CARBONATORS
BLAST FREEZER	11	GFCI	20	#12			1300				540	#12	20	GFCI	12	EXTERIOR OUTLET
WALK-IN FREEZER COMPRESSOR	13			#8	943			1600				#12	20	GFCI	14	BAKES BOOST OVEN
	15		20	#8		943			1600			#12	20		16	
	17			#8			943			0			20		18	SPARE
WATER HEATERS	19		20	#12	600			1600				#12	20	GFCI	20	BURGER BOOST OVEN
DOOR PNL. CTRL. LIGHTS	21	20	#12			500			1600			#12	20		22	
DOOR PNL. CTRL. LIGHTS	23	20	#12				1100			0					24	SPACE
COOLER EVAPORATOR	25	15	#12		184				0						26	SPACE
FREEZER EVAPORATOR	27	15	#12			76			1056			#12	20	28	EXHAUST FAN EF-1	
	29		#12				76			1056		#12	20	30	EXHAUST FAN EF-2	
HEAT TAPE	31	GFCI	20	#12	1000			0						32	SPACE	
SPARE	33	GFCI	20	#12		0			1300			#12	20	GFCI	34	STAGING CART, DOUBLE LN
BURGER CELL BUN TOASTER	35	GFCI	20	#12			1500			1760		#12	20	GFCI	36	OIL RECYCLING PUMP
	37		#12		1500			6400				#6			38	
BAKES PREP TABLE	39	GFCI	20	#12		1200			6400			#6	60	40	ROOF TOP UNIT RTU-1	
SPARE	41	GFCI	20				0			6400		#6		42		
TOTAL VA PHASE A					5427			9800							15227	
TOTAL VA PHASE B						3919			12656						16575	
TOTAL VA PHASE C							6119			9936					16055	
TOTAL VOLT-AMPS															47857	
DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE)								208	AMPS				230			
DIVIDE AMPS BY 3 PHASE MULTIPLIER								1.732	3 PHASE AMPS				133			
TOTAL CONNECTED LOAD (AMPS)													133			
MAIN TYPE AND AMPERE RATING								225 AMP MAIN LUGS ONLY								
PANEL FEEDER SIZE								SEE RISER DIAGRAM								

ELECTRICAL PANEL LC																	
LOAD SERVED	CKT #	TYPE	BKR TRIP	WIRE SIZE	PHASE A	PHASE B	PHASE C	PHASE A	PHASE B	PHASE C	WIRE SIZE	BKR TRIP	TYPE	CKT #	LOAD SERVED		
SOFTSERVE MACHINE UNIT B BARREL 1	1		30	#10	2000			2000			#10	30		2	SOFTSERVE MACHINE UNIT A BARREL 1		
	3			#10		2000				2000	#10			4			
	5			#10					2000		#10			6			
SOFTSERVE MACHINE UNIT B BARREL 2	7	30		#10	2000			2000			#10	30		8	SOFTSERVE MACHINE UNIT A BARREL 2		
	9			#10		2000				2000	#10			10			
	11			#10					2000		#10			12			
SPARE	13		20		0			0			#12	25	GFCI	14	SPARE		
ROOF TOP OUTLETS	15	GFCI	20	#12			720			0		#12	20	GFCI		16	
SPARE	17		20				0				#6	20	GFCI	18	DT DRINK HEAD		
SPARE	19		20		0			6400			600			#6		20	
SPARE	21		20			0			6400		#6	60		22	RTU-2 ROOF TOP UNIT #2		
SPARE	23		20				0			6400	#6			20		24	
SPARE	25		20		0			2000			#10	30	GFCI	26	OPTIONAL HOT WATER DISPENSER		
HAND DRYER	27	15	#12			900			2000		#10			20		28	
HAND DRYER	29	15	#12				900			500	#12	20	30	MOBILE ORDER SIGN			
SPARE	31	20	#10		0			0				20	32	SPARE			
SPARE	33	20	#10			0			0			20	34	SPARE			
SPARE	35	20	#10				0			0		20	36	SPARE			
WALK-IN COOLER COMPRESSOR	37	15		#10	552			0				20	38	SPARE			
	39			#10			552			0		20	40	SPARE			
	41			#10				552			0		20	42	SPARE		
TOTAL VA PHASE A					4552			12400							16952		
TOTAL VA PHASE B						6172			12400						18572		
TOTAL VA PHASE C							5452			11500					16952		
TOTAL VOLT-AMPS															52476		
DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE)								208		AMPS		252					
DIVIDE AMPS BY 3 PHASE MULTIPLIER								1.732		3 PHASE AMPS		146					
TOTAL CONNECTED LOAD (AMPS)																146	
MAIN TYPE AND AMPERE RATING								225 AMP MAIN LUGS ONLY									
PANEL FEEDER SIZE								SEE RISER DIAGRAM									

ELECTRICAL PANEL LE																
LOAD SERVED	CKT #	TYPE	BKR TRIP	WIRE SIZE	PHASE A	PHASE B	PHASE C	PHASE A	PHASE B	PHASE C	WIRE SIZE	BKR TRIP	TYPE	CKT #	LOAD SERVED	
EXIT/NIGHT/EMERG. LIGHTS	1	L	20	#12	180			580			#12	20	2	EXTERIOR BUILDING LIGHTING		
KITCHEN LIGHTING	3	SWD	20	#12		585			516		#12	20	4	EXTERIOR PATIO LIGHTING		
SPARE	5		20				0			580	#12	20	6	EXTERIOR BUILDING LIGHTING		
DINING AREA LIGHTING	7	SWD	20	#12	366			0				20	8	SPARE		
SPARE	9		20			0			0			20	10	SPARE		
DINING AREA LIGHTING	11	SWD	20	#12			60			0		20	12	SPARE		
RESTROOM LIGHTING/EF-3	13		20	#12	200			700			#12	20	14	EXTERIOR BUILDING SIGNS		
SPARE	15		20			0			700		#12	20	16	EXTERIOR BUILDING SIGNS		
DINING AREA LIGHTING	17	SWD	20	#12			133			1200	#12	20	18	PYLON SIGN		
SPARE	19		20		0			800			#12	20	20	EXTERIOR MENU BOARD		
HOOD LIGHTING	21		20	#12		160			0			20	22	SPARE		
POS/COMMUNICATIONS	23	GFCI	20	#12			720			180	#12	20	24	OFFICE OUTLET		
SPARE	25	GFCI	20		0			0				20	26	SPARE		
POS/COMMUNICATIONS	27	GFCI	20	#12			900			180	#12	20	28	OFFICE OUTLET		
POS/COMMUNICATIONS	29	GFCI	20	#12			360			180	#12	20	30	OFFICE OUTLET		
MENU BOARD	31		20	#12	1000			0				20	32	SPARE		
MENU BOARD	33		20	#12		200			180		#12	20	34	PHONE BOARD OUTLET		
SPARE	35		20			0			290		#8	20	36			
ANSUL SYSTEM	37		20	#12	500			290			#8	38		SITE LIGHTING		
	39		20	#12		700			218		#8	20	40			
EXPEDITER	41	GFCI	20	#12			700			218	#8	20	42	SITE LIGHTING		
TOTAL VA PHASE A					2246			2370							4616	
TOTAL VA PHASE B						2545			1794						4339	
TOTAL VA PHASE C							1973			2648					4621	
TOTAL VOLT-AMPS															13576	
DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE)								208	AMPS				65			
DIVIDE AMPS BY 3 PHASE MULTIPLIER								1.732	3 PHASE AMPS				38			
TOTAL CONNECTED LOAD (AMPS)													38			
MAIN TYPE AND AMPERE RATING								225 AMP MAIN LUGS ONLY								
PANEL FEEDER SIZE								SEE RISER DIAGRAM								

ELECTRICAL PANEL LB																
LOAD SERVED	CKT #	TYPE	BKR TRIP	WIRE SIZE	PHASE A	PHASE B	PHASE C	PHASE A	PHASE B	PHASE C	WIRE SIZE	BKR TRIP	TYPE	CKT #	LOAD SERVED	
C.O./ OPTIONAL BLENDER	1		15	#12	1380			1700			#12	20		2	D.T. TEA DISPENSOR	
HEATED CHEESE PUMP	3		15	#12		500			720		#12	20	GFCI	4	CONV OUTLETS	
STAGING CART, SINGLE LN.	5	GFCI	20	#12			700			1500	#12	20	GFCI	6	OPTIONAL COFFEE BREWER	
FRY CELL TOASTER	7	GFCI	30	#12	1510			1500			#12	20	GFCI	8	FRY DUMP	
CARBONATORS	9		20	#12		1510	600		180		#12	20	GFCI	10	SPARE	
CONVENIENCE OUTLET	11	GFCI	20	#12	500			1000			#12	20	ST	14	FRYER	
BUZZARD TOPPING CABINET	15	GFCI	20	#12		1500			0		#12	20	ST	16	SHUNT TRIP MODULE	
GRAVY PUMP	17	GFCI	20	#12			500			900	#12	20	ST	18	CHAIN BROILER	
GRAVY PUMP	19	GFCI	20	#12	500			0			#12	20	20	18	SHUNT TRIP MODULE	
TREATS TOPPING CABINET	21	GFCI	20	#12		1500			2080		#10	25	24	22	CAKE DISPLAY FREEZER COMPRESSOR	
HOT FUDGE PUMP	23	GFCI	20	#12			500			2080	#12	20	26	24	DEEPWELL FREEZER	
CONE DIP	25		20	#12	600			180			#12	20	28	26	SHUNT TRIP MODULE	
HOT FUDGE PUMP	27		20	#12		500			0		#12	20	28	28	SHUNT TRIP MODULE	
BUZZARD MACHINE	29		20	#12			1700			1900	#10	30	30	30	CAKE DISPLAY FREEZER	
BUZZARD MACHINE	31		20	#12	1700			1900			#10	30	32	32	CAKE DISPLAY FREEZER	
BUZZARD MACHINE	33		20	#12		1700			360		#12	20	34	34	DINING CONV. OUTLETS	
DINING DRINK HEAD	35		20	#12			600			1400	#12	20	GFCI	36	OPTIONAL FRY DISPENSER	
DINING TEA DISPENSER	37		20	#12	500			0			#12	20	38	38	SPARE	
DINING WATER FILTER	39		20	#12		30			1600		#12	20	GFCI	40	PREP BOOST OVEN	
CONVENIENCE OUTLET	41		15	#12			180			1600	#12	20		42		
TOTAL VA PHASE A					6690			6280							12970	
TOTAL VA PHASE B						7240			4940						12180	
TOTAL VA PHASE C							4780			9380					14160	
TOTAL VOLT-AMPS															39310	
DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE)								208		AMPS		189				
DIVIDE AMPS BY 3 PHASE MULTIPLIER								1.732		3 PHASE AMPS		109				
TOTAL CONNECTED LOAD (AMPS)																109
MAIN TYPE AND AMPERE RATING PANEL FEEDER SIZE								225 AMP MAIN LUGS ONLY SEE RISER DIAGRAM								



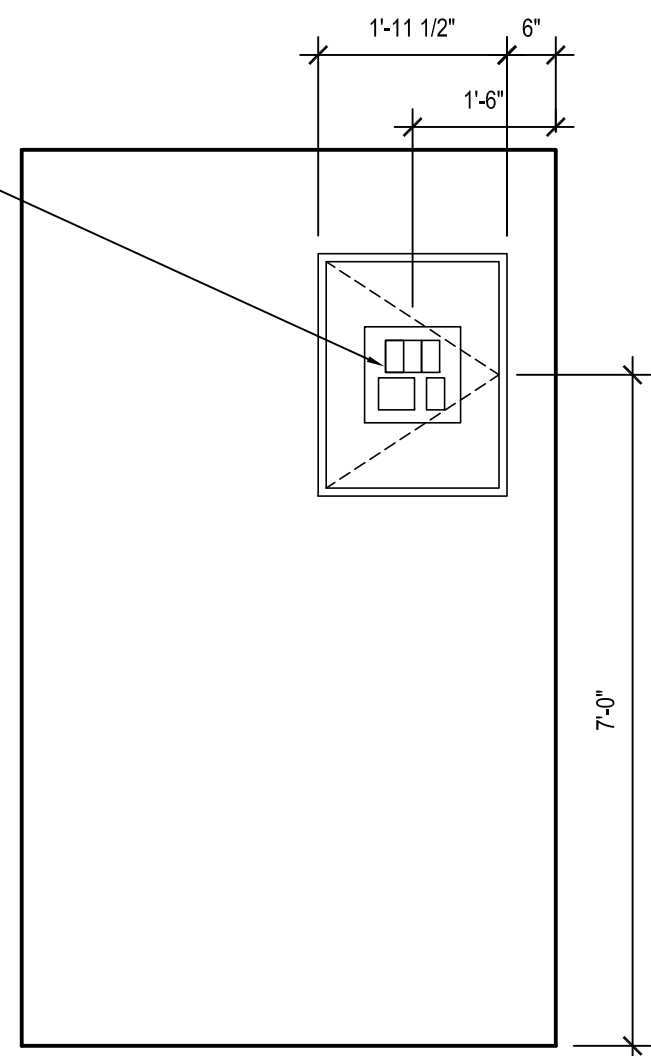
1 EPOS PLAN
E5 SCALE: 1/4" = 1'-0"

KNOCK OUT PANEL IN BACK OF CABINET (12"x12"). ALL RECEPTACLES AND JUNCTION BOXES MUST BE INSTALLED WITHIN THIS AREA. ELECTRICAL CONTRACTOR TO PROVIDE THE FOLLOWING AT THIS LOCATION:

- 120V ISOLATED/INSULATED FOURPLEX RECEPTACLE
- 120V CONVENIENCE DUPLEX OUTLET
- (3) OPEN CONDUITS STUBBED UP TO AN ACCESSIBLE AREA ABOVE FINISHED CEILING.

CONDUITS TO BE:

- (1) 3/4"Ø FOR TELEPHONE LINES
- (1) 1"Ø FOR SECURITY SYSTEM CABLING
- (1) 1 1/2"Ø FOR EPOS CABLING.



2 ELECTRONIC HARDWARE CABINET ELEV.
E5 SCALE: 1/2" = 1'-0"

FIXTURE LEGEND	
SYM	DESCRIPTION
CR	CASH REGISTER
VM	VIDEO MONITOR
J	JUNCTION BOX (SINGLE GANG)
PR	PRINTER
QT	DRIVE-THRU TIMER
DM	DIGITAL MENU BOARDS
BB	VIDEO MONITOR BUMP BAR
DT	DRIVE THRU COMMUNICATIONS SYSTEM
SK	SELF SERVICE ORDER KIOSK
CC	CREDIT CARD READER
CP	COMPETITION

CONDUIT/CABLE SIZE CHART	
SYM	DESCRIPTION
1/2"	(1) OR (2) CAT 6 CABLES
3/4"	(3) OR (4) CAT 6 CABLES
1"	(5) OR (6) CAT 6 CABLES
1 1/4"	(7) OR (8) CAT 6 CABLES

GENERAL NOTES	
1.	ALL CAT 6 CABLE TO BE PROVIDED AND INSTALLED BY EPOS VENDOR. SEE NATIONAL VENDORS LIST FOR CONTACT INFORMATION. COORDINATE INSTALLATION AND FIXTURES WITH EPOS VENDOR OR BY CONTRACTOR CHOSEN BY FRANCHISEE.
2.	CABLING AND FIXTURES TO BE SCHEDULED AT END OF EQUIPMENT INSTALLATION TIME FRAME.
3.	THE ELECTRICAL CONTRACTOR TO PROVIDE ALL CUTTING, TRENCHING, BACK FILLING, AND PATCHING AS MAY BE REQUIRED AND SHALL BE INCLUDED AS PART OF THE ELECTRICAL CONTRACTORS WORK.
4.	ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED CONDUIT, PULL BOXES, JUNCTION BOXES AND PULL STRINGS. ANY QUESTIONS REGARDING LOCATIONS OF JUNCTION BOXES TO BE DIRECTED TO ADQ ARCHITECTURE/CONSTRUCTION DEPARTMENT AT 800.985.6686 EXT. #5.
5.	VERIFY IF LOCAL CODES REQUIRE A LOW VOLTAGE PERMIT.
KEY NOTES	
1	ALL MONITOR AND TERMINAL LOCATIONS WILL REQUIRE IN-WALL JUNCTION BOX WITH CONDUIT STUBBED INTO THE CEILING SPACE AND A MINIMUM OF FIVE FEET OF EXCESS CABLE AT EACH END OF RUN. 1 1/2" GROMMETS AT INITIAL CASH REGISTER LOCATIONS AS REQUIRED.
2	THESE MONITORS AND TERMINALS WILL NEED A MINIMUM OF TWO FEET EXCESS CABLE AT EACH END OF RUN.
3	PROVIDE UNDERGROUND CONDUIT SIZED AS REQUIRED FROM DRIVE-THRU EQUIPMENT TO THE CENTER MODULE. SEE SHEET A1.2
4	CONDUIT TO BE RUN ABOVE CEILING AND DOWN INSIDE WALL TO JUNCTION BOX.
5	CONDUIT OT BE RUN BELOW SLAB AND UP THROUGH FLOOR TO JUNCTION BOX.
6	CONDUIT TO BE RUN THROUGH COUNTER BASE CABINET AFTER COUNTER INSTALLATION.
7	RUN CABLING DOWN FROM CEILING AT BUMP BAR LOCATION(S).
8	MOUNT JUNCTION BOX ABOVE CEILING.
9	MENU BOARD JUNCTION BOX TO BE INSTALLED BETWEEN IN WALL BLOCKING. SEE SHEET A6.1
10	RUN CABLING FROM CEILING TO TERMINAL LOCATION
11	POLE MOUNTED KITCHEN MONITOR, MOUNTING HARDWARE PROVIDED BY EPOS VENDOR AND INSTALLED BY G.C.

SPECIAL NOTICES

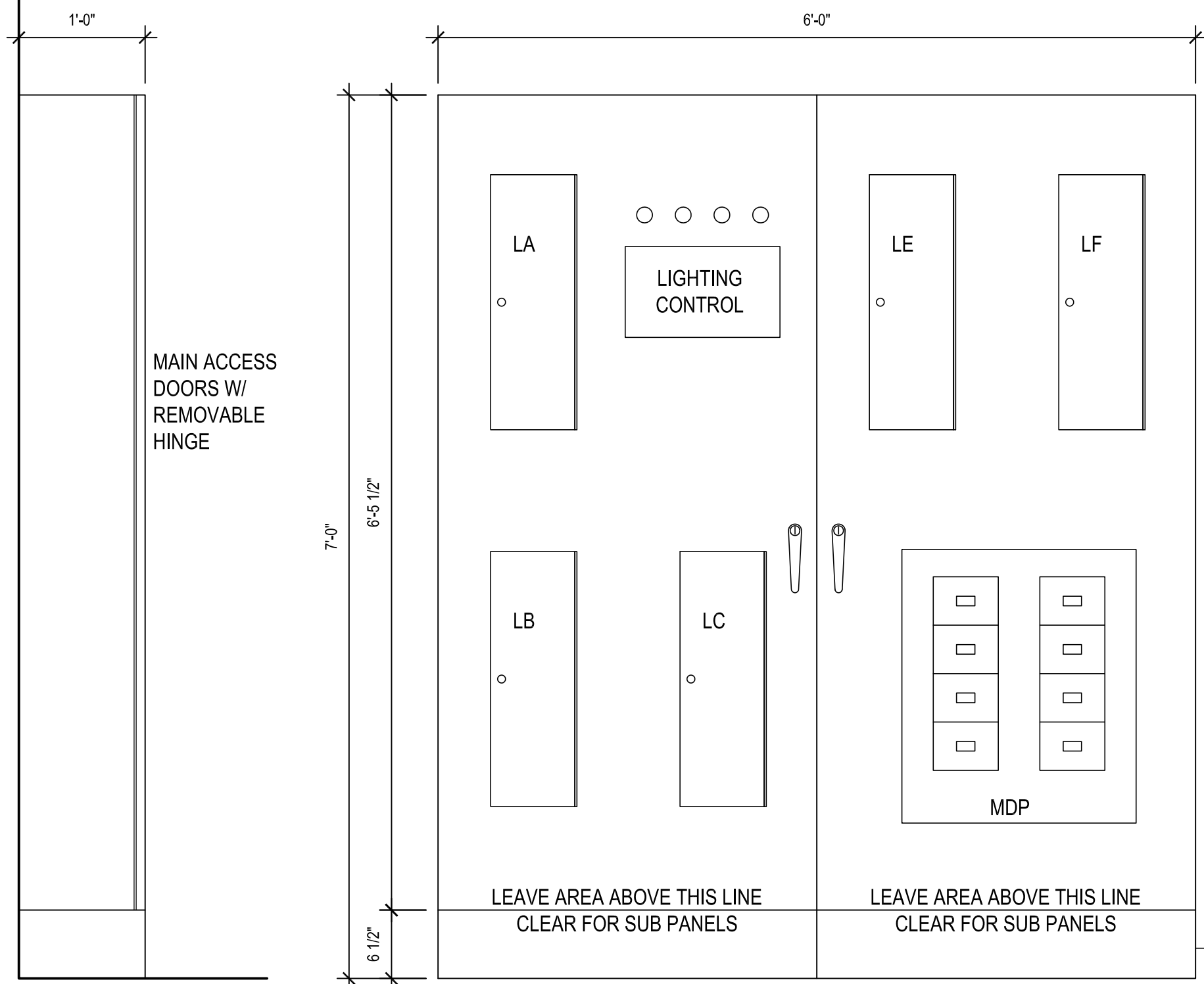
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REVISION DATE:	
12/31/21	ORIGINAL ISSUE
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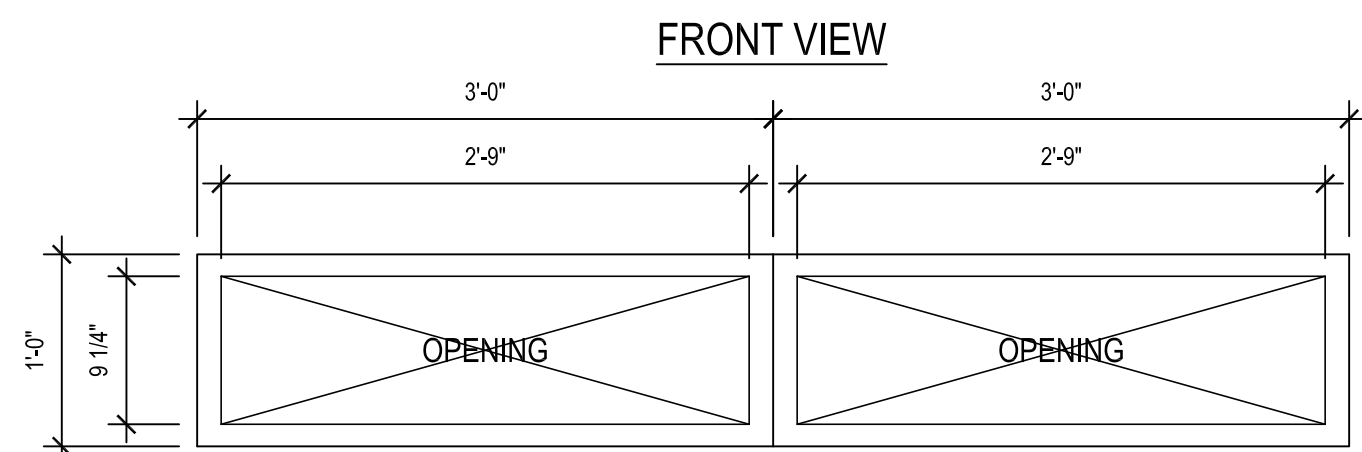
EPOS PLAN

SHEET NUMBER:

E5



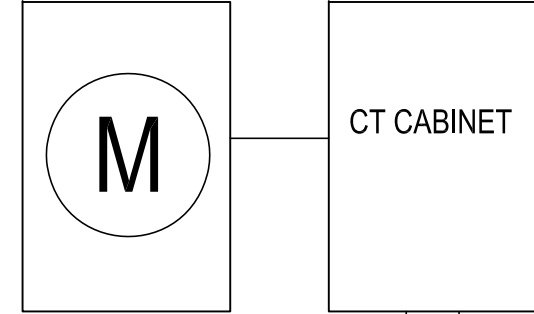
SIDE VIEW



SECTION/PLAN VIEW

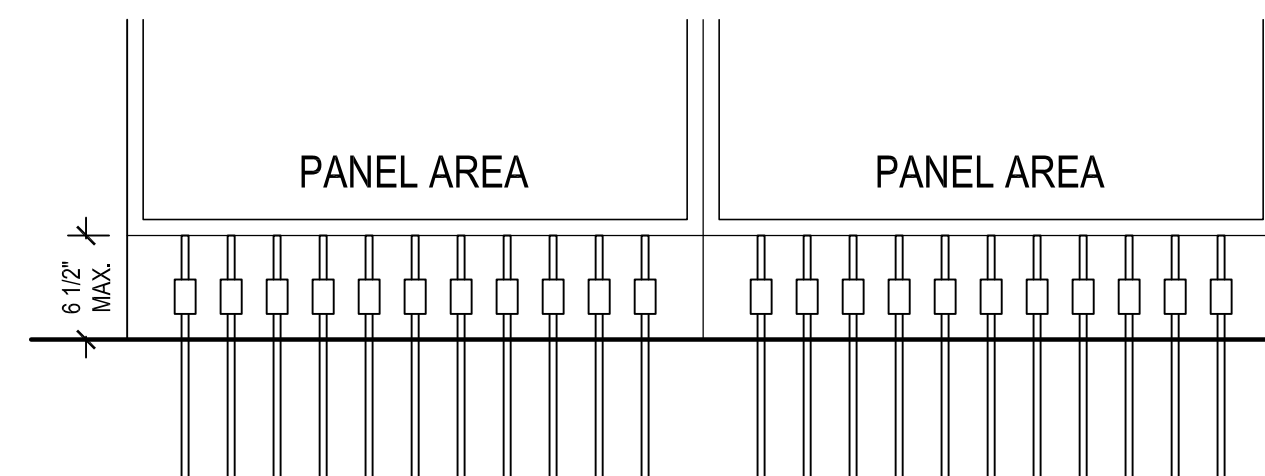
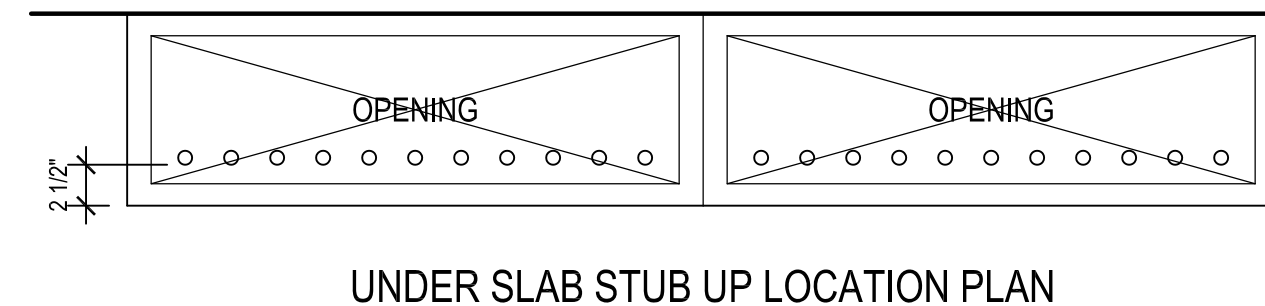
CAUTION - SERIES COMBINATION SYSTEM
RATED 65,000 AMPERES. IDENTIFIED
REPLACEMENT COMPONENTS REQUIRED.

SUPPLIED AND INSTALLED BY CONTRACTOR



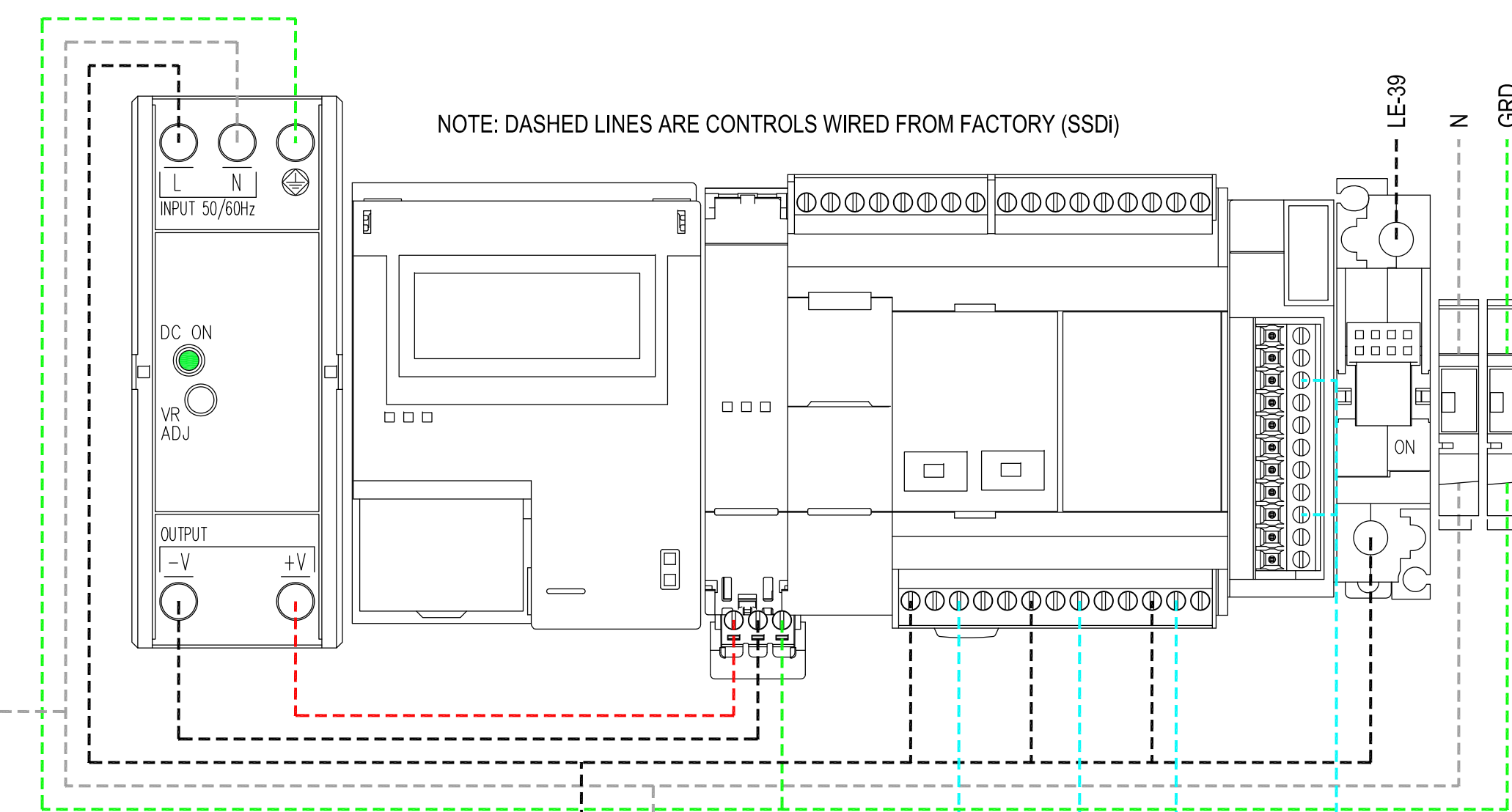
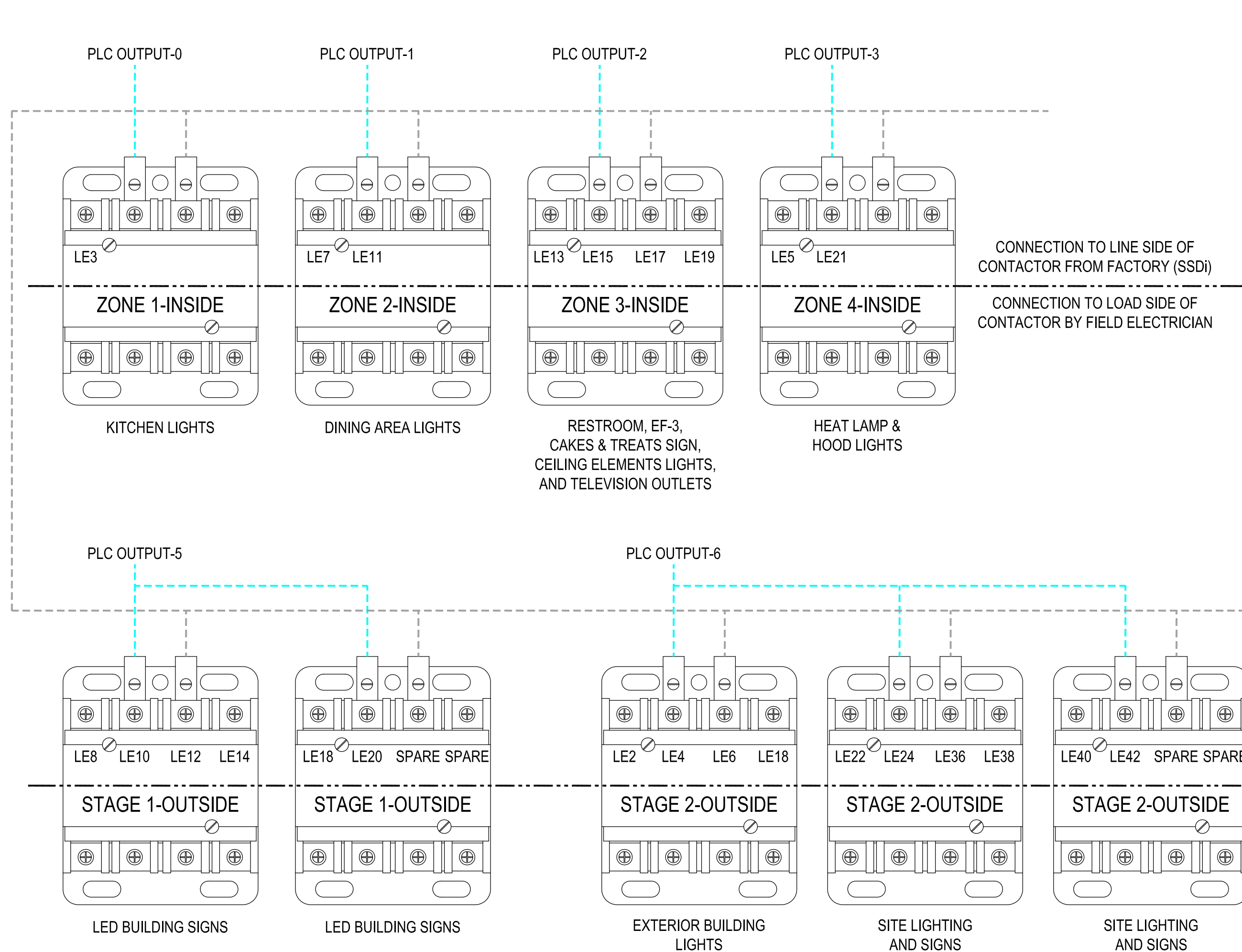
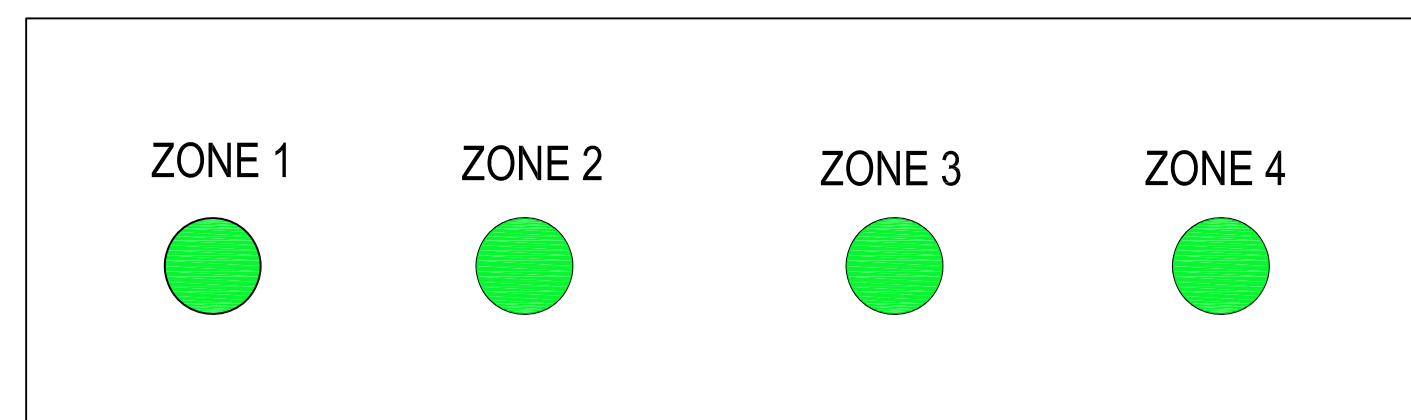
CONDUIT AND WIRE TO
MDP PANEL BY CONTRACTOR

CONDUIT AND WIRE TO UTILITY
TRANSFORMER BY CONTRACTOR

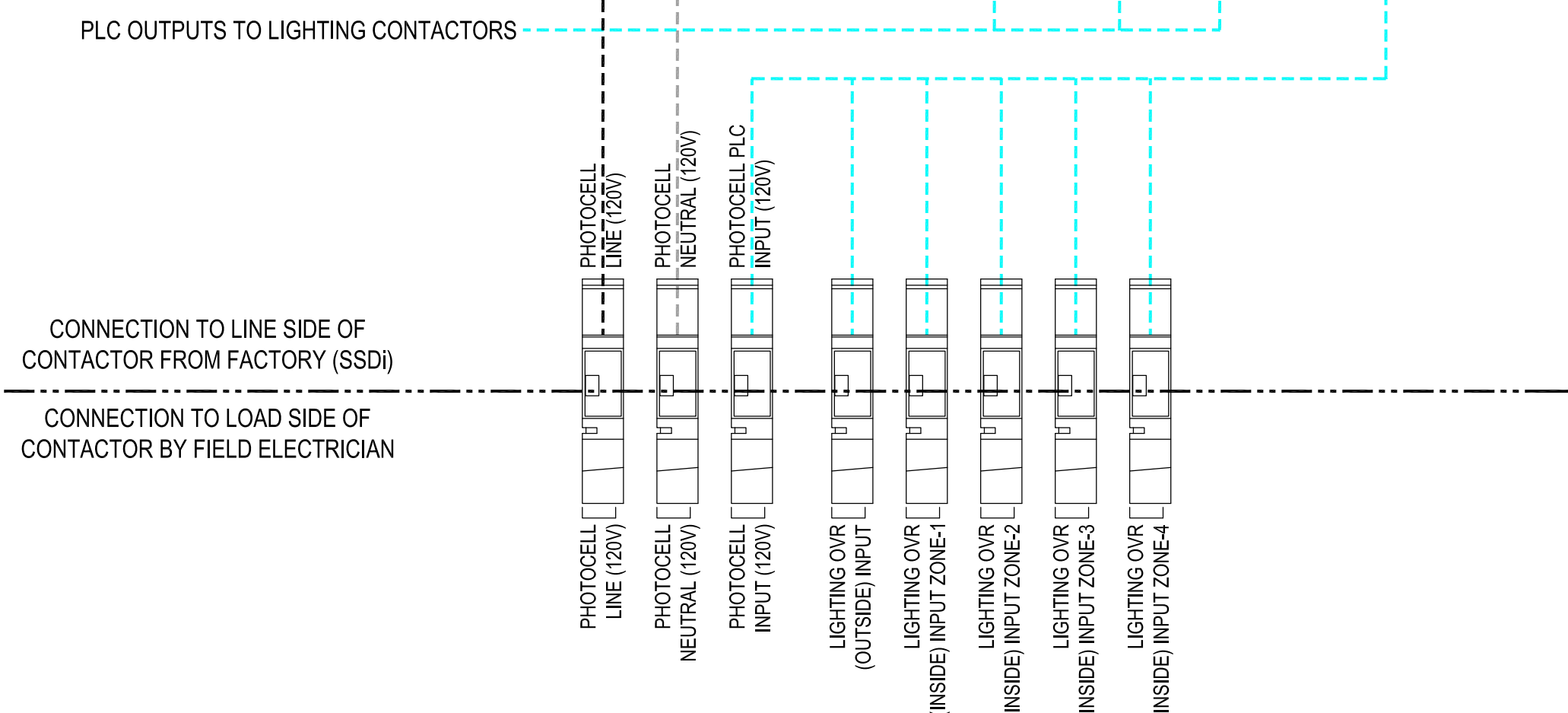


UNDER SLAB STUB UP LOCATION ELEV./SECT.

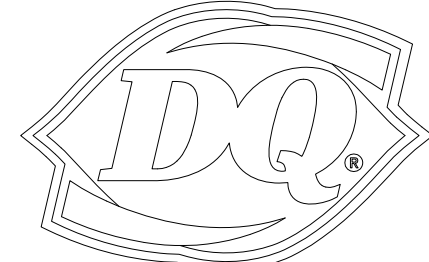
SSDi ENCLOSURE FRONT DOOR



CONTRACTOR NOTE:
EQUIPMENT CONDUCTORS
TO BE SIZED ACCORDING TO
THE PANEL SCHEDULE



NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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of the design professional. Therefore, the client agrees to
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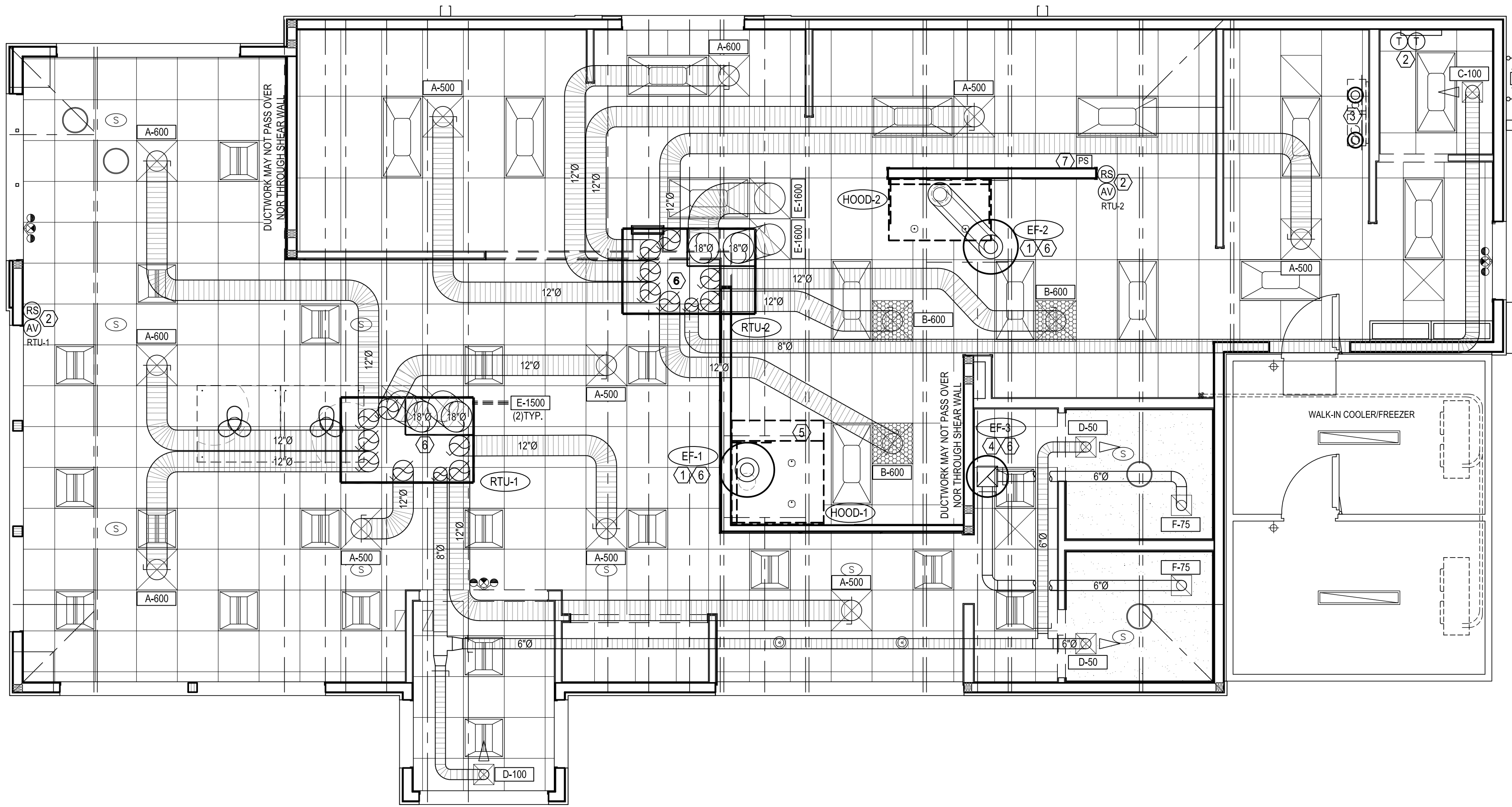
12/31/21 ORIGINAL ISSUE

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CABINET LAYOUT
& LIGHTING
CONTROL

SHEET NUMBER:

E6



1 HVAC PLAN
M1 SCALE: 1/4" = 1'-0"

PLENUMIZED CURB INSTALLATION NOTES

- CAREFULLY LOCATE AND MARK ROOF CURB LOCATIONS SO THAT DUCT WORK CAN BE INSTALLED IN THE APPROXIMATE LOCATIONS AS SHOWN BY THE FLOOR PLAN. PAY ATTENTION TO THE LOCATION OF THE ROOF STRUCTURE IN ORDER TO ACCOMMODATE THE DUCT DROPS.
- MARK THE EXACT LOCATION OF EACH ROOF CURB. LAY OUT ALL EQUIPMENT LOCATIONS IN ORDER TO MAINTAIN PROPER CLEARANCES FROM EXHAUST FANS AND VENTS AS WELL AS PROVIDING FOR PROPER SERVICE CLEARANCES.
- GENERAL CONTRACTOR SHALL CUT ROOF DECKING MATERIAL TAKING CARE TO AVOID CUTTING ANY STRUCTURAL COMPONENTS. GENERAL CONTRACTOR SHALL ALSO INSTALL ANY NECESSARY FRAMING OR BLOCKING AT OPENINGS.
- WITH ROOF CURB UPSIDE DOWN (SOLID METAL BOTTOM UP) MEASURE AND MARK THE LOCATION OF ANY JOISTS OR OTHER FRAMING MEMBERS THAT MUST BE AVOIDED. MEASURE AND MARK THE LOCATION OF ALL THE DUCT TAPS.
- CUT ALL DUCT TAPS INTO THE BOTTOM PANEL OF THE ROOF CURB. BE CAREFUL NOT TO DAMAGE THE ROOFING SURFACE WHILE MAKING THESE CUTS.
- INSTALL DUCT TAP FITTINGS AND MANUAL DAMPERS INTO THE OPENINGS PREVIOUSLY CUT. SEAL ALL CONNECTIONS ON BOTH THE BOTTOM AND THE TOP SIDES OF THE TAPS.
- FLATTEN TAB OF START COLLAR INSIDE CURB, TIGHT AGAINST INSULATION. SEAL INSIDE OF COLLAR AND TABS TO INSULATION USING MASTIC DUCT SEALER. ALLOW SEALER TO DRY PRIOR TO PROCEEDING.
- APPLY DUCT SEALER TO OPEN END OF COLLAR. SLIDE INNER CORE OF FLEXIBLE DUCT ONTO COLLAR, AND CONNECT PANDUIT STRAP PER MANUFACTURERS INSTRUCTIONS.
- SLIDE OUTER INSULATION SLEEVE OF FLEX TIGHT TO BOTTOM OF CURB. SEAL INSULATION TO BOTTOM OF CURB WITH PRESSURE-SENSITIVE FOIL TAPE. DO NOT USE TAPE MEANT FOR RIGID DUCTBOARD. SQUEEGEE OUT ALL AIR BUBBLES FOR PROPER ADHESION.
- TURN CURB RIGHT SIDE UP. LEVEL CURB BETWEEN BOTTOM OF CURB AND DECK. INSTALL IN ROOF OPENING. SECURE CURB TO ROOF FRAMING AS REQUIRED.
- GENERAL CONTRACTOR OR ROOFING CONTRACTOR SHALL FLASH AND ROOF IN THE CURB AS DETAILED ON THE DRAWINGS.
- INSIDE BUILDING, THE DUCT RUNS SHALL BE INSTALLED FROM THE TAPS TO THE DIFFUSER LOCATIONS AS SHOWN ON THE PLANS. SUPPORT PER SMACNA AND LOCAL CODES.
- NOTE: IF NECESSARY, FLEX DROPS MAY BE CONNECTED TO TAPS AFTER CURB HAS BEEN INSTALLED. REFER TO STEPS #8 AND #9.

AIR BALANCE SCHEDULE

TAG	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR	BLDG. PRESSURE	% OUTSIDE AIR
RTU-1	4000 CFM	1000 CFM	3000 CFM	---	+ 1000 CFM	25
RTU-2	4000 CFM	1000 CFM	3000 CFM	---	+ 1000 CFM	25
EF-1	---	---	---	950 CFM	- 950 CFM	---
EF-2	---	---	---	700 CFM	- 700 CFM	---
EF-3	---	---	---	150 CFM	- 150 CFM	---
TOTAL	8000 CFM	2000 CFM	6000 CFM	1800 CFM	+ 200 CFM	25

AIR DEVICE SCHEDULE

SYM.	SIZE	TYPE	DUCT SIZE	MODEL#	FINISH	BOOT SIZE	OPENING SIZE	QTY.
A*	24X24	SUPPLY 4 WAY	12"Ø	AM012	WHITE	12"Ø	T-BAR	12
B**	24X24	SUPPLY PERE.	12"Ø	APD0R1424	WHITE	22X22	T-BAR	5
C	12X12	SUPPLY 1 WAY	6"Ø	630D	WHITE	12X12	SIZE + 1/4"	1
D	12X12	SUPPLY 1 WAY	6"Ø	630D	WHITE	12X12	SIZE + 1/4"	3
E	24X24	RETURN	18"Ø	630TB	WHITE	22X22	T-BAR	6
F	12X12	EXHAUST	8"Ø	630	WHITE	12X12	SIZE + 1/4"	2

ALL DIFFUSERS SHALL BE MANUFACTURED BY METALARE OR EQUIVALENT AND 100% ALUMINUM CONSTRUCTION
* PROVIDE WITH PVC/R SLIDING-BLADE DAMPER
** PROVIDE WITH PVC/R SLIDING-BLADE DAMPER AND FIVE 14"Ø-TO-12"Ø REDUCERS FOR TOPS OF DIFFUSERS

PACKAGE ROOFTOP UNIT SCHEDULE (RTU-1 & 2)

TAG	RTU-1,2
MANUFACTURER	CARRIER
MODEL	48HCED12 (10 TON)
LOCATION, CURB DIMENSIONS	ROOF, 78" X 50"
TYPE OF HEAT	NATURAL GAS
TOTAL COOLING CAPACITY, MBTUHR	123.3
SENSIBLE COOLING CAPACITY, MBTUHR	95.0
ENTERING AIR CONDITIONS, DB°F/WB°F	80/67
AMBIENT AIR DB TEMPERATURE, °F	95
SUPPLY AIR, CFM	4000
OUTSIDE AIR, CFM	SEE SCHEDULE
EXTERNAL STATIC PRESSURE, "WG	0.75
BHP - MEDIUM STATIC MOTOR	3.7
E.E.R.	11.5
GAS INPUT MBTUHR	190/244
GAS OUTPUT MBTUHR	147/184
UNIT WEIGHT, LBS.	1250
ELECTRICAL REQUIREMENT, V/PHASE/HZ	208-230/3/60
MINIMUM CIRCUIT AMPERAGE	52.0
MAXIMUM OVER CURRENT PROTECTION	60

ACCESSORIES
1. 100% ECONOMISER WITH BAROMETRIC RELIEF
2. NCA PLENUMIZED CURB. TO ORDER CALL TOLL-FREE (877) 530-0078.
3. ONE YEAR COMPLETE PARTS AND LABOR WARRANTY
4. ADDITIONAL FOUR YEAR PARTS WARRANTY COVERING COMPRESSORS
5. SMOKE DETECTOR (SEE HVAC ROOF PLAN, SHEET M-2)
6. AQUAGUARD AG-3180S MOISTURE SENSOR FOR PRIMARY PAN
NOTE: COORDINATE RTU PLACEMENT ON SITE PRIOR TO SETTING EQUIPMENT. IF ADJUSTMENT IS NECESSARY MAINTAIN FRESH AIR INTAKE CLEARANCES

FAN SCHEDULE

UNIT NUMBER	EF-1	EF-2	EF-3
AREA SERVED	HOOD-1	HOOD-2	RESTROOMS
MANUFACTURER	CAPTIVE AIRE	CAPTIVE AIRE	CAPTIVE AIRE
MODEL	DU50HFA	DU50HFA	DR10HFA
CFM	800	700	150
STATIC PRESSURE, "WG	0.75	0.75	0.25
FAN HORSEPOWER	0.50	0.50	0.06
DRIVE	DIRECT	DIRECT	DIRECT
RPM	1300	1205	1047
ELECTRICAL V/Ø/HZ	120/1/60	120/1/60	120/1/60
NCA CURB LxWxH	19.5X19.5X26	19.5X19.5X26	17.5X17.5X12
ACCESSORIES	B,D,E,F,J,K,L,M	B,D,E,J,K,L,M	A,B,D,E,G,H,L,M

NOTES/ACCESSORIES
A. ALUMINIZED BARS/SCREEN
B. SAFETY DISCONNECT SWITCH
C. GRAVITY BACKDRAFT DAMPER
D. AMCA SEAL & U.L. CERTIFIED
E. SPEED CONTROL
F. PROVIDE WITH WINDBAND EXTENSION "UP" SO THAT DISCHARGE IS NO LESS THAN 36" HIGHER IN ELEVATION THAN THE OUTSIDE AIR INTAKE OF RTU3
G. INTERLOCK WITH SALES FLOOR LIGHTS
H. 12" HIGH PREFABRICATED ROOF CURB
I. INTERLOCKED BY ELECTRICIAN PER NFPA AND LOCAL CODES
J. REFER TO KITCHEN BALANCE SCHEDULE
K. ENSURE 10'-0" MINIMUM CLEARANCE FROM AIR INTAKES
L. COORDINATE WITH MANUFACTURER FOR FINAL SELECTION
M. COORDINATE WITH MANUFACTURER FOR FINAL SELECTION
N. PROVIDE WITH WINDBAND EXTENSION "UP" SO THAT DISCHARGE IS NO LESS THAN 36" HIGHER IN ELEVATION THAN THE OUTSIDE AIR INTAKE OF RTU3

NCA HVAC EQUIPMENT PACKAGE

PLAN AND SPECIFICATIONS AS PER P.E. SEAL

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FOR COMPLETE INFORMATION AND PRICING ON THE FOLLOWING PACKAGE OF EQUIPMENT AND ACCESSORIES CONTACT THE NCA GROUP MARKETING DEPARTMENT TOLL-FREE AT (877) 530-0078.

HEATING/COOLING EQUIPMENT PACKAGE
INCLUDES ALL ROOFTOP (OR SPLIT SYSTEM) AIR CONDITIONING EQUIPMENT WITH ALL ACCESSORIES AS SPECIFIED ON THESE PLANS.

FAN PACKAGE
INCLUDES ALL FANS WITH ALL ACCESSORIES AS SPECIFIED ON THESE PLANS.

AIR DEVICE PACKAGE
INCLUDES ALL GRILLES, REGISTERS AND DIFFUSERS PER PLANS. SQUARE TO ROUND TRANSITIONS PROVIDED WHERE REQUIRED.

CURB PACKAGE
INCLUDES ONE-PIECE, FULLY WELDED NCA PLENUMIZED ROOF CURBS FOR ALL ROOF MOUNTED HEATING/COOLING EQUIPMENT, AND ALL FAN CURBS, ALTERNATIVES TO NCA PLENUMIZED CURBS MAY NOT BE USED.

EXHAUST HOOD PACKAGE
INCLUDES EXHAUST FANS, HOODS, SHROUDS AND ANSUL SYSTEM, AS CODE REQUIRES.

CONTROL'S PACKAGE
INCLUDES PRESET DIGITAL THERMOSTATS, THERMOSTAT WIRE, LOCKING COVERS, AND AS CODE REQUIRES SMOKE DETECTORS AND AUDIBLE-VISUAL DEVICES; OCCUPIED/UNOCCUPIED PANEL, AND INTERLOCK PANEL, IF REQUIRED.

NOTE: "RE-ENGINEERING" DEVIATIONS FROM THE SHOWN DESIGN AND REQUIRED HVAC EQUIPMENT MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND PROFESSIONAL ENGINEER. UNAUTHORIZED SUBSTITUTIONS OR ALTERATIONS WILL VOID THE SIGNATURE AND SEAL OF THE PROFESSIONAL ENGINEER AND LEAVE VIOLATORS RESPONSIBLE FOR RESUBMISSION OF SIGNED AND SEALED DRAWINGS

ATTENTION GENERAL CONTRACTOR: "RE-ENGINEERING" DEVIATIONS FROM THE SHOWN DESIGN AND REQUIRED HVAC EQUIPMENT MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND PROFESSIONAL ENGINEER. UNAUTHORIZED SUBSTITUTIONS OR ALTERATIONS WILL VOID THE SIGNATURE AND SEAL OF THE PROFESSIONAL ENGINEER AND LEAVE VIOLATORS RESPONSIBLE FOR RESUBMISSION OF SIGNED AND SEALED DRAWINGS.

CONTRACTORS NOTES

- HVAC CONTRACTOR
- THE HVAC CONTRACTOR IS TO FURNISH AND INSTALL THE HOODS, ROOF-TOP UNITS, EXHAUST FANS, DUCTWORK, INSULATION WRAP, DIFFUSERS, SMOKE DETECTORS, AND TEMPERATURE CONTROLS.
 - THE HVAC CONTRACTOR IS TO VERIFY LOCATIONS FOR EF-1, EF-2, AND THE HOODS ON SITE FROM MOST-RECENT KITCHEN EQUIPMENT PLANS. ALL FANS ARE TO BE U.L. LISTED. SEE KEYED NOTE #1, THIS SHEET.
 - ALL HVAC EQUIPMENT CURBS ARE TO BE SUPPLIED BY THE HVAC CONTRACTOR.
 - ALL RTU CURBS ARE TO BE FABRICATED FROM 18 GA. GALVANIZED METAL WITH FULLY WELDED SEAMS, WATER TIGHT AND INTERNALLY INSULATED. FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.
 - SHIMS ARE TO BE PROVIDED BY HVAC CONTRACTOR BETWEEN THE ROOF DECK AND THE CURBS TO COMPENSATE FOR ROOF PITCH.
 - ALL FLEX DUCT IS TO BE U.L. LISTED, R-6, FOIL-BACKED, CLASSIFIED AS A CLASS 1 AIR DUCT.
 - ALL METAL DUCT AND AIR DISTRIBUTION DEVICES ARE TO BE INSULATED WITH R-6, 2" X .75 DENSITY FOIL-BACKED INSULATION, WITH FIRE AND SMOKE RATING [25]E[50].
 - ALL DUCTWORK IS TO BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.
 - ALL DUCTWORK IS TO BE FABRICATED, INSTALLED, SEALED, AND EXTERNALLY INSULATED PER SMACNA LOW-VELOCITY DUCT MANUAL (LATEST ISSUE). INTERNALLY LINED DUCTWORK IS NOT ALLOWED.
 - UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS ARE TO HAVE A MANUAL VOLUME CONTROL DAMPER.
 - THE HVAC CONTRACTOR IS TO COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED CEILING PLAN.
 - THE HVAC CONTRACTOR IS TO FURNISH A WRITTEN GUARANTEE COVERING A ONE-YEAR PERIOD FOR ALL HVAC EQUIPMENT AND PROVIDE AN ADDITIONAL FOUR-YEAR PERIOD FOR THE COMPRESSORS IN THE RTUS. ALL FANS TO BE U.L. LISTED.
 - UPON COMPLETION OF PROJECT THE HVAC CONTRACTOR IS TO HIRE AN A.A.B.C. OR N.E.B.B. CERTIFIED, INDEPENDENT TEST AND BALANCE COMPANY TO CONDUCT A COMPLETE, CERTIFIED TEST AND BALANCE OF ALL HVAC EQUIPMENT. PROVIDE A WRITTEN REPORT TO NCA CONSULTANTS. ALL CAPACITIES MUST BE SET TO AMOUNTS INDICATED ON THE FLOOR PLANS AND SCHEDULES.
 - THE HVAC CONTRACTOR IS TO FURNISH AND INSTALL ALL LOW-VOLTAGE WIRING, AND MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING TEMPERATURE CONTROLS, RTUS, AND SMOKE DETECTORS.

GENERAL CONTRACTOR

- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. ALL MATERIAL MUST BE STORED INSIDE THE BUILDING. HOODS MUST BE STORED IN THE KITCHEN.
- IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENING. COORDINATE ROOF OPENINGS WITH THE KITCHEN EQUIPMENT PLAN AND EXHAUST HOOD PLANS. OBTAIN THE CORRECT PLANS FROM THE KITCHEN EQUIPMENT SUPPLIER.
- RTU ROOF OPENING SIZES AND ROOF CURBS ARE BASED ON EQUIPMENT SHOWN. IF OTHER EQUIPMENT IS USED, VERIFY ROOF OPENING REQUIREMENTS. MAKE PENETRATION AS NEEDED FOR INSTALLATION OF NEW CURB AND RTU. COORDINATE ON SITE WITH HVAC CONTRACTOR. ENSURE THAT ROOFING MATERIAL DOES NOT COVER THE TOP OF ANY HVAC EQUIPMENT CURB.
- ALL ROOF, CEILING, WALL, AND STRUCTURAL FRAMING REQUIRED FOR UNIT, FAN, DUCT, DIFFUSER, AND ALL OTHER HVAC WORK IS TO BE BY THE G.C. COORDINATE ON SITE WITH HVAC CONTRACTOR. GENERAL CONTRACTOR IS TO PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER IBC AND LOCAL CODES. ANY REQUIRED PAINTING OF HVAC WORK IS TO BE BY THE GENERAL CONTRACTOR.
- IF NECESSARY THE GENERAL CONTRACTOR IS TO REMOVE, REPLACE, AND/OR REPAIR CEILING GRID AND TILES IN ORDER FOR THE HVAC WORK TO BE PERFORMED.

ELECTRICAL CONTRACTOR

- THE ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL PITCH POCKETS FOR POWER AND CONTROL WIRING, AND IS TO MAINTAIN 12" MINIMUM CLEARANCE FROM BACK PANEL OF AIR CONDITIONING UNITS. DO NOT PENETRATE BOTTOM OF RTU CURB.
- THE ELECTRICAL CONTRACTOR IS TO INSTALL LOW-VOLTAGE CONTROL WIRING FOR ALL AIR CONDITIONING CONTROLS.
- THE ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL DISCONNECTS FOR RTUS. WIRE THE RESTROOM EXHAUST FAN TO RUN CONTINUOUSLY WHILE THE DINING ROOM LIGHTS ARE ON, AND WIRE HOOD EXHAUST FANS, RTU BLOWERS, AND KITCHEN APPLIANCES PER NFPA96 AND LOCAL CODES.
- THE ELECTRICAL CONTRACTOR IS TO USE A MINIMUM OF 4-6" SEAL TITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MAY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.
- FOR EACH UNIT, THE ELECTRICAL CONTRACTOR IS TO PROVIDE ONE SINGLE-GANG RECEPTACLE TEST STATION FOR THE REMOTE SENSOR AND/OR T-STAT, AND ONE DOUBLE-GANG RECEPTACLE TEST STATION FOR THE ANNUNCIATOR, WITH GREEN AND RED LIGHT INDICATORS. THE FIRE AND MECHANICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUNCIATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETECTION DEVICES. WIRING WILL BE INSTALLED BY ELECTRICAL CONTRACTOR.

PLUMBING CONTRACTOR

- THE PLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL CONDENSATE DRAINS/GAS PIPING FOR ALL HVAC EQUIPMENT, AND PITCH POCKETS FOR RTU CONNECTIONS. DO NOT PENETRATE BOTTOM OF RTU CURB.
- THE PLUMBING CONTRACTOR IS TO COORDINATE PLUMBING VENT STACKS AND WATER HEATER FLUES WITH OUTSIDE AIR INTAKES OF A/C UNITS. 10'-0" MINIMUM CLEARANCE REQUIRED OR PER LOCAL CODE.
- THE PLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10'-0" MINIMUM CLEARANCE TO AIR INTAKES, OR PER LOCAL CODE. COORDINATE ON SITE WITH G.C. AND HVAC CONTRACTOR.

KEYED NOTES

- PROVIDE TYPE-I GREASE HOOD OVER COOKLINE APPLIANCES WITH U.L. LISTED, FACTORY MANUFACTURED, NON-WELD, DOUBLE-WALLED, FIRE INSULATED GREASE DUCT FROM CONNECTION ON HOOD TO EXHAUST FAN ON ROOF. REFER TO INSTRUCTIONS THAT SHIP WITH THE HOODS AND DUCT. OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. VERIFY DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION. REFER TO HOOD DETAILS SHEET. THIS SET, CONFIRM LOCATION ON SITE WITH MOST RECENT KITCHEN PLANS. ALL WORK IS TO BE PERFORMED PER NFPA96 AND LOCAL CODES, INCLUDING THE PROVISION OF FIRE WRAP AND ACCESS DOORS.
- PROVIDE REMOTE TEMPERATURE SENSOR 8' A.F.F. IN A WALL NEAR LOCATION SHOWN. SEAL WALL OPENINGS WITH CALK. AUDIO-VISUAL ANNUNCIATOR TIED INTO SMOKE DETECTOR. PROVIDE THERMOSTAT IN MANAGERS OFFICE. COORDINATE LOCATION ON SITE WITH G.C. AND EQUIPMENT. AVOID SOURCES OF HEAT. INSULATE BACKS OF SENSORS.
- TYPE "B" FLUE THROUGH ROOF WITH CONE FLASHING, RAIN SHIELD, AND WEATHER-PROOF CAP. PROVIDED BY PLUMBING CONTRACTOR. DISCHARGE SHALL BE MINIMUM 10 FEET FROM AIR INTAKES. OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. USE FACTORY-MANUFACTURED PIPE AND FITTINGS ONLY. COMBUSTION AIR IS PROVIDED VIA NATURAL DRAFT USING OUTSIDE AIR FROM THE ROOF-TOP UNITS.
- PROVIDE 10X10 EXHAUST DUCT TO EXHAUST FAN ON ROOF AS SHOWN. OFFSET AND TRANSITION AS NEEDED.
- UTILITY CABINET HOUSES HOOD CONTROLS AND FIRE SUPPRESSION.
- SHIM CURBS ON ROOF IN ORDER TO MAKE TOP OF CURBS LEVEL. SEE DETAIL ON SHEET M-2. CONFIRM STRUCTURAL FRAMING ON SITE PRIOR TO LAYING OUT ROOF PENETRATIONS.
- MANUAL PULL STATION FOR FIRE SUPPRESSION SYSTEM. VERIFY WITH G.C. AND LOCAL AUTHORITY NUMBER OF PULLS, FINAL LOCATION(S), AND HEIGHT ABOVE FINISH FLOOR.

NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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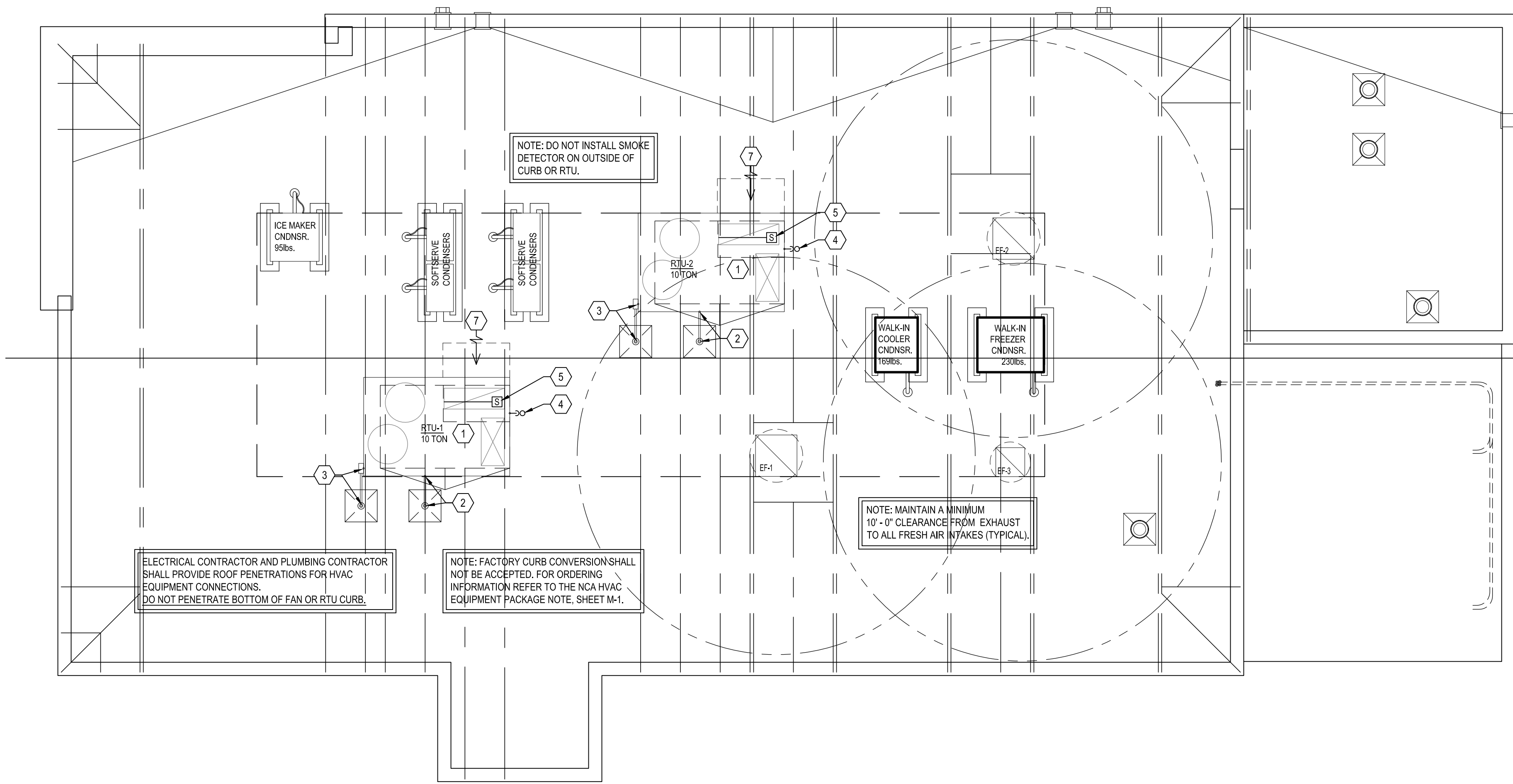
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ORIGINAL ISSUE

HVAC PLAN

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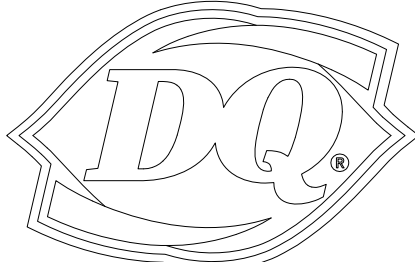
M1



MECHANICAL ROOF PLAN NOTES

- 1 SHIM BETWEEN BOTTOM OF CURB AND DECK TO MAKE CURB LEVEL.
- 2 NATURAL GAS ROOF PENETRATION, CONNECTION TO RTU BY PLUMBING CONTRACTOR
- 3 ELECTRICAL CONDUIT ROOF PENETRATION AND ELECTRICAL DISCONNECT BY ELECTRICAL CONTRACTOR.
- 4 CONDENSATE DRAIN WITH EXTERNAL, 4" DEEP P-TRAP INSTALLED BY HVAC CONTRACTOR. PLUMBING CONTRACTOR SHALL EXTEND DRAIN TO ACCEPTABLE LOCATION.
- 5 SMOKE DETECTOR, INSTALL IN RETURN SECTION OF CURB WITH SAMPLING TUBE IN RETURN AIRSTREAM. IF RTU HAS AN ECONOMISER, INSTALL DETECTOR IN RETURN GRILLE CAN.
- 6 WATER HEATER INTAKE & EXHAUST WITH APPROVED CAP PROVIDED BY PLUMBING CONTRACTOR
- 7 OUTSIDE AIR HOOD, MAINTAIN 10'-0" MINIMUM FROM ANY EXHAUST OR PLUMBING VENTS

NEW BUILDING FOR:



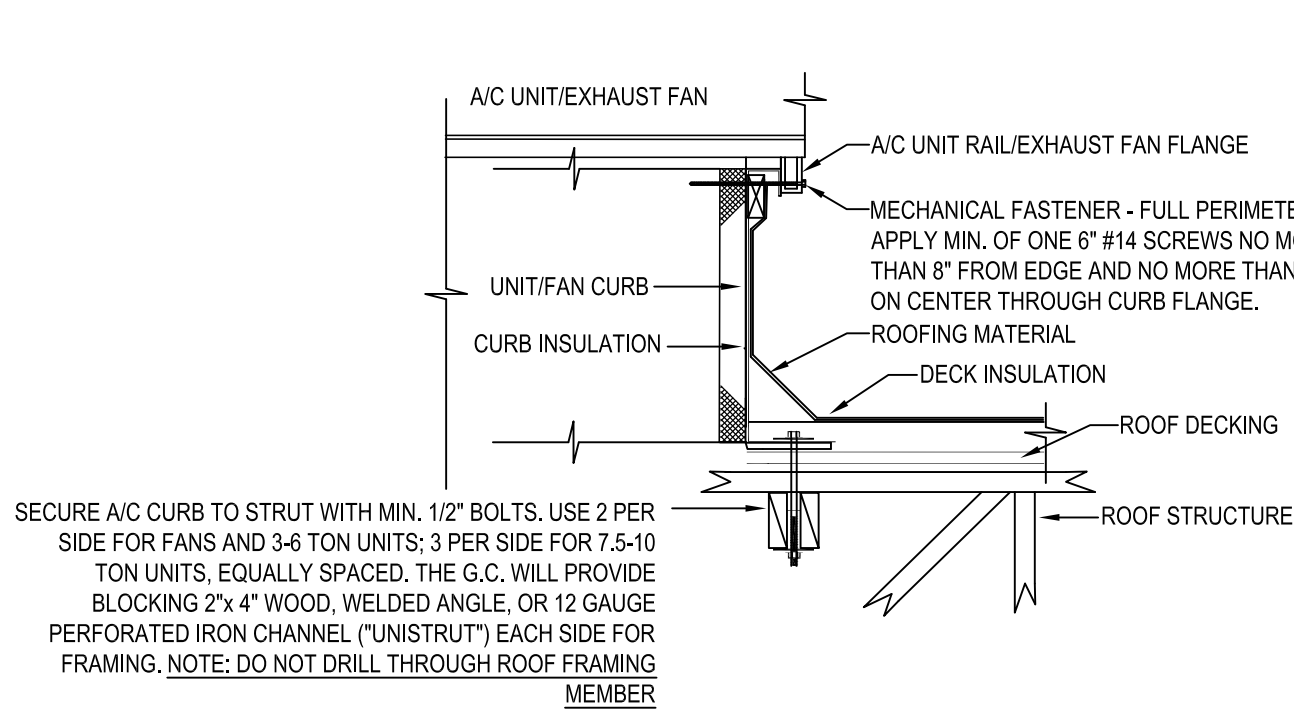
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1 MECHANICAL ROOF PLAN

M2 SCALE: 1/4" = 1'-0"



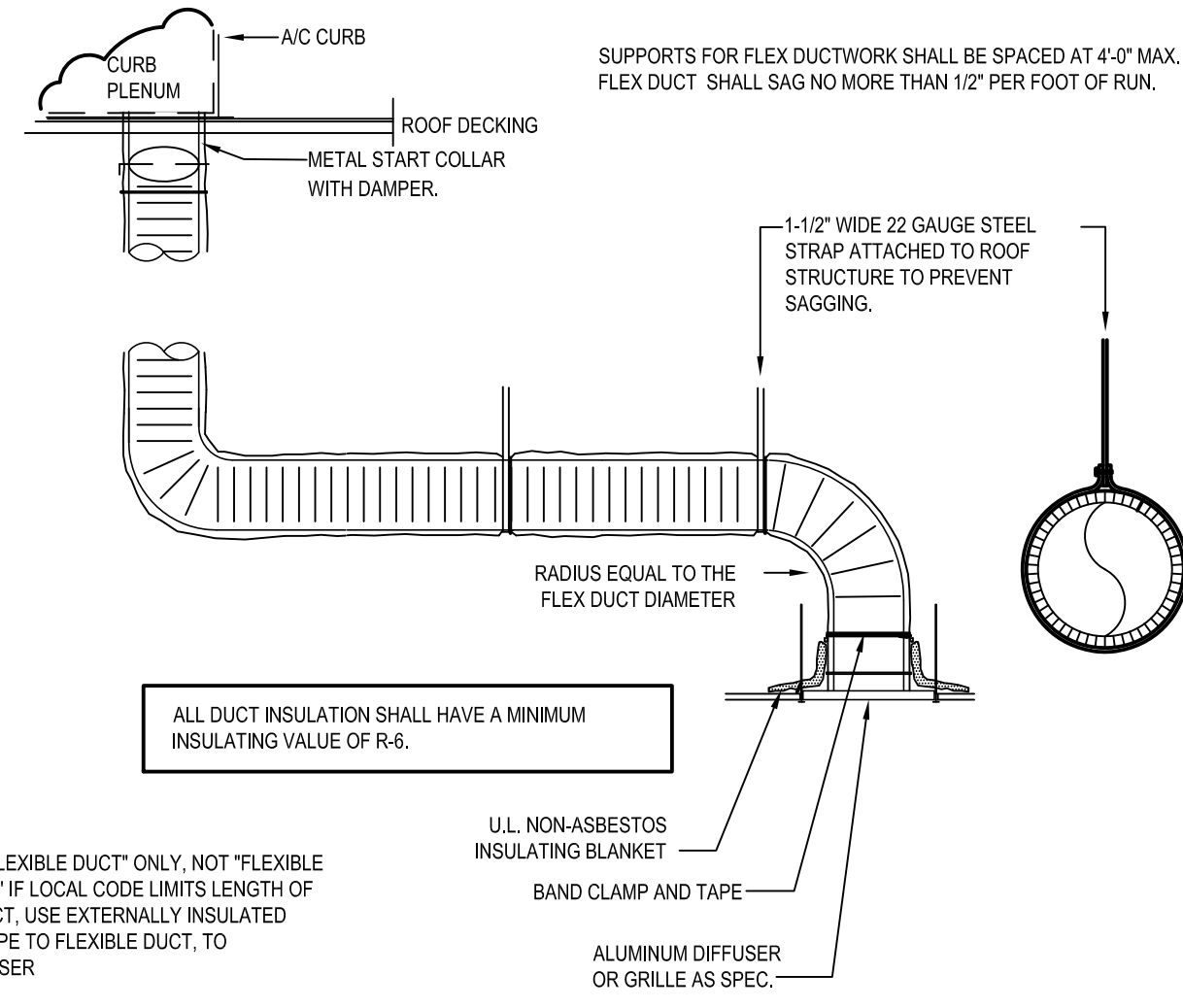
SECURE A/C CURB TO STRUT WITH MIN. 1/2" BOLTS, USE 2 PER SIDE FOR FANS AND 3-6 TON UNITS; 3 PER SIDE FOR 7.5-10 TON UNITS, EQUALLY SPACED. THE G.C. WILL PROVIDE BLOCKING 2"x 4" WOOD, WELDED ANGLE, OR 12 GAUGE PERFORATED IRON CHANNEL ("UNISTRUT") EACH SIDE FOR FRAMING. NOTE: DO NOT DRILL THROUGH ROOF FRAMING MEMBER

ACCEPTABLE FOR 140 MPH WIND

VERIFY ON SITE WITH GENERAL CONTRACTOR

1 ROOF EQUIP. CURB MOUNTING DETAIL

M2



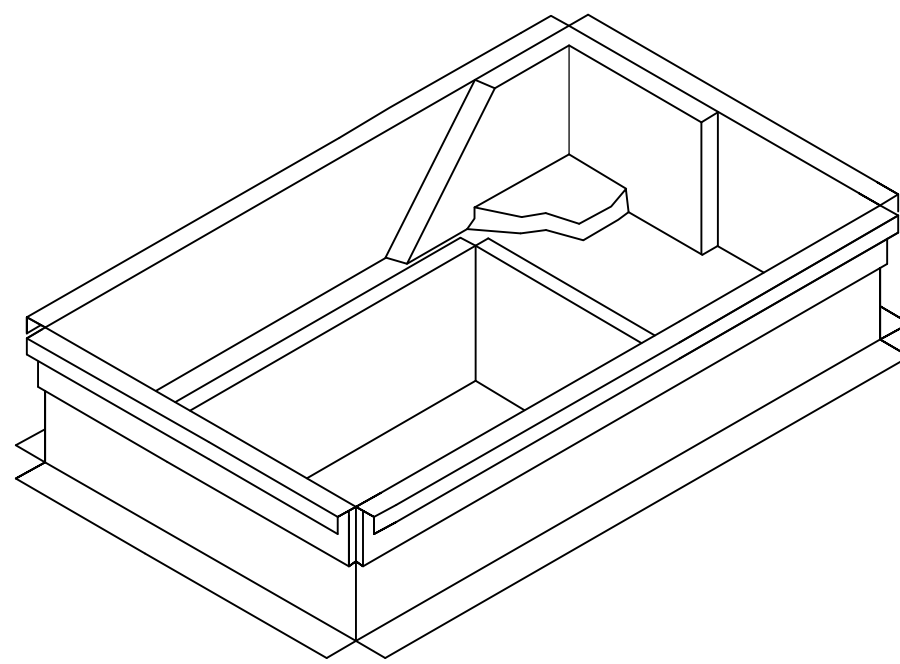
NOTE: USE "FLEXIBLE DUCT" ONLY, NOT "FLEXIBLE CONNECTOR;" IF LOCAL CODE LIMITS LENGTH OF FLEXIBLE DUCT, USE EXTERNALLY INSULATED SNAPLOCK PIPE TO FLEXIBLE DUCT, TO GRILLE/DIFFUSER

DUCT SCHEDULE	
SIZE	GAUGE
6"Ø - 8"Ø	26
10"Ø - 12"Ø	26
14"Ø - 16"Ø	24
18"Ø - 20"Ø	22

DUCT SUPPORT
SUPPORT DUCTWORK WITH 1-1/2" WIDE 22 GAUGE STEEL STRAPS FIRMLY ATTACHED TO THE BUILDING STRUCTURE. SPACING SHALL BE MAXIMUM 10'-0" FOR RIGID DUCTWORK, AND MINIMUM 4'-0" FOR FLEXIBLE DUCTWORK. 12 GAUGE WIRE MAY BE SUBSTITUTED FOR STRAPS IF 1-1/2" WIDE 22 GAUGE STEEL SADDLES ARE USED TO FULLY ENCLOSE DUCT. REFER TO THE HVAC DUCT CONSTRUCTION STANDARDS PUBLISHED BY SMACNA FOR ADDITIONAL DETAILS. FULLY COMPLY WITH MECHANICAL CODES.

1 RIGID/FLEX DUCT CONNECTION/INSTALL DETAIL

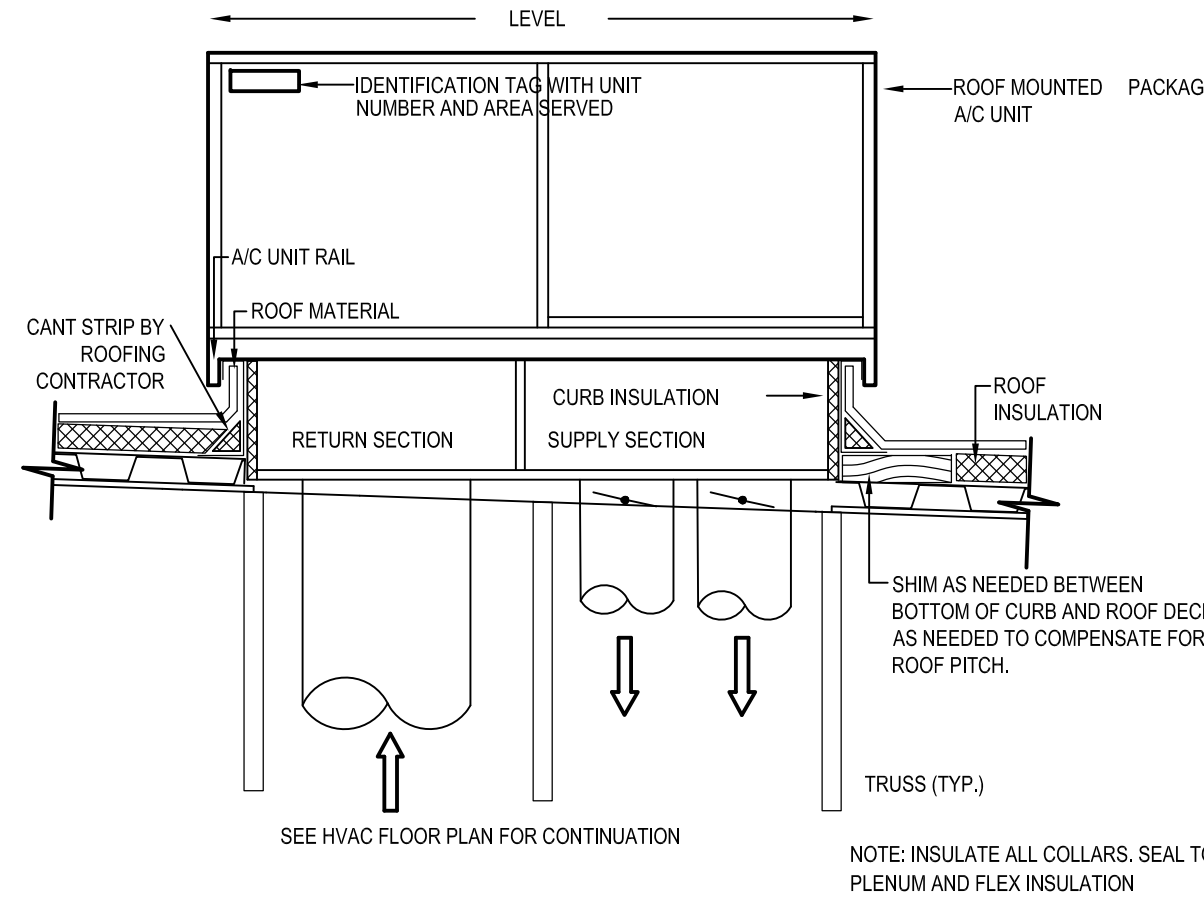
M2



FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.

1 NCA PLENUMIZED AC CURB DETAIL

M2



SEE HVAC FLOOR PLAN FOR CONTINUATION

NOTE: INSULATE ALL COLLARS. SEAL TO PLENUM AND FLEX INSULATION

1 DUCT RISER/LEVELING DETAIL

M2

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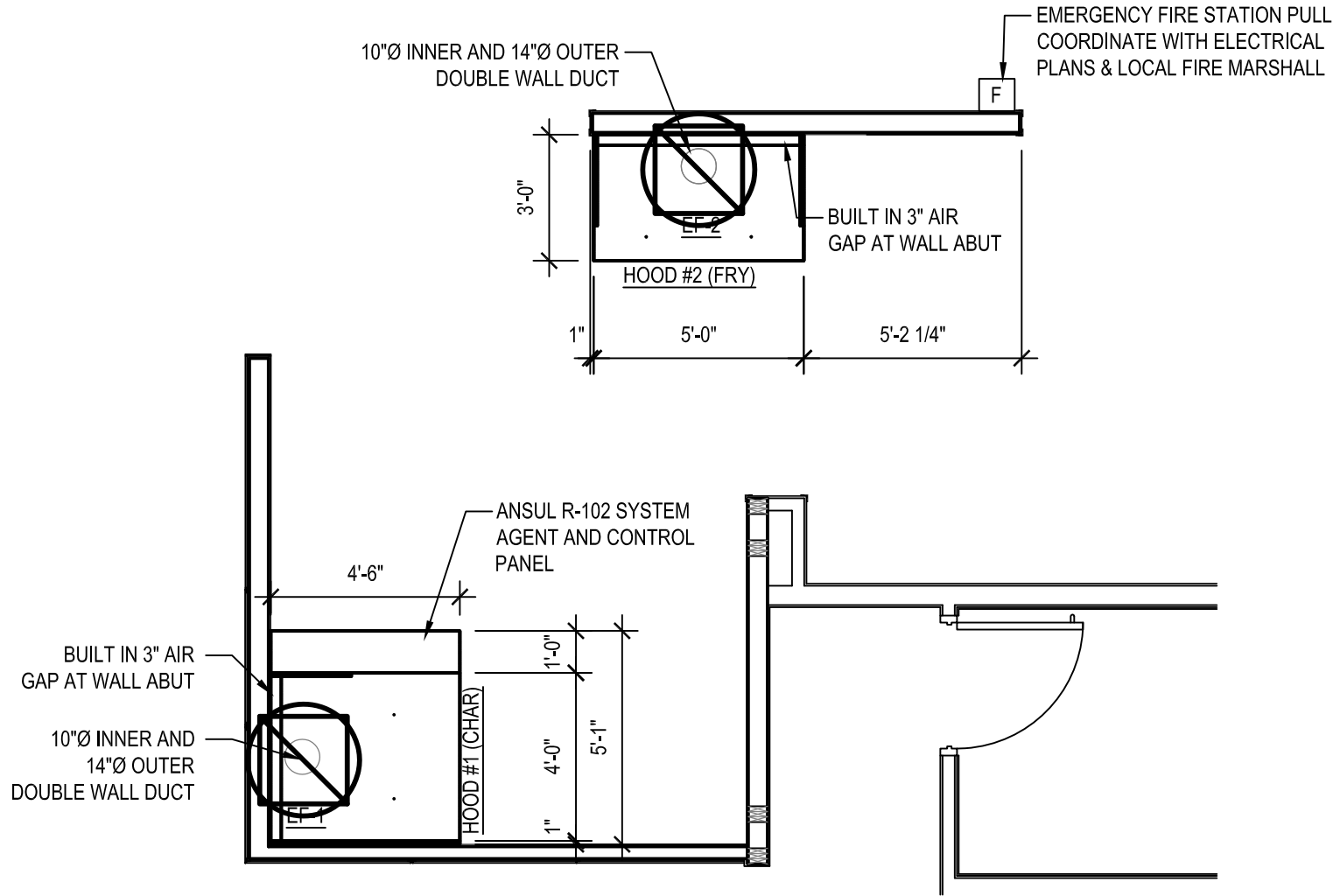
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MECHANICAL ROOF PLAN

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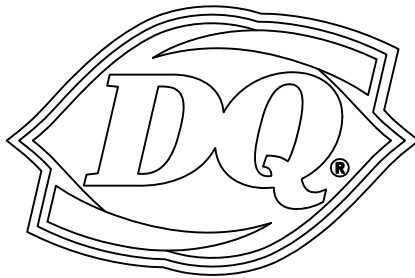
M2



1 HOOD LOCATION PLAN
M3 SCALE: 1/4" = 1'-0"

HVAC MECHANICAL EQUIPMENT/KITCHEN VENTILATION SYSTEM RESPONSIBILITY MATRIX									
EQUIPMENT	TAG	SPECIFIED MFG.	PRICE QUOTE & ORDER THRU	EQUIPMENT PROVIDED BY	ROOF CURB PROVIDED BY	CHECK TEST & BALANCE	EQUIPMENT INSTALLED BY	EQUIPMENT STARTUP BY	1ST YEAR LABOR WARRANTY
EXHAUST FANS	EF-1, EF-2	NCA/CAPTIVEAIRE	NCA/NHP	NCA/NHP	NCA/NHP	NCA/CAPTIVEAIRE	MECH. CONTR.	MECH. CONTR.	MECH. CONTR.
KITCHEN HOOD	HOOD 1, HOOD 2	NCA/CAPTIVEAIRE	NCA/NHP	NCA/NHP	NCA/NHP	NCA/CAPTIVEAIRE	MECH. CONTR.	MECH. CONTR.	MECH. CONTR.
HOOD FIRE SYS.	HOOD 1, HOOD 2	NCA/CAPTIVEAIRE	NCA/NHP	NCA/NHP	NCA/NHP	NCA/CAPTIVEAIRE	NCA/CAPTIVEAIRE	NCA/CAPTIVEAIRE	NCA/CAPTIVEAIRE
ROOFTOP UNITS	RTU-1, RTU-2, RTU-3	NCA/CARRIER	NCA/NHP	NCA/NHP	NCA/NHP	CAPTIVEAIRE	MECH. CONTR.	MECH. CONTR.	MECH. CONTR.
GRILLES/DIFFUSERS	-	NCA	NCA/NHP	NCA/NHP	NCA/NHP	N/A	MECH. CONTR.	MECH. CONTR.	MECH. CONTR.
<p>NCA/NHP NATIONAL ACCOUNTS PROVIDED HVAC EQUIPMENT AND MATERIAL PACKAGE</p> <ul style="list-style-type: none">THE HVAC EQUIPMENT AND MATERIALS OUTLINED IN THE RESPONSIBILITY MATRIX SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR THROUGH "NCA NATIONAL ACCOUNTS". FOR NATIONAL ACCOUNT PRICING & SHIPPING REFER TO NATIONAL VENDORS LIST.THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ORDERING, DELIVERY, AND STORAGE OF THE EQUIPMENT AND MATERIALS PACKAGE.THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THE EQUIPMENT AND MATERIALS PACKAGE. <p>NCA/NHP NATIONAL ACCOUNTS - PROVIDED ROOF TOP EQUIPMENT PACKAGE</p> <ul style="list-style-type: none">INCLUDES ALL ROOFTOP HEATING AND AIR CONDITIONING EQUIPMENT WITH ALL ACCESSORIES AS SPECIFIED ON THESE PLANS AND SPECIFICATIONS. SEE SCHEDULE ON SHEET M3. <p>NCA/NHP NATIONAL ACCOUNTS - PROVIDED AIR DEVICE PACKAGE</p> <ul style="list-style-type: none">INCLUDES ALL REGISTERS, GRILLES & DIFFUSERS WITH SQUARE TO ROUND TRANSITIONS WHERE REQUIRED AS SPECIFIED ON THESE PLANS & SPECIFICATIONS. <u>KITCHEN: WHITE, DINING ROOM: FINISH M.24 SHEETS A5.3 & A7.1.</u> <p>NCA/NHP NATIONAL ACCOUNTS - PROVIDED CURB PACKAGE</p> <ul style="list-style-type: none">INCLUDES ROOF CURBS FOR RTU-1, RTU-2, & RTU-3. <p>NCA/CAPTIVEAIRE - FRANCHISEE PROVIDED KITCHEN VENTILATION SYSTEMS PACKAGE</p> <ul style="list-style-type: none">THE KITCHEN VENTILATION SYSTEM COMPONENTS OUTLINED IN THE RESPONSIBILITY MATRIX SHALL BE PROVIDED AS PART OF THE FRANCHISEE'S EQUIPMENT PACKAGE. COORDINATED AND INSTALLED BY THE MECHANICAL CONTRACTOR. REFER TO NATIONAL VENDORS LIST FOR CONTACT INFORMATION. <p>NCA/CAPTIVEAIRE - PROVIDED FIRE SUPPRESSION SYSTEM PACKAGE</p> <ul style="list-style-type: none">A FACTORY INSTALLED FIRE SUPPRESSION SYSTEM WILL BE PROVIDED FOR THE KITCHEN EXHAUST HOODS UNDER THE FRANCHISEE'S EQUIPMENT PACKAGE. LOCAL PERMITS, HOOK UP OF DETECTION AND SUPPLY LINES, INSTALLATION OF PULL STATION AND FIRE SUPPRESSION AGENT AND CHECKOUT ARE PROVIDED BY CAPTIVEAIRE UNDER THE FRANCHISEE'S EQUIPMENT PACKAGE.ITEMS THAT ARE NOT INCLUDED: SPECIAL DRAWINGS THAT MAYBE REQUIRED BY STATE/LOCAL AUTHORITIES, INSTALLATION OF GAS SHUNT TYPE VALVE, ELECTRICAL INTERLOCK TO EXHAUST FAN BY OTHERS, FULL DUMP TEST IF REQUIRED IS NOT INCLUDED. <p>NCANHP - PROVIDED THIRD PARTY CHECK, TEST & BALANCE PACKAGE</p> <ul style="list-style-type: none">A COMPLETE BUILDING AIR BALANCE, INCLUDING THE AIR CONDITIONING EQUIPMENT, TO ENSURE CORRECT KITCHEN HOOD CAPTURE & OCCUPANT COMFORT PROVIDED BY NCA/CAPTIVEAIRE UNDER THE FRANCHISEE'S EQUIPMENT PACKAGE. <p>HVAC/KITCHEN VENTILATION SERVICES AND WARRANTY PACKAGE</p> <ul style="list-style-type: none">MECHANICAL CONTRACTOR WILL PROVIDE THE HVAC SERVICES AND WARRANTY PACKAGE.HVAC SERVICES AND WARRANTY PACKAGE: SEE MATRIX ABOVE.MECHANICAL CONTRACTOR IS RESPONSIBLE TO CORRECT INSTALLATION DEFICIENCIES THAT OBSTRUCT THE COMPLETION OF THE BUILDING AIR BALANCING AND HVAC SERVICES WARRANTY PACKAGE.									

NEW BUILDING FOR:



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MECHANICAL
DETAILS

SHEET NUMBER:

M3

HOOD INFORMATION – JOB#4962551

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP		END TO END	ROW
1	Broiler	5424 ND-2	CAPTIVEAIRE	4' 0"	600 DEG	I	HEAVY	262	1050			4"	10"	1050	1925	-0.998"	430 SS WHERE EXPOSED	ALONE	ALONE
2	Fryer	3650 BD-2	CAPTIVEAIRE	5' 0"	450 DEG	I	MEDIUM	160	800			4"	10"	800	1467	-0.534"	430 SS WHERE EXPOSED	ALONE	ALONE

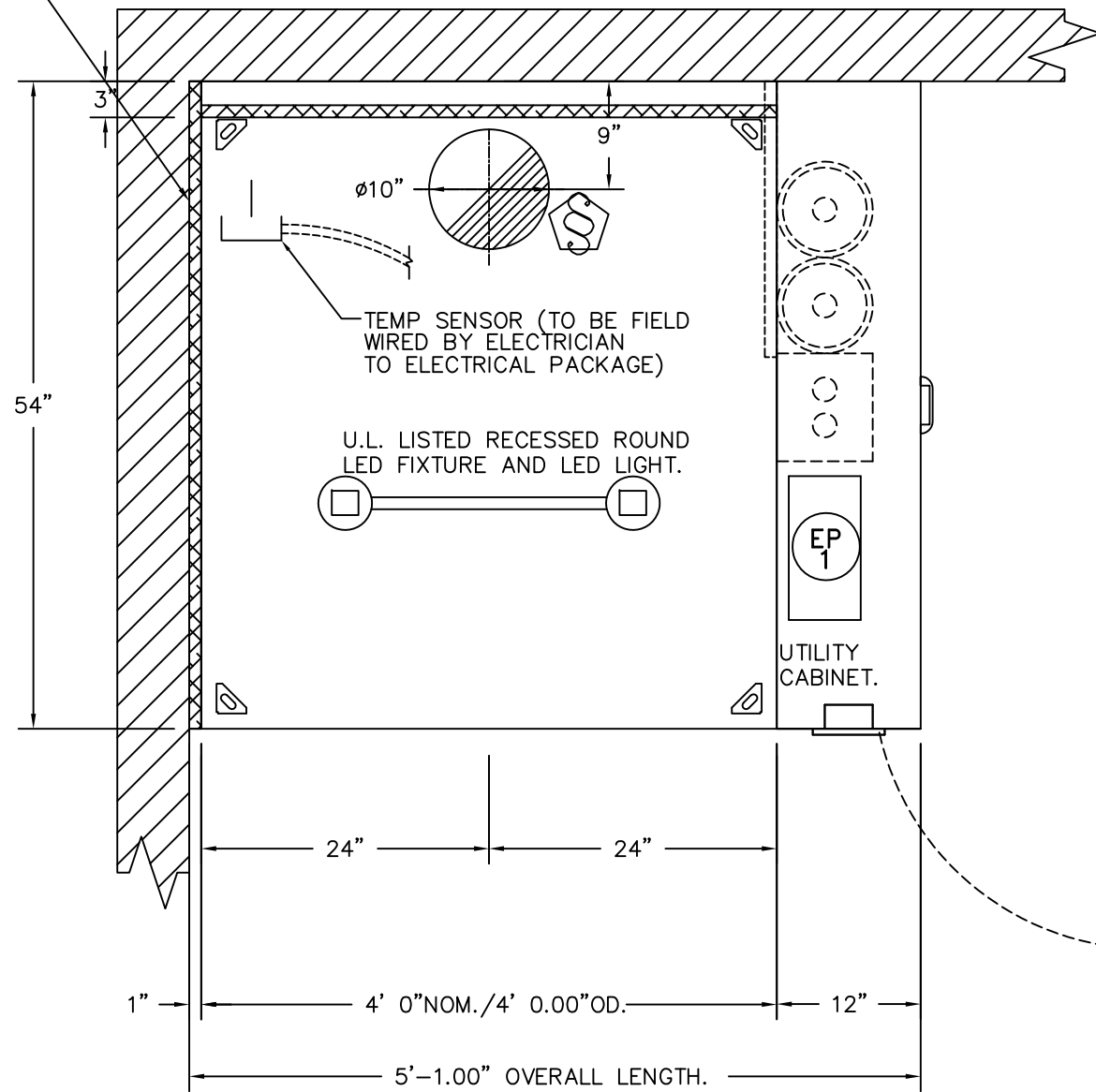
HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL			SWITCHES
												TYPE	SIZE	MODEL #			QUANTITY
1	Broiler	CAPTRATE SOLO FILTER	2	16"	20"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO	RIGHT	12"x54"x24"	TANK FIRE SUPPRESSION	4.0/4.0	SC-120110MA_MA4	1 LIGHT 1 FAN	YES	689 LBS
2	Fryer	CAPTRATE SOLO FILTER	3	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO							YES	243 LBS

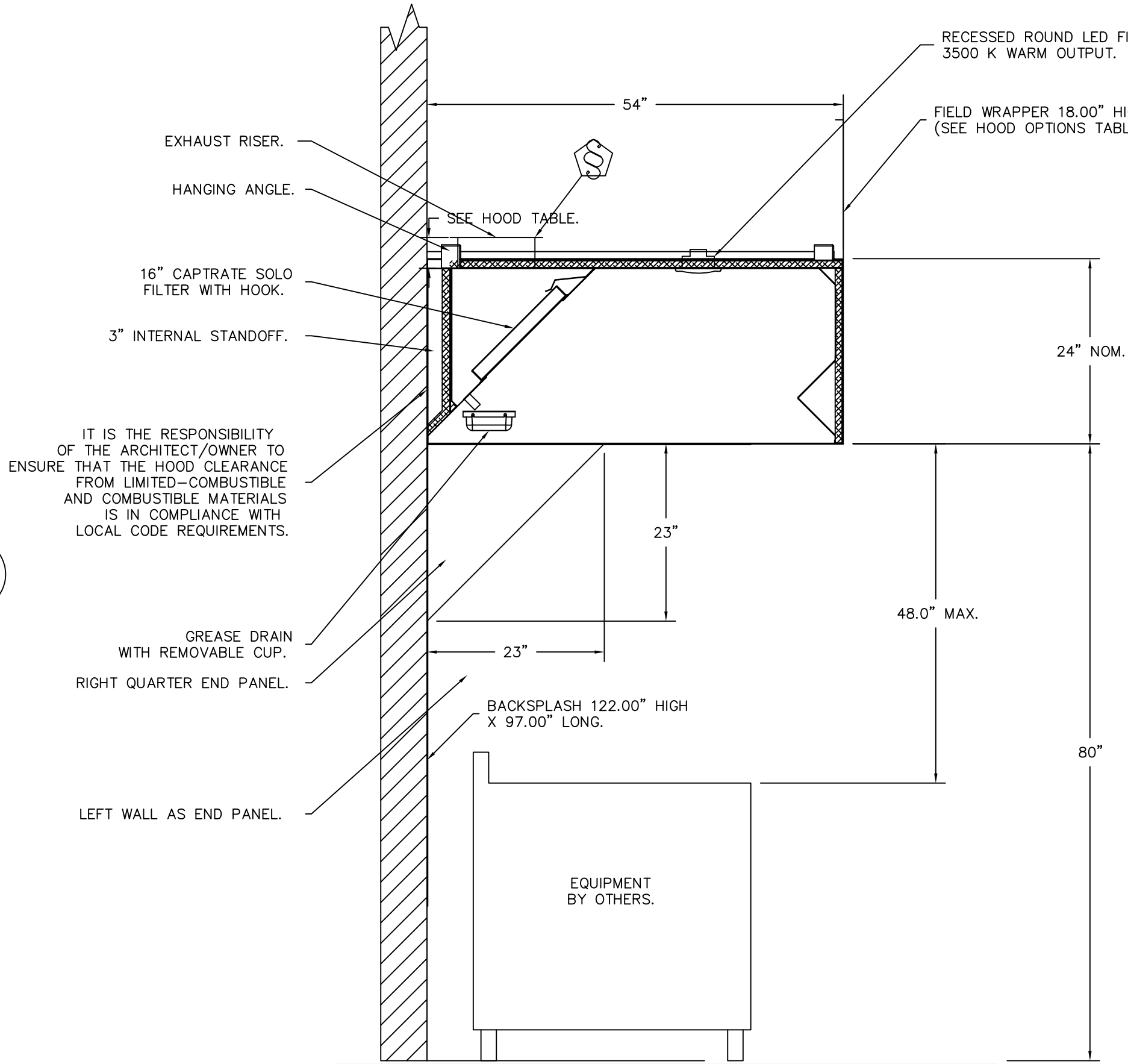
HOOD OPTIONS

HOOD NO	TAG	OPTION
1	Broiler	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00" HIGH X 97.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
		RISER SENSOR INSTALL 6IN PLEN.
2	Fryer	RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		RIGHT PANEL.
		FIELD WRAPPER 36.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 120.00" HIGH X 96.00" LONG 430 SS VERTICAL.
		RIGHT QUARTER END PANEL 26" TOP WIDTH, 0" BOTTOM WIDTH, 26" HIGH 430 SS.
		LEFT QUARTER END PANEL 26" TOP WIDTH, 0" BOTTOM WIDTH, 26" HIGH 430 SS.
		RISER SENSOR INSTALL 6IN PLEN.

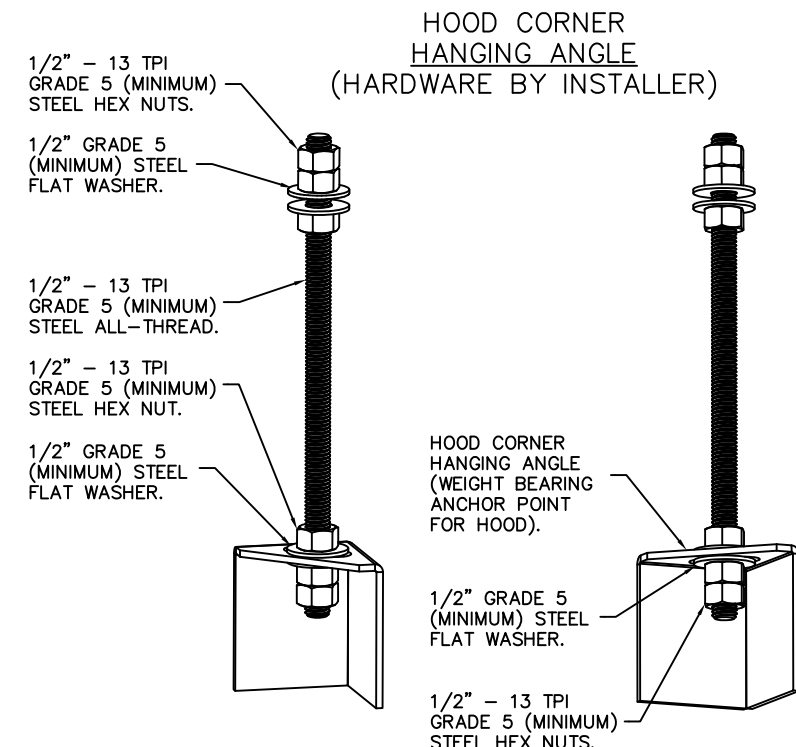
1" LAYER OF INSULATION FACTORY INSTALLED IN 1.00" END STANDOFF MEETS 0" REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.



PLAN VIEW – HOOD #1 (Broiler)
4' 0.00" LONG 5424ND-2

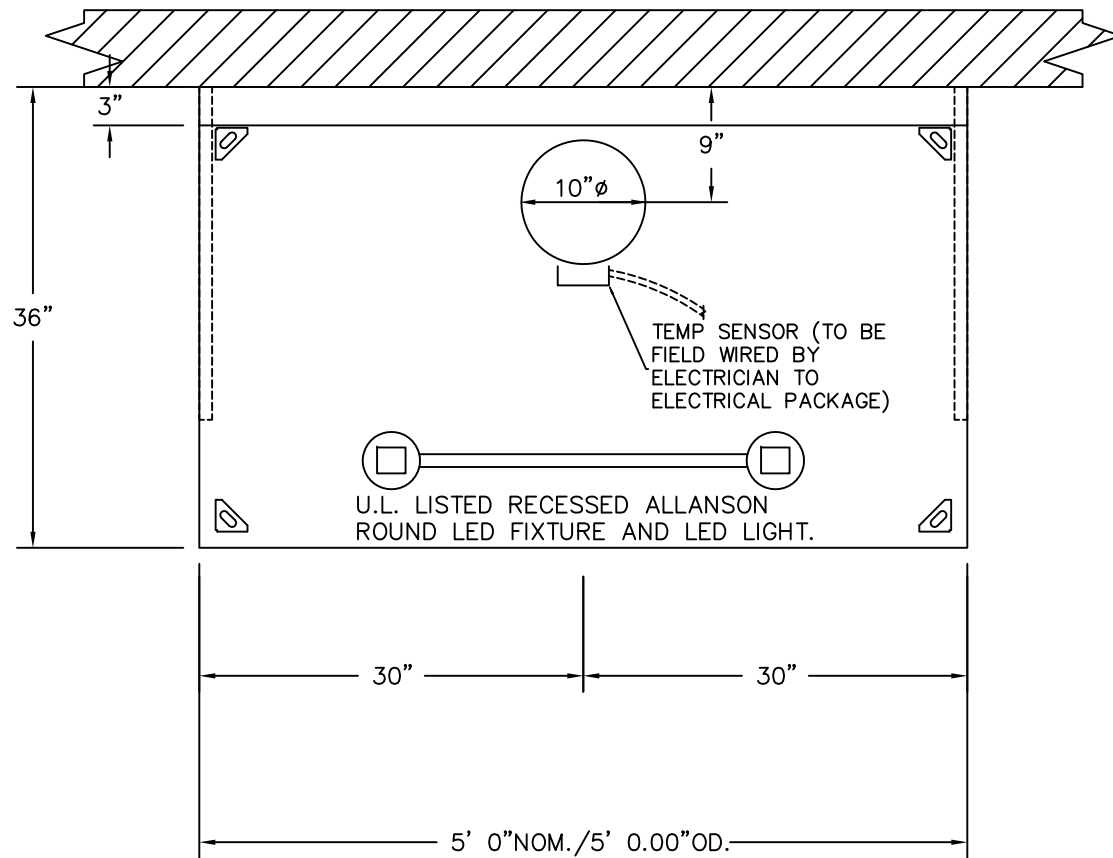


SECTION VIEW – MODEL 5424ND-2
HOOD – #1 (Broiler)

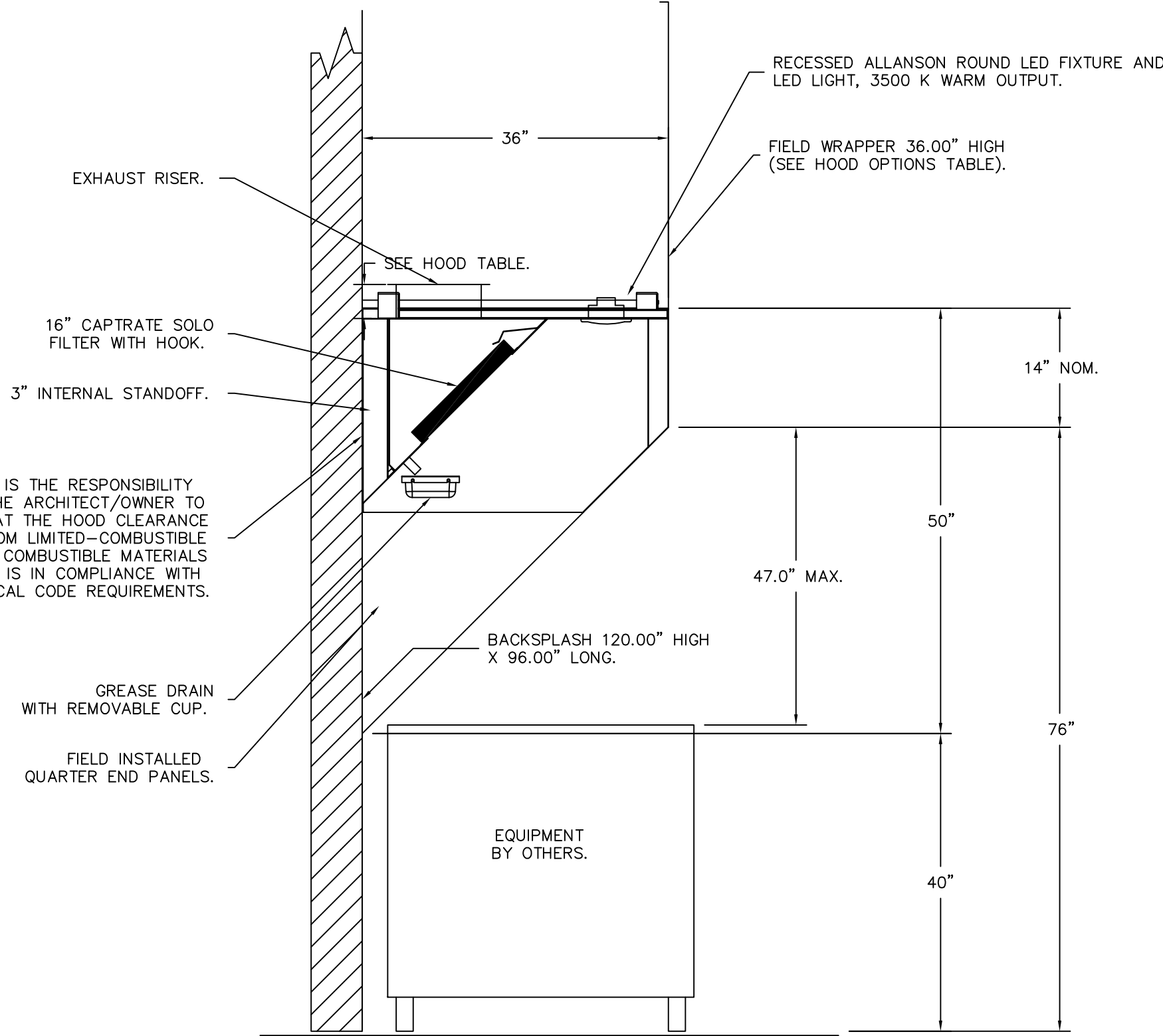


ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



PLAN VIEW – HOOD #2 (Fryer)
5' 0.00" LONG 3650BD-2



SECTION VIEW – MODEL 3650BD-2
HOOD – #2 (Fryer)

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

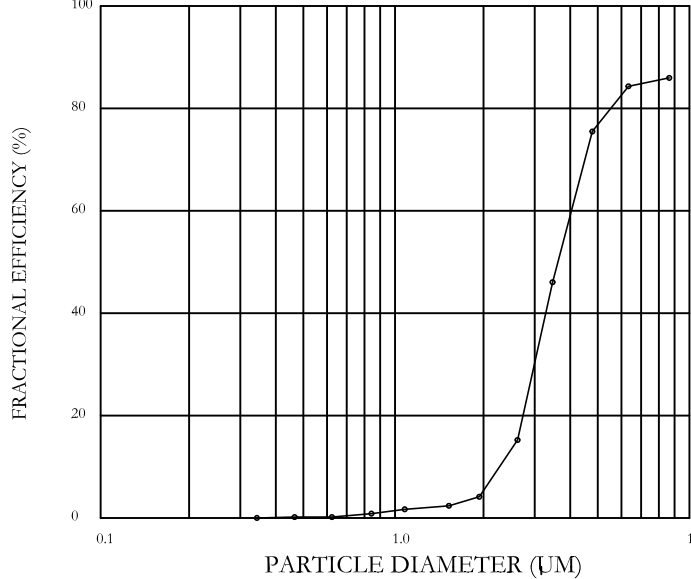
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

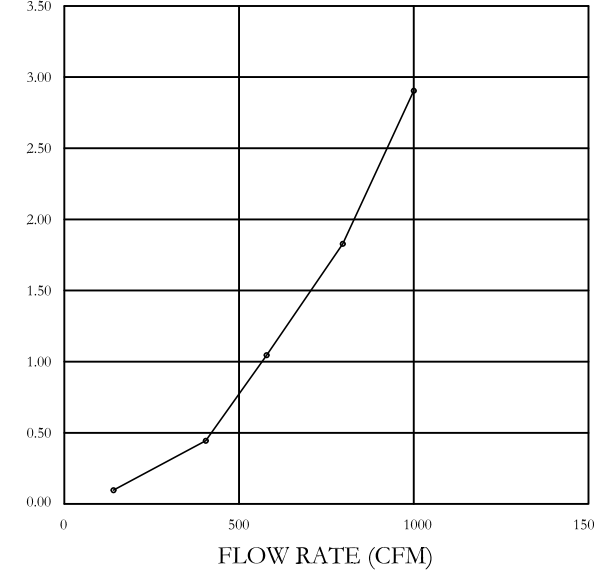
EFFICIENCY VS. PARTICLE DIAMETER



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:

NFPA #56
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC).
ULC-S649.

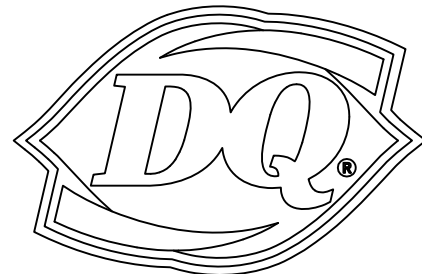
PRESSURE DROP VS. FLOW RATE



IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.

NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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REVISION DATE:

12/31/21 ORIGINAL ISSUE

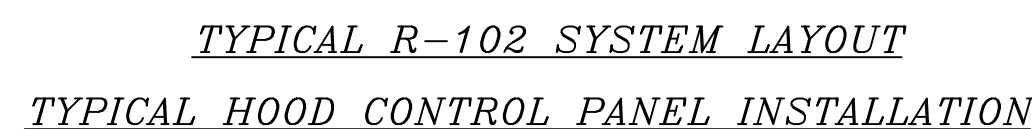
EXHAUST HOOD
DETAIL

SHEET NUMBER:

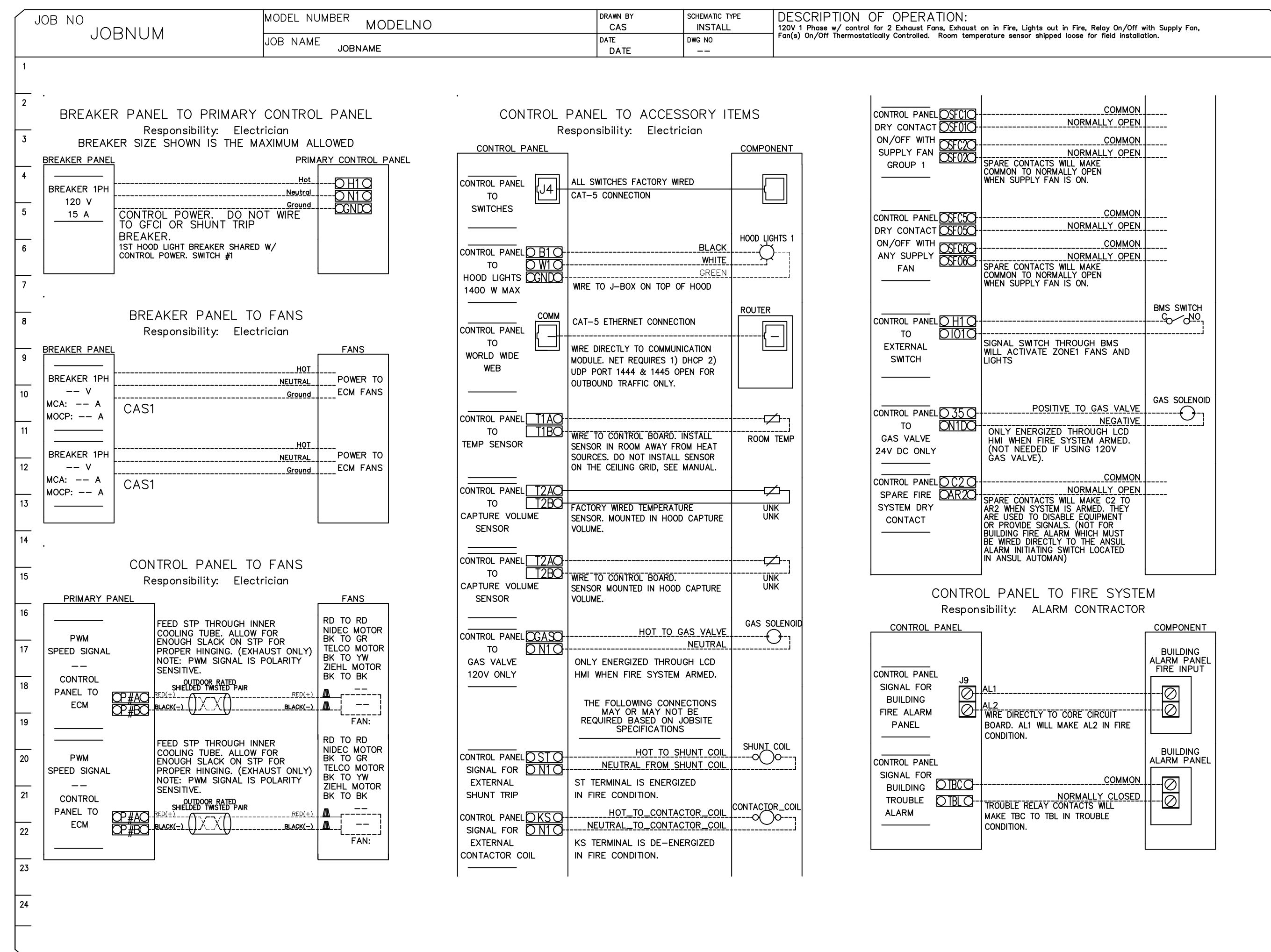
M4.1

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		CAS ELECTRIC WET CHEMICAL	4.0/4.0	12	FIRE CABINET RIGHT	RIGHT, HOOD 2

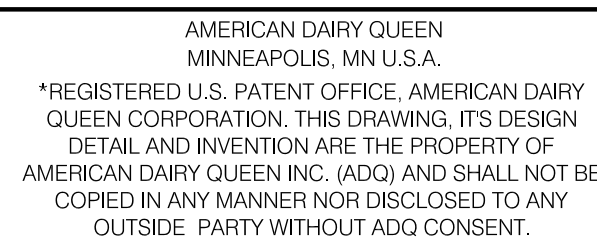
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS



NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED						
				LOCATION	QUANTITY		FAN TAG	TYPE	φ	HP	VOLT	FLA	
1		SC-120110MA-MA4	UTILITY CABINET RIGHT	04 – UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY							
				HOOD # 2	1 FAN								
							Fryer EF	EXHAUST	1	0.500	115	6.3	
							Broiler EF	EXHAUST	1	0.500	115	6.3	



HVAC SYSTEM		DESCRIPTION BY	
N • C • A CONSULTANTS GROUP		DATE	PROTOTYPE USE ONLY
		12-20-20	
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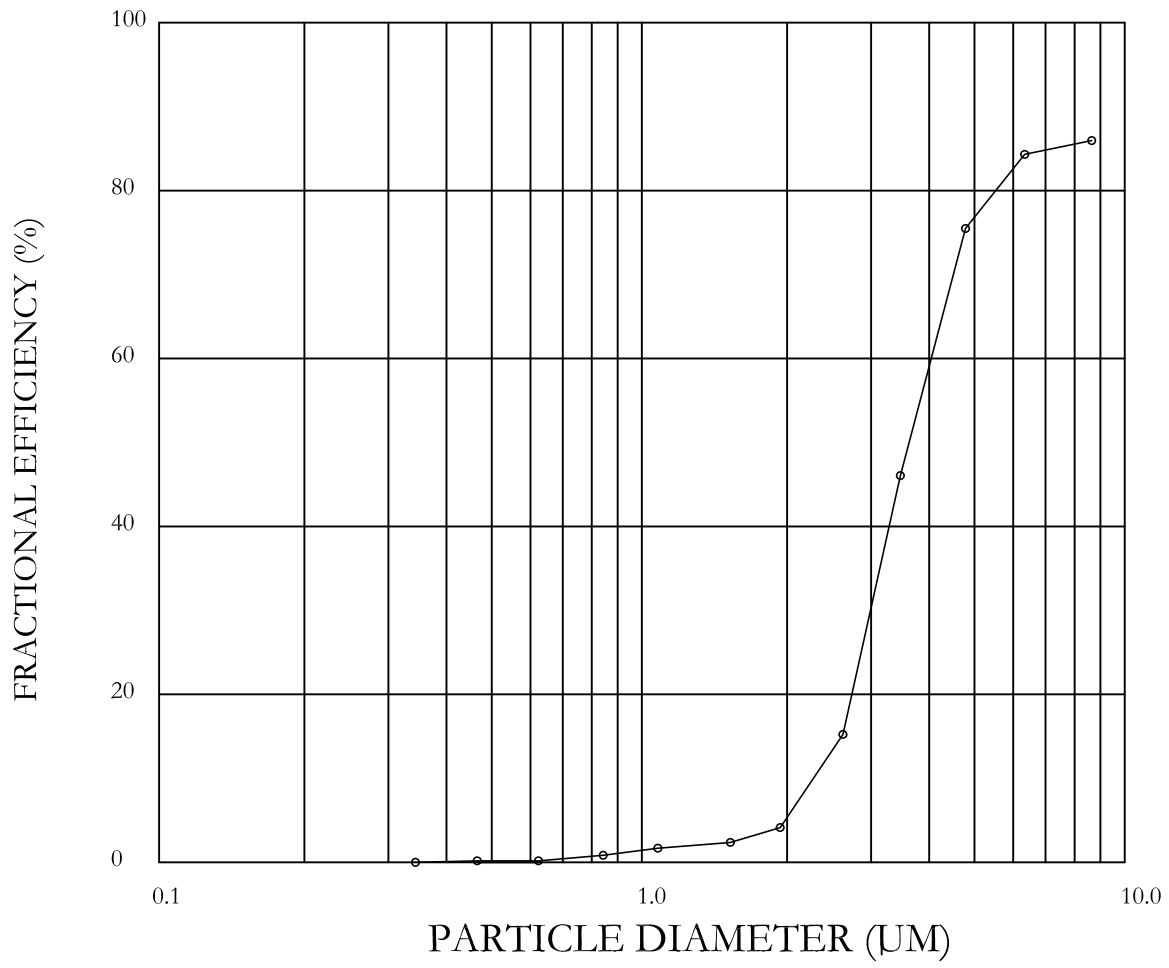
ISSUE DATE: 12/31/21	
REVISION DATE:	
12/31/21	ORIGINAL ISSUE
<u>1</u>	
<u>2</u>	
<u>3</u>	

EXHAUST HOOD DETAIL

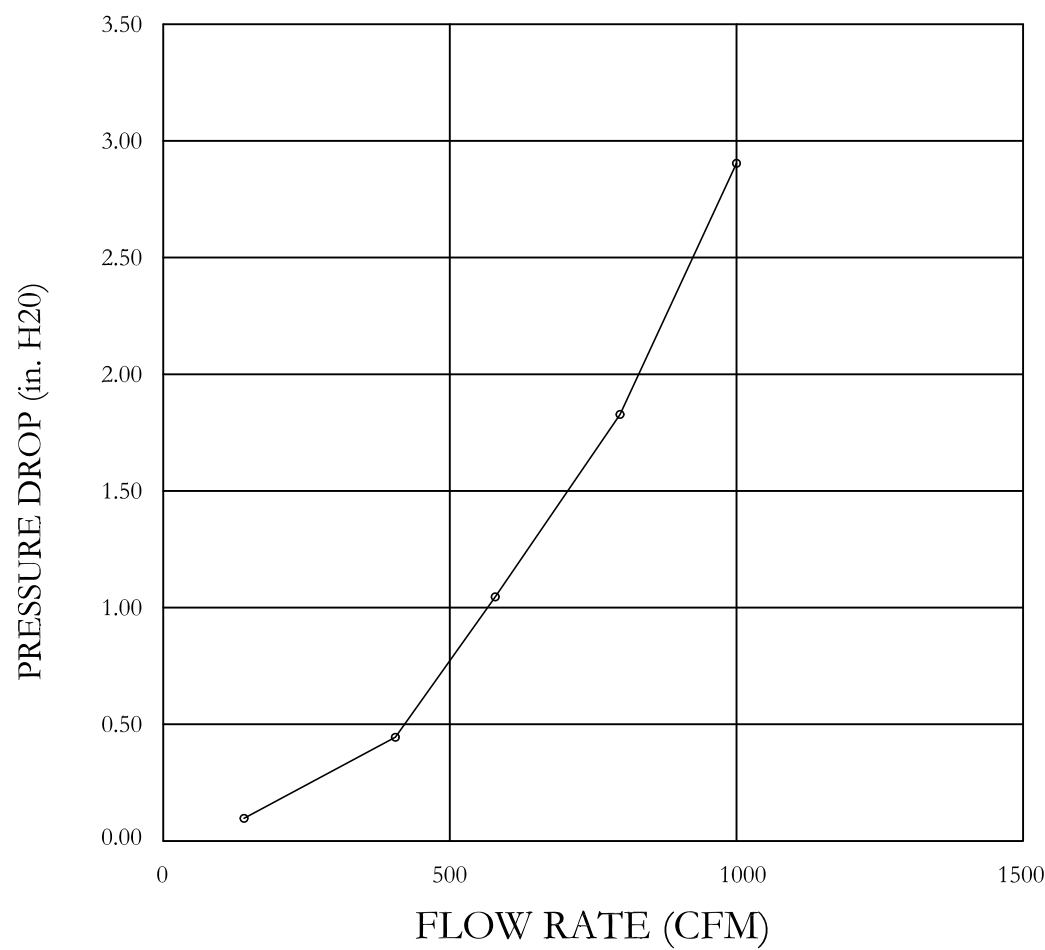
SHEET NUMBER:

M4.2

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

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THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.

- NFPA #96.
- NSF STANDARD #2.
- UL STANDARD #1046.
- INT. MECH. CODE (IMC).
- ULC-S649.



FACTORY BUILT DOUBLE WALL GREASE DUCT MODEL DW-2R SPECIFICATION:

FURNISH DOUBLE WALL, FACTORY BUILT GREASE DUCT FOR USE WITH TYPE I KITCHEN HOODS, WHICH CONFORMS TO THE REQUIREMENTS OF NFPA-96. PRODUCTS SHALL BE ETL LISTED TO UL-1978 AND UL-2221 FOR VENTING AIR AND GREASE VAPORS FROM COMMERCIAL COOKING OPERATION. TESTING HAS BEEN EXTENDED TO RECOGNIZE ASTM E2336 AND AC101 DUE TO SIMILAR TESTING CRITERIA. MODELS DW-2R, 3R AND 3Z ARE USED FOR GREASE DUCT APPLICATIONS WHEN INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS AND NFPA 96; STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS. DOUBLE WALL GREASE DUCTS ARE LISTED FOR A CONTINUOUS INTERNAL TEMPERATURE OF 500 DEGREES F AND INTERMITTENT TEMPERATURES OF 2000 DEGREES F. THE DUCT SECTIONS SHALL BE CONSTRUCTED OF AN INNER DUCT WALL AND AN OUTER WALL WITH INSULATION IN BETWEEN. THE INNER DUCT WALL SHALL BE CONSTRUCTED OF .036 INCH THICK, 430 TYPE STAINLESS STEEL AND BE AVAILABLE IN DIAMETERS 8" THROUGH 24". THE OUTER WALL SHALL BE CONSTRUCTED OF STAINLESS STEEL AT A MINIMUM OF .024 INCH THICKNESS. THE DUCT, BASED ON MODEL NUMBER, SHALL INCLUDE LAYERS OF SUPER WOOL 607 PLUS INSULATION BETWEEN THE INNER AND OUTER WALL. GREASE DUCT JOINTS SHALL BE HELD TOGETHER BY MEANS OF FORMED V CLAMPS AND SEALED WITH 3M FIRE BARRIER 2000+. THE DUCT WALL ASSEMBLY SHALL BE TESTED AT 3/4" OR ZERO INCH CLEARANCE, ACCORDING TO CLASSIFICATIONS.

CLASSIFICATIONS AND CLEARANCES

UL 2221: STANDARD FOR FIRE RESISTIVE GREASE DUCT ENCLOSURE ASSEMBLIES. CHAPTER 7 OF THIS STANDARD REFERENCES A TEST LABELED INTERNAL FIRE TEST. SECTION 7.1.1 REFERENCES TWO INSTALLATION CONDITIONS, CONDITION A AND CONDITION B. CONDITION A REPRESENTS ALL INSTALLATION CONDITION EXCEPT FOR INSTALLATION WITHIN NON-VENTILATED COMBUSTIBLE ENCLOSURES. CONDITION B REPRESENTS INSTALLATION WITHIN A NON-VENTILATED COMBUSTIBLE ENCLOSURE.

MODEL DW-2R IS CLASSIFIED UNDER UL2221 AS AN ALTERNATE TO 2-HR FIRE RESISTIVE SHAFT ENCLOSURES WITH A REDUCED CLEARANCE TO COMBUSTIBLES (SIZES 8" TO 16" DIAMETER).

MODEL 2R IS LISTED IN ACCORDANCE WITH THE REQUIREMENTS FOR DUCT ENCLOSURE CONDITION B.

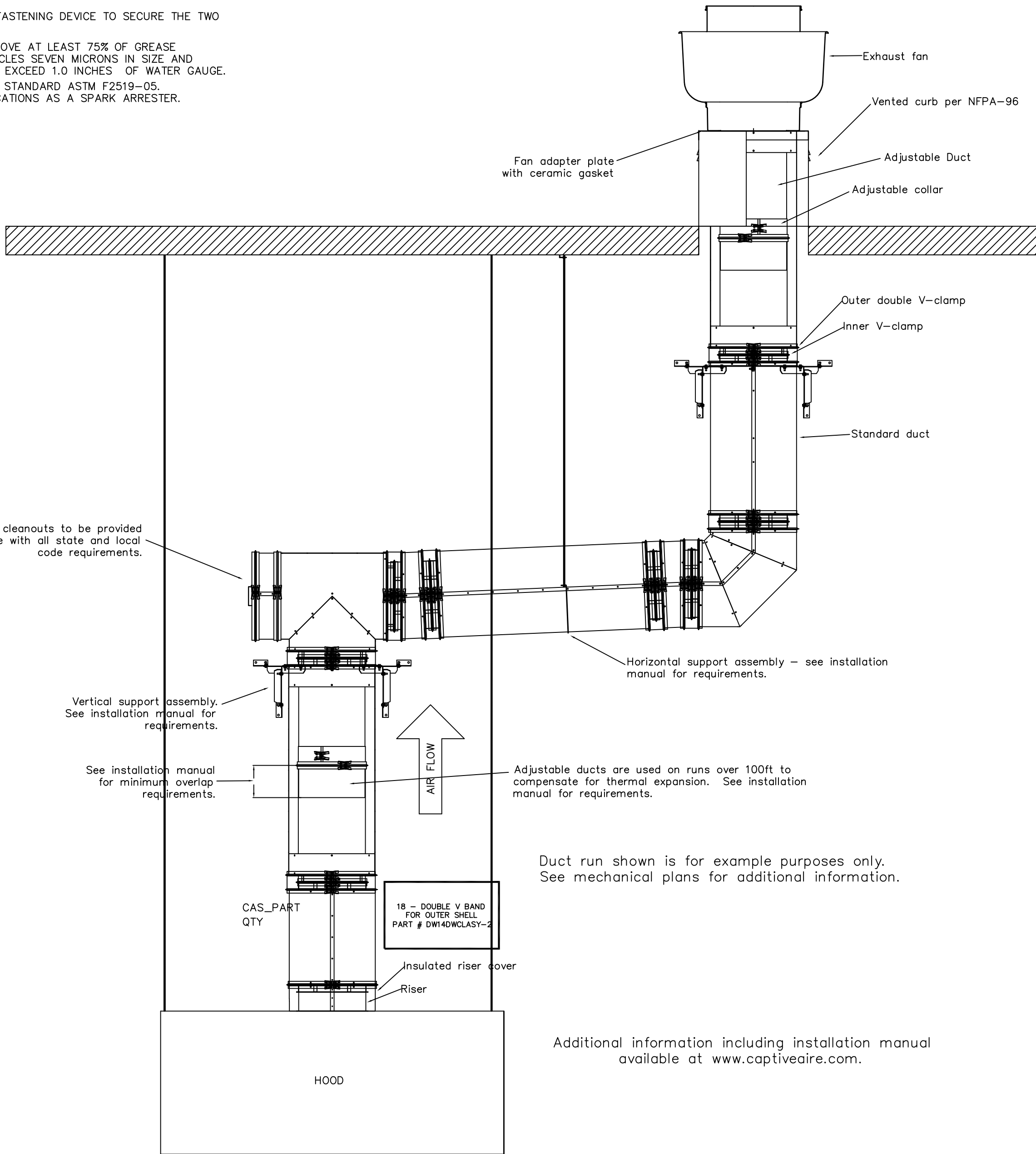
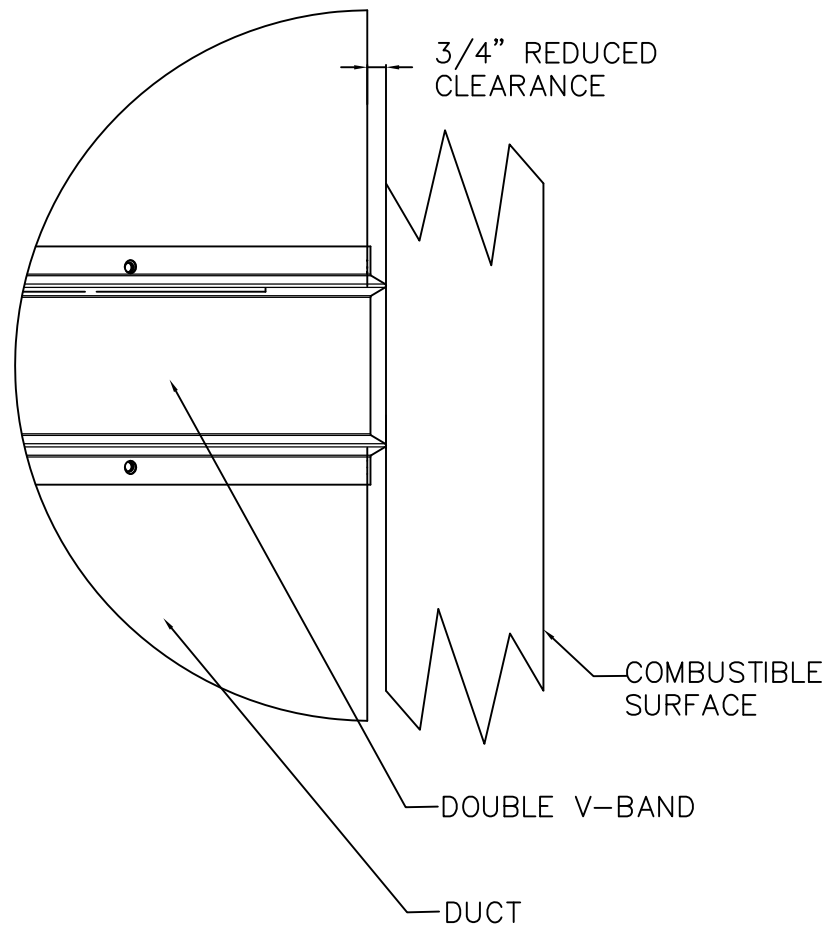
MODEL DW-2R: 3/4" CLEARANCE TO COMBUSTIBLES FROM THE SURFACE OF THE DUCT OUTER SHELL; ZERO INCH CLEARANCE FROM COMBUSTIBLES FROM THE TIP OF THE OUTER V BAND.

DOUBLE WALL GREASE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION, OPERATION AND MAINTENANCE MANUAL, ETL LISTING, STATE AND LOCAL CODES. FANS SHALL BE SUPPORTED INDEPENDENTLY FROM THE GREASE DUCT SECTIONS. PROTECT GREASE DUCT FROM TWISTING OR MOVEMENT CAUSED BY FAN TORQUE OR VIBRATION.

CERTIFICATIONS:

THE DW-2R SERIES HAS BEEN CERTIFIED BY ITS. THIS CERTIFICATION MARK INDICATES THAT THE PRODUCT HAS BEEN TESTED TO AND HAS MET THE MINIMUM REQUIREMENTS OF A WIDELY RECOGNIZED (CONSENSUS) U.S. AND CANADIAN PRODUCTS SAFETY STANDARD, THAT THE MANUFACTURING SITE HAS BEEN AUDITED, AND THAT THE APPLICANT HAS AGREED TO A PROGRAM OF PERIODIC FACTORY FOLLOW-UP INSPECTIONS TO VERIFY CONTINUED PERFORMANCE.

REDUCED CLEARANCE DETAIL

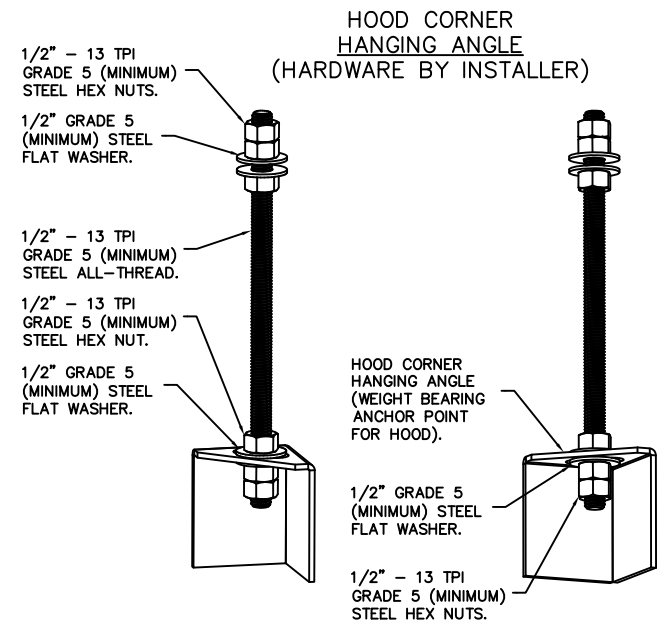


GREASE DUCT & CHIMNEY SPECIFICATIONS:

PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

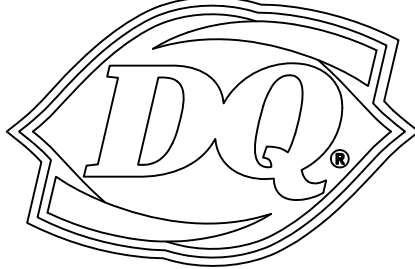
CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH



Intertek

NFPA #96
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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ISSUE DATE: 12/31/21

REVISION DATE:

12/31/21

ORIGINAL ISSUE



EXHAUST HOOD DETAIL

SHEET NUMBER:

M4.3

HVAC SYSTEM

N-C-A
CONSULTANTS/GROUP

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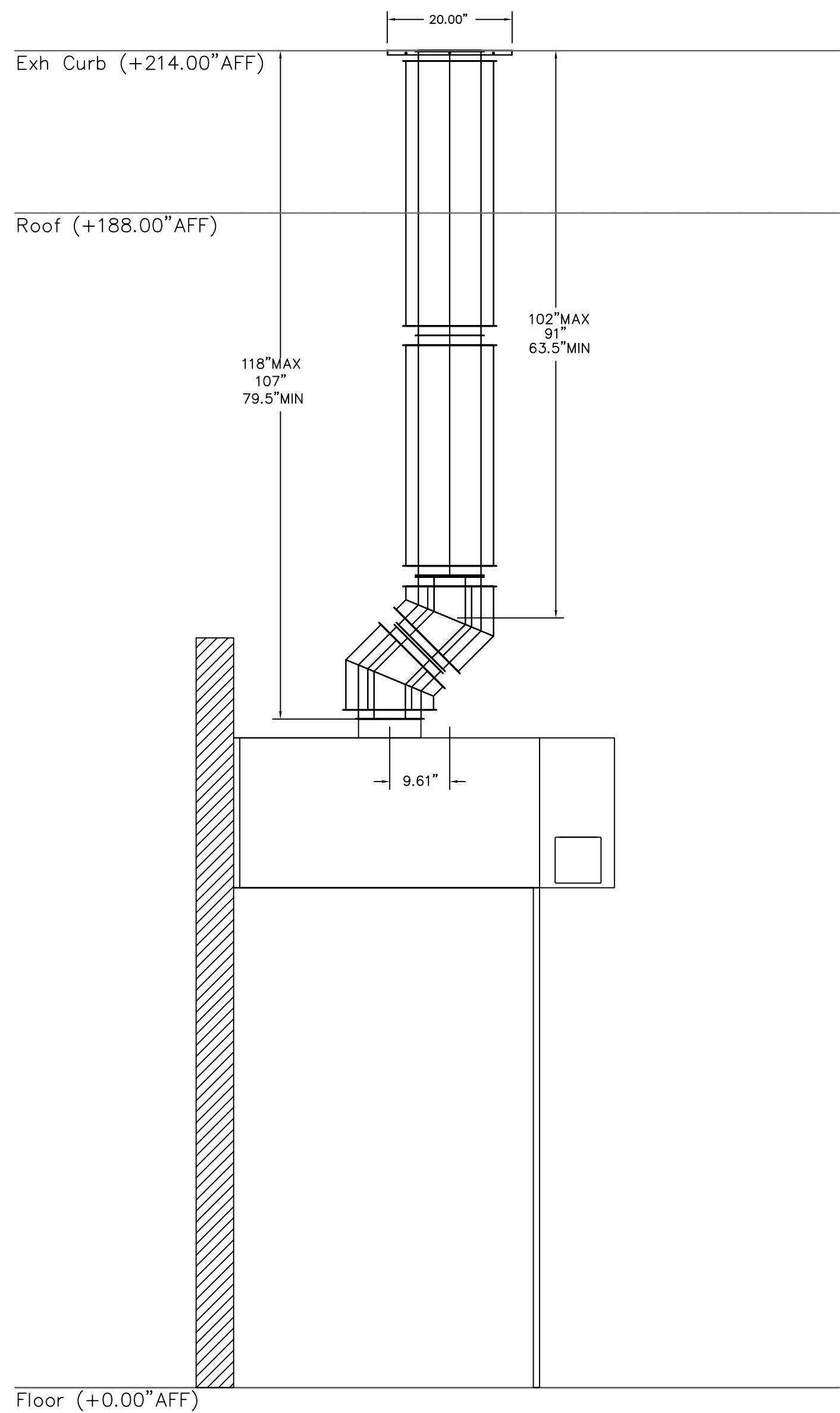
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VERIFY CEILING HEIGHT

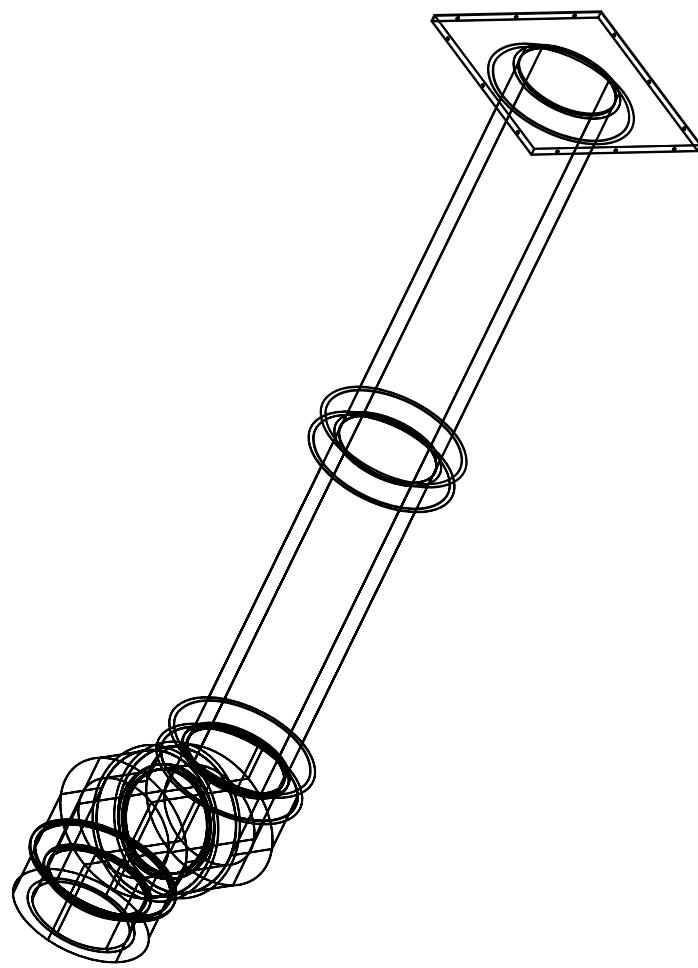
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HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

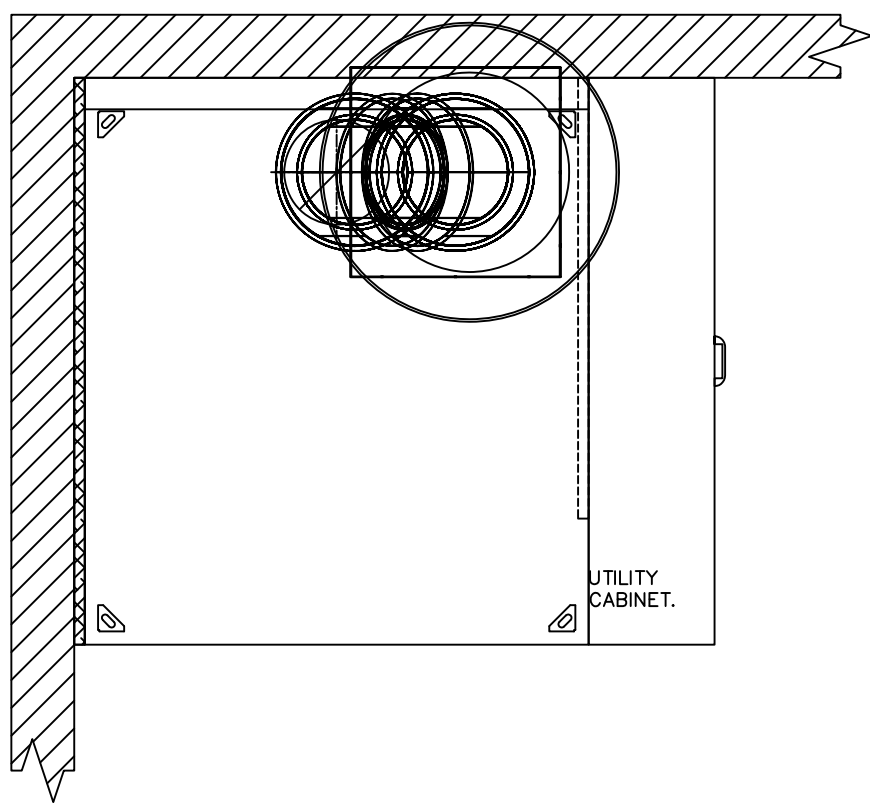
DUCTWORK #2 FRONT VIEW
BROILER



DUCTWORK #2 SE VIEW
BROILER



DUCTWORK #2 TOP VIEW
BROILER



DOUBLE WALL FACTORY BUILT DUCTWORK

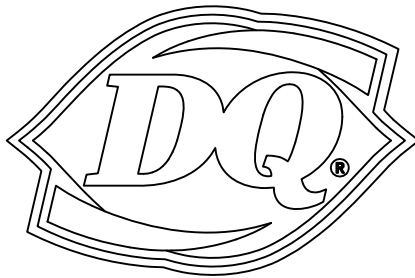
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

VERTICAL			
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)
2R & 2R HT (5"–16")	20'	24'	24'
2R (18")	18'	24'	24'
3R & 3Z (5"–24")	10'	24'	24'
3Z (26" –36")	10'	20'	20'

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING
CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE
FOR PROPER LEAK TESTING METHODS.

NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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ISSUE DATE: 12/31/21

REVISION DATE:

12/31/21

ORIGINAL ISSUE



EXHAUST HOOD
DETAIL

SHEET NUMBER:

M4.4

HVAC SYSTEM

N • C • A
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DESIGN@NCACONSULTANTS.COM

TO CONTACT THE NCA CONSULTANTS BY PHONE, CALL TOLL-FREE (877) 530-0078.

DATE DESCRIPTION BY
12-08-20 PROTOTYPIC USE ONLY FOR

NOT FOR CONSTRUCTION

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

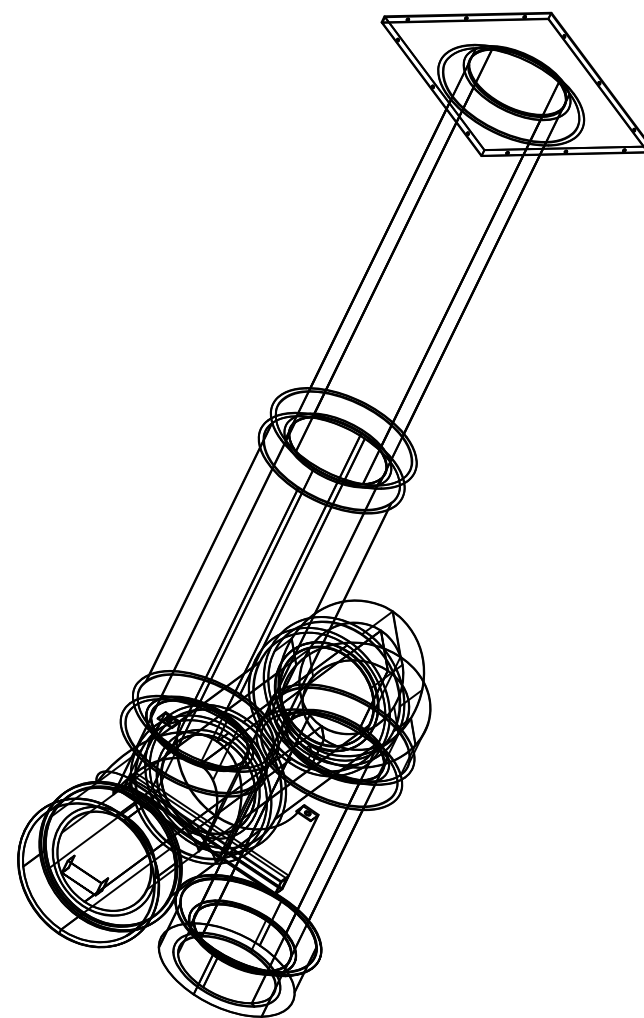
____' - ____"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

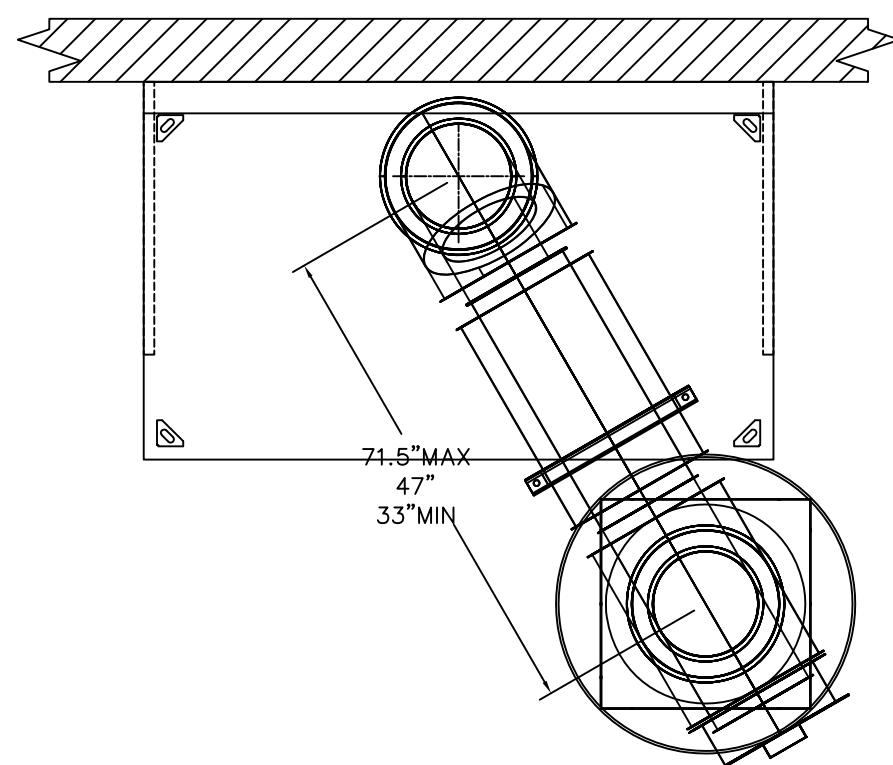
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANEL

CUSTOMER APPROVAL TO MANUFACTURE:	
APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____

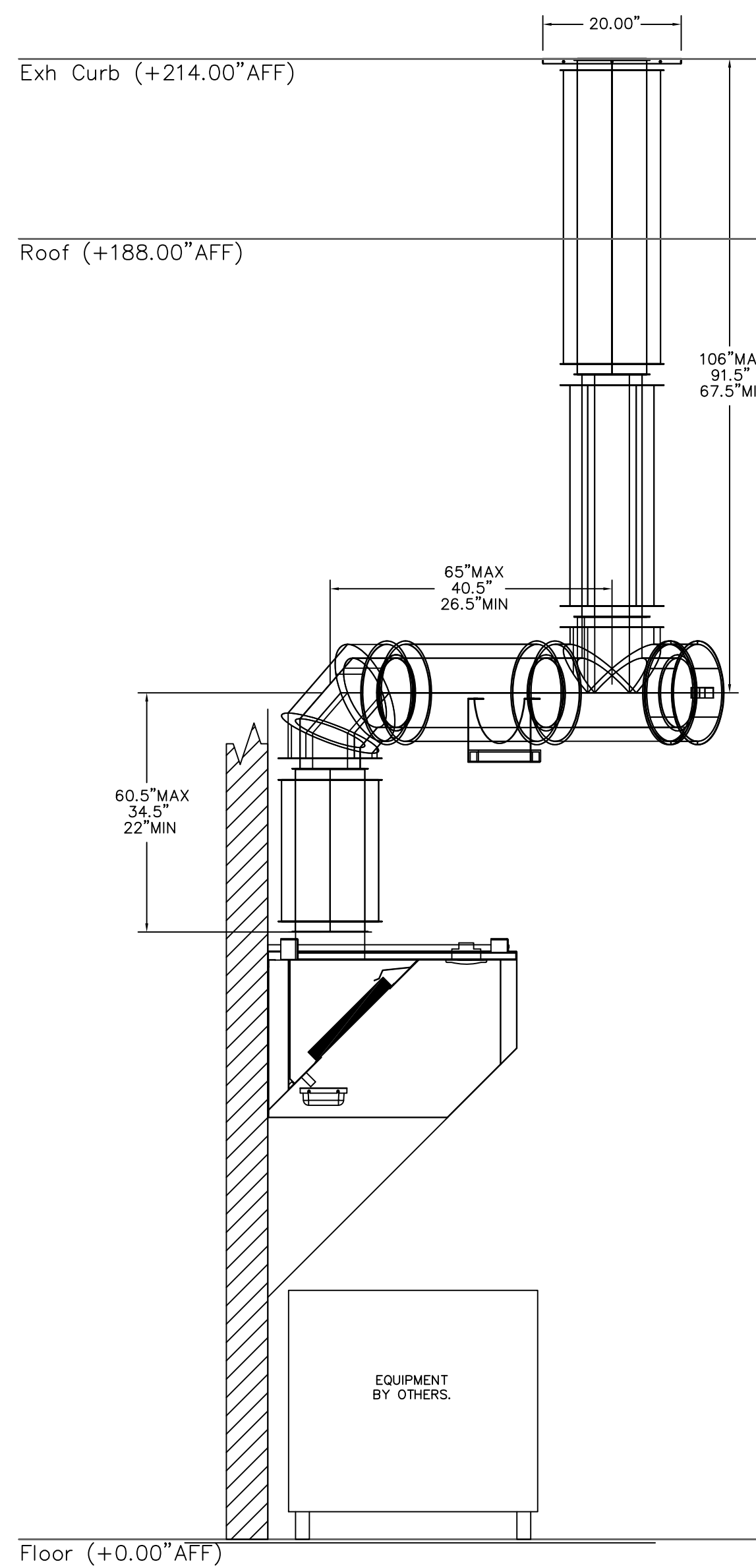
DUCTWORK #1 SE VIEW
FRYER




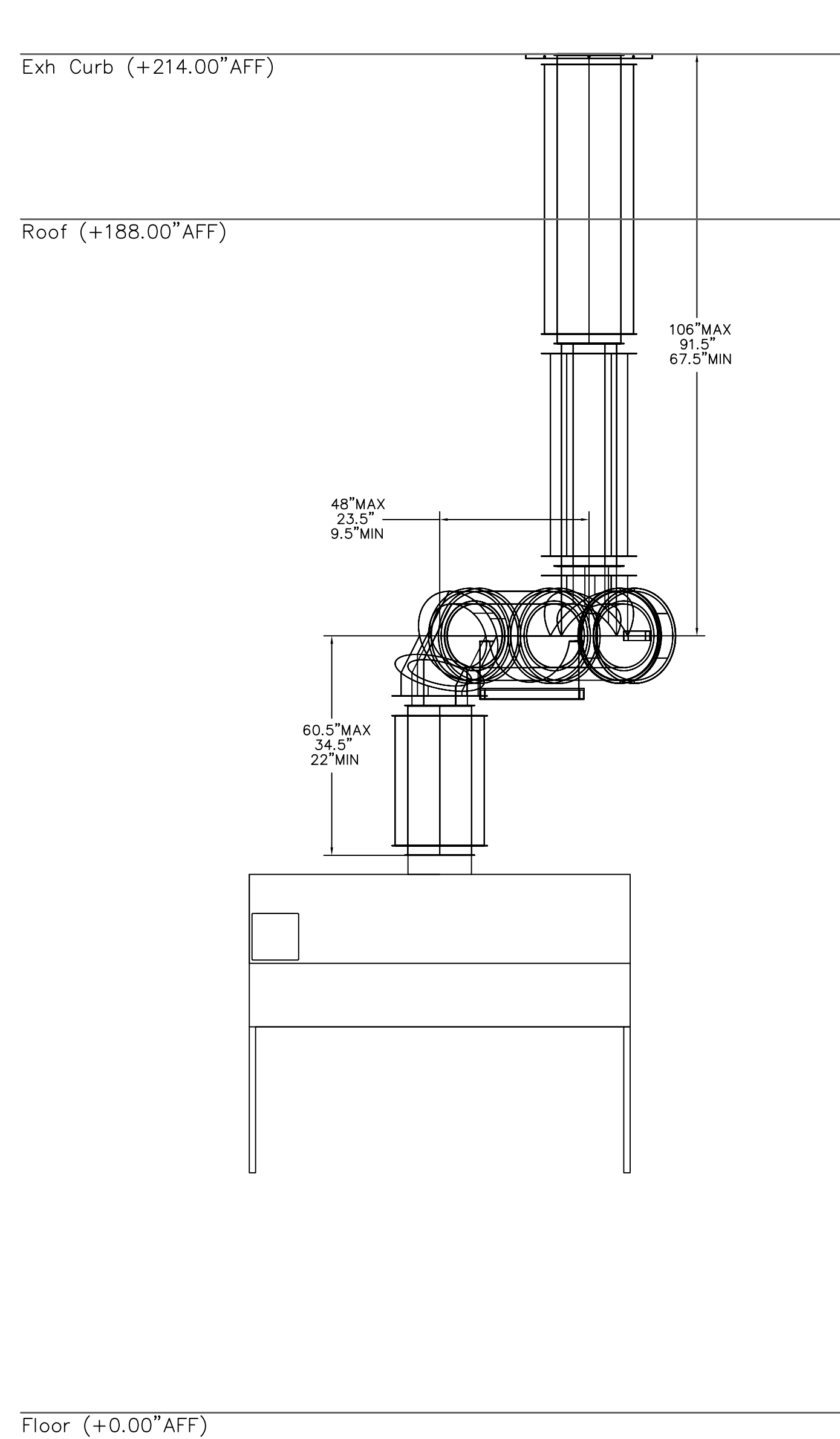
DUCTWORK #1 TOP VIEW
FRYER



DUCTWORK #1 SIDE VIEW
FRYER



DUCTWORK #1 FRONT VIEW
FRYER



20 NORTH DIXIE WAY
ROSELAND, IN 46673

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ISSUE DATE: 12/31/21

REVISION DATE: _____

12/31/21 ORIGINAL ISSUE

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EXHAUST HOOD DETAIL

SHEET NUMBER:

M4.5

N - C - A
CONSULTANTS/GROUP

NATIONAL CORPORATE ACCOUNT SERVICES, INC.

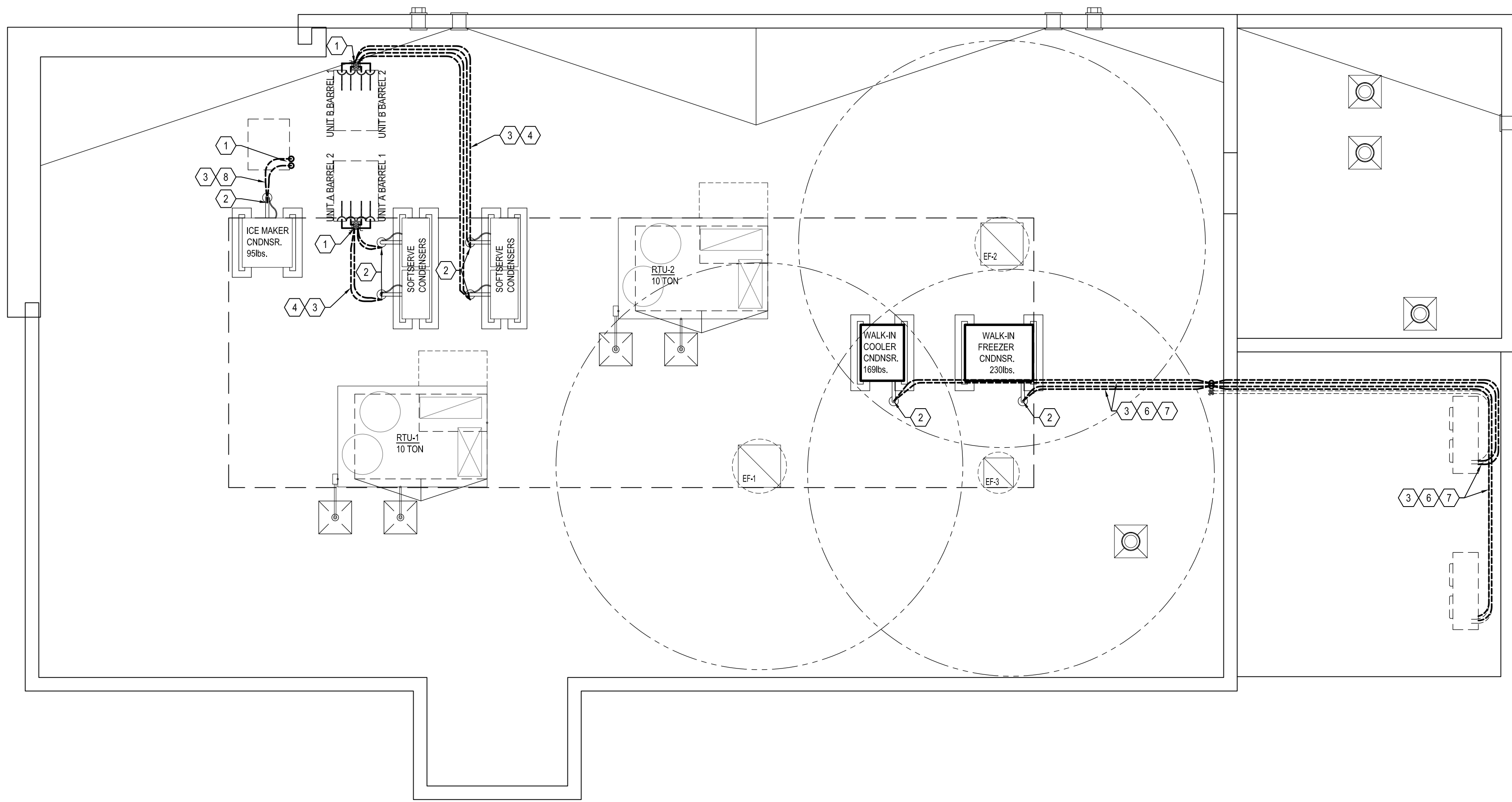
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TO CONTACT THE NCA CONSULTANTS BY PHONE, CALL TOLL-FREE (877) 530-0078.

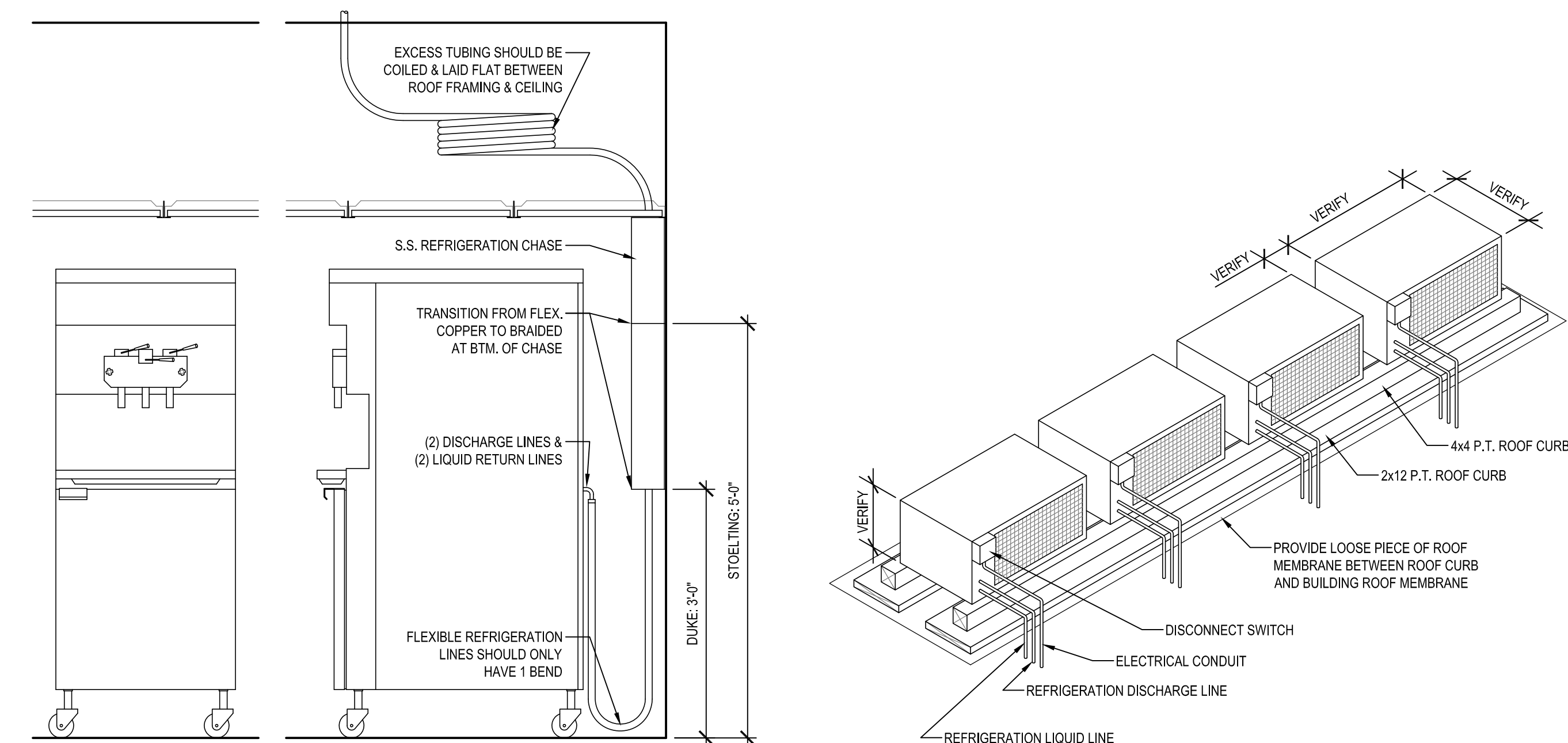
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2-08-20	PROTOTYPE USE ONLY	KM

NOT FOR CONSTRUCTION



1 REFRIGERATION PLAN

MR5 SCALE: 1/4" = 1'-0"



2 SOFTSERVE MACHINE & ROOF MOUNTED AIR COOLED/REMOTE CONDENSERS

MR5

SOFTSERVE FREEZER GENERAL NOTES

- GENERAL: THESE INSTRUCTIONS ARE FOR INSTALLATION OF ICE CREAM FREEZERS WITH REMOTE AIR COOLED CONDENSERS. FOLLOW THESE INSTRUCTIONS TO INSURE PROPER INSTALLATION, FREEZER PERFORMANCE, AND SAFETY. IT IS ALSO THE RESPONSIBILITY OF THE INSTALLER TO FOLLOW STATE, COUNTY, AND CITY CODES AND REGULATIONS.
- RESTRICTIONS: THE MAXIMUM LENGTH OF CONDENSER LINE IS 50'. DO NOT EXPOSE MORE THAN 30' OF CONDENSER LINE TO THE OUTDOORS. EXCEEDING 30' MAY CAUSE OPERATIONAL PROBLEMS.
- MAIN COMPONENTS: THE AIR COOLED REMOTE FREEZERS CONSIST OF THREE COMPONENTS: FREEZER, REMOTE CONDENSER, & CONDENSER LINE SETS WITH (6' DUKE)(8' STOELTING) FLEX LINE. EACH OF THESE COMPONENTS IS SEALED AND FACTORY PRE-CHARGED WITH THE REQUIRED AMOUNT OF REFRIGERANT. NO ADDITIONAL REFRIGERANT CHARGE IS REQUIRED.
- FREEZER INSTALLATION: DETERMINE FREEZER LOCATION IN THE STORE FIRST. ESTABLISH ELECTRICAL AND REFRIGERATION LINE LOCATIONS.
- REMOTE CONDENSER INSTALLATION:
 - LOCATE CONDENSERS AS CLOSE AS POSSIBLE TO FREEZER LOCATIONS.
 - POSITION CONDENSERS WHERE THERE IS MINIMAL RESTRICTION TO AIR FLOW. ALLOW FOR AT LEAST 2' CLEARANCE AT INLET AND OUTLET. POSITION UNITS SO THEY WILL NOT DISCHARGE HOT AIR FROM ONE UNIT INTO ANOTHER.
 - BOLT CONDENSER TO ROOF CURB.
- CONDENSER LINE INSTALLATION:
 - TWO FACTORY PRE-CHARGED AND INSULATED CONDENSER LINE SETS ARE REQUIRED FOR EACH CONDENSER: DISCHARGE & LIQUID RETURN LINE SET.
 - ROUTE THE CONDENSER LINE SETS BETWEEN THE FREEZER AND THE CONDENSER. POSITION THE LINES IN A SAFE LOCATION SO THEY CAN BE SECURELY CLAMPED TO A WALL OR STRUCTURAL MEMBER.
 - ANY EXCESS TUBING SHOULD BE COILED AND LAID FLAT IN AN INDOOR LOCATION.
 - THE FLEXIBLE LINES CONNECT TO BACK OF THE FREEZER FOR EASY SERVICING. EACH FLEXIBLE LINE MUST HAVE ONLY ONE BEND. E) PROVIDE PROPER PITCH AND OIL TRAP BENDS IN THE DISCHARGE LINE WHERE REQUIRED, AVOID SHARP BENDS WHEREVER POSSIBLE. DO NOT REMOVE THE INSULATION ON THE LINES DUE TO CONDENSATION AND REFRIGERANT HEAT LOSS.
 - KEEP DISCHARGE LINE SEPARATE FROM THE LIQUID LINE BY AT LEAST 6".

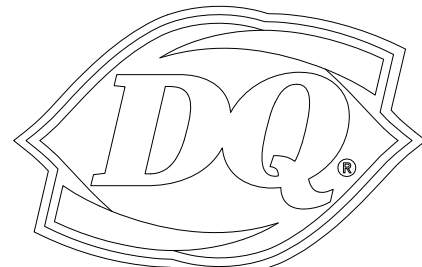
GENERAL NOTES

IF SITE MADE LINE SETS ARE UTILIZED RATHER THAN PRECHARGED, REFRIGERATION CONTRACTOR TO PROVIDE: INSULATED SOFT COPPER SUCTION LINE & INSULATED SOFT COPPER LIQUID LINE (PROPERLY SIZED PER MANUFACTURERS REQUIREMENTS), ALL REQUIRED BRAZED FITTINGS, AND REFRIGERANT.

KEY NOTES

- VERTICAL WALL SURFACE MOUNTED PRECHARGED LINE SETS.
- HAVE QUALIFIED ROOFER PROPERLY SEAL ANY HOLES MADE FOR REFRIGERATION AND ELECTRICAL LINES.
- EACH REFRIGERATION LINE SET (PRECHARGED OR SITE MADE) TO INCLUDE ONE INSULATED SUCTION LINE & ONE SOFT COPPER LIQUID LINE. TIE WRAPPED, INSTALL AND MAKE FINAL CONNECTIONS FROM ROOF MOUNTED REMOTE CONDENSER TO REFRIGERATION EQUIPMENT.
- SOFTSERVE FREEZER: INSTALL & MAKE FINAL CONNECTIONS OF REFRIGERATION LINE FROM ROOF MOUNTED REMOTE CONDENSER TO SOFTSERVE FREEZER. PRECHARGED LINE SETS PART OF EQUIPMENT PACKAGE
- SITE MADE REFRIGERATION LINE SET. REFRIGERATION CONTRACTOR TO PROVIDE REFRIGERATION LINE SET(S) TO INCLUDE: INSULATED SOFT COPPER SUCTION LINE & INSULATED SOFT COPPER LIQUID LINE (PROPERLY SIZED PER MANUFACTURERS REQUIREMENTS), ALL REQUIRED BRAZED FITTINGS, AND REFRIGERANT.
- WALK-IN COOLER: INSTALL & MAKE FINAL CONNECTIONS OF REFRIGERATION LINE FROM ROOF MOUNTED REMOTE CONDENSER TO WALK-IN COOLER EVAPORATOR. SEE EQUIPMENT PLAN FOR ROUTING OF REFRIGERATION LINES.
- WALK-IN FREEZER: INSTALL & MAKE FINAL CONNECTIONS OF REFRIGERATION LINE FROM ROOF MOUNTED REMOTE CONDENSER TO WALK-IN FREEZER EVAPORATOR. SEE EQUIPMENT PLAN FOR ROUTING OF REFRIGERATION LINES.
- LOBBY ICE MAKER: INSTALL & MAKE FINAL CONNECTIONS OF REFRIGERATION LINE FROM ROOF MOUNTED REMOTE CONDENSER TO ICE MAKER. PRECHARGED LINE SETS PART OF EQUIPMENT PACKAGE

NEW BUILDING FOR:



220 NORTH DIXIE WAY
ROSELAND, IN 46673

AMERICAN DAIRY QUEEN

MINNEAPOLIS, MN U.S.A.

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REFRIGERATION PLAN

SHEET NUMBER:

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