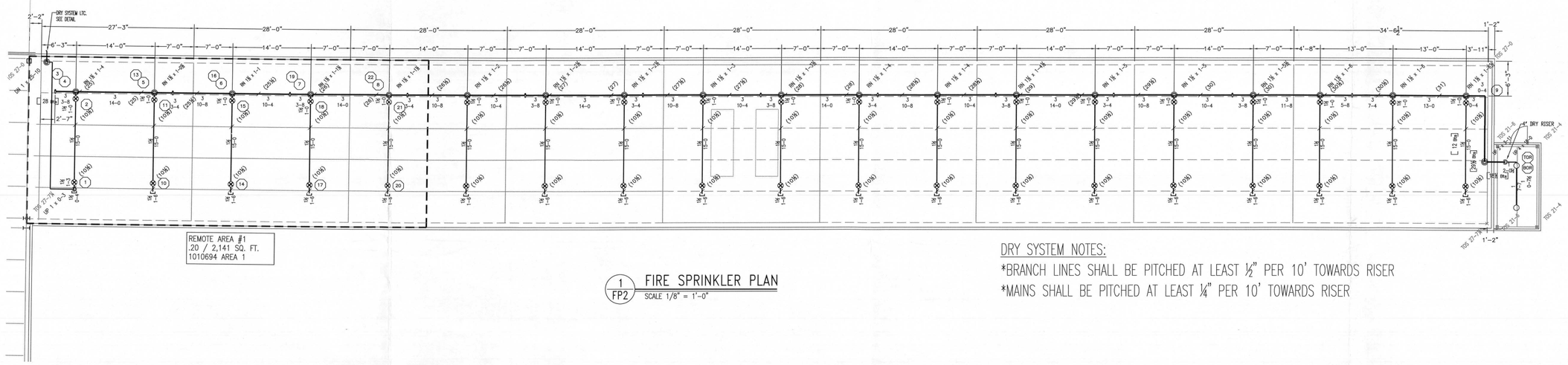
17

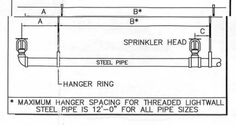


1 FP2 FIRE SPRINKLER PLAN
SCALE 1/8" = 1'-0"

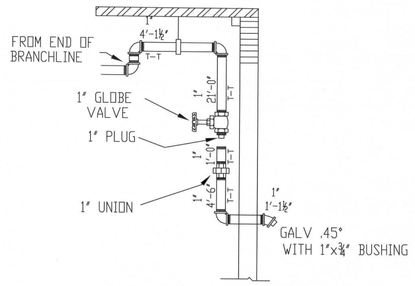
DRY SYSTEM NOTES:
*BRANCH LINES SHALL BE PITCHED AT LEAST ½" PER 10' TOWARDS RISER
*MAINS SHALL BE PITCHED AT LEAST ¼" PER 10' TOWARDS RISER

HANGER LOCATION DETAIL

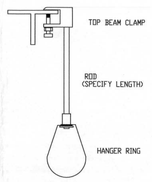
PIPE SIZE	A	B*	C
1"	3'-0" MAX.	12'-0" MAX.	3" MIN.
1 1/4"	4'-0" MAX.	12'-0" MAX.	3" MIN.
1 1/4"-8"	5'-0" MAX.	15'-0" MAX.	3" MIN.



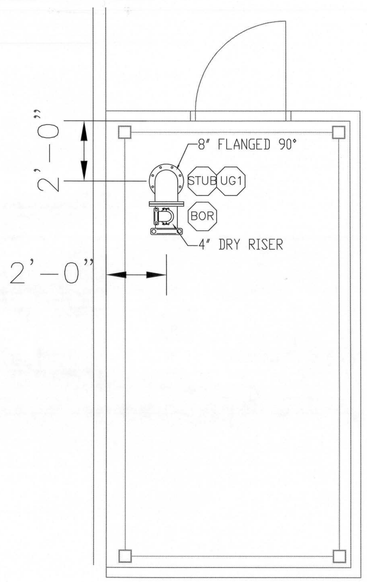
* MAXIMUM HANGER SPACING FOR THREADED LIGHTWALL STEEL PIPE IS 12'-0" FOR ALL PIPE SIZES



5 FP2 INSPECTORS TEST
N.T.S.



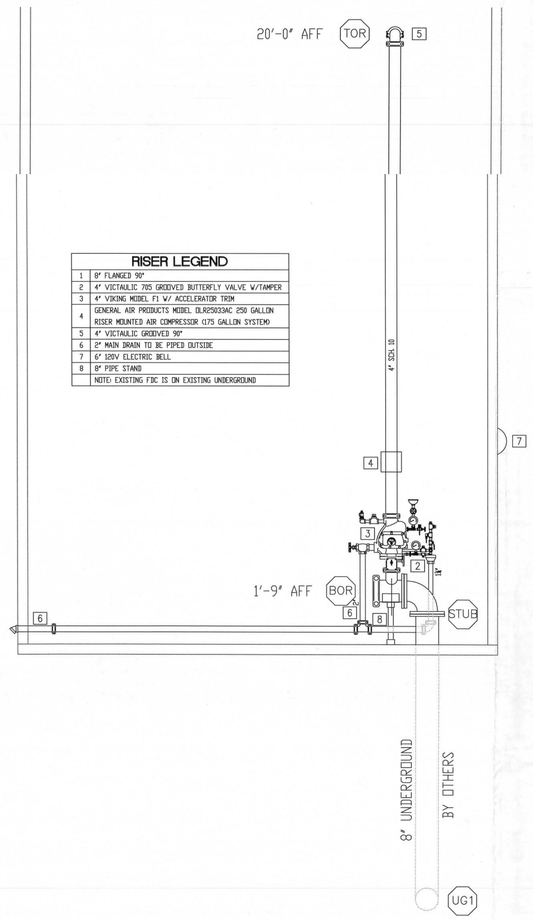
4 FP2 HANGER #01
N.T.S.



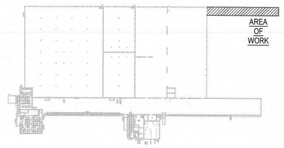
3 FP2 RISER ROOM PLAN
SCALE 1/2" = 1'-0"

RISER LEGEND

1	8" FLANGED 90°
2	4" VICTAULIC 705 GROOVED BUTTERFLY VALVE W/TAMPER
3	4" VIKING MODEL F1 W/ ACCELERATOR TRIM
4	GENERAL AIR PRODUCTS MODEL DLR25033AC 250 GALLON RISER MOUNTED AIR COMPRESSOR (175 GALLON SYSTEM)
5	4" VICTAULIC GREEVED 90°
6	2" MAIN DRAIN TO BE PIPED OUTSIDE
7	6" 120V ELECTRIC BELL
8	8" PIPE STAND
	NOTE: EXISTING FDC IS ON EXISTING UNDERGROUND



2 FP2 FIRE SPRINKLER RISER DETAIL
SCALE 1/2" = 1'-0"



KEY PLAN
NTS

SPECIAL NOTE REGARDING M.I.C.:
WIGINTON DOES NOT WARRANT THE WATER SUPPLY TO BE FREE OF ANY CONTAMINANTS (MICROSCOPIC OR OTHERWISE) THAT MAY LEAD TO THE DEVELOPMENT OF MICROBIOLOGICALLY INFLUENCED CORROSION (MIC). OWNER IS ADVISED TO CONTACT THE WATER PURVEYOR TO REVEAL EVIDENCE OF HISTORY OF MIC DEVELOPMENT IN SYSTEMS SUPPLIED BY THE PURVEYOR. WHETHER OR NOT SUCH STUDY IS PERFORMED, WIGINTON DOES NOT WARRANT MATERIALS FROM DETERIORATION CAUSED FROM CORROSIVE CONDITIONS, AND DOES NOT ACCEPT ANY LIABILITY FOR THE EFFECTS OF MIC ON THE DURABILITY OR PERFORMANCE OF THE FIRE PROTECTION SYSTEM (S) PRESENT OR FUTURE. OWNER MUST MAINTAIN THEIR FIRE PROTECTION SYSTEM (S) IN ACCORDANCE WITH NFPA CRITERIA.

NOTICE:
IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER/ MANAGER TO PROVIDE THE REQUIRED MAINTAINENCE AND UPKEEP OF THIS FIRE PROTECTION SYSTEM AND RELATED EQUIPMENT ACCORDING TO THE LATEST EDITION OF NFPA 25 AND ALL GOVERNING CODES AND ORDINANCES.

WFS REVIEW

DATE	RELEASED FOR	BY
	AS-BUILT	
	INSTALLATION	
	FABRICATION	
	TRADE PERMIT	
	BLDG. PERMIT	

SYSTEM DEMAND INFORMATION

DESIGN AREA	DENSITY/AREA	NO. OF SPRKS IN REMOTE AREA	GPM REQD	PSI REQD	HOSE GPM ADDED	AT LOCATION
ONE	.20 / 2141 SQ FT	10	802.37	124.096	250	PUMP

DESIGN CRITERIA

DESIGN AREA	HAZARD	SPACING	PIPING SCHM. DEMAND	OUTSIDE HOSE DEMAND	REMOTE AREA LOCATION
ONE	ORDINARY II	256 SQ FT MAX	0	250	

SPRINKLER LEGEND

SYM	QTY	K=	NPT	TEMP °F	MAKE & MODEL	ESCUT	SIN	TYPE	FINISH	ESC
⊗	38	14.0	3/4	200	TYCO EC14 (16'x16')	SR	TY6137	EC	BRASS	N/A
○	2	5.6	1/2	200	TYCO TY-B	SR	TY3151	SSU	BRASS	N/A

NO.	DATE	REVISIONS	BY
0	07/27/2022	ISSUE FOR SUBMITTAL	KBC

Wiginton Fire Systems
6363 Greenland Road
Jacksonville, FL 32258
Phone 904.262.6107
Fax 904.268.7268

DRAWN BY: K. COCHRAN
DATE: 07/27/2022

US COLD STORAGE RAILDOCK ADDITION
211 McCLOSKEY AVE.
LAKE CITY, FL. 32055
PROJECT NAME/ADDRESS:

FIRE SPRINKLER PLAN
SHEET TITLE:

1010694
PROJECT NO:

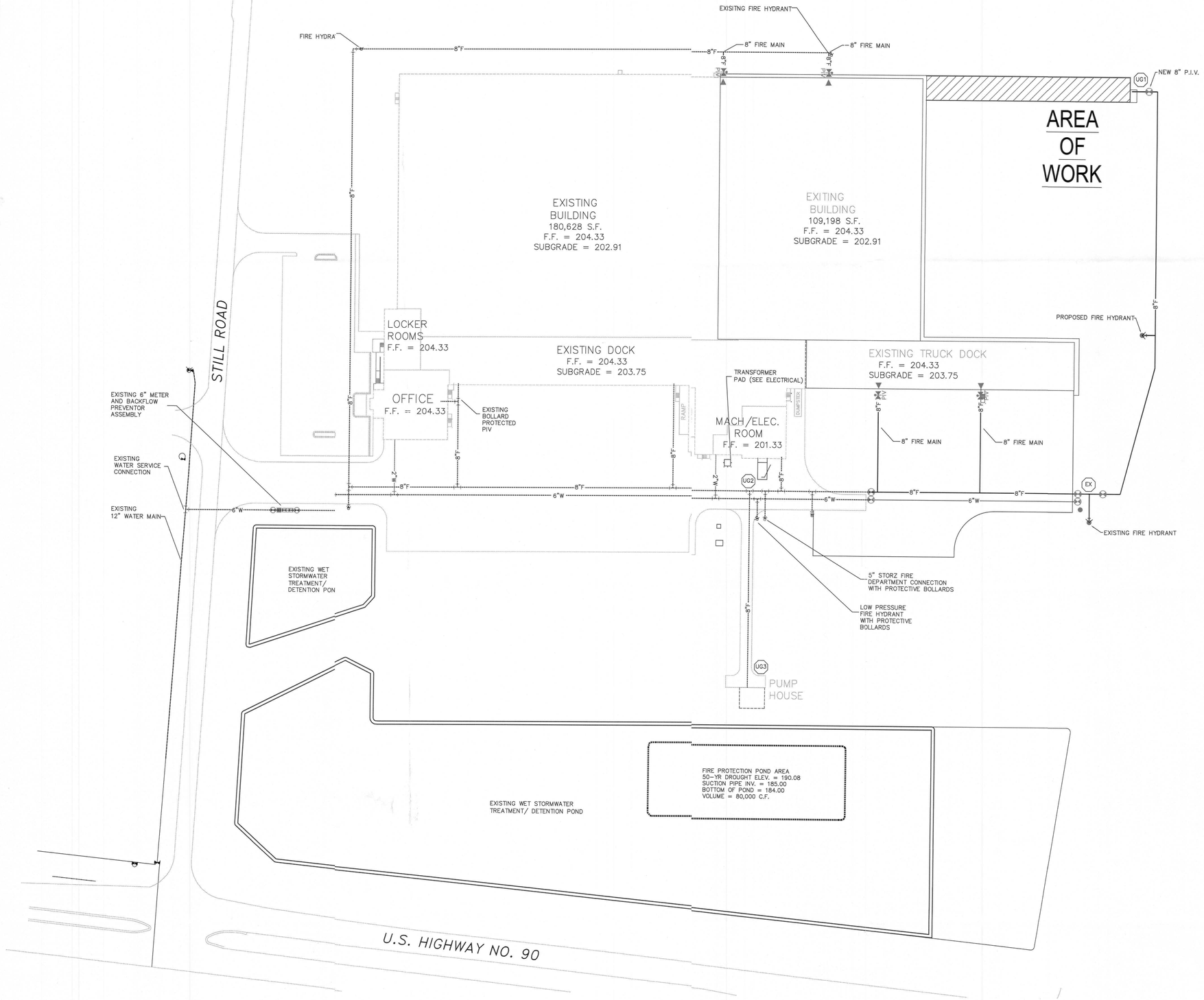
FP 2 OF 2
DRAWING NO:

north

BRANCH OFFICE LOCATIONS:
Daytona, FL 386.257.4300
Jacksonville, FL 904.262.6107
Orlando, FL 407.365.3200
Atlanta, GA 404.388.9581
Fort Myers, FL 239.278.0885
Tampa, FL 813.623.2333
Miami, FL 305.805.8422
Houston, TX 832.726.8141
Gainesville, FL 352.264.00500
Melbourne, FL 321.722.8566
W Palm Bch, FL 561.662.7331

MATERIALS & ABBREVIATIONS

SIZE		
1-2	THREADED PIPE	SCH 40 TT
1-1/2-8	WELDED PIPE	SCH 10 GG
8	WELDED PIPE	SCH 10 GG



1 FP1 FIRE SPRINKLER SITE PLAN
SCALE 1" = 50'-0"

THIS PLAN IS FOR HYDRAULIC REFERENCE ONLY
ALL UNDERGROUND WORK BY OTHERS

SCOPE OF WORK:
NEW RAILDOCK–
*INSTALL (1) NEW DRY PIPE SYSTEM FOR NEW RAILDOCK ADDITION PER NFPA 13, 2016 EDITION

DESIGN CRITERIA:
NEW RAILDOCK–
*DESIGNED FOR ORDINARY HAZARD GROUP II CLASSIFICATION WITH 0.20 GPM OVER THE MOST REMOTE 1,950 SQ.FT. (ACTUAL AREA IS 2,141 SQ.FT) WITH 250 GPM HOSE FOR ALLOWANCE.
NEW SPRINKLERS TO BE EXTENDED COVERAGE, STANDARD RESPONSE, 200°, BRASS UPRIGHT SPRINKLERS SPACED AT 256 SQ. FT. MAX WITH A K-FACTORS OF 14.0.

NOTES:
EXISTING 3,000 GPM @ 175 PSI VERTICAL FIRE PUMP DRAWING WATER FROM EXISTING POND

GENERAL NOTES:
-- ALL DESIGN, FABRICATION AND INSTALLATION PER THE NFPA-13, 2016 EDITION.
-- ALL FITTINGS & COUPLINS TO BE DI U.N.O.
-- ALL PAINTING AND PATCHNG BY OTHERS.
———— -- DENOTES NEW PIPING.
– – – – -- DENOTES EXISTING PIPING
[0" BS] -- DENOTES CENTER OF PIPE BELOW TOP OF JOIST.
[V'-0"] -- DENOTES CENTER OF PIPE ABOVE FINISHED FLOOR.
(01) -- DENOTES HYDRAULIC REFERENCE POINTS.
(F-F) -- ALL CEILINGS HEIGHTS ARE EXISTING UNLESS NOTED OTHERWISE

HANGER NOTES:
-- ALL HANGERS PER NFPA 13, 2016 REQUIREMENTS.
-- SEE DETAILS THIS SHEET FOR HANGER TYPES.

Wiginton FIRE SYSTEMS

THIS SYSTEM HAS BEEN HYDRAULICALLY DESIGNED

OCCUPANCY CLASSIFICATION:	OHGROUP II
STORAGE CONFIGURATION:	MIS STORAGE
COMMODITY CLASSIFICATION:	LOADING DOCK
MAXIMUM STORAGE HGT:	12 FT
DESIGN AREA / LOCATION:	RAILDOCK EXPANSION
DISCHARGE DENSITY / AREA O OPERATION	20 gpm ER SF / 2,141 SF
DEMAND AT THE BASE OF RISE	
REQUIRED FLOW	552.37 GPM
REQUIRED PRESSURE	119.683 PSI
A HOSE STREAM DEMAND OF	250 GPM HAS
BEEN ADDED AT:	UNDERGROUND
CONTRACT NO:	1010694
DATE:	07-27-22

FOR SERVICE CALL: 904-262-6107

north

BRANCH OFFICE LOCATIONS:
Daytona, FL 386.237.4300
Jacksonville, FL 904.262.6107
Orlando, FL 407.880.3200
Atlanta, GA 404.389.9991
Fort Myers, FL 239.278.5955
Miami, FL 305.884.2402
Tampa, FL 813.623.2353
Houston, TX 832.726.9141
Gainesville, FL 352.294.0050
Melbourne, FL 321.722.5545
W Palm Bch, FL 561.683.1371

MATERIALS & ABBREVIATIONS

SIZE	LOCATION	TYPE	SCH	ABBREVIATIONS
1"-2"	THREADED PIPE	BLACK	40	SCH = SCHEDULE
1-1/2"-6"	WELDED PIPE	BLACK	10	W = WROUGHT STEEL
8"	WELDED PIPE	BLACK	10	F = FLANGED PIPE END
				G = GROOVED PIPE END
	THREADED FITTINGS			DUCTILE
	GROOVED FITTINGS			MECHANICAL

WATER SUPPLY

WATER PURVEYOR:	
STATIC PRESSURE:	
RESIDUAL PRESSURE:	
FLOW @ 20 PSI:	
DATE OF TEST:	
TIME OF TEST:	
WATER SUPPLY:	2000 GPM @ 175 PSI
WATER FLOW/PRESS:	
PUMP TYPE:	VERTICAL
SUCTION FROM:	POND
TANK SIZE:	
TANK TYPE:	
TANK ELEV:	

0 10' 20' 30' 40' 50'
GRAPHIC SCALE:

SCALE: 1" = 50'-0"
SPKRS THIS SHEET: 0
SPKRS ON JOB: 40
AHJ: COLUMBIA
WFS SALES: EBB
CUSTOMER: STELLAR
PERMIT NO:

ROBERT L. HINKLE, P.E.
1409 KINGSLEY AVENUE
BUILDING #14C
ORANGE PARK, FL. 32073
(904) 502-3358
FLA. REG. # 29302

SEAL:

Wiginton FIRE SYSTEMS

SPECIAL NOTE REGARDING M.I.C.:
WIGINTON DOES NOT WARRANT THE WATER SUPPLY TO BE FREE OF ANY CONTAMINANTS (MICROSCOPIC OR OTHERWISE) THAT MAY LEAD TO THE DEVELOPMENT OF MICROBIOLOGICALLY INFLUENCED CORROSION (MIC). OWNER IS ADVISED TO CONTACT THE WATER PURVEYOR TO REVEAL EVIDENCE OF HISTORY OF MIC DEVELOPMENT IN SYSTEMS SUPPLIED BY THE PURVEYOR. WHETHER OR NOT SUCH STUDY IS PERFORMED, WIGINTON DOES NOT WARRANT MATERIALS FROM DETERIORATION CAUSED FROM CORROSIVE CONDITIONS, AND DOES NOT ACCEPT ANY LIABILITY FOR THE EFFECTS OF MIC ON THE DURABILITY OR PERFORMANCE OF THE FIRE PROTECTION SYSTEM (S) PRESENT OR FUTURE. OWNER MUST MAINTAIN THEIR FIRE PROTECTION SYSTEM (S) IN ACCORDANCE WITH NFPA CRITERIA.

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WFS REVIEW

DATE	RELEASED FOR	BY
	AS-BUILT	
	INSTALLATION	
	FABRICATION	
	TRADE PERMIT	
	BLDG. PERMIT	

SYSTEM DEMAND INFORMATION

DESIGN AREA	DENSITY/AREA	NO OF SPRKS IN REMOTE AREA	SPM REQD	FBI REQD	HOSE DEMAND ADDED TO SPM

DESIGN CRITERIA

AT LOCATION	DESIGN AREA	HAZARD	SPACING	PIPING SCHM (SPM)	OUTSIDE HOSE (GPM)	INSIDE HOSE REFERENCE

SPRINKLER LEGEND

SYM	QTY	K#	NPT	TEMP °F	MAKE & MODEL	RESP.	SIN	TYPE	FINISH	ESC.

NO.	DATE	REVISIONS	BY
0	07/27/2022	ISSUE FOR SUBMITTAL	KBC

Wiginton Fire Systems
6363 Greenland Road
Jacksonville, FL 32258
Phone 904.262.6107
Fax 904.268.7268

DRAWN BY: K. COCHRAN
DATE: 07/27/2022

US CCLD STORAGE RAILDOCK ADDITION
211 McCLOSKEY AVE.
LAKE CITY, FL. 32055
PROJECT NAME/ADDRESS:

FIRE SPRINKLER SITE PLAN
SHEET TITLE:

1010694
PROJECT NO:

FP 1 OF 2
DRAWING NO:

UNITED STATES COLD STORAGE, INC.

211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

stellar
TAKING SOLUTIONS FURTHER

7/18/2022 11:29:44 AM C:\Revit Local\07329_FireRiser_S_R20_James Mateleski.rvt

OWNER

PROJECT INFORMATION

UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

stellar
TAKING SOLUTIONS FURTHER

OPERATING AS:
THE STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL 32257 (904) 260-2900
WWW.STELLAR.NET
FLORIDA ARCHITECTURAL LICENSE NO. AR0013370
FLORIDA ENGINEERING LICENSE NO. CA5930

SEAL

James F. Mateleski FL License #63121

CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED:	07/18/2022
DESIGNED BY:	PEJ
REVIEWED BY:	PEJ
A/EOR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

COVER SHEET

SHEET ID

G0001

PRINT IN COLOR

CONSTRUCTION ISSUE

SHEET INDEX

SHEET NUMBER	SHEET NAME	SHEET ISSUE DATE	SHEET RIONS		
			REVISION	DATE	DESCRIPTION
01. GENERAL					
G0001	COVER SHEET	07/18/2022	1	07/18/2022	CONSTRUCTI ISSUE
G0002	SHEET INDEX	07/18/2022	1	07/18/2022	CONSTRUCTI ISSUE
06. STRUCTURAL					
S0001	STRUCTURAL GENERAL NOTES & INSPECTION SCHEDULE	07/18/2022	1	07/18/2022	CONSTRUCTI ISSUE
S1001	RISER ROOM PLANS AND STRUCTURAL ELEVATIONS	07/18/2022	1	07/18/2022	CONSTRUCTI ISSUE
S1101	PLANS, ELEVATIONS AND SECTION	07/18/2022	1	07/18/2022	CONSTRUCTI ISSUE
S4001	LANDING AND STAIR PLANS AND SECTIONS	07/18/2022	1	07/18/2022	CONSTRUCTI ISSUE
S5001	STRUCTURAL DETAILS	07/18/2022	1	07/18/2022	CONSTRUCTI ISSUE
S5101	IMP DETAILS	07/18/2022	1	07/18/2022	CONSTRUCTI ISSUE

OWNER

UNITED STATES COLD STORAGE

PROJECT INFORMATION

UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

stellar
TAKING SOLUTIONS FURTHER

OPERATING AS:
THE STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL 32257 (904) 260-2900
WWW.STELLAR.NET
FLORIDA ARCHITECTURAL LICENSE NO. AR0013370
FLORIDA ENGINEERING LICENSE NO. CA5930

SEAL

James F. Matelski 7/18/22

James F. Matelski FL License #63121

CONSULTANT

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REVIEWED BY:	PEJ
A/EOR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

SHEET INDEX

SHEET ID

G0002

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CONSTRUCTION ISSUE

GENERAL NOTE

THE BUILDER IS REMINDED THAT WORK ON TIBUILDING REQUIRES WORKING WITHIN/AROUND AN EXISTING STRUCTURE. EVERY EFFORT HAS BI MADE TO IDENTIFY DISCREPANCIES AND ENSURE THAT THE DETAILS ARE DEPICTED CORRECTLTHESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION AVAILABLE HOWEVER SINCE TICONSTRUCTION IS WITHINADJACENT TO AN EXISTING STRUCTURE, THE BUILDER CAN EXPECT AND 3ULD PLAN ON ENCOUNTERING VARIANCES AND DEVIATIONS BETWEEN THE INFORMATION FO0 IN THESE DRAWINGS AND THE EXISTING SITE CONDITIONS. ACTUAL FIELD CONDITIONS MAYQUIRE MODIFICATIONS IN CONSTRUCTION DETAILS AND QUANTITIES. THE BUILDER IS RESPONSIBTO FIELD VERIFY ALL DETAILS INCLUDING GEOMETRY AND ELEVATIONS PRIOR TO THE INSTALLATIOF ANY MATERIAL.

REINFORCED CONCRE: NOTES

1. ALL CONCRETE WORK SHALL CONFORM TCI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. ALL CONCRETE PLACED SHALL BE VIBRATBY MECHANICAL VIBRATORS.
3. COMPLETE FABRICATION AND PLACING DRINGS FOR REINFORCING STEEL SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION MAY BEUNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.
4. LAP SPLICES FOR REINFORCING STEEL SH BE IN ACCORDANCE WITH ACI 318, SPLICES SHALL BE AS CALLED FOR IN THE LATEST EDITION ORE CRSI "MANUAL OF STANDARD PRACTICE".
5. REINFORCING OF ALL CONCRETE MEMBERHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER:

MEMBERS	COR (INCHES)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 BARS THROUGH #18 BARS	2
#5 BARS OR SMALLER	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:	
SLAB AND WALLS:	
#14 AND #18 BARS	1 1/2
#11 BARS AND SMALLER	3/4

6. THE CONTRACTOR SHALL PROVIDE ADEQUE SUPPORT FOR REINFORCING TO ENSURE THE REINFORCEMENT REMAINS IN ITS INTENDEDSITION WHEN CASTING CONCRETE. THE SUPPORT SHALL BE CONSTRUCTED OF A TYPE THAT L NOT DAMAGE THE VAPOR BARRIER BELOW.
7. SPLICE WELDING OF REINFORCING STEEL LL BE DONE IN STRICT ACCORDANCE WITH THE AMERICAN WELDING SOCIETY "REINFORCINTEEL WELDING CODE". PREHEATING OF THE REINFORCING SHALL BE BASED ON THE CAON EQUIVALENCY DETERMINED FROM REINFORCING MILL REPORTS. GRADE 40 REINFORCING SH, BE WELDED WITH E90XX LOW HYDROGEN ELECTRODES.
8. MANUAL WELDING OF REINFORCING BARS I EMBEDS IS NOT ALLOWED.
9. SAWN JOINTS IN SLABS-ON-GRADE SHALL SLL BE CUT AS SOON AS POSSIBLE AFTER THE CONCRETE HARDENS. JOINTS CAN BE CUT WITH A POV BLADE WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN CAST AND FINISHED. JOINTS MUST BE CUT SOON AS THE CONCRETE IS FIRM ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE. THE CONCTE IS HARDENOUGH WHEN THE BLADE DOES NOT DISLODGE ANY AGGREGATE AND WHEN THDGES OF THE CUT DO NOT RAVEL.
10. CONTROL JOINTS IN ALL FOUNDATION ANDTAINING WALLS SHALL BE PLACED NOT MORE THAN 15'-0" APART AND SHALL BE 3/4" V-CHAMFERED OOTH SIDES, UNLESS NOTED OTHERWISE. EXPANSION JOINTS SHALL BE LOCATED AS NOTED ON TPLANS. SEE TYP. DETAIL SHEET.
11. CHAMFER EXPOSED CONCRETE EDGES 3/4"
12. CONCRETE WALLS SHALL BE REINFORCED XUND ALL OPENINGS WITH 2-#5 BARS ON ALL SIDES AND EXTENDED 2'-0" BEYOND OPENING UNLESSTED OTHERWISE.
13. THE LONGITUDINAL REINFORCING STEEL INNO BEAMS, WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYP. DETAIL SHEE
14. THE CONCRETE MIX DESIGNS ARE THE REINSIBILITY OF THE SUPPLIER. MIX DESIGNS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEERROR TO CONCRETE PLACEMENT.
15. A MIX DESIGN SHALL BE PROVIDED FOR EATYPE OF CONCRETE. THE MIX DESIGNS SHALL CLEARLY INDICATE ALL MATERIALS USED IN THE MIX.E TYPE (USE) OF THE CONCRETE MIX, AND ALL MIX BACK-UP, DATA, TO INCLUDE BUT NOT LIMITTO, THE COMPRESSIVE STRENGTH BREAK DATA FOR EACH MIX BEING SUBMITTED, FINE AND COAE AGGREGATE GRADATIONS, AND ALL ADMIXTURES.
16. THE USE OF FLY ASH IS PROHIBITED IN ANYPOSED MEMBERS. FLY ASH SHALL BE ALLOWED IN FOUNDATIONS AND SUB-SLABS UPON ENGIER'S APPROVAL. CONCRETE MIX DESIGNS SHALL BE SUBMITTED AND APPROVED PRIOR TO CAS3 ANY CONCRETE.
17. CEMENT SHALL BE PORTLAND CEMENT COIRMING TO ASTM C150, TYPE 1. MILL CERTIFICATE SHALL SHOW TOTAL ALKALINE CONTENT NOT EXCHING 0.6%.
18. CONCRETE SHALL HAVE A MAXIMUM SLUMPs1" UNLESS APPROVED BY ENGINEER.
19. THE MIX SHALL HAVE A MAXIMUM WATER/CENT RATIO OF 0.50. TROWEL FINISHED INTERIOR SLABS SUBJECTED TO VEHICULAR TRAFFIC SHALL/E A MAXIMUM WATER/CEMENT RATIO OF 0.53.
20. ALL INTERIOR TROWEL FINISHED SLABS, SUCTED TO VEHICULAR TRAFFIC, SHALL HAVE A MAXIMUM ENTRAPPED AIR CONTENT OF 3%.
21. WATER SHALL BE POTABLE, CLEAN AND FRFROM OILS, ACIDS, SALTS AND OTHER DELETERIOUS SUBSTANCES.
22. ALL EXPOSED EXTERIOR CONCRETE, SUBJED TO FREEZE/THAW CYCLES, SHALL ACHIEVE AN AIR CONTENT OF 6% ± 1.5.
23. WATER REDUCING AGENTS SHALL CONFORO ASTM C494.1
24. AIR ENTRAINING AGENTS SHALL CONFORM ASTM C260.
25. AGGREGATE SHALL CONFORM TO ASTM C3OARSE AGGREGATE SHALL BE CRUSHED ROCK OR CRUSHED GRAVEL AND SHALL BE GRADED)M 1 1/2" TO A NO. 4 SIEVE FOR WALLS AND SLABS. A LARGER AGGREGATE, GRADED FROM 2" TO. 4 SIEVE FOR FOUNDATIONS IS ACCEPTABLE. COMBINED AGGREGATE GRADATION SHALL BE 8% TO 1RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND ABOVE THE NO. 100 SIEVE.
26. AGGREGATES SHALL BE TESTED FOR SOUESS IN ACCORDANCE WITH ASTM C88 AND FOR POTENTIAL REACTIVITY IN ACCORDANCE WITH ASTM CC AGGREGATES USED FOR SLABS SHALL BE CONSIDERED INNOCUOUS WHEN TESTED IN ACCORDANCITH ASTM C289.
27. ALL CONCRETE TESTING SHALL BE PERFOD BY AN APPROVED TESTING AGENCY AND IN ACCORDANCE WITH ALL APPLICABLE ASTM CIFICATIONS.
28. SAMPLE EACH TYPE/CLASS OF CONCRETE A RATE OF NOT LESS THAN ONE PER DAY NOR LESS THAN ONE PER 100 CU. YD. NOR LESS THAN ONE I EACH 5,000 SQ. FT. OF SURFACE AREA FOR SLABS AND WALLS (REF ACI 318, 5.6). IF TOTAL VOLUME CONCRETE IS SUCH THAT FREQUENCY OF TESTING REQUIRED WOULD PROVIDE LESS THAN 5 SINGTH TESTS FOR A GIVEN CLASS OF CONCRETE, TESTS SHALL BE MADE FROM AT LEAST 5 RANDOMSELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN 5 BATCHES ARE USED.
29. EACH SAMPLE SHALL BE TESTED FOR, AS AVIMUM, SLUMP, AIR CONTENT, TEMPERATURE, UNIT WEIGHT, AND COMPRESSIVE STRENGTH.
30. COMPRESSIVE STRENGTH TESTS SHALL BE FOLLOWS: 1 CYLINDER SHALL BE TESTED @ 7 DAYS AFTER POUR, 2 CYLINDERS SHALL BE TESTED 28 DAYS AFTER POUR AND 1 CYLINDER SHALL BE HELD IN RESERVE.
31. FLOOR FLATNESS, F(F) AND FLOOR LEVELNS, F(L) SHALL BE TESTED IN ACCORDANCE WITH ASTM E1155. ACTUAL OVERALL F-VALUES SHALL BE CALCTED USING THE INFERIOR/SUPERIOR AREA METHOD. OVERALL F(F) 25, F(L) 20 WITH MIN LOCAL F(B AND F(L) 15
33. ALL NEW SLABS SHALL PREFERABLY BE WEURED FOR A MINIMUM OF 7 DAYS, AS APPLICABLE. REF. NOTE 36 FOR ALTERNATE CURING METHOD!
34. FLOOR JOINTS AS INDICTED ON DESIGN DRINGS OR PROPRIETARY SLAB DRAWINGS.
    ALL JOINTS SHALL BE AIR CLEANED AND FILI WITH JOINT FILLER AS INDICATED BELOW:
    WEAR SLAB IN AMBIENT AREAS: SPAL-PRO H9 BY METZGER-McGUIRE (33ºF OR HIGHER)
    WEAR SLAB IN FREEZER AND COOLER: SPAIO RSF BY METZGER-McGUIRE (32ºF OR LOWER)
    WEAR SLAB IN AMBIENT, FREEZER AND COOL AREAS: EUCO QUICKJOINT 200 BY EUCLID CHEMICAL CO.
35. USE DIAMOND DOWELS AT CONSTRUCTIONINTS FOR SLABS ON GRADE AND LOAD PLATE BASKETS OF PD3 BASKETS AT CONTRACTION JOINTS NOTED ON PLANS.
36. DRESS AND SEAL 30 AS MANUFACTURED BYM CONSTRUCTION CHEMICALS OR SUPER DIAMOND CLEAR VOX AS MANUFACTURE BY EUCLID CHEMICOMPANY SHALL BE USED WITH NEW CONCRETE IN ALL AREAS NOT RECEIVING A FLOOR TOPPING.
37. VAPOR RETARDER SHALL BE STEGO WRAP 4IL CLASS A OR APPROVED EQUAL. RETARDER SHALL BE INSTALLED, LAPPED 6" MIN. AND TAPED PERG. RECOMMENDATIONS.
38. ALL ANCHOR RODS AND EMBEDDED ITEMS LL BE ACCURATELY LOCATED AND SECURELY SUPPORTED PRIOR TO CONCRETE POUR. WET SETTING OF ANOR RODS AND EMBEDDED ITEMS IS PROBHIBITED.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO 360-16 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" OF THE A.I.S.C.
2. FABRICATORS AND ERECTORS SHALL BE MEMBERS OF THE A.I.S.C. OR CERTIFIED FOR CATEGORY I, A.I.S.C. QUALITY CERTIFICATION PROGRAM OR HAVE AT LEAST 10 YEARS EXPERIENCE IN FABRICATION AND ERECTION OF SIMILAR STEEL STRUCTURES.
3. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL SHALL BE SUBMITTED AND TO APPROVED PRIOR TO ANY FABRICATION.
4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE A MINIMUM OF 3/4" DIAMETER ASTM A325 BOLTS UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS SHALL BE "SNUG TIGHT" UNLESS NOTED OTHERWISE. TC BOLTS MAY BE USED. ALL CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS U.N.O. DESIGN CONNECTIONS TO PROVIDE SUITABLE E ACCESS FOR FIELD INSTALLATION.
5. ALL WELDS SHALL CONFORM TO LATEST EDITION OF AWS D1.1, "STRUCTURAL WELDING CODE". ALL GROOVE WELDS SHOWN ON CONTRACT DOCUMENTS SHALL BE FULL PENETRATION UNLESS NOTED OTHERWISE. WELDING SHALL BE DONE WITH E-70XX ELECTRODES UNLESS NOTED OTHERWISE.
6. STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS BEING CONSTRUCTED. STRUCTURAL ANALYSIS DATA SHALL BE SIGNED/SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND SHALL BE PROVIDED WITH THE SHOP DRAWING SUBMITTALS. DESIGN CONNECTIONS TO PROVIDE SUITABLE ACCESS FOR FIELD INSTALLATION WHERE APPLICABLE.
7. UNLESS OTHERWISE SHOWN, ALL BEAM CONNECTIONS SHALL BE STANDARD FRAMED OR SEATED CONNECTIONS. UNLESS GREATER REACTIONS ARE INDICATED ON THE PLANS, CONNECTIONS SHALL DEVELOP AT LEAST ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE TABLES OF THE MANUAL FOR THE GIVEN SHAPE AND SPAN OF THE BEAM IN QUESTION. IN NO CASE, HOWEVER, SHALL THE LENGTH OF THE FRAMED CONNECTIONS BE LESS THAN ONE-HALF OF THE "T" DISTANCE OF THE BEAM WEB.
8. WHERE PRACTICAL, UNLESS SHOWN DIFFERENTLY ON DRAWINGS. ALL BRACING CONNECTIONS SHALL BE DESIGNED AND DETAILED SO THAT ALL FORCE COMPONENTS CAN BE DELIVERED DIRECTLY TO THE CENTERLINE OF INTERSECTING MEMBERS. WHERE THIS IS NOT DONE, CONNECTIONS SHALL BE DESIGNED TO ACCOUNT FOR RESULTING ECCENTRICITIES.
9. SHOP OR FIELD SPLICES NOT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL.
10. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STRUCTURAL STEEL FRAME WORK AGAINST LATERAL LOADING, SUCH AS WIND. THE BRACING SHALL REMAIN IN PLACE UNTIL THE FINAL SYSTEM FOR RESISTING LATERAL LOADS IS IN PLACE AND EFFECTIVE AS APPROVED BY THE STRUCTURAL ENGINEER.
11. GUSSET PLATES SHALL BE 3/8" THICK MINIMUM.
12. BEAMS SHALL BE FABRICATED AND ERECTED WITH NATURAL CAMBER UP. ›
13. THE CONTACT SURFACES WITHIN SLIP CRITICAL JOINTS SHALL BE FREE FROM OIL, PAINT, LACQUER OR GALVANIZING.
14. STRUCTURAL STEEL FRAMING SHALL BE ERECTED TRUE AND PLUMB IN ACCORDANCE WITH A.I.S.C. CODE OF STANDARD PRACTICE. ANY FRAMING EXCEEDING TOLERANCES OF THE A.I.S.C. CODE OF STANDARD PRACTICE SHALL BE CORRECTED AS DIRECTED BY THE STRUCTURAL ENGINEER.
15. ROOF DECKING SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE AND MANUFACTURER'S RECOMMENDATIONS. DECKING SHALL BE PLACED IN A THREE-SPAN CONTINUOUS CONDITION. SINGLE OR DOUBLE SPAN CONDITIONS REQUIRE PRIOR APPROVAL BY THE STRUCTURAL ENGINEER.
16. STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.
17. GROUT USED IN GROUT BEDS UNDER COLUMN BASE PLATES SHALL BE CEMENT BASED, NON-SHRINK, NON-METALLIC GROUT. THE GROUT SHALL EXHIBIT NO SHRINKAGE IN ACCORDANCE WITH ASTM C827-82, "TEST METHOD FOR EARLY VOLUME CHANGE OF CEMENTITIOUS MIXTURES" AT 1, 3, AND 7 DAYS AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI WHEN TESTED IN ACCORDANCE WITH ASTMC-109-80, "TEST METHOD FOR COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTARS".
18. ALL SAG RODS SHALL BE 5/8" DIA., A36 SMOOTH BAR WITH THREADED ENDS. SS. DOUBLE NUT EA. END OF SAG RODS.
19. ALL STRUCTURAL STEEL, MISCELLANEOUS STEEL AND STEEL JOISTS U.N.O. SHALL BE GIVEN ONE SHOP COAT AND ONE FIELD TOUCH UP PAINT, GRAY COLOR.
20. THE STEEL FABRICATOR SHALL INSPECT ALL ERECTED STEEL INCLUDING, BUT NOT LIMITED TO, STRUCTURAL SHAPES, JOISTS, JOIST GIRDERS AND METAL DECK. THE STEEL FABRICATOR SHALL BE RESPONSIBLE FOR THE ACCURACY, SIZE AND QUALITY OF FIELD CONNECTIONS.

INSULATED METAL PANEL (IMP)

1. INSULATED METAL PANEL (IMP) MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR PANEL STRENGTH AND ATTACHMENT TO CONCRETE, METAL DECK, STEEL, ETC... (FASTENING PATTERNS)
2. MAXIMUM DEFLECTION = L/180 (EXT. WALL), L/120 (INT. WALL).
3. DESIGN WIND PRESSURE SHALL BE BASED ON PRESSURES RELATED TO A TRIBUTARY AREA OF 20 SQ. FT. LISTED IN THE COMPONENTS AND CLADDING TABLE ON THIS DRAWING.
4. WIND AND THERMAL LOADING NEED NOT BE COMBINED IF THE STEEL BUCKLING STRESS DUE TO THERMAL WARP IS LESS THAN 1/2 THE YIELD STRENGTH OF THE METAL SKIN.
5. FOR THERMAL LOADING, THE MAXIMUM OUTSIDE AMBIENT TEMPERTURE FOR IMP SHALL BE 90°F.

DESIGN NOTES

DESIGN DATA
2020 FLORIDA BUILDING CODE 7th ed.

WIND DESIGN

BASIC WIND SPEED, ULTIMATE (ASCE 7-16) RISK CATEGORY II	118 MPH
EXPOSURE	C
ENCLOSURE CLASSIFICATION	ENCLOSED BUILDING
INTERNAL PRESSURE COEFFICIENT	±0.18

COMPONENTS & CLADDING (NOMINAL: 0.6 ULTIMATE WIND)

AREA	ROOF (GROSS, PSF)			AREA	WALLS (GROSS, PSF)		
SQ.FT.	ZONE 2	ZONE 3	ZONES 2, 3	SQ.FT.	ZONE 4	ZONE 5	ZONES 4 & 5
10	-42.4	-57.8	+8.2	10	-20.0	-24.6	+18.5
20	-39.7	-52.3	+7.7	20	-19.2	-23.0	+17.6
50	-36.0	-45.1	+7.0	50	-18.1	-20.8	+16.6
100	-27.0	-39.8	+6.5	100	-17.3	-19.2	+15.7

NOTE: EDGE DISTANCE = 5.0' **NOTE:** EDGE DISTANCE, a = 3.0'

EARTHQUAKE DESIGN

OCCUPANCY CATEGORY	II
SITE CLASS	D (ASSUMED)
IMPORTANCE FACTOR	1.0
SPECIAL RESPONSE ACCELERATION	Ss = 0.087
	S1 = 0.051
SPECTRAL RESPONSE COEFFICIENTS	SDs = 0.093
	SD1 = 0.081
SEISMIC DESIGN CATEGORY	B
RESPONSE MODIFICATION FACTOR (R)	3.00: STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC

FOUNDATION DESIGN

SOIL BEARING CAPACITY	qall. = 2,500 PSF
MODULUS OF SUBGRADE REACTION, K	150 PCI
GEOTECHNICAL ENGINEERING SERVICES	UNIVERSAL ENGINEERING SCIENCES 5561 FLORIDA MINING BLVD SOUTH, JACKSONVILLE, FL PROJECT NO. 92825-001-01, REPORT NO. 456550
MIN. FOUNDATION BRG DEPTH	18" BELOW FINISHED GRADE

LIVE LOADS

ROOF	20 PSF (WITH TRIBUTARY REDUCTIONS PER CODE)
100-YR RAIN INTENSITY	4.5 IN/HR
GROUND SNOW LOAD, Pg	0 PSF

ROOF DEAD LOADS

SINGLE PLY ROOF MEMBRANE	0.5 PSF
ROOF INSULATION	1.5 PSF
METAL ROOF DECK	2.0 PSF
ROOF STEEL	5.0 PSF
COLLATERAL	5.0 PSF
TOTAL	15.0 PSF

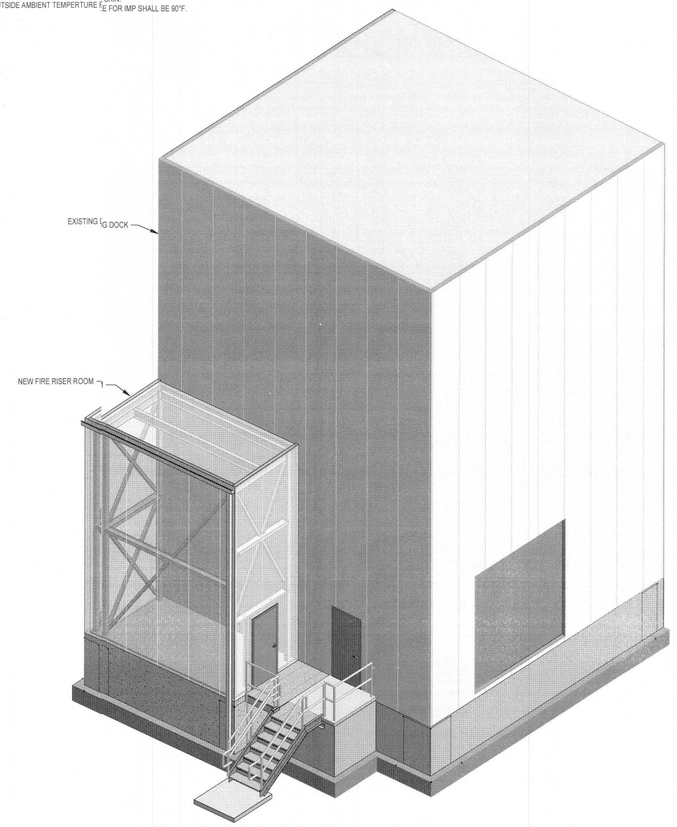
MATERIALS

WIDE FLANGE STEEL	A572 OR A992 (50 KSI)
CHANNELS, ANGLES & PLATES	A36 (36 KSI)
RECTANGULAR STRUCTURAL TUBING	A500 GRADE B (46 KSI) OR GRADE C (50 KSI)
STANDARD PIPE	A53 GRADE B
HIGH STRENGTH BOLTS	A325N, A325TC
C.I.P. ANCHOR RODS	HEAVY HEX HEAD F1554 GRADE 36
POST-INSTALLED ANCHOR RODS	ASTM A193 GRADE B7 W/ COATING AS SPECIFIED IN ESR-2322 OR ESR-3187 OR ESR-3814. POST-INSTALLED ANCHORS REQUIRE ENGINEER'S APPROVAL PRIOR TO USE
SAG RODS	A36 BAR WITH THREADED ENDS
METAL ROOF DECK	1 1/2", TYPE B, 22 GA, Fy=40 ksi MIN. GALV. G60
WELDING ELECTRODES	E70XX
STEEL GRATING	1 1/4" x 3/16" CMW 4-125 (11W4) GRATING, GALV. STEEL

CONCRETE (28 DAYS)

FOOTINGS	3000 PSI
PIERS	3000 PSI
WEAR SLAB/SLAB-ON-GRADE	4000 PSI
ALL OTHER CONCRETE	3000 PSI
REINFORCING STEEL	A615 GRADE 60
HEADED STUDS	A108
DEFORMED BAR ANCHORS (DBA)	A1064
ADHESIVE ANCHORING	HILTI HIT-RE 500 V3 ADHESIVE ANCHOR SYSTEM (ICC ESR-3814) HILTI HIT-RE 500-SD ADHESIVE ANCHOR SYSTEM (ICC ESR-2322) HILTI HIT-HY 200 ADHESIVE ANCHOR SYSTEM (ICC ESR-3187)

ERECTION
ALL STRUCTURAL COMPONENTS SHALL BE ERECTED WITHIN THE TOLERANCES SET FORTH BY AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".



ISOMETRIC VIEW

SPECIAL INSPECTION SCHEDULE

ESTABLISHED IER 2018 IBC SECTION 110 AND CHAPTER 17

ITEM	CONTINUOUS	PERIODIC	REFERENE	COMMENTS
PRE-FAB CONSTRUCTION			REFERENCE NOES P1 & P2	P1. SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTION PROVIDED THE FABRICATOR COMPLIES WITH IBC. P2. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
STEEL CONSTRUCTION (IBC 1705.2)				S1. WELDING INSPECTIONS SHALL BE IN COMPLIANCE w/ AWS D1.1.
MATERIAL VERIFICATION OF STRUCTURAL STEEL IDENTIFICATION MARKINGS TO CONFORM WITH ASTM STANDARDS SPECIFIED IN THE DESIGN DRAWINGS		X	AISC 360	S2. ALL WELDS SHALL BE VISUALLY INSPECTED. ALL MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDERS SHALL BE VERIFIED PRIOR TO THE START OF WORK (AISC 360).
CERTIFIED MILL TESTS	EACH SUBMITTAL			S3. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR BY USING ANOTHER APPROVED METHOD. (AISC 360).
SHOP AND FIELD WELDING			REFERENCE NOT: S1	
SINGLE PASS FIELD WELD ≤ 5/16"		X	REFERENCE NOT: S2	S4. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY IF REINFORCING STEEL OTHER THAN ASTM A 706. IN ACCORDANCE WITH ANSI/AWS D1.4, CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL, NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE.
FILLET WELDS > 5/16"	X		REFERENCE NOT: S2	
MULTI-PASS FILLET WELDS	X		REFERENCE NOT: S2	
PARTIAL/COMPLETE PENETRATION WELDS	X		REFERENCE NOT: S3	
FLOOR AND ROOF DECK WELDING		X	REFERENCE NOT: S2	
FLOOR AND ROOF DECK MECH. FASTENERS		X		
SIDE SEAM SCREWS,BUTTON PUNCHES ETC.		X		
INSPECTION OF STEEL FRAME JOINT DETAILS		X		
EMBEDDED PLATES		X		
HIGH STRENGTH BOLTING			AISC 360	S5. SLIP-CRITICAL CONNECTIONS MAY HAVE PERIODIC SPECIAL INSPECTION PROVIDED THAT THE TURN-OF-THE-NUT METHOD WITH MATCH MARKING TECHNIQUES IS USED.
VERIFY MATERIALS OF NUTS, BOLTS & WASHERS		X		
BEARING TYPE CONNECTIONS		X		
SLIP-CRITICAL CONNECTIONS	X	X	REFERENCE NOTI S5	
VERIFY FIELD INSTALLED WEB MEMBERS LOCATED AT POINTS OF CONCENTRATED LOAD AS REQUIRED ON CONTRACT DRAWINGS.		X		
VERIFY DECK, DECK ASSESSORIES AND MECHANICAL FASTENERS COMPLY WITH CONTRACT DOCUMENTS INCLUDING PROFILES, MATERIAL PROPERTIES AON BASE METAL THICKNESS		X	SDI QA/QC, TABLE!	
VERIFY DECK, DECK ASSESSORIES AND CONNECTIONS INSTALLED PER SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.		X	SDI QA/QC, TABLE!	
VERIFY TYPE, SIZE AND LOCATION OF SUPPORT AND SIDELAP CONNECTIONS.		X	SDI QA/QC, TABLE!	
CONCRETE CONSTRUCTION (IBC 1705.3)			ACI 318	
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT.		X		
INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X			
VERIFYING USE OF REQUIRED DESIGN MIX.		X		
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X			
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X			
EVALUATION OF CONCRETE STRENGTH		X		
INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS.		X		
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE		X	ACI 318, IBC 1912.1	
INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE RESISTING SYSTEM (AS APPLICABLE)	X X			
ERECTION OF PRECAST CONCRETE MEMBERS		X		
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X		
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER(S) BEING FORMED.		X		
SOILS (IBC 1705.6)				
VERIFY MATERIALS BELOW FOOTING ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.		X		
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X			
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X		
VERIFY SITE PREPARATION COMPLIES WITH APPROVED SOILS REPORT.	X			
VERIFY DRY-DENSITY OF COMPACTED FILL COMPLIES WITH APPROVED SOILS REPORT.		X		

GENERAL SPECIAL INSPECTION NOTES:

1. THE ITEMS MARKED WITH A "X" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND/OR THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECLY TO THE ARCHITECT, ENGINEER ,CONTRACTOR AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF CONSTRUCTION.
2. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.
3. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK (IBC SECTION 1704). SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.

STRUCTURAL SHEET LIST

G0001	COVER SHEET
G0002	SHEET INDEX
S0001	STRUCTURAL GENERAL NOTES & INSPECTION SCHEDULE
S1001	RISER ROOM PLANS AND STRUCTURAL ELEVATIONS
S1101	PLANS, ELEVATIONS AND SECTION
S4001	LANDING AND STAIR PLANS AND SECTIONS
S5001	STRUCTURAL DETAILS.
S5101	IMP DETAILS

OWNER

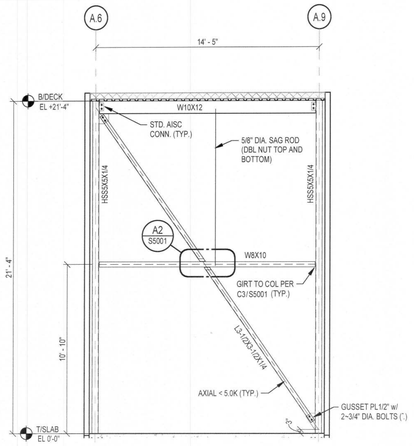
UNITED STATES COLD STORAGE

PROJECT INFORMATION

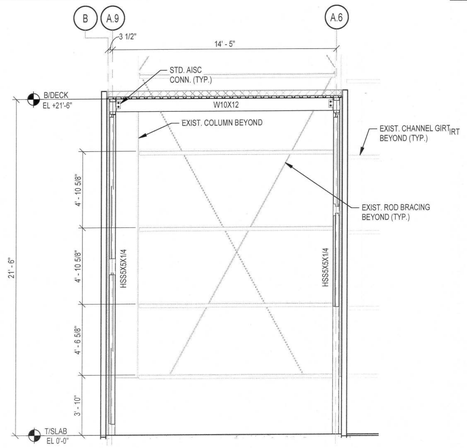
UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

stellar
TAKING SOLUTIONS FURTHER

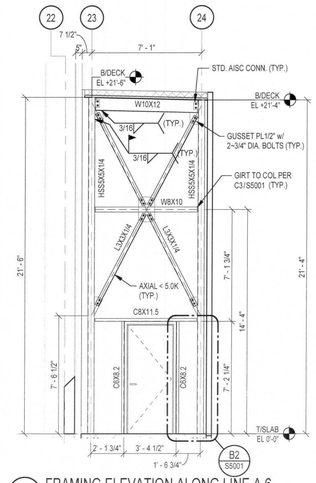
OPERATING AS:
THE STELLAR GROUP



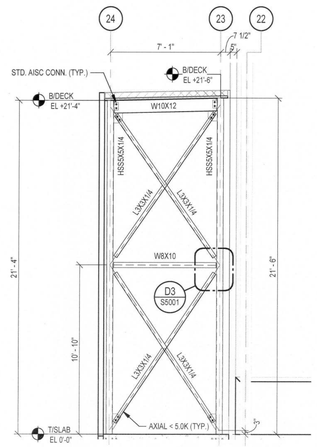
D1 FRAMING ELEVATION ALONG LINE 24
SCALE: 1/4" = 1'-0"



D2 FRAMING ELEVATION ALONG LINE 23
SCALE: 1/4" = 1'-0"



D3 FRAMING ELEVATION ALONG LINE A.6
SCALE: 1/4" = 1'-0"



D4 FRAMING ELEVATION ALONG LINE A.9
SCALE: 1/4" = 1'-0"

FOUNDATION AND SLAB SHEET NOTES

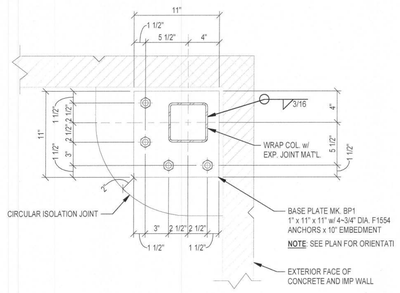
1. FINISHED FLOOR ELEV. = 0'-0" (REF. TAKEN AT ADJACENT DOCK BLDG FIN. FLR.)
   A. REFERENCE CIVIL DRAWINGS FOR ACTUAL ELEVATION.
2. BP-X (-X'-X") INDICATES BASE PLATE TYPE AND BOTTOM OF BASE PLATE ELEVATION RESPECTIVELY.
3. F. CF OR RFXX.X (-X'-X") INDICATES FOOTING MARK AND TOP OF FOOTING ELEVATION RESPECTIVELY.
4. STRUCTURAL GENERAL NOTES PER DRAWING S00001.
5. REF. GEOTECHNICAL REPRT OF SUBGRADE PREPARATION.
6. ALL SLAB-ON GRADE SHAL HAVE A MIN OF 4" GRANULAR BASE. (REF.) SEE CIVIL DRAWINGS.

ROOF FRAMING PLAN SHEET NOTES

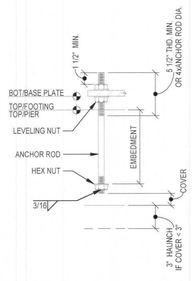
1. SEE DRAWING S0001 FOR STRUCTURAL GENERAL NOTES.
2. ALL T/STEEL ELEV. GIVEN WITH RESPECT TO TOP OF FINISH FLOOR SLAB ASSUMED ELEVATION 0'-0" (SEE CIVIL FOR ACTUAL)
3. MAXIMUM WF BEAM END RXN LESS THAN/EQUAL TO 10.0K

ROOF DECK ATTACHMENT NOTES

1. SEE MATERIAL SECTION O' DESIGN NOTES ON S0001 FOR DECK TYPE.
2. METAL ROOF DECK SHALL BE ATTACHED TO FIELD AND PERIMETER ROOF BEAMS WITH A 36/4/2 CONNCTION PATTRN.
3. STRUCTURAL SUPPORT FASTENERS SHALL BE MADE WITH 5/8" DIA. PUDDLE WELDS OR WITH APPLICABLE HILTI PINS X-IDN-19, X-EDNK-22 OR X-ENP-19.
4. SIDE LAPS BETWEEN STRICTURAL SUPPORTS SHALL BE MADE WITH #10 TEK SCREWS AS MANUFACTURED BY ITW BUILDEX OR EQUIV.
5. END LAPS SHALL BE A MINIMUM OF 3" AND SHALL OCCUR OVER SUPPORTS.



C1 TYPICAL BASE PLATE AND SLAB ISOLATION JOINT
SCALE: 1 1/2" = 1'-0"



BASE PLATE ANCHOR ROD HLE	
ANCHOR ROD DIA.	HOLE DIA.
3/4"	5/16" OVERSIZE

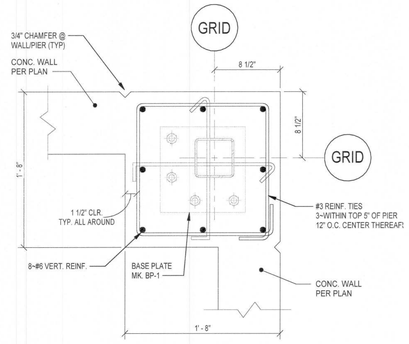
NOTE:
IF ANCHOR ROD HOLE DIAMETER IS SPECIFIED LARGER THAN SHOWN IN SCHEDULE, ANCHOR ROD PLATE WASHERS SHALL BE USED. (SEE BELOW)

ANCHOR ROD PLATE WASHES		
ANCHOR ROD DIAMETER	MAX. HOLE DIAMETER	PLATE WASHER S W/ 1 1/16" DIA. HC
3/4"	1 5/16"	2" x 1/4"

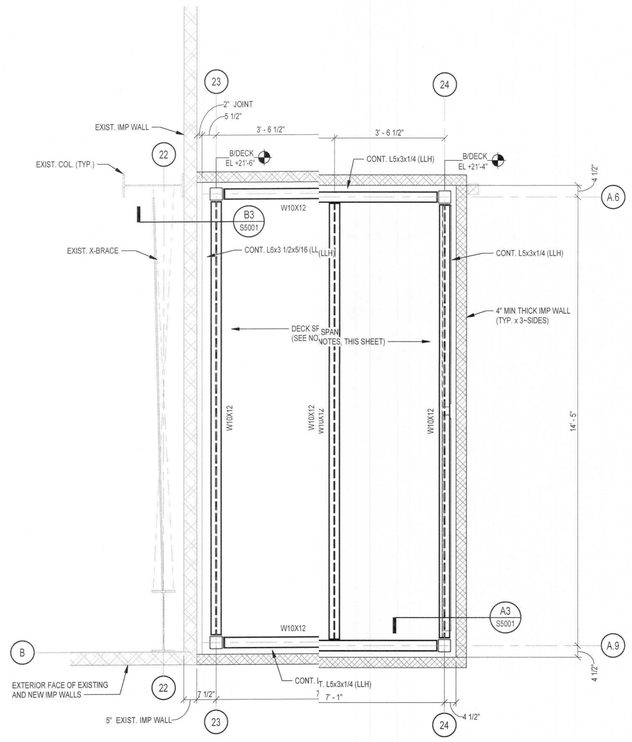
NOTE:
IF MAX. HOLE DIA. OPTION IS CHOSEN, PLATE WASHERS MUST BE WELDED TO BASE PLATE WITH 3/16" FILLET WELD FULL LENGTH OF PLATE WASHER ON TWO OPPOSING SIDES WHEN LOCATED AT A BRACED COLUMN.

NOTE: SET ANCHORS TO ENSURE PROPER EMBEDMENT FROM TOP OF PIER OR FOOTING

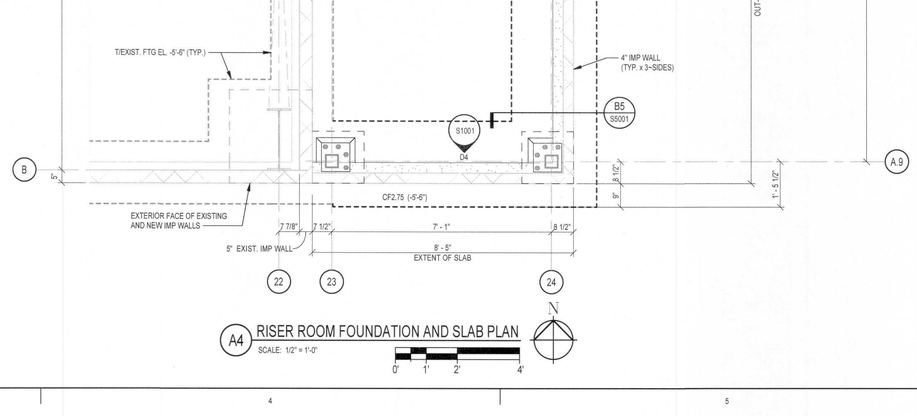
B2 ANCHOR ROD DETAIL
SCALE: 1 1/2" = 1'-0"



A1 TYPICAL PIER MK. P-1
SCALE: 1 1/2" = 1'-0"



A2 RISER ROOM ROOF FRAMING PLAN
SCALE: 1/2" = 1'-0"



A4 RISER ROOM FOUNDATION AND SLAB PLAN
SCALE: 1/2" = 1'-0"

CONTINUOUS FOUNDATION SCHEDULE						
Mark	SIZE		REINFORCEMENT			
	Width	Depth	Bot (Long)	Bot (Short)	Tip (Long)	Top (Short)
CF2.75	2'-9"	1'-6"	4~#4 CONT.	#4x2'-3" @ 12" O.C.	4#4 CONT.	#4x2'-3" @ 12" O.C.

OWNER
UNITED STATES COLD STORAGE
PROJECT INFORMATION
UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055
stellar
TAKING SOLUTIONS FURTHER
OPERATING AS:
THE STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL 32257 (904) 260-2900
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FLORIDA ENGINEERING LICENSE NO. CA5930
SEAL
James F. Matelski
7/18/22
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CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED:	07/18/2022
DESIGNED BY:	JFM
REVIEWED BY:	JFM
A/E/OR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

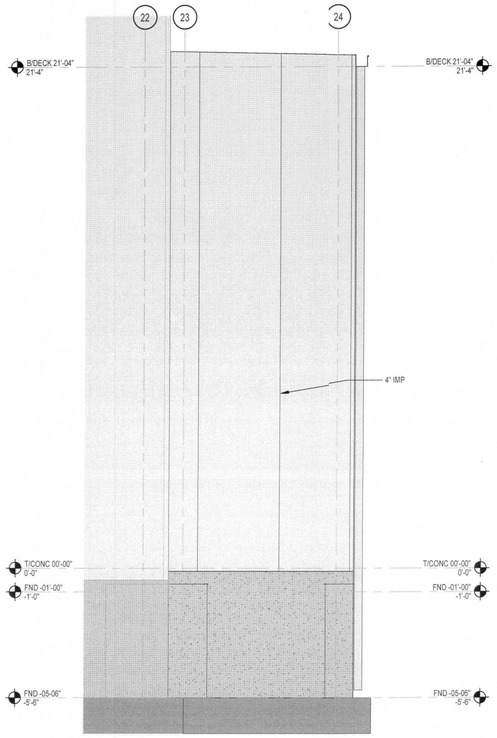
RISER ROOM PLANS AND STRUCTURAL ELEVATIONS

SHEET ID

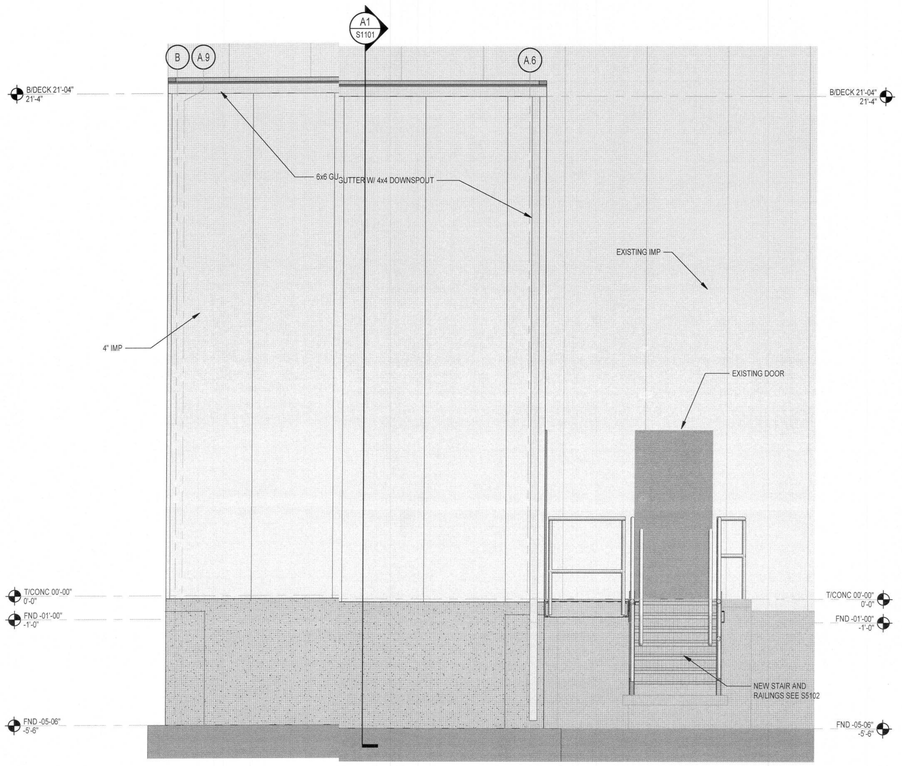
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CONSTRUCTION ISSUE

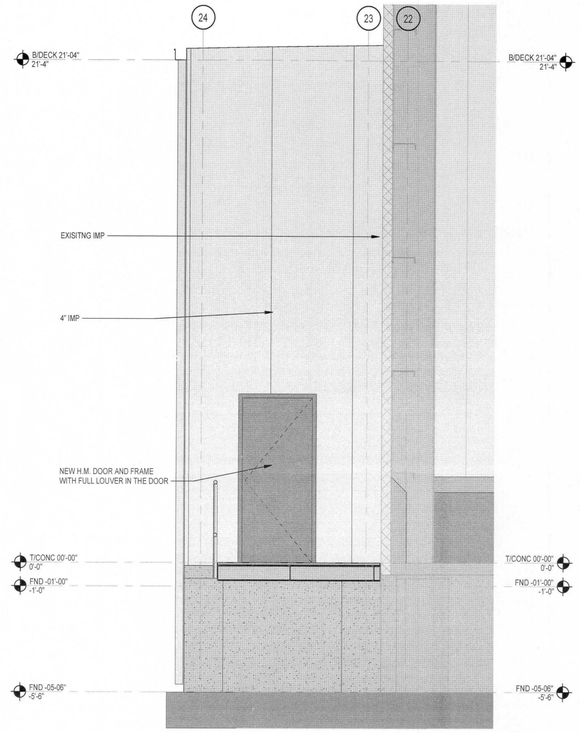
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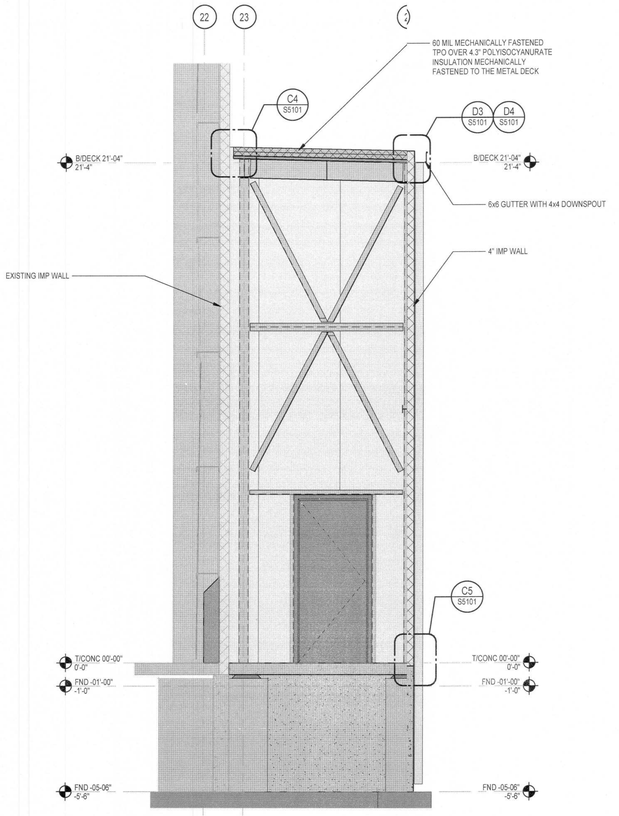
C1 C1/S1101 - ELEVATION SOUTH
SCALE: 3/8" = 1'-0"
0' 2' 4' 6' 8'



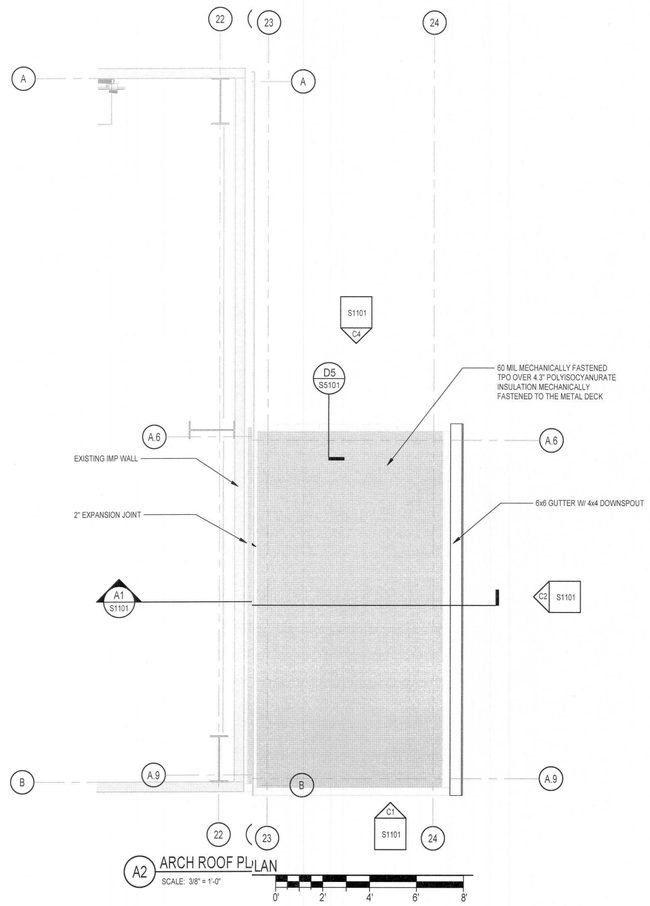
C2 C2/S1101 ELEVATION EAST
SCALE: 3/8" = 1'-0"
0' 2' 4' 6' 8'



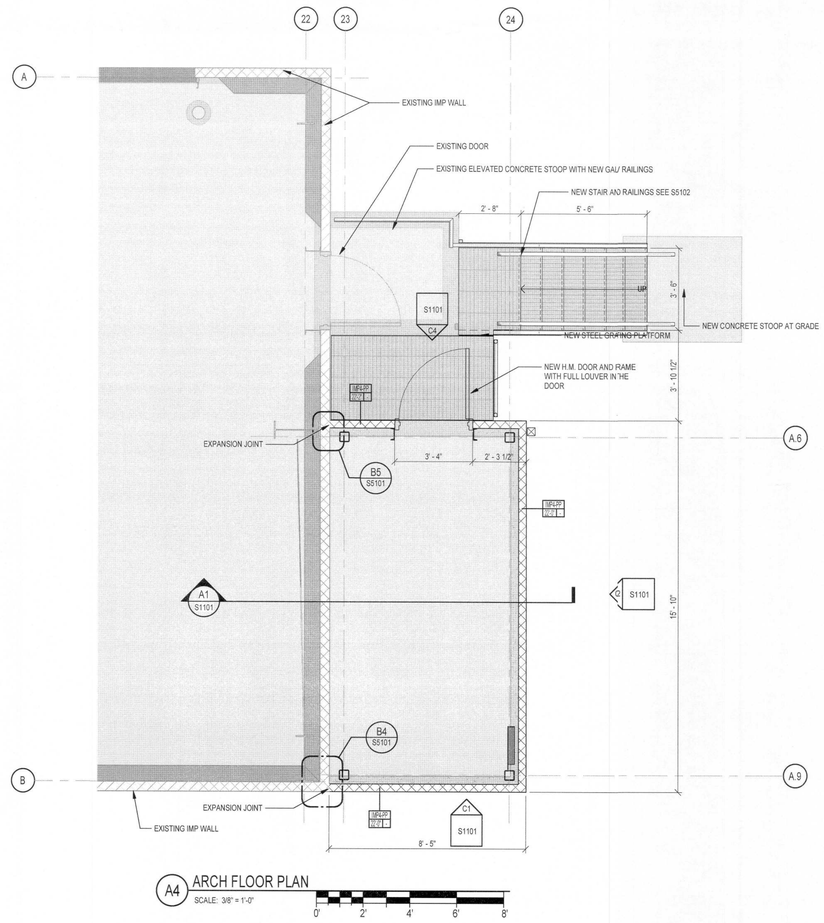
C4 C4/S1101 ELEVATION NORTH
SCALE: 3/8" = 1'-0"
0' 2' 4' 6' 8'



A1 WALL SECTION
SCALE: 3/8" = 1'-0"
0' 2' 4' 6'



A2 ARCH ROOF PLAN
SCALE: 3/8" = 1'-0"
0' 2' 4' 6' 8'



A4 ARCH FLOOR PLAN
SCALE: 3/8" = 1'-0"
0' 2' 4' 6' 8'

OWNER

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REVIEWED BY:	PEJ
A/E/OR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

PLANS, ELEVATIONS AND SECTION

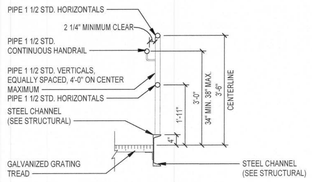
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S1101

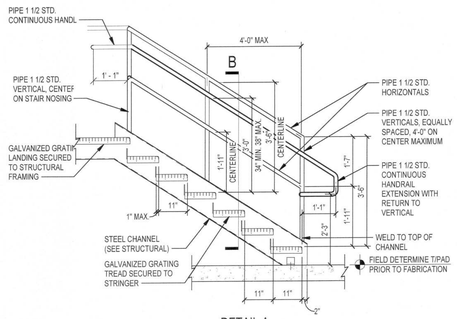
CONSTRUCTION ISSUE

7/18/2022 11:27:56 AM C:\Revit Local\07329_FireRiser_S_R20_James.Mateleski.rvt

STAIR NOTES:
1. STAIR SHALL HAVE UNIFORM RISER HEIGHTS AND TREAD WIDTHS FOR ANY GIVEN FLIGHT OF STAIRS.
2. SEE STRUCTURAL FOR ALL REINFORCING AND STEEL FRAMING REQUIREMENTS.
3. HORIZONTALS SPACED TO PREVENT THE PASSAGE OF A 21'Ø SPHERE.
4. OPENINGS IN GRATING SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2" Ø AND THE ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTIONS OF TRAVEL.

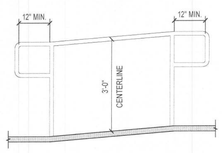


DETAIL B

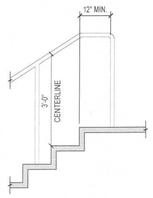


DETAIL A

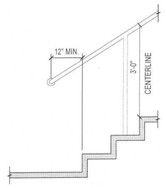
D1 STEEL STAIR FRAMING
SCALE: 1/2" = 1'-0"



(TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS)



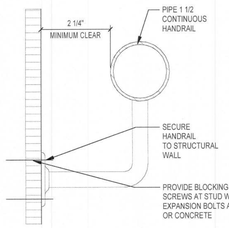
(TOP HANDRAIL EXTENSIOAT STAIRS)



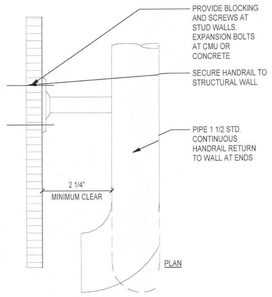
(BOTTOM HANDRAIL EXTENSION AT STAIRS)

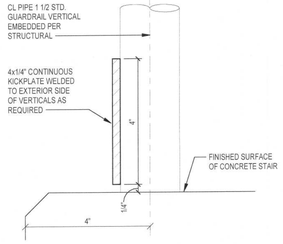
HANDRAIL EXTENSION NOTES:
1. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS.) RAMP RUNS. EXCEPTIONS: 1. EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCHBACK OR DOGLETAIRS AND RAMPS. 2. IN ASSEMBLY AREAS, EXTENSIONS SHALL NOT BE REQUIRED FOR RAMP HANDRAILS IN AISLES SERVING SEATING WHERE THE HORAILS ARE DISCONTINUOUS TO PROVIDE ACCESS TO SEATING AND TO PERMIT CROSSOVERS WITHIN AISLES. 3. IN ALTERATIONS, FULL EXTENSIONS' HANDRAILS SHALL NOT BE REQUIRED WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS DUE TO PLAN CONFIGURATION.
2. TOP AND BOTTOM EXTENSION AT RAMPS. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LAING FOR 12 INCHES (305 mm) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDINORFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
3. TOP EXTENSION AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY AFE THE LANDING FOR 12 INCHES (305 mm) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
4. BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION SHALL IURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

C1 HANDRAIL EXTENSIONS
SCALE: 1/2" = 1'-0"



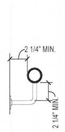
SECTION



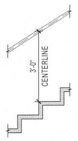


KICK PLATE SECTION

B1 HANDRAIL SECTIONS
SCALE: 6" = 1'-0"



(HANDRAIL CLEARANCE WITH HORIZONTAL PROJECTIONS BELOW GRIPING SURFACE)



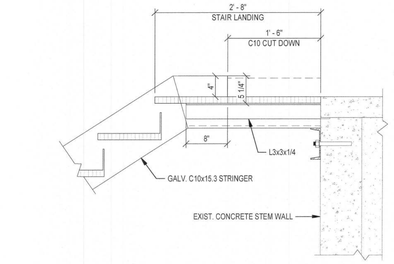
(STAIRS)



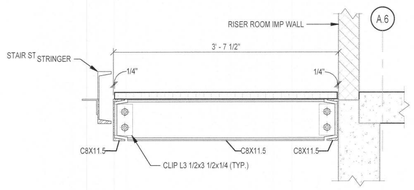
(WALKING SUFACES)

HANDRAIL NOTES:
1. GENERAL. HANDRAILS ARE REQUIRE ON RAMP RUNS WITH A RISE GREATER THAN 6 INCHES (150 mm) AND ON CTAIN STAIRWAYS. HANDRAILS ARE NOT REQUIRED ON WALKING SURFACES WITH RUNNING SLOPES LESS THAN 1:20.WEVER, HANDRAILS ARE REQUIRED TO COMPLY WITH HANDRAIL REQUIREMENTS WHEN HANDRAILS ARE PROVIDED ONLKING SURFACES WITH RUNNING SLOPES LESS THAN 1:20.
2. WHERE REQUIRED. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS. EXCEPTION: IN ASMBLY AREAS, HANDRAILS SHALL NOT BE REQUIRED ON BOTH SIDES OF AISLE RAMPS WHERE A HANDRAIL IS PROVIDED AT EER SIDE OR WITHIN THE AISLE WIDTH.
3. CONTINUITY. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP R INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RS. EXCEPTION: IN ASSEMBLY AREAS. HANDRAILS ON RAMPS SHALL NOT BE REQUIRED TO BE CONTINUOUS IN AISLES SERVINGATING.
4. HEIGHT. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (865 mm) MINIMUM AND 38 INCHES (mm) MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.
5. CLEARANCE. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 2 1/CHES (38 mm) MINIMUM.
6. GRIPPING SURFACE. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALDT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BESTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR1/4 INCHES (38 mm) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE. EXCEPTIONS: 1. WHERE HANDRAILSE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1:20, THE BOTTOMS OF HANDRAIL GRIPPING SUACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY AE INTEGRAL TO CRASH RAILN BUMPER GUARDS. 2. THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING SURFACHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH (3.2 mm) FOR EACH 1/2 INCH (13 mm) OF ADDITIONAL HANDRAIL PERIMIR DIMENSION THAT EXCEEDS 4 INCHES (100 mm).

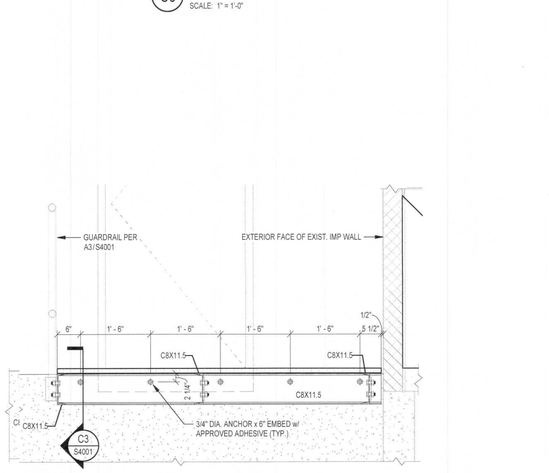
A1 HANDRAILS
SCALE: 3/8" = 1'-0"



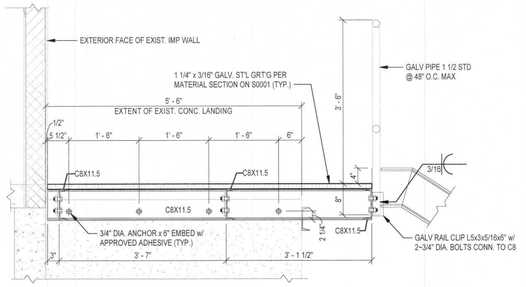
D2 STAIR SECTION
SCALE: 1" = 1'-0"



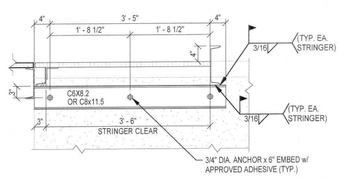
C3 LANDING SECTION
SCALE: 1" = 1'-0"



B3 LANDING SUPPORT SECTION
SCALE: 3/4" = 1'-0"

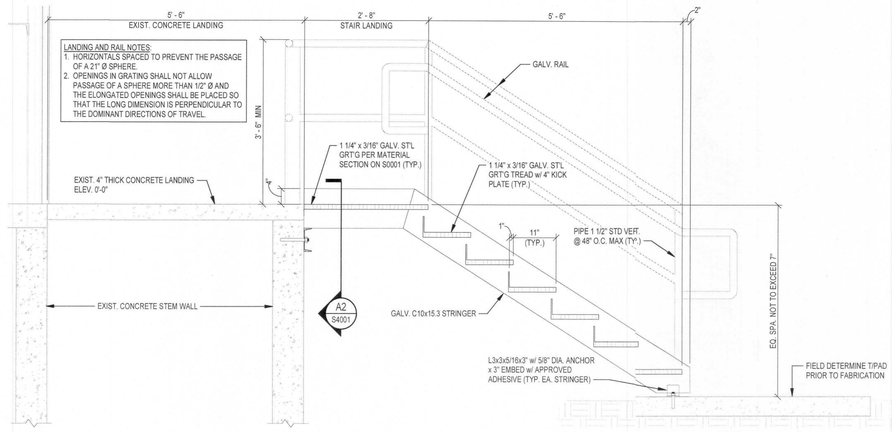


A3 LANDING SUPPORT SECTION
SCALE: 3/4" = 1'-0"

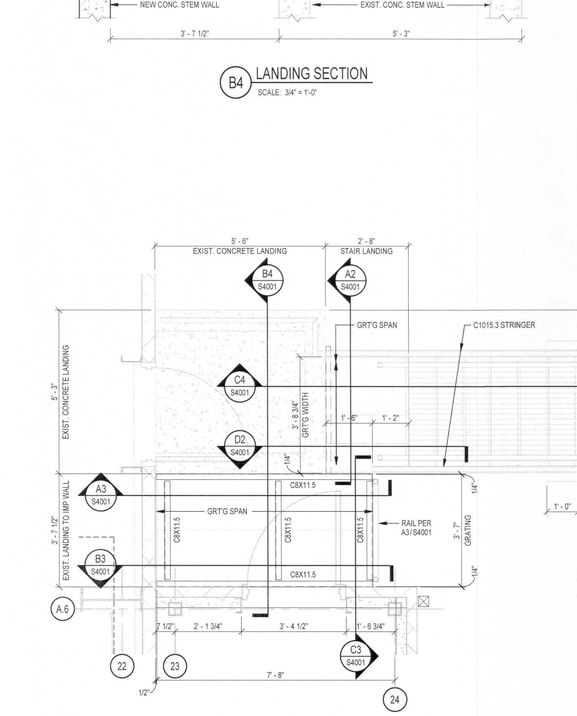


A2 STAIR LANDING SECTION
SCALE: 3/4" = 1'-0"

NOTE:
1. SEI S0001 FOR STRUCTURAL GENERAL NOTES.
2. SEI S1001 FOR OVERALL FIRE RISER ROOM, STAIR AND LANDING LOCATION.
3. ALISTEEL SHALL BE HOT DIP GALV.



C4 STAIR SECTION
SCALE: 3/4" = 1'-0"



B4 LANDING SECTION
SCALE: 3/4" = 1'-0"

A4 LANDING AND STAIR PLAN
SCALE: 1/2" = 1'-0"



OWNER

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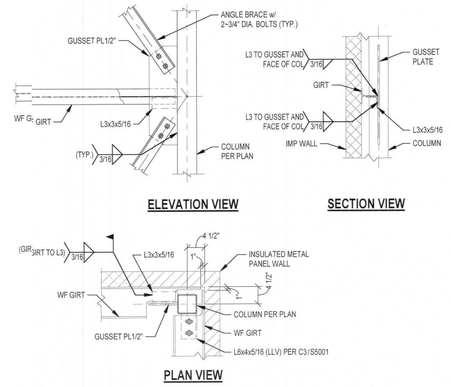
LANDING AND STAIR PLANS AND SECTIONS

SHEET ID

S4001

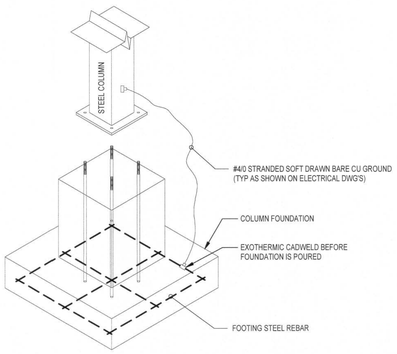
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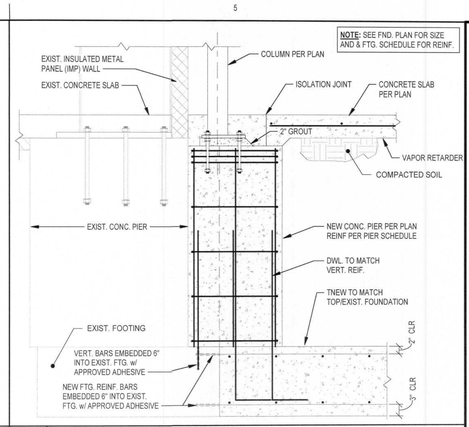
D3 BRACE ANGLE AT GIRT AND COLUMN

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



D4 TYPICAL COLUMN BONDING GROUND

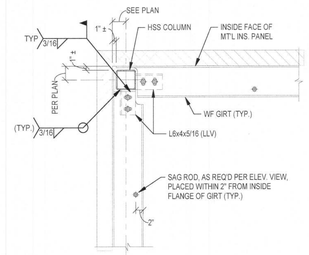
SCALE: 1/2" = 1'-0"



D5 EXISTING TO NEW EXTERIOR WF COL. & PIER

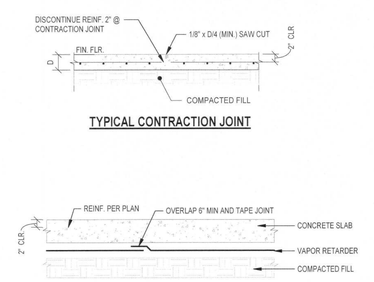
SCALE: 3/4" = 1'-0"

NOTE:
PROVIDE HORIZONTAL SLOTTED HOLES PERPENDICULAR TO WALL PANELS TO ALLOW FOR 1" ADJUSTMENT IN GIRT LOCATION. VERTICALLY ALIGN OUTSIDE FACE OF ALL GIRTS WITH EDGE ANGLE ABOVE. HAND TIGHTEN BOLTS, THEN WELD IN PLACE AS SHOWN OR USE A325SC BOLTS AS AN ALTERNATE.



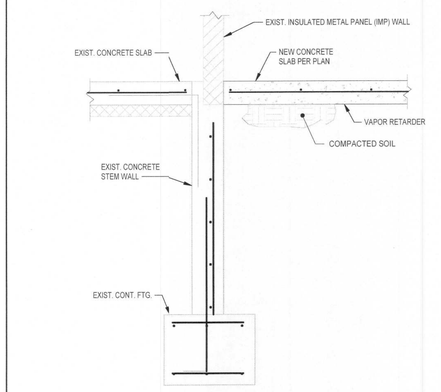
C3 TYPICAL GIRT CONNECTION

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



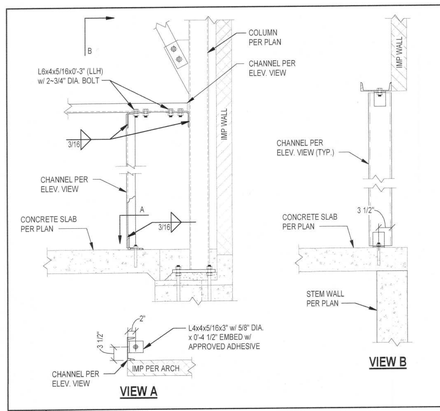
C4 TYPICAL SLAB JOINT AND ASSEMBLY DETAILS

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



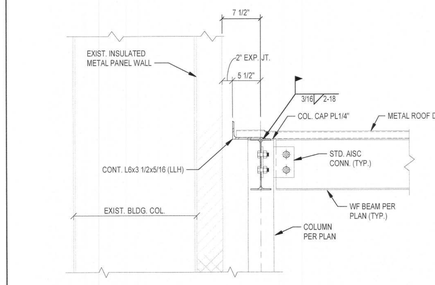
C5 EXISTING EXTERIOR FND. WALL

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



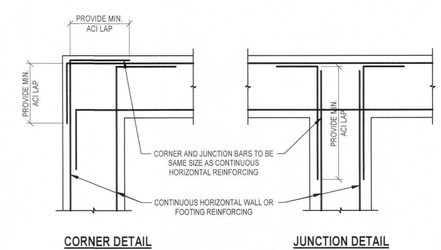
B2 POST CHANNEL TO SLAB/GIRT AT PERSONNEL DOOR

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



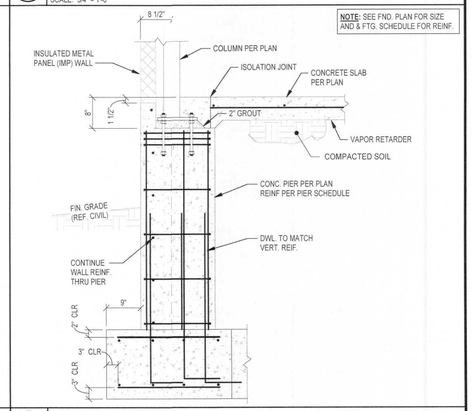
B3 PERIMETER BEAM

SCALE: 1" = 1'-0"



B4 TYPICAL WALL AND FOOTING

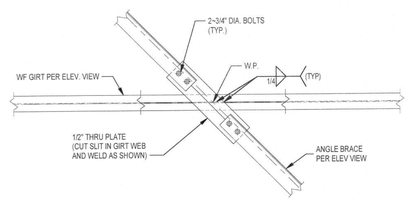
SCALE: 1/2" = 1'-0"



B5 EXTERIOR WF COL & PIER

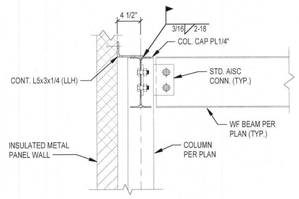
SCALE: 3/4" = 1'-0"

NOTE: ROOF DECK NOT SHOWN



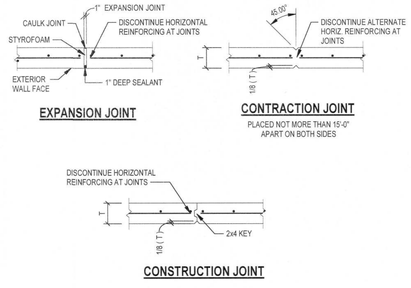
A2 BRACE ANGLE THROUGH GIRT

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



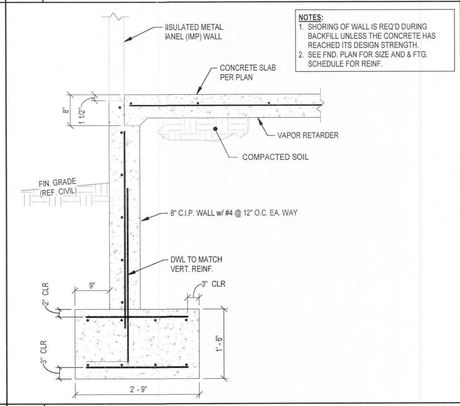
A3 PERIMETER BEAM

SCALE: 1" = 1'-0"



A4 FOUNDATION WALL JOINTS

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



A5 EXTERIOR FND. WALL

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

OWNER

UNITED STATES COLD STORAGE

PROJECT INFORMATION

UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

stellar
TAKING SOLUTIONS FURTHER

OPERATING AS:
THE STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL 32257 (904) 260-2900
WWW.STELLAR.NET
FLORIDA ARCHITECTURAL LICENSE NO. AR0013370
FLORIDA ENGINEERING LICENSE NO. CA5630

SEAL

James F. Matelski FL License #63121
7/18/22

CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED:	07/18/2022
DESIGNED BY:	JFM
REVIEWED BY:	JFM
A/E/OR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

STRUCTURAL DETAILS

SHEET ID

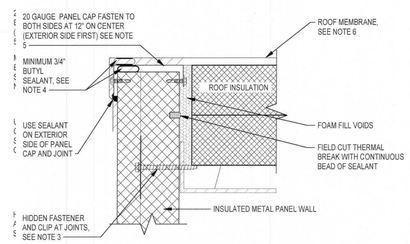
S5001

CONSTRUCTION ISSUE

7/18/2022 11:28:06 AM C:\Revit Local\07329_FireRiser_S_R20_James.Matelski.rvt

D3 EXTERIOR IMP WALL @ ROOF EDGE

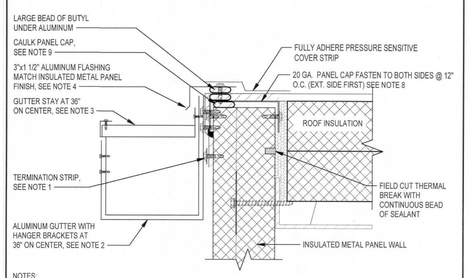
SCALE: 3" = 1'-0" — COLD/EXTERIOR — R-1



NOTES:
1. CUT INSULATED METAL PANEL 1/2" LOWER THAN TOP OF ROOF AT GUTTER EDGE.
2. CUT INSULATED METAL PANEL SAME HEIGHT AS ROOF AT RAKE EDGE.
3. 1/4"-14x_" TEK SCREW.
4. SET BUTYL ON AND IN PANEL CAP ON WARM SIDE AND ON PANEL JOINT.
5. SECURE 20 GAUGE CHANNEL WITH #10x3/4" TEK 1 SCREWS.
6. ROOF MEMBRANE FULLY ADHERE TO CAP AND RUN DOWN 1-1/2" BELOW PANEL CAP.

D4 EXTERIOR IMP WALL @ ROOF EDGE W/ GUTTER

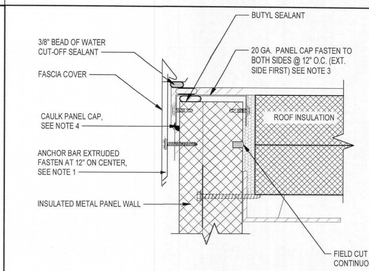
SCALE: 3" = 1'-0" — SHALLOW FLUTED EXTERIOR PANELS - ALL CONDITIONS — R-3



NOTES:
1. TERMINATION STRIP FASTENED WITH #10x3/4" TEK 1 SCREWS 12"ON CENTER
2. FASTEN GUTTER HANGER WITH (2) #10x3/4" TEK 2 SCREWS. ALTERNATE WITH STAYS AND FASTEN EXTERIOR FACE TO GUTTER. DO NOT SCREW TO BOTTOM OF GUTTER.
3. SECURE GUTTER STAY WITH (2) #8x3/4" TEK 1 SCREWS INTO INSULATED METAL PANEL CAP THROUGH GUTTER.
4. FASTEN ALUMINUM FLASHING WITH #8x3/4" TEK 1 SCREWS AT 12" ON CENTER, SET FASTENERS MINIMUM 2" FROM EXTERIOR.
5. FASTEN HANGAR BRACKETS WITH FAB-LOKS, (2) PER BRACKET, SPACE BRACKETS AT 5'-0" ON CENTER
6. SEE DETAILS R-1 ROOF EDGE DETAIL.
7. 'GUTTER HANGAR GAUGE AND SPACING AS REQUIRED FOR AREAS SUBJECT TO ICE AND SNOW LOADS'.
8. SECURE 20 GA CHANNEL WITH #10x3/4" TEK 1 SCREWS.
9. CAULK PANEL CAP WITH APPROVED POLYURETHANE OR ELASTOMERIC SEALANT IN ALL COLD STORAGE AND FREEZER LOCATIONS.

D5 EXTERIOR IMP WALL @ROOF EDGE

SCALE: 3" = 1'-0" — SHALLOW FLUTED EXTERIOR PANELS - COLD/EXTERIOR — R-2

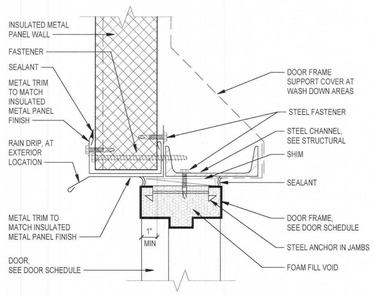


NOTES:
1. ANCHOR BAR WITH 12-4x1-1/4" HWH TEK 2 FASTENERS.
2. SEE DETAILS R-1 FOR ROOF EDGE DETAIL.
3. SECURE 20 GA CHANNL WITH #10x3/4" TEK 1 SCREWS.
4. CAULK PANEL CAP TO OUTER WALL SURFACE WITH APPROVED POLYURETHANE OR ELASTOMERIC SEALANT IN ALL COLD STORAGE AND FREEZER LOCATIONS. PANEL CAP JOINTS ALSO TO BE SEALED.

PREFERRED

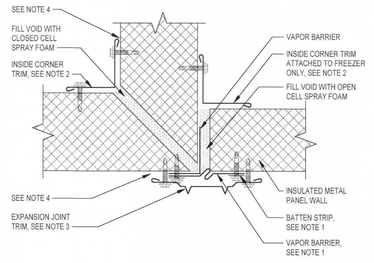
C3 SILL AT EXTERIOR DETAIL

SCALE: NOT TO SCALE — DR-S.1



C4 ROOF EXPANSION JOINT AT HIGH IMP WALL

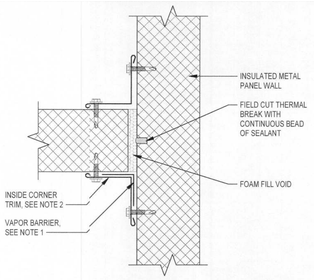
SCALE: 3" = 1'-0" — COLD/ EXTERIOR — R-13



NOTES:
1. INSTALL VAPOR BARRIER FLASHING WITH SLACK TO ALLOW FOR EXPANSION MOVEMENT BETWEEN PANELS. SECUE VAPOR BARRIER WITH 1" WIDE 16 GAUGE GALVANIZED BATTEN STRIP SECURED WITH #10x3/4" TEK.
2. CORNER TRIM IS SUPPLIED IN THE SAME GAUGE AND COLOR AS INSULATED METAL PANEL SKIN. FASTEN WITH #10x3/4" TEK SCREWS AT 12" ON CENTER
3. EXPANSION TRIM IS SUPPLIED IN THE SAME GAUGE AND COLOR AS INSULATED METAL PANEL SKIN. FASTEN WITH #14x7/8" LAP SCREWS AT 12"ON CENTER
4. DO NOT CAULK TRIM IN NON-WASH DOWN AREAS OR JUST STORAGE FACILITIES.

C5 IMP WALL AT FINISHED FLOOR DETAIL

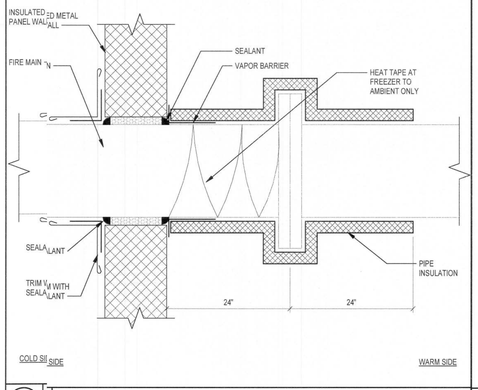
SCALE: 3" = 1'-0" — CONDITIONED / EXTERIOR — P-4



NOTES:
1. APPLY VAPOR BARRIER TO WARM SIE OF INSULATED METAL PANEL, IF BOTH SIDES OF WALL ARE SAME TEMPERATURES A VAPOR BARRIER S NOT NEEDED.
2. CORNER TRIM IS SUPPLIED IN THE SAME GAUGE AND COLOR AS INSULATED METAL PANEL SKIN. FASTEN WITH #10x3/4" TEK SCREWS AT 12" ON CENTER
3. DO NOT CAULK TRIM IN NON-WASH DOWN AREAS OR JUST STORAGE FACILITIES.

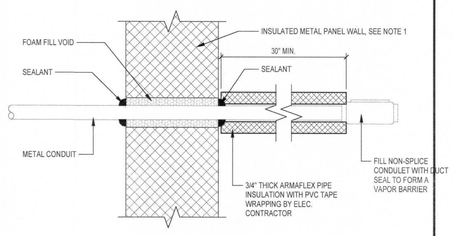
B3 RECESSED FRAME HEAD AND JAMB

SCALE: 3" = 1'-0" — COLD/WARM — D-16



B4 IMP WALL AT FREEZER CORNER W/ EXPANSION JOINT

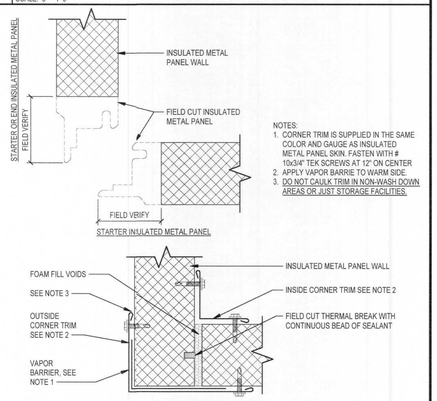
SCALE: 3" = 1'-0" — COLD/WARM — W-7



NOTES:
1. CAULKING AND SEALING SHALL MAINTAIN VAPOR BARRIER CONTINUITY OF INSULATED METAL PANEL.
2. PENETRATION SHALL BE DRILLED AFTER CONDUIT IS INSTALLED AND PROPERLY SUPPORTED ON EACH SIDE OF WALL, REMAINIGN VOIDS SHAL BE FILLED COMPLETELY WITH APPROVED SEALANT.

B5 IMP WALL INTERSECTION DETAIL

SCALE: 3" = 1'-0" — COLD / WARM — W-6



NOTES:
1. CORNER TRIM IS SUPPLIED IN THE SAME COLOR AND GAUGE AS INSULATED METAL PANEL SKIN. FASTEN WITH # 10x3/4" TEK SCREWS AT 12" ON CENTER
2. APPLY VAPOR BARRIE TO WARM SIDE.
3. DO NOT CAULK TRIM IN NON-WASH DOWN AREAS OR JUST STORAGE FACILITIES.

A3 FIRE SPRINKLER PENETRATION @ IMP WALL

SCALE: 3" = 1'-0" — COLD/WARM — P-4

A4 CONDUIT PENETRATION DETAIL

SCALE: 3" = 1'-0" — COLD/WARM — P-3

A5 IMP WALL CORNER DETAIL

SCALE: 3" = 1'-0" — ALL APPLICATIONS — W-5

OWNER

UNITED STATES COLD STORAGE

PROJECT INFORMATION

UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

stellar
TAKING SOLUTIONS FURTHER

OPERATING AS:
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2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 260-2900
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FLORIDA ARCHITECTURAL LICENSE NO. AR0013370
FLORIDA ENGINEERING LICENSE NO. CA5930

SEAL

James F. Mateleski 7/18/22

James F. Mateleski FL License #63121

CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED:	07/18/2022
DESIGNED BY:	PEJ
REVIEWED BY:	PEJ
A/E/OR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

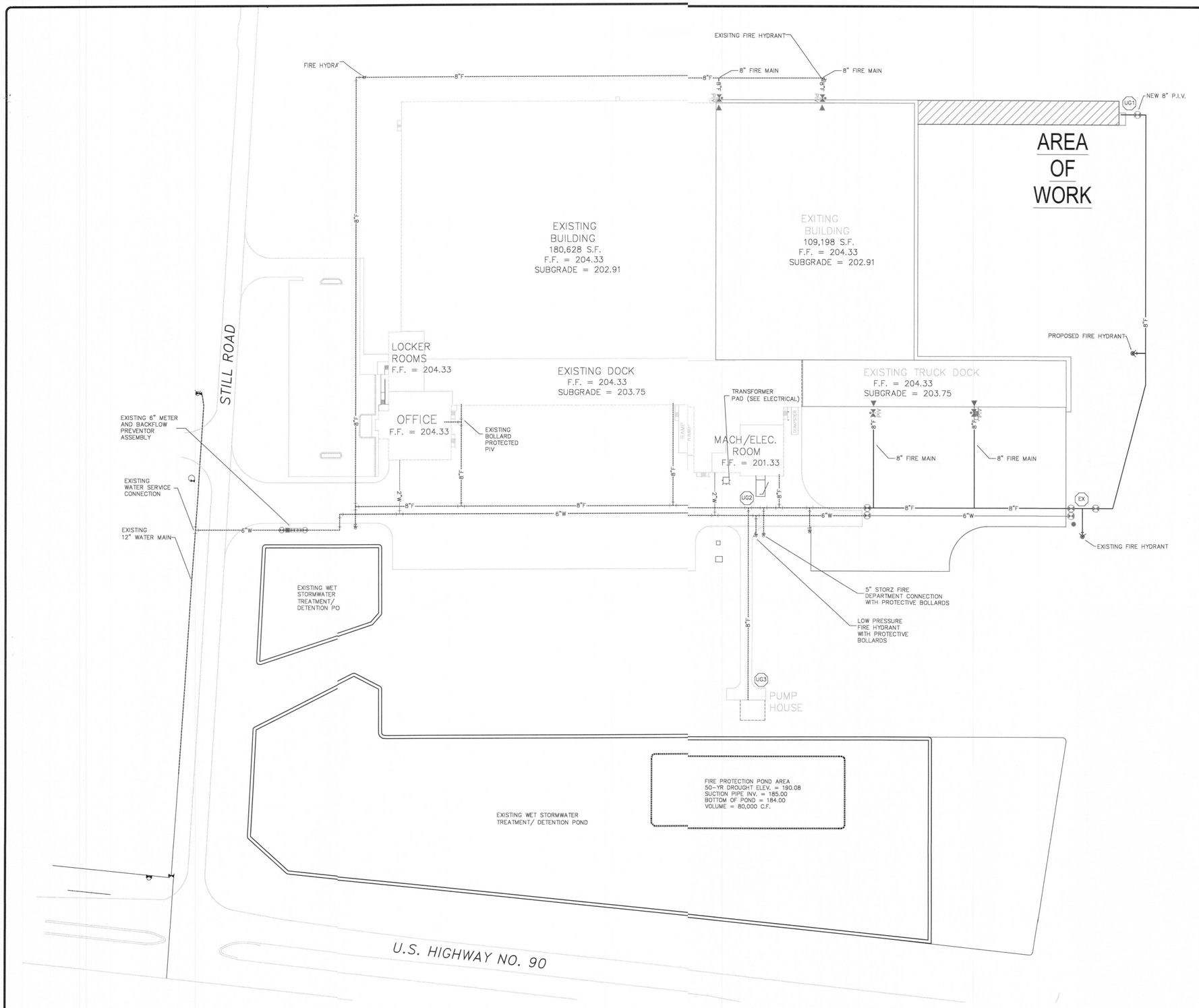
IMP DETAILS

SHEET ID

S5101

CONSTRUCTION ISSUE

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1 FP1 FIRE SPRINKLER SITE PLAN
SCALE 1" = 50'-0"

THIS PLAN IS FOR HYDRAULIC REFERENCE ONLY
ALL UNDERGROUND WORK BY OTHERS

SCOPE OF WORK:

NEW RAILDOCK--
*INSTALL (1) NEW DRY PIPE SYSTEM FOR NEW RAILDOCK ADDITION PER NFPA 13, 2016 EDITION

DESIGN CRITERIA:

NEW RAILDOCK--
*DESIGNED FOR ORDINARY HAZARD GROUP II CLASSIFICATION WITH 0.20 GPM OVER THE MOST REMOTE 1,950 SQ.FT. (ACTUAL AREA IS 2,141 SQ FT) WITH 250 GPM HOSE FOR ALLOWANCE.
NEW SPRINKLERS TO BE EXTENDED COVERAGE, STANDARD RESPONSE, 200°, BRASS UPRIGHT SPRINKLERS SPACED AT 256 SQ. FT. MAX WITH A K-FACTORS OF 14.0.

NOTES:

EXISTING 3,000 GPM @ 175 PSI VERTICAL FIRE PUMP DRAWING WATER FROM EXISTING POND

GENERAL NOTES:

-- ALL DESIGN, FABRICATION AND INSTALLATION PER THE NFPA-13, 2016 EDITION.
-- ALL FITTINGS & COUPLINGS TO BE DI U.N.O.
-- ALL PAINTING AND PATCHING BY OTHERS.
———— -- DENOTES NEW PIPING.
– – – – -- DENOTES EXISTING PIPING.
["0" BIS] -- DENOTES CENTER OF PIP. BELOW TOP OF JOIST.
[0'-0"] -- DENOTES CENTER OF PIP. ABOVE FINISHED FLOOR.
(01) -- DENOTES HYDRAULIC REFRENCE POINTS.
(9'-0") -- ALL CEILINGS HEIGHTS ARE EXISTING UNLESS NOTED OTHERWISE

HANGER NOTES:

-- ALL HANGERS PER NFPA 13, 2016 REQUIREMENTS.
-- SEE DETAILS THIS SHEET FOR HANGER TYPES.

Wiginton FIRE SYSTEMS

THIS SYSTEM HAS BEEN HYRAULICALLY DESIGNED

OCCUPANCY CLASSIFICATIO	OI GROUP II
STORAGE CONFIGURATION	MIS STORAGE
COMMODITY CLASSIFICATIO	LOADING DOCK
MAXIMUM STORAGE HGT.	12 FT
DESIGN AREA / LOCATION	RAILDOCK EXPANSION
DISCHARGE DENSITY / AREA OF OPERATION	20 GPI PER SF / 2,141 SF
DEMAND AT THE BASE OF RISER	
REQUIRED FLOW	552.37 GPM
REQUIRED PRESSURE	119.683 PSI
A HOSE STREAM DEMAND O SPRK ADDED AT	250 GPM HAS
	UNDERGROUND
CONTRACT NO.	1010694
DATE	07-27-22
FOR SERVICE CALL	904-262-6107

north

BRANCH OFFICE LOCATIONS:

Daytona FL 386.257.4300
Jacksonville FL 904.262.6107
Orlando FL 407.886.3200
Miami FL 305.868.3402
Fort Myers FL 239.278.9955
Tampa FL 813.623.2333
Gainesville FL 352.284.0500
Melbourne FL 321.727.7585
Atlanta GA 404.380.9961
Houston TX 832.720.8141
W Palm Bch FL 561.682.1331

MATERIALS & ABBREVIATIONS

SIZE	LOCATION	TYPE	SCH OR WEIGHT	MFR
1-2	THREADED PIPE	SCH 40	SCH 40	FT
1-1/2-6	WELDED PIPE	SCH 10	SCH 10	GG
8	WELDED PIPE	SCH 10	SCH 10	GG
	THREADED FITTINGS	DUCTILE		
	GROOVED FITTINGS	VICTAULIC		

WATER SUPPLY

FOR WHAT	FIRE PUMP ONLY
DATA BY WHO	WFS
WHO W/ WHO	WFS & OWNER
WATER SOURCE	POND
WATER SUPPLY	3000 GPM @ 175 PSI
PUMP RATING	VERTICAL
DRIVE RATING	DIESEL
CONTROLLER	DIESEL
FLOW TO REMAIN	3000 GPM
FLOW TO DISCHARGE	3000 GPM
SUCTION SIZE	10"

0 10' 20' 30' 40' 50'
GRAPHIC SCALE:

SCALE: 1" = 50'-0"
SPKRS THIS SHEET: 0
SPKRS ON JOB: 40
AHJ: COLUMBIA
WFS SALES: EBB
CUSTOMER: STELLAR
PERMIT NO.:

ROBERT L. HINKLE, P.E.
1409 KINGSLEY AVENUE
BUILDING #1C
ORANGE PARK, FL 32073
(904) 502-3358
FLA. REG. # 29302

ROBERT L HINKLE LICENSE No. 29302 07/27/2022 STATE OF FLORIDA PROFESSIONAL ENGINEER
SEAL:

Digitally signed by Robert L Hinkle, P.E.
Contact Info: (904) 502-3358
Date: 2022.07.27 15:22:11-04'00'

This item has been electronically signed and sealed by Robert L. Hinkle, P.E. using a digital signature on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Wiginton FIRE SYSTEMS

SPECIAL NOTE REGARDING M.I.C.:
WIGINTON DOES NOT WARRANT THE WATER SUPPLY TO BE FREE OF ANY CONTAMINANTS (MICROSCOPIC OR OTHERWISE) THAT MAY LEAD TO THE DEVELOPMENT OF MICROBIOLOGICALLY INFLUENCED CORROSION (MIC). OWNER IS ADVISED TO CONTACT THE WATER PURVEYOR TO REVEAL EVIDENCE OF HISTORY OF MIC DEVELOPMENT IN SYSTEMS SUPPLIED BY THE PURVEYOR. WHETHER OR NOT SUCH STUDY IS PERFORMED, WIGINTON DOES NOT WARRANT MATERIALS FROM DETERIORATION CAUSED FROM CORROSIVE CONDITIONS, AND DOES NOT ACCEPT ANY LIABILITY FOR THE EFFECTS OF MIC ON THE DURABILITY OR PERFORMANCE OF THE FIRE PROTECTION SYSTEM (S) PRESENT OR FUTURE. OWNER MUST MAINTAIN THEIR FIRE PROTECTION SYSTEM (S) IN ACCORDANCE WITH NFPA CRITERIA.

NOTIC
IT IS THE RESPONSIBILITOF THE PROPERTY OWNER/ MANAGER TPROVIDE THE REQUIRED MAINTAINENCE AND UPKEEP OF THIS FIRE PROTECTION SSTEM AND RELATED EQUIPMENT ACCORDIN TO THE LATEST EDITION OF NFPA 25 AN ALL GOVERNING CODES AND ORNANCES.

WFS REVIEW

DATE	RELEASED FOR	BY
	AS-BUILT	
	INSTALLATION	
	FABRICATION	
	TRADE PERMIT	
	BLDG. PERMIT	

SYSTEM DEMAND INFORMATION

DESIGN AREA	DENSITY/AREA	NO. OF SPRKS IN REMOTE AREA	GPM REQD	PSI REQD

NODE GPM DOCKED	AT LOCATION

DESIGN CRITERIA

DESIGN AREA	HAZARD	SPACING	AREA/S. HOSE GPM	OUTSIDE HOSE GPM	INSIDE HOSE GPM	INSIDE HOSE DISTANCE

SPRINKLER LEGEND

SYM	QTY	K=	NPT	TEMP °F	MAKE & MODEL	ESCP	SIN	TYPE	FINISH	ESC

NO.	DATE	REVISIONS	BY
0	07/27/2022	ISSUE FOR SUBMITTAL	KBC

DRAWN BY: K. COCHRAN
DATE: 07/27/2022

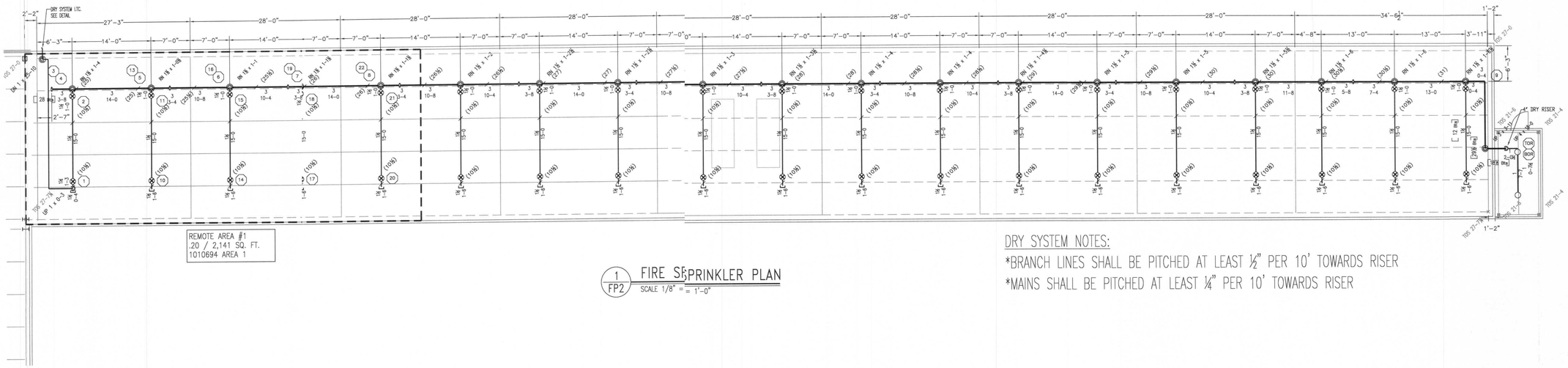
Wiginton Fire Systems
6363 Greenland Road
Jacksonville, FL 32258
Phone 904.262.6107
Fax 904.268.7268

US COLD STORAGE RAILDOCK ADDITION
211 McCLOSKEY AVE.
LAKE CITY, FL. 32055
PROJEC NAME/ADDRESS:

FIRE SPRINKLER SITE PLAN
SHEET TITLE:

1010694
PROJECT NO:

FP 1 OF 2
DRAWING NO.

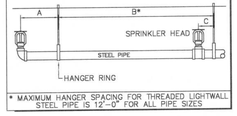


1 FP2 FIRE SPRINKLER PLAN
SCALE 1/8" = 1'-0"

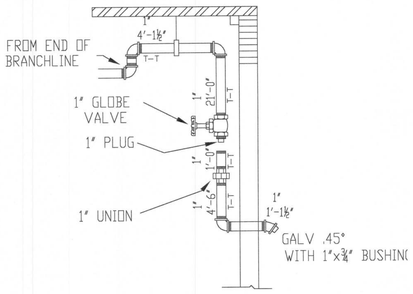
DRY SYSTEM NOTES:
*BRANCH LINES SHALL BE PITCHED AT LEAST ½" PER 10' TOWARDS RISER
*MAINS SHALL BE PITCHED AT LEAST ¼" PER 10' TOWARDS RISER

HANGER LOCATION DETAIL

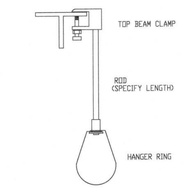
PIPE SIZE	A	B*	C
1"	3'-0" MAX.	12'-0" MAX.	3" MIN.
1 1/4"	4'-0" MAX.	12'-0" MAX.	3" MIN.
1 1/4"-8"	5'-0" MAX.	15'-0" MAX.	3" MIN.



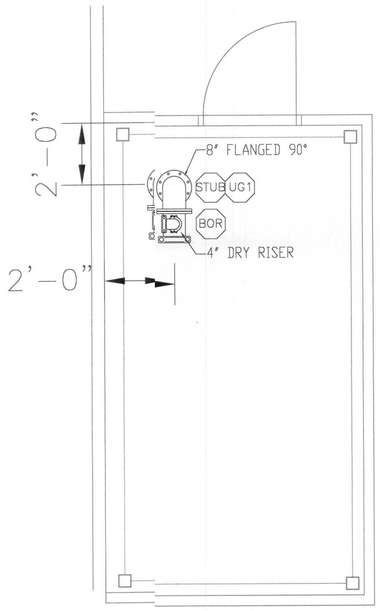
* MAXIMUM HANGER SPACING FOR THREADED LIGHTWALL STEEL PIPE IS 12'-0" FOR ALL PIPE SIZES



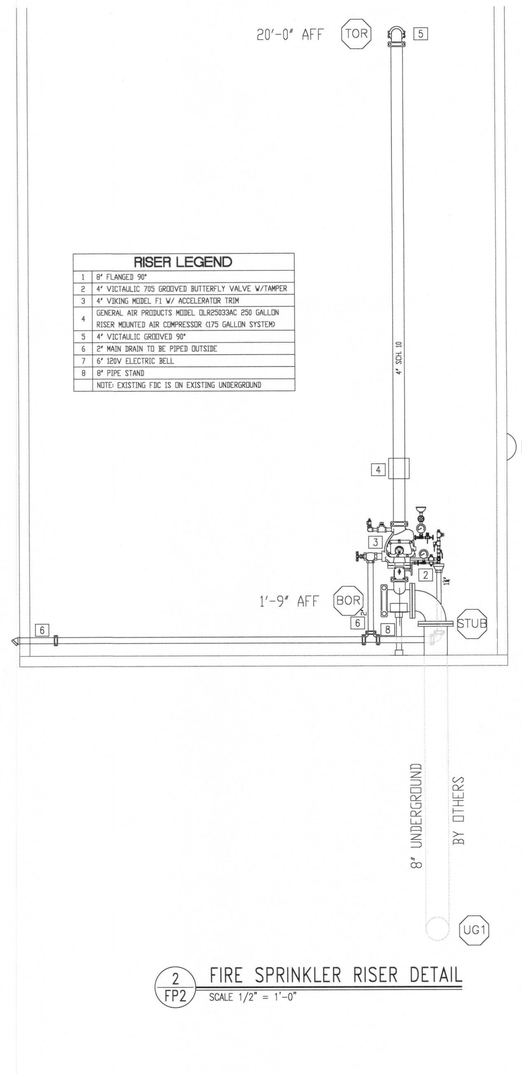
5 FP2 INSPECTORS TEST
N.T.S.



4 FP2 HANGER #01
N.T.S.



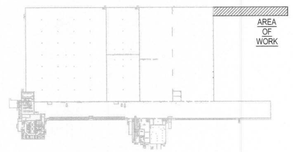
33 FP22 RISER ROOM PLAN
SCALE 1/2" = 1'-0"



RISER LEGEND

1	8" FLANGED 90°
2	4" VICTAULIC 705 GROOVED BUTTERFLY VALVE W/TAMPER
3	4" VIKING MODEL F1 W/ ACCELERATOR TRIM
4	GENERAL AIR PRODUCTS MODEL DLR2503AC 250 GALLON RISER MOUNTED AIR COMPRESSOR (175 GALLON SYSTEMS)
5	4" VICTAULIC GROOVED 90°
6	2" MAIN DRAIN TO BE PIPED OUTSIDE
7	6" 120V ELECTRIC BELL
8	8" PIPE STAND
	NOTE: EXISTING FDC IS ON EXISTING UNDERGROUND

2 FP2 FIRE SPRINKLER RISER DETAIL
SCALE 1/2" = 1'-0"



KEY PLAN
NTS

north

BRANCH OFFICE LOCATIONS:
Diamond, FL 386.257.4060 — Jacksonville, FL 904.262.6107 — Orlando, FL 407.656.6300 — Tampa, FL 813.972.2533 — Atlanta, GA 678.580.0581 — Houston, TX 832.912.4144
Fort Myers, FL 239.210.5808 — Melbourne, FL 321.722.3585 — Gainesville, FL 352.244.0050 — W Palm Bch, FL 561.682.1321

MATERIALS & ABBREVIATIONS

WATER SUPPLY						
CONTRACT						
DATE OF TEST						
W.P. PSI						
MAX PSI						
DESIGN PSI						
F.F.# FLOWED						
TESTED BY						
CONSTRUCTION TYPE	3000 GPM					
ADDITIONAL INFO	1500 GPM					
CAMP TYPE	VERTICAL					
DESCRIPTION	POND					
MAIN SIZE						
TANK TYPE						
LOCATION	SPEC	TYPE	SCH/CLASS	JOINT	MFG	
ABOVE GROUND	TYP	THREADED PIPE	SCH 40	THRD	GG	
UNDERGROUND	6"	GROOVED PIPE	SCH 40	GRVD	GG	
	1-1/4"-8"	WELDED PIPE	SCH 10	WELD	GG	
	ALL					
		THREADED FITTINGS				DUCTILE
		GROOVED FITTINGS				VICTAULIC

GRAPHIC SCALE: 0 4' 8'

SCALE: 1/8" = 1'-0"
SPKRS THIS SHEET: 38
SPKRS ON JOB: 40
AHJ: COLUMBIA
WFS SALES: EBB
CUSTOMER: STELLAR
PERMIT NO:

ROBERT L. HINKLE, P.E.
1409 KINGSLEY AVENUE
BUILDING #14C
ORANGE PARK, FL. 32073
(904) 502-3358
FLA. REG. # 39302

SEAL:

Wiginton FIRE SYSTEMS

SPECIAL NOTE REGARDING M.I.C.:
WIGINTON DOES NOT WARRANT THE WATER SUPPLY TO BE FREE OF ANY CONTAMINANTS (MICROSCOPIC OR OTHERWISE) THAT MAY LEAD TO THE DEVELOPMENT OF MICROBIOLOGICALLY INFLUENCED CORROSION (MIC). OWNER IS ADVISED TO CONTACT THE WATER PURVEYOR TO REVEAL EVIDENCE OF HISTORY OF MIC DEVELOPMENT IN SYSTEMS SUPPLIED BY THE PURVEYOR. WHETHER OR NOT SUCH STUDY IS PERFORMED, WIGINTON DOES NOT WARRANT MATERIALS FROM DETERIORATION CAUSED FROM CORROSIVE CONDITIONS, AND DOES NOT ACCEPT ANY LIABILITY FOR THE EFFECTS OF MIC ON THE DURABILITY OR PERFORMANCE OF THE FIRE PROTECTION SYSTEM (S) PRESENT OR FUTURE. OWNER MUST MAINTAIN THEIR FIRE PROTECTION SYSTEM (S) IN ACCORDANCE WITH NFPA CRITERIA.

NOTIC
IT IS THE RESPONSIBILITOF THE PROPERTY OWNER/ MANAGER 1 PROVIDE THE REQUIRED MAINTAINEN AND UPKEEP OF THIS FIRE PROTECTION SITEM AND RELATED EQUIPMENT ACCORDIN TO THE LATEST EDITION OF NFPA 25 AN ALL GOVERNING CODES AND ORNANCES.

WFS REVIEW

	AS-BUILT	
	INSTALLATION	
	FABRICATION	
	TRADE PERMIT	
	BLDG. PERMIT	
DATE	RELEASED FOR	BY

SYSTEM DEMAND INFORMATION

DESIGN AREA	DENSITY/AREA	NO. OF SPKRS IN REMOTE AREA	GPM (HOSE)	PSI (HOSE)
ONE	.20 / 2141 SQ FT	10	802.37	124.096

FIRE PUMP GPM DEMAND	AT LOCATION
250	PUMP

DESIGN CRITERIA

DESIGN AREA	HAZARD	SPACING	MIN DESIGN AREA (SQ FT)	MAX DESIGN AREA (SQ FT)	ADDITIONAL DESIGN REQUIREMENTS
ONE	ORDINARY II	256 SQ FT MAX	0	250	

SPRINKLER LEGEND

ITEM	QTY	K-	NPT	TEMP	MANUFACTURER & MODEL	FIGURE	SIN	TYPE	FINISH	ESCUTCHEON
⊗	38	14.0	3/4	200°	TYCO EC14 (16'x16')	SR	TY6137	EC	BRASS	N/A
○	2	5.6	1/2	200°	TYCO TY-B	SR	TY3151	SSU	BRASS	N/A

NO.	DATE	REVISIONS	BY
0	07/27/2022	ISSUE FOR SUBMITTAL	KBC

Wiginton Fire Systems
6363 Greenland Road
Jacksonville, FL 32258
Phone 904.262.6107
Fax 904.268.7268

DRAWN BY: K. COCHRAN
DATE: 07/27/2022

US COLD STORAGE RAILDOCK ADDITION
211 McCLOSKEY AVE.
LAKE CITY, FL. 32055
PROJEC NAME/ADDRESS:

FIRE SPRINKLER PLAN
SHEET TITLE:

1010694
PROJECT NO:

FP 2 OF 2
DRAWING NO:

MAYO FERTILIZER

FORMERLY CSX TRANSPORTATION RAILROAD
(FORMERLY SEABOARD COASTLINE RAILROAD)

RAILROAD CROSSING GUARD

RAILROAD CONTROL CABINET

RAILROAD CROSSING SIGN

METER POST SP 689

RAILROAD

DOWNSPOUTS PIPED TO BOTTOM OF SWALE (TYP. FOR NORTH ELEVATION

18" STORM DRAIN (ROOF DRAINS) INV. ELEV. = 196.25

CONNECT TO EXISTING DRIVEWAY (DIRT)

FIRE HYDRANT

BUMP POST END TRACK

EXISTING 6' CHAINLINK FENCE

CL PROPOSED RAILROAD TRACK T/R=200.33'

12' MAINTENANCE DRIVEWAY (GRAVEL)

EXISTING 6' CHAINLINK FENCE

EXISTING STORM PIPES

CENTER LINE PROPOSED TRACK

TO BALDWIN

N 82°57'52" E 1217.37' (M)
N 82°58'21" E 1220.74' (D)

LB6685

15' REAR SETBACK

BENCHMARK #1
RAILROAD SPIKE & WASHER
ELEVATION = 201.32'

EAST R/W

PROPOSED BUILDING
FF = 204.33

PROPOSED 8X15 FIRE RISER ROOM
FF = 204.00

US COLD STORAGE
PARCEL "C"
3.60 ACRE +/-

EXISTING BUILDING
180,628 S.F.
F.F. = 204.33
SUBGRADE = 202.91

EXISTING BUILDING
F.F. = 204.33
SUBGRADE = 202.91

EAST LINE OF W 1/2 OF NW 1/4 OF NE 1/4

12' MAINTENANCE DRIVEWAY (GRAVEL)

CAMPUS PLACE

EASY TERRACE

MICHAEL PLACE

BERRY PLACE

SEMESTER PLACE

CULVERT PIPING & MITERED ENDS

INV. = 194.50 (36")

EXISTING 5' SIDEWALK

LOCKER ROOMS
F.F. = 204.33

EXISTING DOCK
F.F. = 204.33
SUBGRADE = 203.75

TRUCK DOCK
F.F. = 204.33
SUBGRADE = 203.75

PROPOSED BOLLARD PROTECTED PIV

PROPOSED SPRINKLER RISER

EXISTING SEEDING AREA (TYP.)

PROPOSED FIRE HYDRANT

FENCE CORNER
0.5'N & 0.2'E OF CM

STILL ROAD

N 03°35'26" W 1041.72' (M)
N 03°48'36" W 1041.57' (D)

EXISTING 6" 18" RPZ AND BACKFLOW PREVENTOR ASSEMBLY

EXISTING WATER SERVICE CONNECTION

EXISTING PVC PIPE

OFFICE
F.F. = 204.33

EXISTING BOLLARD PROTECTED PIV

EXISTING CONCRETE PAVEMENT

MACH./ELE. EC. ROOM
F.F. = 204.33

TRANSFORMER PAD (SEE E ELECTRICAL)

DUMPSTER

RAMP

PROPOSED CONCRETE PAVEMENT

9 TRAILER SPACES

PLUG AND VALVE

CONNECT PROPOSED 8" FIRE LINE TO EXISTING

BLOW-OFF VALVE

PROPOSED 8" GATE VALVE

EXISTING FIRE HYDRANT

MAIN ENTRANCE WITH SWING GATES

INV. = 194.50 (36")
EXISTING 12" WATER MAIN

CULVERT PIPING & MITERED ENDS

INVERT ELEV. = 194.00

EXISTING WET STORMWATER TREATMENT/ DETENTION POND

INVERT ELEV. = 193.50
EXISTING SANITARY LIFT STATION
RIM ELEV. = 199.10
INV. (E) = 191.20 (8")
INV. (W) = 195.27 (4"FM)

(32) PHASE I TRUCK STALLS

(6) 9' X 18' AUTO PARKING

WIRE LOCATOR FOR ALL PUTLINES

SANITARY MANHOLE #2
RIM ELEV. = 199.36'
INV. (N) = 194.43 (6")
INV. (W) = 193.70 (8")
INV. (E) = 193.80 (8")

SANITARY MANHOLE #3
RIM ELEV. = 199.20
INV. (N) = 194.75 (8")
INV. (W) = 194.17 (8")
INV. (E) = 194.27 (8")

SANITARY MANHOLE #4
RIM ELEV. = 199.20
INV. (W) = 195.66 (8")
INV. (E) = 195.76 (8") PLUG

15 TRAILER SPACES

5" STORTZ FIRE DEPARTMENT CONNECTION WITH PROTECTIVE BOLLARDS

LOW PRESSURE FIRE HYDRANT WITH PROTECTIVE BOLLARDS

FENCE CORNER
0.1'S OF CM

E 1/2 OF W 1/2 OF NE 1/4

CULVERT PIPING & MITERED ENDS

INVERT ELEV. = 193.00

LANDSCAPE IRRIGATION & LOW LEVEL FLOAT SWITCH

PUMP HOUSE

LEON (32)

EXISTING OUTLET STRUCTURE #1

EXISTING OUTLET STRUCTURE #2

FENCE CORNER
0.1'N & 0.1'E OF CM

S 89°05'28" W 36.19' (M)
N 88°37'49" W 35.98' (D)

184' FIRE PROTECTION POND AREA
50-YR DROUGHT ELEV. = 190.08
SUCTION PIPE INV. = = 185.00
BOTTOM OF POND = = 184.00
VOLUME = 80,000 C.F.

EXISTING WET STORMWATER TREATMENT/ DETENTION POND

EXISTING RIPRAP PROTECTION

LANDSCAPE BY EVERGREEN

S 01°55'08" W 410.04' (M)
S 01°55'29" W 411.30' (D)

FORCEMAIN IS A MINIMUM OF 3' FROM BOTTOM OF EXISTING DITCH

LANDSCAPE

RAILROAD SPIKE
CITY ELEVATION = 201.63'
P. = 60 PSI
S. = 28 PSI AT 914 GPM

START HDPE 4' BEYOND PAVEMENT AND SIGNAGE

DIRECTIONAL BORE UNDER US-90. 4" HDPE FORCEM. PER DOT STANDARDS. MINIMUM COVER IS 5'-0" MIN.

NO ID (BROKEN)

N 00°39'35" W 10.00' (M)
N 00°38'26" W 10.00' (D)

S 89°20'25" W 125.75' (M)
S 89°21'39" W 125.52' (D)

S 00°39'35" E 10.00' (M)
S 00°38'26" E 10.00' (D)

S 89°20'25" W 600.53' (M)
S 89°21'39" W 600.17' (D)

S 89°16'37" W 341.23' (M)
S 89°17'21" W 341.45' (D)

U.S. HIGHWAY NO. 90

GRASS MEDIAN

175' FDOT RIGHT OF WAY

29.21 AC. +/-

EXISTING INV. = 196.50 (4"FM)

END HDPE 4' BEYOND PAVEMENT

FORCEMAIN IS A MINIMUM OF 3' FROM BOTTOM OF EXISTING DITCH

SANITARY MANHOLE TOP = 198.32 INV. (W)=196.48

INLET

36" RCP

SIGNAL WIRE

CONCRETE SIGNAL POLE

SE CORNER OF NW 1/4 OF SW 1/4 OF NE 1/4

24" CMP W/ MITERS

18" CMP W/ MITERS

CURB

HYDRANT OPERATING NUT
HOSE NOZZLE
24" SQUARE OR ROUND, 6" THICK REINFORCED CONCRETE SHEAR PAD. SEE NOTE 2
4 - #4 AT 9" C/C AROUND
COMPACTED BACKFILL
SEE NOTE 3
AS REQ'D.
PUMPER NOZZLE FACING STREET
VALVE COLLAR SEE NOTE 4
18" MIN.
VARIES
12" MIN.
M.J HYDRANT ANCHORING TEE
6" BEDDING ROCK
M.J ANCHORING COUPLING
RESILIENT SEAT GATE VALVE AND BOX (SEE DETAIL)

1. FIRE HYDRANT SHALL BE SUPPLIED WITHOUT A WEEP HOLE, OR WITH A PERMANENTLY PLUGGED WEEP HOLE.
2. THE DEVELOPER MAY INSTALL THE SHEAR PAD RECESSED UP TO 4 INCHES BELOW FINISHED GRADE AND SOD THE RECESSED SECTION.
3. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR PAD SHALL BE A 0" MINIMUM.
4. VALVE COLLAR SHALL BE 18"X18"X8" CONCRETE COLLAR W/4 - #4 BARS

TARGET PLATE - SET PARALLEL TO BUILDING WALL
OPERATING HANDLE
INDICATOR POST
FINISH GRADE
MECH. JOINT GATE VALVE
36" MIN.
SEE PLANS FOR PIPE DIAMETER

POST INDICATOR VALVE

UNI-FLANGE OR D.I. PIPE WITH FLANGE IN A PLUMB AND LEVEL POSITION LOCATED 12" ABOVE FINISHED FLOOR ELEVATION
INTERIOR
EXTERIOR
FLANGE
FINISHED FLOOR ELEV.
THREADED ROD WITH CORROSION PROTECTION PER NFPA 24
DUCTILE IRON PIPE
RESTRAINED JOINT - DUCTILE IRON RETAINER GLAND (MEGA-LUG OR APPROVED EQUAL)
D.I. M.J. ELBOW WITH DOG EARS
THRUST BLOCK
12"
SITE FIRE LINE (MATERIAL VARIES)
FINISH GRADE
5'
RESTRAINED JOINT
DUCTILE IRON PIPE
FLANGED D. I. FITTING

FIRE RISER

NOTE: ALL PIPE SHALL BE LAID, RESTRAINED AND TESTED PER NFPA 24.

SIZE OF PIPE, IN.	6	8	10	12	14
CONC. REQ'D.,CU,FT.	4.5	8	12	24	32
DIMENSION "X", IN.	18	18	18	24	24
DIMENSION "Y", IN.	24	30	42	48	54

NOTE: CONCRETE THRUST BLOCK SHALL BEAR AGAINST UNDISTURBED EARTH.

N

0 30 60 120
SCALE 1" = 60'

stellar
2900 HARTLEY ROAD, SUITE 101, JACKSONVILLE, FL 32257 (904) 220-2900
WWW.STELLAR.NET
FLORIDA ARCHITECTURE LICENSE NO. AA-C001112
FLORIDA ENGINEERING LICENSE NO. 30430

James R. Hale 7/18/22

UNITED STATES COLD STORAGE, INC
RAIL DOCK ADDITION
LAKE CITY, FLORIDA

RAILROAD DOCK PLAN

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REV.	DATE:	BY	CONSTRUCTION ISSUE DESCRIPTION
1	07/18/2022	JRH	

JOB NO. 07329
DRAWN: JRH
CHECKED: JRH
SCALE: 1"=60'

C1090
DRAWING NO.

Filename: C:\jhale\PROJECTS\USCS Lake City FL\042242C109.dwg Last Saved By: JHALE Date: 7/8/2022 3:48:16 PM Plotted: 7/14/2022 4:02:28 PM

CSX TRANSPORTATION RAILROAD
(FORMERLY SEABOARD COASTLINE RAILROAD)

RAILROAD

OWNSPOUTS PIPED
BOTTOM OF
VALE (TYP. FOR
ORTH ELEVATION

32°57'52" E 1217.37' (M)
32°58'21" E 1220.74' (D)

18" ST

18' STORM DRAIN (ROOF DRAINS)
INV. ELEV. = 196.25

FIRE HYDRANT

CONNECT TO EXISTING DRIVEWAY (DIRT)

BUMP POST
END TRACK

EXISTING 6'
CHAINLINK
FENCE

CL PROPOSED RAILROAD TRACK T/R=200.33'

12' MAINTENANCE DRIVEWAY (GRAVEL)

EXISTING 6'
CHAINLINK
FENCE

EXISTING STORM PIPES

50.00' (C)

LB6685

C.O.

C.O. INV.=196.50

18"ST

200.33

258'

PROPOSED BUILDING
FF = 204.33

PROPOSED 8X15 FIRE RISER ROOM
FF = 200.50

US COLD STORAGE
PARCEL "C"
3.60 ACRE +/-

EXISTING
BUILDING

F.F. = 204.33
SUBGRADE = 202.91

391'

TING
DING
28 S.F.
204.33
E = 202.91

3336.11'

EAST LINE OF W 1/2
OF NW 1/4 OF NE 1/4

12' MAINTENANCE DRIVEWAY (GRAVEL)

UNLIMITED AREA SETBACK

60' SIDE SETBACK

N/S W/D

197.75

766.76' (M)
766.03' (D)

FENCE CORNER
0.5'N & 0.2'E OF CM

PROPOSED
BOLLARD
PROTECTED
PIV

PROPOSED
SPRINKLER
RISER

EXISTING SEEDING
AREA (TYP.)

PROPOSED FIRE HYDRANT

112'

STING DOCK
F. = 204.33
GRADE = 203.75

TRUCK DOCK
F.F. = 204.33
SUBGRADE = 203.75

TRANSFORMER
PAD (SEE ELECTRICAL)

RAMP

DUMPER

MACH./ELEC.
ROOM
F.F. = 201.33

PAVEMENT
SLOPE=1%

PROPOSED
CONCRETE
PAVEMENT

9 TRAILER SPACES

PLUG AND VALVE

CONNECT PROPOSED
8" FIRE LINE TO EXISTING

BLOW-OFF VALVE

CHIPLEY (20)

EXISTING
CLEANOUT
INV. = 194.79

INV.=199.00

INV.=195.00

(6) 9' X 18'
AUTO PARKING

WIRE LOCATOR
FOR ALL PVC LINES

15 TRAILER SPACES

PROPOSED 8" GATE VALVE

EXISTING FIRE HYDRANT

SANITARY MANHOLE #3
RIM ELEV. = 199.20
INV. (N) = 194.76 (8")
INV. (W) = 194.17 (8")
INV. (E) = 194.27 (8")

SANITARY MANHOLE #4
RIM ELEV. = 199.20
INV. (W) = 195.66 (8")
INV. (E) = 195.76 (8") PLUG

SANITARY MANHOLE #2
RIM ELEV. = 199.20

FENCE CORNER
0.1'S OF CM

S 01°5'50" W
S 01°5'33" W

2379'

180'

50'

160'

R20'

DRIVE

N 1/2 OF NE 1/4

0 15 30 60
SCALE 1" = 30'

stellar
OPERATING AS THE STELLAR GROUP
2900 WATLEY ROAD, JACKSONVILLE, FL 32207 (904) 350-2900
FLORIDA ARCHITECTURAL LICENSE NO. AA-C000112
FLORIDA ENGINEERING LICENSE NO. 30301

7/18/22

UNITED STATES COLD STORAGE, INC
RAIL DOCK ADDITION
LAKE CITY, FLORIDA

RAILROAD
DOCK
PLAN
(ENLARGED)

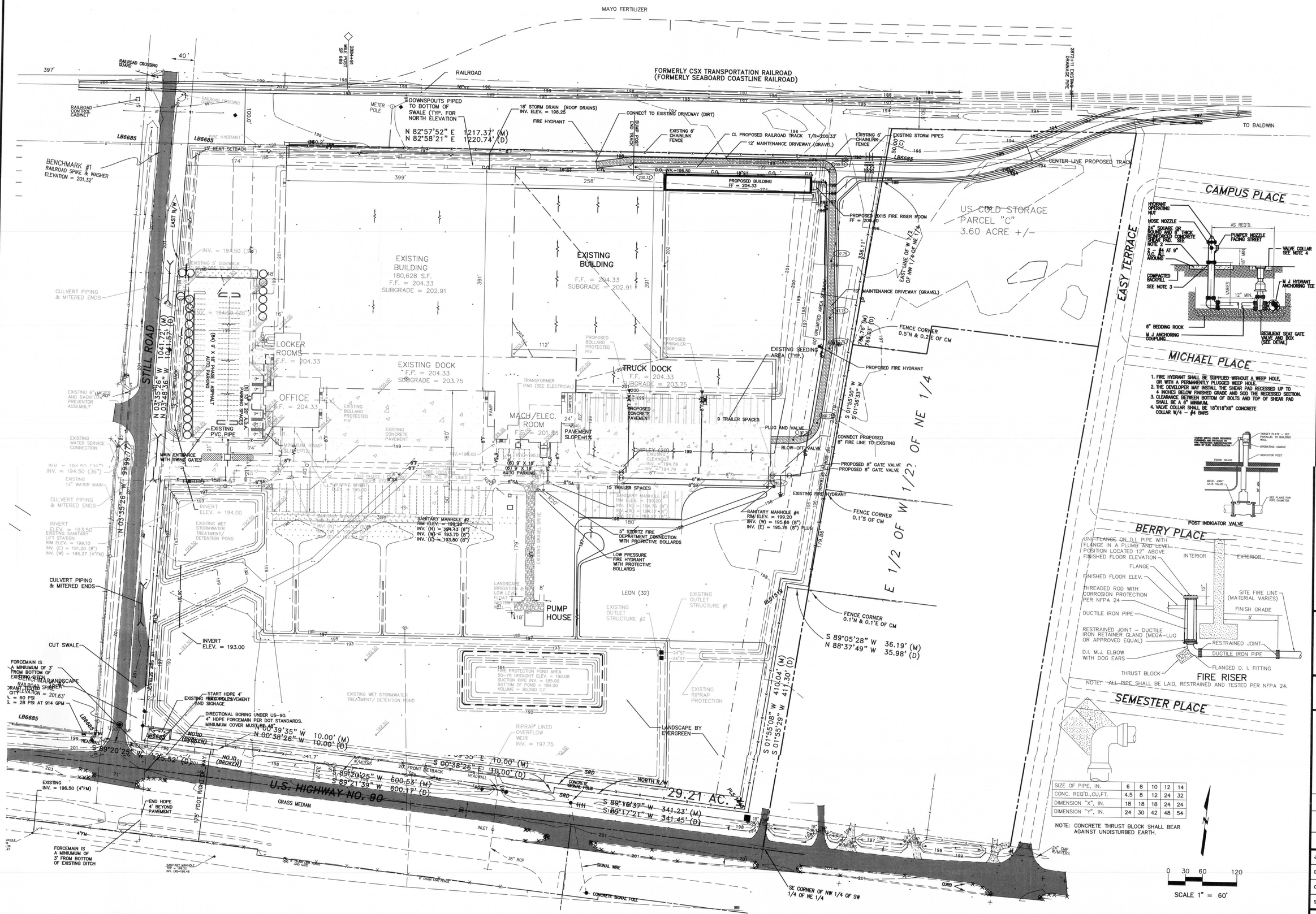
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REV.	DATE	BY	DESCRIPTION
1	07/19/2022	JRH	CONSTRUCTION ISSUE

JOB NO. 07329
DRAWN: JRH
CHECKED: JRH
SCALE: 1"=30'

C1091
DRAWING NO.

Filename: C:\Jhole\PROJECTS\USCS Lake City FL\04224C1091.dwg Last Saved By: JHALE Date: 7/4/2022 4:01:26 PM Plotted: 7/14/2022 4:07:44 PM



stellar
OPERATING AS THE STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL. 32257 (904) 350-2600
FLORIDA ARCHITECTURAL LICENSE NO. AA-C000112
FLORIDA ENGINEERING LICENSE NO. 8930

7/18/22

UNITED STATES COLD STORAGE, INC
RAIL DOCK ADDITION
LAKE CITY, FLORIDA

RAILROAD DOCK PLAN

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REV.	DATE	BY	DESCRIPTION
1	07/18/2022	JRH	CONSTRUCTION ISSUE

JOB NO. 07329
DRAWN: JRH
CHECKED: JRH
SCALE: 1"=60'

C1090
DRAWING NO.

Filename: C:\Jrahe\PROJECTS\USCS Lake City FL\042242C10.dwg Last Saved By: JHALE Date: 7/8/2022 3:48:16 PM Plotted: 7/14/2022 4:02:28 PM

CSX TRANSPORTATION RAILROAD
(FORMERLY SEABOARD COASTLINE RAILROAD)

RAILROAD

)WNSPOUTS PIPED
BOTTOM OF
VALE (TYP. FOR
ORTH ELEVATION

32°57'52" E 1217.37' (M)
32°58'21" E 1220.74' (D)

18' STORM DRAIN (ROOF DRAINS)
INV. ELEV. = 196.25

FIRE HYDRANT

CONNECT TO EXISTING DRIVEWAY (DIRT)

BUMP POST
END TRACK

EXISTING 6'
CHAINLINK
FENCE

CL PROPOSED RAILROAD TRACK T/R=200.33'

12' MAINTENANCE DRIVEWAY (GRAVEL)

EXISTING 6'
CHAINLINK
FENCE

EXISTING STORM PIPES

50.00' (C)

LB6685

CENT

C.O. INV.=196.50

PROPOSED BUILDING
FF = 204.33

258'

PROPOSED 8X15 FIRE RISER ROOM
FF = 200.50

US COLD STORAGE
PARCEL "C"
3.60 ACRE +/-

EXISTING
BUILDING
F.F. = 204.33
SUBGRADE = 202.91

336.11'

EAST LINE OF W 1/2
OF NW 1/4 OF NE 1/4

12' MAINTENANCE DRIVEWAY (GRAVEL)

60' UNLIMITED AREA SETBACK

765.76' (M)
766.03' (D)

FENCE CORNER
0.5'N & 0.2'E OF CM

EXISTING SEEDING
AREA (TYP.)

PROPOSED FIRE HYDRANT

S 01°55'50" W
S 01°56'33" W

229.79'

W 1/2 OF NE 1/4

CONNECT PROPOSED
8" FIRE LINE TO EXISTING

BLOW-OFF VALVE

PROPOSED 8" GATE VALVE

15' SIDE SETBACK

EXISTING FIRE HYDRANT

FENCE CORNER
0.1'S OF CM

SANITARY MANHOLE #4
RIM ELEV. = 199.20
INV. (W) = 195.66 (8")
INV. (E) = 195.76 (8") PLUG

TRUCK DOCK
F.F. = 204.33
SUBGRADE = 203.75

TRANSFORMER
PAD (SEE ELECTRICAL)

PROPOSED
CONCRETE
PAVEMENT

9 TRAILER SPACES

PAVEMENT
SLOPE=1%

MACH./ELEC.
ROOM
F.F. = 201.33

CHIPLEY (20)

EXISTING
CLEANOUT
INV. = 194.79

15 TRAILER SPACES

(6) 9' X 18'
AUTO PARKING

WIRE LOCATOR
FOR ALL PVC LINES

SANITARY MANHOLE #3
RIM ELEV. = 199.20
INV. (N) = 194.76 (8")
INV. (W) = 194.17 (8")
INV. (E) = 194.27 (8")

SANITARY MANHOLE #2
RIM ELEV. = 199.20

PROPOSED
BOLLARD
PROTECTED
PIV

PROPOSED
SPRINKLER
RISER

RAMP

DUMPSTER

DRIVE

STING DOCK
F. = 204.33
GRADE = 203.75

TING
DING
28 S.F.
204.33
E = 202.91

0 15 30 60
SCALE 1" = 30'

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stellar
OPERATING AS THE STELLAR GROUP
3900 HARTLEY ROAD, JACKSONVILLE, FL 32257 (904) 590-0900
FLORIDA ARCHITECTURAL LICENSE NO. AA-C000112
FLORIDA ENGINEERING LICENSE NO. 1830

7/18/22

UNITED STATE'S COLD STORAGE, INC
RAIL DOCK ADDITION
LAKE CITY, FLORIDA

RAILROAD
DOCK
PLAN
(ENLARGED)

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REV.	DATE	BY	DESCRIPTION
1	07/18/2022	JRH	CONSTRUCTION ISSUE

JOB NO.	07329
DRAWN:	JRH
CHECKED:	JRH
SCALE:	1"=30'

C1091
DRAWING NO.

UNITED STATES COLD STORAGE, INC.

211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

stellar
TAKING SOLUTIONS FURTHER

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OWNER

UNITED STATES COLD STORAGE

PROJECT INFORMATION

UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

stellar
TAKING SOLUTIONS FURTHER

OPERATING AS:
THE STELLAR GROUP
2900 HARTLEY ROAD, JACKSONVILLE, FL 32257 (904) 260-2900
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FLORIDA ARCHITECTURAL LICENSE NO. AR0013370
FLORIDA ENGINEERING LICENSE NO. CA5930

SEAL

James F. Mateiski 7/18/22

James F. Mateiski FL License #63121

CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED:	07/18/2022
DESIGNED BY:	PEJ
REVIEWED BY:	PEJ
A/EOR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

COVER SHEET

SHEET ID

G0001

PRINT IN COLOR

CONSTRUCTION ISSUE

SHEET INDEX

SHEET NUMBER	SHEET NAME	SHEET ISSUE DATE	SHEET RSIONS		
			REVISION	DATE	DESCRIPTION
01. GENERAL					
G0001	COVER SHEET	07/18/2022	1	07/18/2022	CONSTRUCTION ISSUE
G0002	SHEET INDEX	07/18/2022	1	07/18/2022	CONSTRUCTION ISSUE
06. STRUCTURAL					
S0001	STRUCTURAL GENERAL NOTES & INSPECTION SCHEDULE	07/18/2022	1	07/18/2022	CONSTRUCTION ISSUE
S1001	RISER ROOM PLANS AND STRUCTURAL ELEVATIONS	07/18/2022	1	07/18/2022	CONSTRUCTION ISSUE
S1101	PLANS, ELEVATIONS AND SECTION	07/18/2022	1	07/18/2022	CONSTRUCTION ISSUE
S4001	LANDING AND STAIR PLANS AND SECTIONS	07/18/2022	1	07/18/2022	CONSTRUCTION ISSUE
S5001	STRUCTURAL DETAILS	07/18/2022	1	07/18/2022	CONSTRUCTION ISSUE
S5101	IMP DETAILS	07/18/2022	1	07/18/2022	CONSTRUCTION ISSUE

OWNER

UNITED STATES COLD STORAGE

PROJECT INFORMATION

UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED: 07/18/2022
DESIGNED BY: PEJ
REVIEWED BY: PEJ
A/E/OR: JFM
PROJECT NUMBER: 07329

SHEET TITLE

SHEET INDEX

SHEET ID

G0002

CONSTRUCTION ISSUE

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GENERAL NOTE

THE BUILDER IS REMINDED THAT WORK ON 'L BUILDING REQUIRES WORKING WITHIN/AROUND AN EXISTING STRUCTURE. EVERY EFFORT HAS IN MADE TO IDENTIFY DISCREPANCIES AND ENSURE THAT THE DETAILS ARE DEPICTED CORRECTTHESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION AVAILABLE HOWEVER SINCE 'I CONSTRUCTION IS WITHIN/ADJACENT TO AN EXISTING STRUCTURE, THE BUILDER CAN EXPECT ANDOULD PLAN ON ENCOUNTERING VARIANCES AND DEVIATIONS BETWEEN THE INFORMATION FOD IN THESE DRAWINGS AND THE EXISTING SITE CONDITIONS. ACTUAL FIELD CONDITIONS MAEQUIRE MODIFICATIONS IN CONSTRUCTION DETAILS AND QUANTITIES. THE BUILDER IS RESPONSE TO FIELD VERIFY ALL DETAILS INCLUDING GEOMETRY AND ELEVATIONS PRIOR TO THE INSTALLATIOF ANY MATERIAL.

REINFORCED CONCREE NOTES

1. ALL CONCRETE WORK SHALL CONFORM 'ICI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. ALL CONCRETE PLACED SHALL BE VIBRATBY MECHANICAL VIBRATORS.
3. COMPLETE FABRICATION AND PLACING DWINGS FOR REINFORCING STEEL SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION MAY BB UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.
4. LAP SPLICES FOR REINFORCING STEEL SIL BE IN ACCORDANCE WITH ACI 318. SPLICES SHALL BE AS CALLED FOR IN THE LATEST EDITION OHE CRSI "MANUAL OF STANDARD PRACTICE".
5. REINFORCING OF ALL CONCRETE MEMBEGHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER:

MEMBERS	CR (INCHES)
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 BARS THROUGH #18 BARS	2
#5 BARS OR SMALLER	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:	
SLAB AND WALLS:	
#14 AND #18 BARS	1 1/2
#11 BARS AND SMALLER	3/4

6. THE CONTRACTOR SHALL PROVIDE ADEQIE SUPPORT FOR REINFORCING TO ENSURE THE REINFORCEMENT REMAINS IN ITS INTENDPOSITION WHEN CASTING CONCRETE. THE SUPPORT SHALL BE CONSTRUCTED OF A TYPE THA'LL NOT DAMAGE THE VAPOR BARRIER BELOW.
7. SPLICE WELDING OF REINFORCING STEEL ALL BE DONE IN STRICT ACCORDANCE WITH THE AMERICAN WELDING SOCIETY "REINFORCISTEEL WELDING CODE". PREHEATING OF THE REINFORCING SHALL BE BASED ON THE CION EQUIVALENCY DETERMINED FROM REINFORCING MILL REPORTS. GRADE 40 REINFORCING S,L BE WELDED WITH E90XX LOW HYDROGEN ELECTRODES.
8. MANUAL WELDING OF REINFORCING BARSR EMBEDS IS NOT ALLOWED.
9. SAWN JOINTS IN SLABS-ON-GRADE SHALL 'LL BE CUT AS SOON AS POSSIBLE AFTER THE CONCRETE HARDENS. JOINTS CAN BE CUT WITH A POR BLADE WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN CAST AND FINISHED. JOINTS MUST BE CUT SOON AS THE CONCRETE IS FIRM ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE. THE CORETE IS HARD ENOUGH WHEN THE BLADE DOES NOT DISLODGE ANY AGGREGATE AND WHEN TICDGES OF THE CUT DO NOT RAVEL.
10. CONTROL JOINTS IN ALL FOUNDATION ANCTAINING WALLS SHALL BE PLACED NOT MORE THAN 15'-0" APART AND SHALL BE 3/4" V-CHAMFERED GOTH SIDES, UNLESS NOTED OTHERWISE. EXPANSION JOINTS SHALL BE LOCATED AS NOTED ON ; PLANS. SEE TYP. DETAIL SHEET.
11. CHAMFER EXPOSED CONCRETE EDGES 3/4
12. CONCRETE WALLS SHALL BE REINFORCEDOUND ALL OPENINGS WITH 2-#5 BARS ON ALL SIDES AND EXTENDED 2'-0" BEYOND OPENING UNLESSTED OTHERWISE.
13. THE LONGITUDINAL REINFORCING STEEL IN D BEAMS, WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYP. DETAIL SHEE
14. THE CONCRETE MIX DESIGNS ARE THE REINSIBILITY OF THE SUPPLIER. MIX DESIGNS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEERIOR TO CONCRETE PLACEMENT.
15. A MIX DESIGN SHALL BE PROVIDED FOR E/ TYPE OF CONCRETE. THE MIX DESIGNS SHALL CLEARLY INDICATE ALL MATERIALS USED IN THE MIX E TYPE (USE) OF THE CONCRETE MIX, AND ALL MIX BACK-UP, DATA, TO INCLUDE BUT NOT LIMI' TO, THE COMPRESSIVE STRENGTH BREAK DATA FOR EACH MIX BEING SUBMITTED, FINE AND COJE AGGREGATE GRADATIONS, AND ALL ADMIXTURES.
16. THE USE OF FLY ASH IS PROHIBITED IN ANYPOSED MEMBERS. FLY ASH SHALL BE ALLOWED IN FOUNDATIONS AND SUB-SLABS UPON ENGER'S APPROVAL. CONCRETE MIX DESIGNS SHALL BE SUBMITTED AND APPROVED PRIOR TO CASG ANY CONCRETE.
17. CEMENT SHALL BE PORTLAND CEMENT CCORMING TO ASTM C150, TYPE 1. MILL CERTIFICATE SHALL SHOW TOTAL ALKALINE CONTENT NOT EXCDING 0.6%.
18. CONCRETE SHALL HAVE A MAXIMUM SLUM4±1" UNLESS APPROVED BY ENGINEER.
19. THE MIX SHALL HAVE A MAXIMUM WATER/CENT RATIO OF 0.50. TROWEL FINISHED INTERIOR SLABS SUBJECTED TO VEHICULAR TRAFFIC SHALLVE A MAXIMUM WATER/CEMENT RATIO OF 0.53.
20. ALL INTERIOR TROWEL FINISHED SLABS, SIECTED TO VEHICULAR TRAFFIC, SHALL HAVE A MAXIMUM ENTRAPPED AIR CONTENT OF 3%.
21. WATER SHALL BE POTABLE, CLEAN AND FFROM OILS, ACIDS, SALTS AND OTHER DELETERIOUS SUBSTANCES.
22. ALL EXPOSED EXTERIOR CONCRETE, SUBJIED TO FREEZE/THAW CYCLES, SHALL ACHIEVE AN AIR CONTENT OF 6% ± 1.5.
23. WATER REDUCING AGENTS SHALL CONFOI'O ASTM C494.1
24. AIR ENTRAINING AGENTS SHALL CONFORM ASTM C260.
25. AGGREGATE SHALL CONFORM TO ASTM C2OARSE AGGREGATE SHALL BE CRUSHED ROCK OR CRUSHED GRAVEL AND SHALL BE GRADED 3M 1 1/2" TO A NO. 4 SIEVE FOR WALLS AND SLABS. A LARGER AGGREGATE, GRADED FROM 2" TO. 4 SIEVE FOR FOUNDATIONS IS ACCEPTABLE. COMBINED AGGREGATE GRADATION SHALL BE 8% TO RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND ABOVE THE NO. 100 SIEVE.
26. AGGREGATES SHALL BE TESTED FOR SOUESS IN ACCORDANCE WITH ASTM C88 AND FOR POTENTIAL REACTIVITY IN ACCORDANCE WITH ASTM C: AGGREGATES USED FOR SLABS SHALL BE CONSIDERED INNOCUOUS WHEN TESTED IN ACCORDANGITH ASTM C289.
27. ALL CONCRETE TESTING SHALL BE PERFOED BY AN APPROVED TESTING AGENCY AND IN ACCORDANCE WITH ALL APPLICABLE ASTMCIFICATIONS.
28. SAMPLE EACH TYPE/CLASS OF CONCRETE A RATE OF NOT LESS THAN ONE PER DAY NOR LESS THAN ONE PER 100 CU. YD. NOR LESS THAN ONE E EACH 5,000 SQ. FT. OF SURFACE AREA FOR SLABS AND WALLS (REF ACI 318, 5.6). IF TOTAL VOLUME CONCRETE IS SUCH THAT FREQUENCY OF TESTING REQUIRED WOULD PROVIDE LESS THAN 5 SINGTH TESTS FOR A GIVEN CLASS OF CONCRETE, TESTS SHALL BE MADE FROM AT LEAST 5 RANDOMSELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN 5 BATCHES ARE USED.
29. EACH SAMPLE SHALL BE TESTED FOR, AS A IMUM, SLUMP, AIR CONTENT, TEMPERATURE, UNIT WEIGHT, AND COMPRESSIVE STRENGTH.
30. COMPRESSIVE STRENGTH TESTS SHALL BB FOLLOWS: 1 CYLINDER SHALL BE TESTED @ 7 DAYS AFTER POUR, 2 CYLINDERS SHALL BE TESTED 28 DAYS AFTER POUR AND 1 CYLINDER SHALL BE HELD IN RESERVE.
31. FLOOR FLATNESS, F(F) AND FLOOR LEVELNS, F(L) SHALL BE TESTED IN ACCORDANCE WITH ASTM E1155. ACTUAL OVERALL F-VALUES SHALL BE CALCATED USING THE INFERIOR/SUPERIOR AREA METHOD. OVERALL F(F) 25, F(L) 20 WITH MIN LOCAL F(8 AND F(L) 15
33. ALL NEW SLABS SHALL PREFERABLY BE WEURED FOR A MINIMUM OF 7 DAYS, AS APPLICABLE. REF. NOTE 36 FOR ALTERNATE CURING METHOD.
34. FLOOR JOINTS AS INDICTED ON DESIGN DRINGS OR PROPRIETARY SLAB DRAWINGS. ALL JOINTS SHALL BE AIR CLEANED AND FILI WITH JOINT FILLER AS INDICATED BELOW; WEAR SLAB IN AMBIENT AREAS: SPAL PRO 85 BY METZGER-McGUIRE (33°F OR HIGHER) WEAR SLAB IN FREEZER AND COOLER: SPARO RSF BY METZGER-McGUIRE (32°F OR LOWER) WEAR SLAB IN AMBIENT, FREEZER AND COOI AREAS: EUCO QUICKJOINT 200 BY EUCLID CHEMICAL CO.
35. USE DIAMOND DOWELS AT CONSTRUCTIONNTS FOR SLABS ON GRADE AND LOAD PLATE BASKETS OF PD3 BASKETS AT CONTRACTION JOINTS NOTED ON PLANS.
36. DRESS AND SEAL 30 AS MANUFACTURED B1M CONSTRUCTION CHEMICALS OR SUPER DIAMOND CLEAR VOX AS MANUFACTURE BY EUCLID CHEMICOMPANY SHALL BE USED WITH NEW CONCRETE IN ALL AREAS NOT RECEIVING A FLOOR TOPPING.
37. VAPOR RETARDER SHALL BE STEGO WRAP 'IL CLASS A OR APPROVED EQUAL. RETARDER SHALL BE INSTALLED, LAPPED 6" MIN. AND TAPED PERG. RECOMMENDATIONS.
38. ALL ANCHOR RODS AND EMBEDDED ITEMS 'LL BE ACCURATELY LOCATED AND SECURELY SUPPORTED PRIOR TO CONCRETE POUR. WET SETTING OF ANOR RODS AND EMBEDDED ITEMS IS PROBHIBITED.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO 360-16 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" OF THE A.I.S.C.
2. FABRICATORS AND ERECTORS SHALL BE MEMBERS OF THE A.I.S.C. OR CERTIFIED FOR CATEGORY I, A.I.S.C. QUALITY CERTIFICATION PROGRAM OR HAVE AT LEAST 10 YEARS EXPEIENCE IN FABRICATION AND ERECTION OF SIMILAR STEEL STRUCTURES.
3. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL SHALL BE SUBMITTED AND APPROVED PRIOR TO ANY FABRICATION.
4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE A MINIMUM OF 3/4" DIAMETER ASTM A325 BOLTS UNLESS NOTED OTHERWISE. ALL BOLTED CONNECTIONS SHALL BE "SNUG TIGHT" UNLESS NOTED OTHERWISE. TC BOLTS MAY BE USED. ALL CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS U.N.O. DESIGN CONNECTIONS TO PROVIDE SUITABLE ACCESS FOR FIELD INSTALLATION.
5. ALL WELDS SHALL CONFORM TO LATEST EDITION OF AWS D1.1, "STRUCTURAL WELDING CODE". ALL GROOVE WELDS SHOWN ON CONTRACT DOCUMENTS SHALL BE FULL PENETRATION WELDS UNLESS NOTED OTHERWISE. WELDING SHALL BE DONE WITH E-70XX ELECTRODES UNLESS NOTED OTHERWISE.
6. STRUCTURAL STEEL CONNECTIONS SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS BEING CONSTRUCTED. STRUCTURAL ANALYSIS DATA SHALL BE SIGNED/SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND SHALL BE PROVIDED WITH THE SHOP DRAWING SUBMITTALS. DESIGN CONNECTIONS TO PROVIDE SUITABLE ACCESS FOR FIELD INSTALLATION WHERE APPLICABLE.
7. UNLESS OTHERWISE SHOWN, ALL BEAM CONNECTIONS SHALL BE STANDARD FRAMED OR SEATED CONNECTIONS. UNLESS GREATER REACTIONS ARE INDICATED ON THE PLANS, CONNECTIONS SHALL DEVELOP AT LEAST ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE TABLES OF THE MANUAL FOR THE GIVEN SHAPE AND SPAN OF THE BEAM IN QUESTION. IN NO CASE, HOWEVER, SHALL THE LENGTH OF THE FRAMED CONNECTIONS BE LESS THAN ONE-HALF OF THE "T" DISTANCE OF THE BEAM WEB.
8. WHERE PRACTICAL, UNLESS SHOWN DIFFERENTLY ON DRAWINGS, ALL BRACING CONNECTIONS SHALL BE DESIGNED AND DETAILED SO THAT ALL FORCE COMPONENTS CAN BE DELIVERED DIRECTLY TO THE CENTERLINE OF INTERSECTING MEMBERS. WHERE THIS IS NOT DONE, CONNECTIONS SHALL BE DESIGNED TO ACCOUNT FOR RESULTING ECCENTRICITIES.
9. SHOP OR FIELD SPLICES NOT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL.
10. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STRUCTURAL STEEL FRAME WORK AGAINST LATERAL LOADING, SUCH AS WIND. THE BRACING SHALL REMAIN IN PLACE UNTIL THE FINAL SYSTEM FOR RESISTING LATERAL LOADS IS IN PLACE AND EFFECTIVE AS APPROVED BY THE STRUCTURAL ENGINEER.
11. GUSSET PLATES SHALL BE 3/8" THICK MINIMUM.
12. BEAMS SHALL BE FABRICATED AND ERECTED WITH NATURAL CAMBER UP. IP.
13. THE CONTACT SURFACES WITHIN SLIP CRITICAL JOINTS SHALL BE FREE FROM OIL, PAINT, LACQUER OR GALVANIZING.
14. STRUCTURAL STEEL FRAMING SHALL BE ERECTED TRUE AND PLUMB IN ACCORDANCE WITH A.I.S.C. CODE OF STANDARD PRACTICE. ANY FRAMING EXCEEDING TOLERANCES OF THE AISC CODE OF STANDARD PRACTICE SHALL BE CORRECTED AS DIRECTED BY THE STRUCTURAL ENGINEER.
15. ROOF DECKING SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE AND MANUFACTURER'S RECOMMENDATIONS. DECKING SHALL BE PLACED IN A THREE-SPAN CONTINUOUS CONDITION. SINGLE OR DOUBLE SPAN CONDITIONS REQUIRE PRIOR APPROVAL BY THE STRUCTURAL ENGINEER.
16. STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.
17. GROUT USED IN GROUT BEDS UNDER COLUMN BASE PLATES SHALL BE CEMENT BASED, NON-SHRINK, NON-METALLIC GROUT. THE GROUT SHALL EXHIBIT NO SHRINKAGE IN ACCORDANCE WITH ASTM C827-92, "TEST METHOD FOR EARLY VOLUME CHANGE OF CEMENTITIOUS MIXTURES" AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI WHEN TESTED IN ACCORDANCE WITH ASTMC-109-80, "TEST METHOD FOR COMPRESSIVE STRENGTH OF HYDRAULIC CEMENT MORTARS".
18. ALL SAG RODS SHALL BE 5/8" DIA., A36 SMOOTH BAR WITH THREADED ENDS. DS. DOUBLE NUT EA. END OF SAG RODS.
19. ALL STRUCTURAL STEEL, MISCELLANEOUS STEEL AND STEEL JOISTS U.N.O. LO. SHALL BE GIVEN ONE SHOP COAT AND ONE FIELD TOUCH UP PAINT, GRAY COLOR.
20. THE STEEL FABRICATOR SHALL INSPECT ALL ERECTED STEEL INCLUDING, S, BUT NOT LIMITED TO, STRUCTURAL SHAPES, JOISTS, JOIST GIRDERS AND METAL DECK. THE STEEL FABRICATOR SHALL BE RESPONSIBLE FOR THE ACCURACY, SIZE AND QUALITY OF FIELD CONNECTIONS.

INSULATED METAL PANEL (IMP)

1. INSULATED METAL PANEL (IMP) MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR PANEL STRENGTH AND ATTACHMENT TO CONCRETE, METAL DECK, STEEL, ETC... (FASTENING PATTERNS)
2. MAXIMUM DEFLECTION = L/180 (EXT. WALL), L/120 (INT. WALL).
3. DESIGN WIND PRESSURE SHALL BE BASED ON PRESSURES RELATED TO A TRIBUTARY AREA OF 20 SQ. FT. LISTED IN THE COMPONENTS AND CLADDING TABLE ON THIS DRAWING.
4. WIND AND THERMAL LOADING NEED NOT BE COMBINED IF THE STEEL BUCKLING STRESS DUE TO THERMAL WARP IS LESS THAN 1/2 THE YIELD STRENGTH OF THE METAL SKIN.
5. FOR THERMAL LOADING, THE MAXIMUM OUTSIDE AMBIENT TEMPERATURE FOR IMP SHALL BE 90°F.

DESIGN NOTES

DESIGN DATA
2020 FLORIDA BUILDING CODE 7th ed.

WIND DESIGN

BASIC WIND SPEED, ULTIMATE (ASCE 7-16)	
RISK CATEGORY II	118 MPH
EXPOSURE	C
ENCLOSURE CLASSIFICATION	ENCLOSED BUILDING
INTERNAL PRESSURE COEFFICIENT	±0.18

COMPONENTS & CLADDING (NOMINAL: 0.6 ULTIMATE WIND)

AREA	ROOF (GROSS, PSF)			AREA	WALLS (GROSS, PSF)			
SQ.FT.	ZONE 2	ZONE 3	ZONES 2, 3	SQ.FT.	ZONE 4	ZONE 5	ZONES 4 & 5	
10	-42.4	-57.8	+8.2	10	-20.0	-24.6	+18.5	
20	-39.7	-52.3	+7.7	20	-19.2	-23.0	+17.6	
50	-36.0	-45.1	+7.0	50	-18.1	-20.8	+16.6	
100	-27.0	-39.6	+6.5	100	-17.3	-19.2	+15.7	

NOTE: EDGE DISTANCE = 5.0' **NOTE:** EDGE DISTANCE, a = 3.0'

EARTHQUAKE DESIGN

OCCUPANCY CATEGORY	II
SITE CLASS	D (ASSUMED)
IMPORTANCE FACTOR	1.0
SPECIAL RESPONSE ACCELERATION	Ss = 0.087
	S1 = 0.051
SPECTRAL RESPONSE COEFFICIENTS	SDs = 0.093
	SD1 = 0.081
SEISMIC DESIGN CATEGORY	B
RESPONSE MODIFICATION FACTOR (R)	3.00: STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC

FOUNDATION DESIGN

SOIL BEARING CAPACITY	qall. = 2,500 PSF
MODULUS OF SUBGRADE REACTION, K	150 PCI
GEOTECHNICAL ENGINEERING SERVICES	UNIVERSAL ENGINEERING SCIENCES 5561 FLORIDA MINING BLVD SOUTH, JACKSONVILLE, FL PROJECT NO. 92625-001-01, REPORT NO. 458560
MIN. FOUNDATION BRG DEPTH	18" BELOW FINISHED GRADE

LIVE LOADS

ROOF	20 PSF (WITH TRIBUTARY REDUCTIONS PER CODE)
100-YR RAIN INTENSITY	4.5 IN/HR
GROUND SNOW LOAD, Pg	0 PSF

ROOF DEAD LOADS

SINGLE PLY ROOF MEMBRANE	0.5 PSF
ROOF INSULATION	1.5 PSF
METAL ROOF DECK	2.0 PSF
ROOF STEEL	5.0 PSF
COLLATERAL	6.0 PSF
TOTAL	15.0 PSF

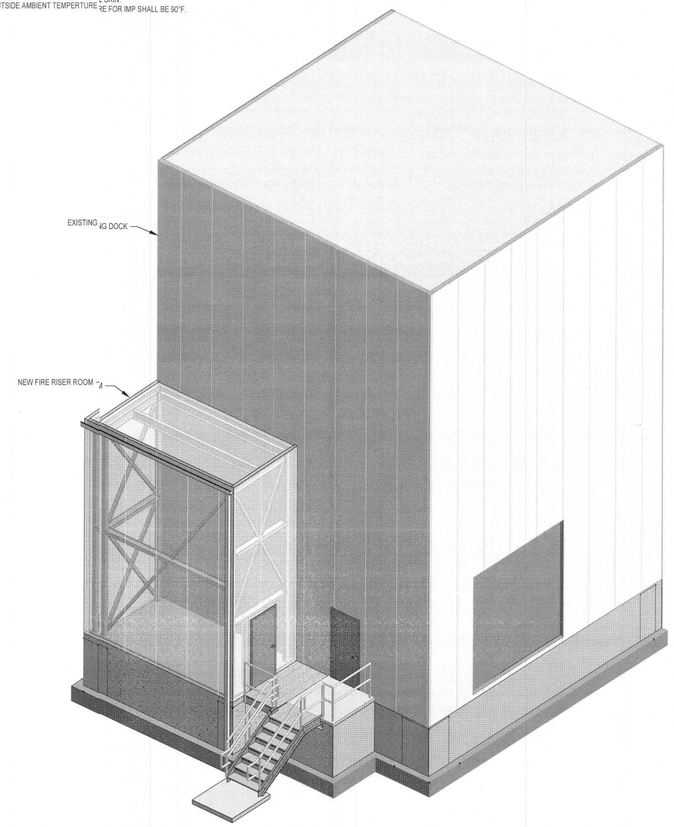
MATERIALS

WIDE FLANGE STEEL	A572 OR A992 (50 KSI)
CHANNELS, ANGLES & PLATES	A36 (36 KSI)
RECTANGULAR STRUCTURAL TUBING	A500 GRADE B (46 KSI) OR GRADE C (50 KSI)
STANDARD PIPE	A53 GRADE B
HIGH STRENGTH BOLTS	A325N, A325TC
C.I.P. ANCHOR RODS	HEAVY HEX HEAD F1554 GRADE 36
POST-INSTALLED ANCHOR RODS	ASTM A193 GRADE B7 W/ COATING AS SPECIFIED IN ESR-2322 OR ESR-3187 OR ESR-3814. POST-INSTALLED ANCHORS REQUIRE ENGINEER'S APPROVAL PRIOR TO USE
SAG RODS	A36 BAR WITH THREADED ENDS
METAL ROOF DECK	1 1/2", TYPE B, 22 GA, Fy=40 ksi MIN, GALV. G60
WELDING ELECTRODES	E70XX
STEEL GRATING	1 1/4" x 3/16" CMW 4-125 (11W4) GRATING, GALV. STEEL

CONCRETE (28 DAYS)

FOOTINGS	3000 PSI
PIERS	3000 PSI
WEAR SLAB/SLAB-ON-GRADE	4000 PSI
ALL OTHER CONCRETE	3000 PSI
REINFORCING STEEL	A615 GRADE 60
HEADED STUDS	A108
DEFORMED BAR ANCHORS (DBA)	A1064
ADHESIVE ANCHORING	HILTI HIT-RE 500 V3 ADHESIVE ANCHOR SYSTEM (ICC ESR-3814) HILTI HIT-RE 500-SD ADHESIVE ANCHOR SYSTEM (ICC ESR-2322) HILTI HIT-HY 200 ADHESIVE ANCHOR SYSTEM (ICC ESR-3187)

ERECTION
ALL STRUCTURAL COMPONENTS SHALL BE ERECTED WITHIN THE TOLERANCES SET FORTH BY AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".



ISOMETRIC VIEW

SPECIAL INSPECTION SCHEDULE

ESTABLISHED 'ER 2018 IBC SECTION 110 AND CHAPTER 17

ITEM	CONTINUOUS	PERIODIC	REFERENCE	COMMENTS
PRE-FAB CONSTRUCTION			REFERENCE NOES P1 & P2	P1. SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTION PROVIDED THE FABRICATOR COMPLIES WITH IBC. P2. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
STEEL CONSTRUCTION (IBC 1705.2)				S1. WELDING INSPECTIONS SHALL BE IN COMPLIANCE w/ AWS D1.1.
MATERIAL VERIFICATION OF STRUCTURAL STEEL IDENTIFICATION MARKINGS TO CONFORM WITH ASTM STANDARDS SPECIFIED IN THE DESIGN DRAWINGS		X	AISC 360	S2. ALL WELDS SHALL BE VISUALLY INSPECTED. ALL MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDERS SHALL BE VERIFIED PRIOR TO THE START OF WORK (AISC 360).
CERTIFIED MILL TESTS	EACH SUBMITTAL			
SHOP AND FIELD WELDING			REFERENCE NOT S1	S3. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR BY USING ANOTHER APPROVED METHOD. (AISC 360).
SINGLE PASS FIELD WELD ≤ 5/16"		X	REFERENCE NOT S2	
FILLET WELDS > 5/16"	X		REFERENCE NOT S2	S4. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY IF REINFORCING STEEL OTHER THAN ASTM A 706. IN ACCORDANCE WITH ANSI/AWS D1.4, CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE.
MULTI-PASS FILLET WELDS	X		REFERENCE NOT S2	
PARTIAL/COMPLETE PENETRATION WELDS	X		REFERENCE NOT S3	
FLOOR AND ROOF DECK WELDING		X	REFERENCE NOT S2	
FLOOR AND ROOF DECK MECH. FASTENERS		X		
SIDE SEAM SCREWS,BUTTON PUNCHES ETC.		X		
INSPECTION OF STEEL FRAME JOINT DETAILS		X		
EMBEDDED PLATES		X		
HIGH STRENGTH BOLTING			AISC 360	S5. SLIP-CRITICAL CONNECTIONS MAY HAVE PERIODIC SPECIAL INSPECTION PROVIDED THAT THE TURN-OF-THE-NUT METHOD WITH MATCH MARKING TECHNIQUES IS USED.
VERIFY MATERIALS OF NUTS, BOLTS & WASHERS		X		
BEARING TYPE CONNECTIONS		X		
SLIP-CRITICAL CONNECTIONS	X	X	REFERENCE NOT S5	
VERIFY FIELD INSTALLED WEB MEMBERS LOCATED AT POINTS OF CONCENTRATED LOAD AS REQUIRED ON CONTRACT DRAWINGS.		X		
VERIFY DECK, DECK ASSESSORIES AND MECHANICAL FASTENERS COMPLY WITH CONTRACT DOCUMENTS INCLUDING PROFILES, MATERIAL PROPERTIES AON BASE METAL THICKNESS		X	SDI QA/QC, TABLE1	
VERIFY DECK, DECK ASSESSORIES AND CONNECTIONS INSTALLED PER SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.		X	SDI QA/QC, TABLE1	
VERIFY TYPE, SIZE AND LOCATION OF SUPPORT AND SIDELAP CONNECTIONS.		X	SDI QA/QC, TABLE1	
CONCRETE CONSTRUCTION (IBC 1705.3)			ACI 318	
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS,AND PLACEMENT.		X		
INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X			
VERIFYING USE OF REQUIRED DESIGN MIX.		X		
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X			
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X		
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X			
EVALUATION OF CONCRETE STRENGTH		X		
INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS.		X		
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE		X	ACI 318, IBC 1912.1	
INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE RESISTING SYSTEM (AS APPLICABLE)	X X			
ERECTION OF PRECAST CONCRETE MEMBERS		X		
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X		
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER(S) BEING FORMED.		X		
SOILS (IBC 1705.6)				
VERIFY MATERIALS BELOW FOOTING ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X		
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.		X		
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X			
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X		
VERIFY SITE PREPARATION COMPLIES WITH APPROVED SOILS REPORT.	X			
VERIFY DRY-DENSITY OF COMPACTED FILL COMPLIES WITH APPROVED SOILS REPORT.		X		

GENERAL SPECIAL INSPECTION NOTES:

1. THE ITEMS MARKED WITH A "X" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION. THE PROJECT SPECIFICATIONS, AND/OR THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF CONSTRUCTION.
2. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.
3. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK (IBC SECTION 1704). SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.

STRUCTURAL SHEET LIST

G0001	COVER SHEET
G0002	SHEET INDEX
S0001	STRUCTURAL GENERAL NOTES & INSPECTION SCHEDULE
S1001	RISER ROOM PLANS AND STRUCTURAL ELEVATIONS
S1101	PLANS, ELEVATIONS AND SECTION
S4001	LANDING AND STAIR PLANS AND SECTIONS
S5001	STRUCTURAL DETAILS
S5101	IMP DETAILS

OWNER

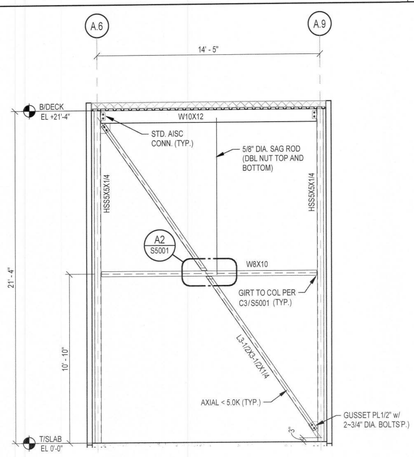
UNITED STATES COLD STORAGE

PROJECT INFORMATION

UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

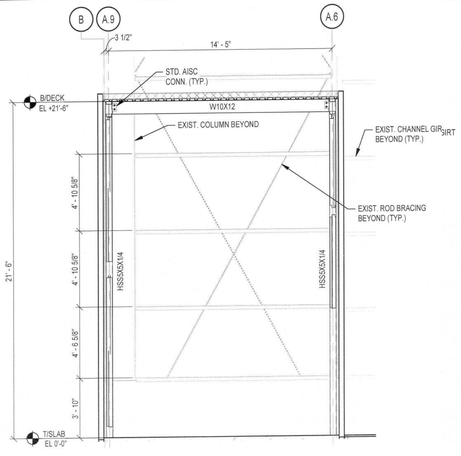
stellar
TAKING SOLUTIONS FURTHER

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THE STELLAR GROUP
2900



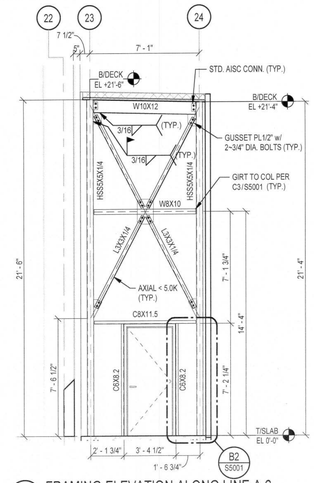
D1 FRAMING ELEVATION ALONG LINE 24

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



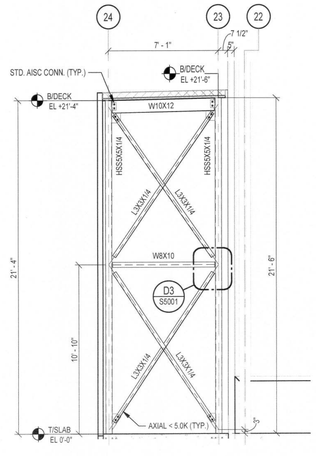
D2 FRAMING ELEVATION ALONG LINE 23

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



D3 FRAMING ELEVATION ALONG LINE A.6

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



D4 FRAMING ELEVATION ALONG LINE A.9

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

FOUNDATION AND SLAB SHEET NOTES

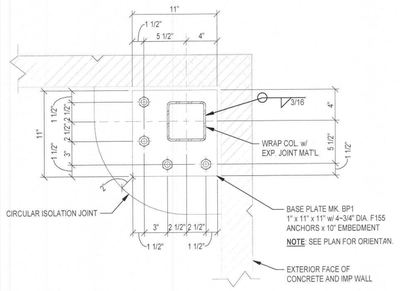
1. FINISHED FLOOR ELEV. +0'-0" (REF. TAKEN AT ADJACENT DOCK BLDG FIN. FLR.)
   A. REFERENCE CIVIL DRAWINGS FOR ACTUAL ELEVATION.
2. BP-X (-X'-X") INDICATES BASE PLATE TYPE AND BOTTOM OF BASE PLATE ELEVATION RESPECTIVELY.
3. F, CF OR FF-XX.X' (-X'-X") INDICATES FOOTING MARK AND TOP OF FOOTING ELEVATION RESPECTIVELY.
4. STRUCTURAL GENERAL NOTES PER DRAWING S00001.
5. REF. GEOTECHNICAL REPORT OF SUBGRADE PREPARATION.
6. ALL SLAB-ON GRADE SHALL HAVE A MIN OF 4" GRANULAR BASE. (REF.) SEE CIVIL DRAWINGS.

ROOF FRAMING PLAN SHEET NOTES

1. SEE DRAWING S0001 FOR STRUCTURAL GENERAL NOTES.
2. ALL T/STEEL ELEV. GIVEN WITH RESPECT TO TOP OF FINISH FLOOR SLAB ASSUMED ELEVATION 0'-0" (SEE CIVIL FOR ACTUAL)
3. MAXIMUM W/F BEAM END REACTION LESS THAN/EQUAL TO 10.0K

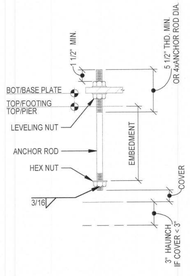
ROOF DECK ATTACHMENT NOTES

1. SEE MATERIAL SECTION OF DESIGN NOTES ON S0001 FOR DECK TYPE.
2. METAL ROOF DECK SHALL BE ATTACHED TO FIELD AND PERIMETER ROOF BEAMS WITH A 36/4/3 CONNECTION PATTERN.
3. STRUCTURAL SUPPORT FASTENERS SHALL BE MADE WITH 5/8" DIA. PUDDLE WELDS OR WITH APPLICABLE HILTI PINS X-EDN-19, X-EDNK-22 OR X-ENP-19.
4. SIDE LAPS BETWEEN STRUCTURAL SUPPORTS SHALL BE MADE WITH #10 TEK SCREWS AS MANUFACTURED BY ITW BUILDEX OR EQUIV.
5. END LAPS SHALL BE A MINIMUM OF 3" AND SHALL OCCUR OVER SUPPORTS.



C1 TYPICAL BASE PLATE AND SLAB ISOLATION JOINT

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



BASE PLATE ANCHOR ROD HOLE	
ANCHOR ROD DIA.	HOLE DIA
3/4"	5/16" OVERS

NOTE:
IF ANCHOR ROD HOLE DIAMETER IS SPECIFIED LARGER THAN SHOWN IN SCHEDULE, ANCHOR ROD PLATE WASHERS SHALL BE USED. (SEE BELOW)

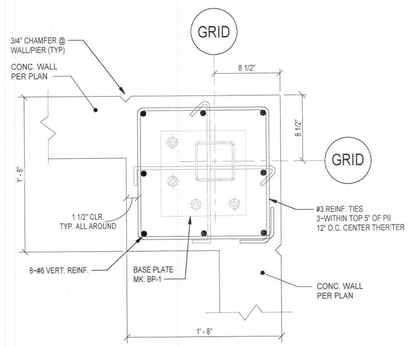
ANCHOR ROD PLATE WASHERS		
ANCHOR ROD DIAMETER	MAX. HOLE DIAMETER	PLATE WASHER SIZE W/ 1 1/16" DIA. HOLE
3/4"	1 5/16"	2" x 1/4"

NOTE:
IF MAX. HOLE DIA. OPTION IS CHOSEN, PLATE WASHERS SHALL BE WELDED TO BASE PLATE WITH 3/16" FILLET WELD FULL LENGTH OF PLATE WASHER ON TWO OPPOSING SIDES WHICH ARE LOCATED AT A BRACED COLUMN.

NOTE: SET ANCHORS TO ENSURE PROPER EMBEDMENT FROM TOP OF PIER OR FOOTING

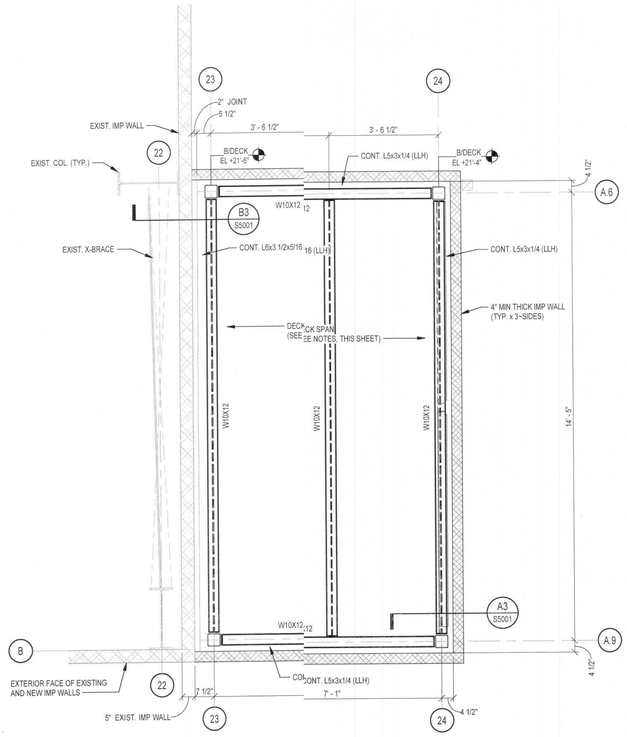
B2 ANCHOR ROD DETAIL

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



A1 TYPICAL PIER MK. P-1

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



A2 RISER ROOM ROOF FRAMING PLAN

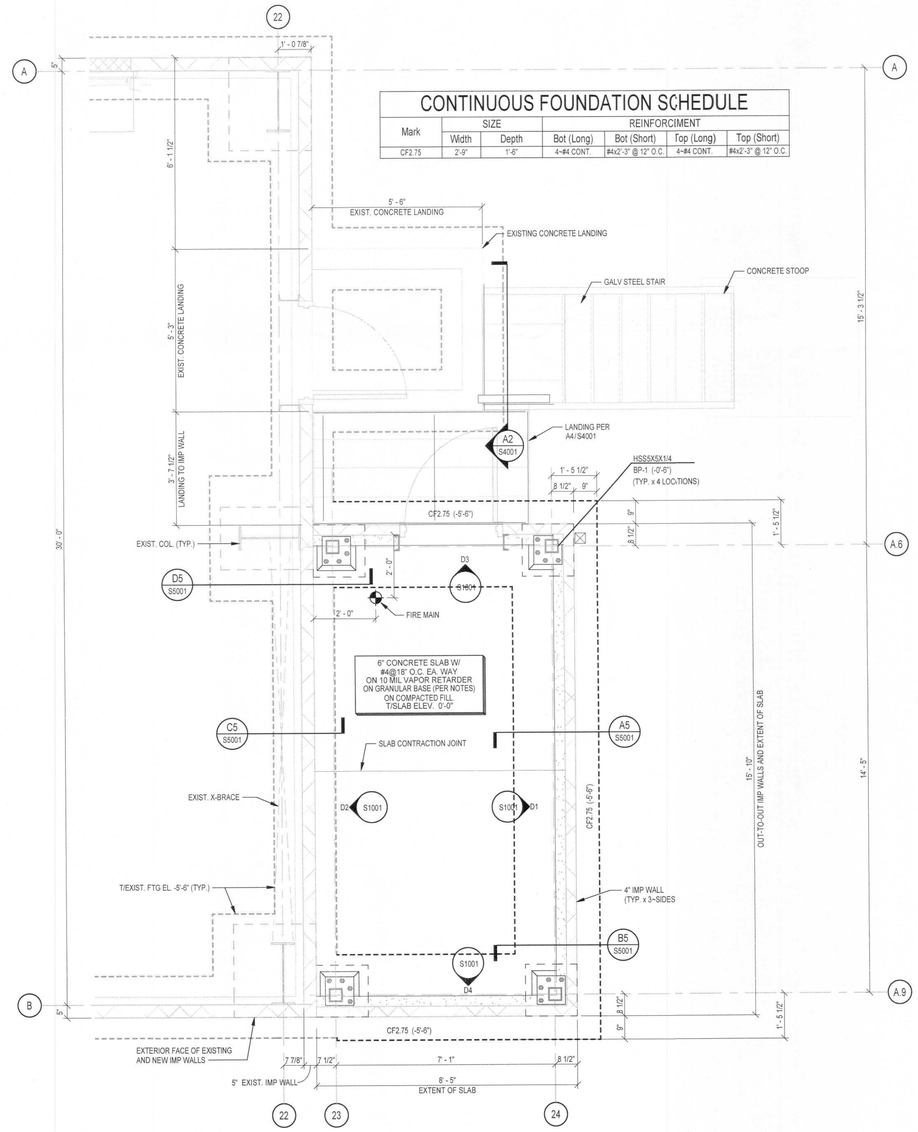
SCALE: 1/2" = 1'-0"

0' 1' 2' 4'

N

CONTINUOUS FOUNDATION SCHEDULE

Mark	SIZE		REINFORCMENT			
	Width	Depth	Bot (Long)	Bot (Short)	Top (Long)	Top (Short)
CF2.75	2'-9"	1'-6"	4-#4 CONT.	#4x2'-3" @ 12" O.C.	4-#4 CONT.	#4x2'-3" @ 12" O.C.



A4 RISER ROOM FOUNDATION AND SLAB PLAN

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

0' 1' 2' 4'

N

OWNER

UNITED STATES COLD STORAGE

PROJECT INFORMATION

UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

stellar
TAKING SOLUTIONS FURTHER

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FLORIDA ENGINEERING LICENSE NO. CA5930

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James F. Mateliski 11/8/22

James F. Mateliski FL License #63121

CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED: 07/18/2022
DESIGNED BY: JFM
REVIEWED BY: JFM
A/E/OR: JFM
PROJECT NUMBER: 07329

SHEET TITLE

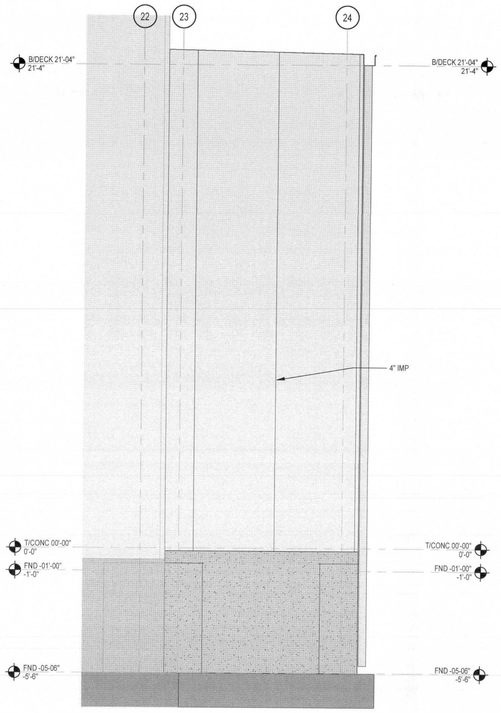
RISER ROOM PLANS AND STRUCTURAL ELEVATIONS

SHEET ID

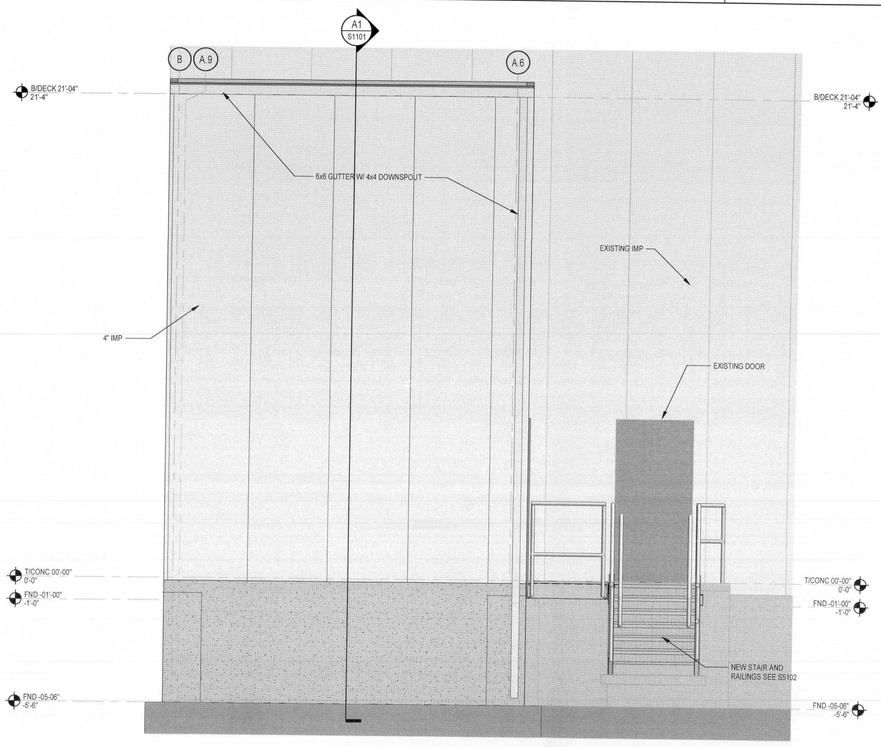
S1001

CONSTRUCTION ISSUE

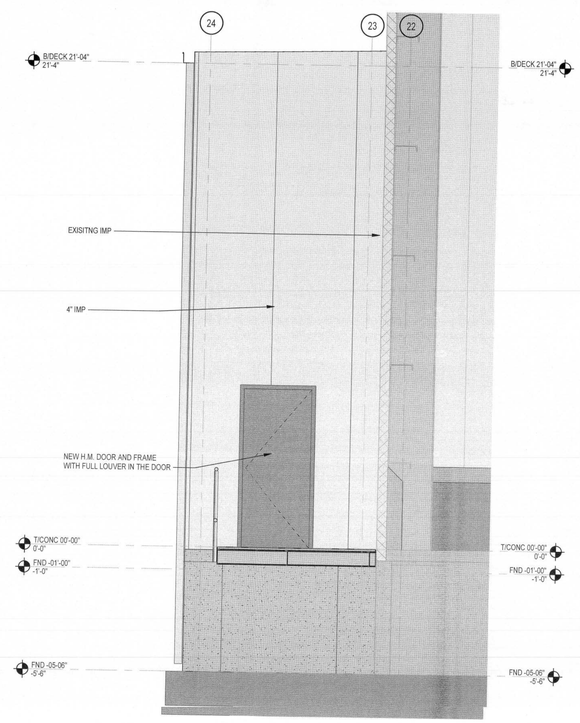
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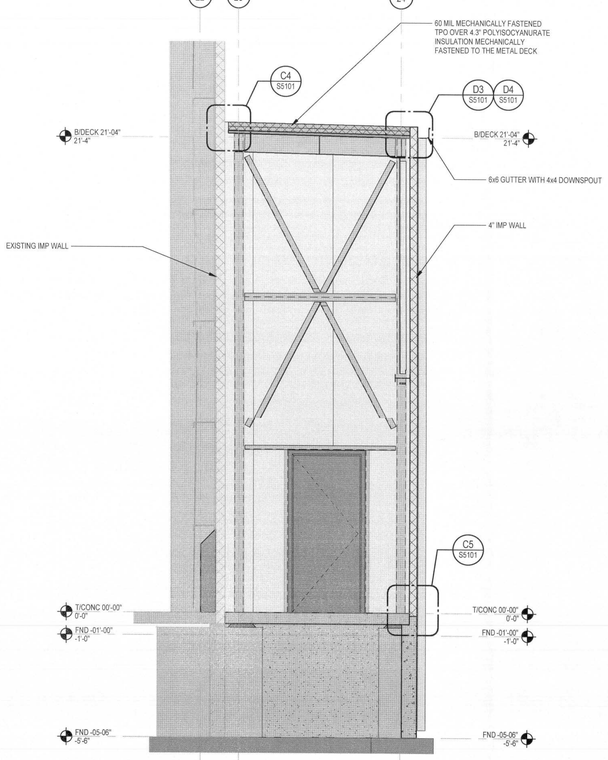
C1 C1/S1101 - ELEVATION SOUTH
SCALE: 3/8" = 1'-0"



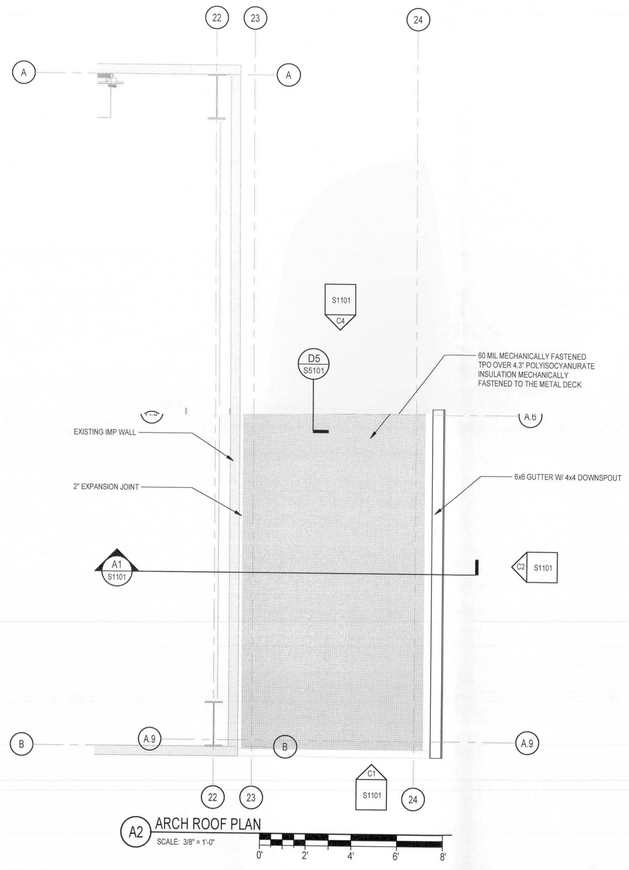
C2 C2/S1101 ELEVATION EAST
SCALE: 3/8" = 1'-0"



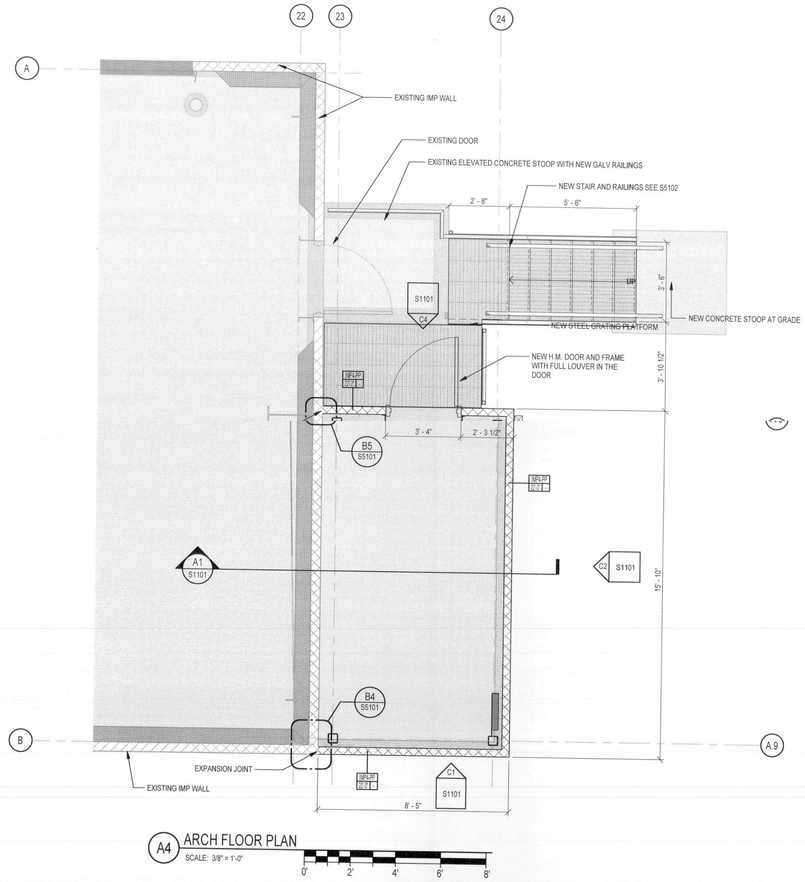
C4 C4/S1101 ELEVATION NORTH
SCALE: 3/8" = 1'-0"



A1 WALL SECTION
SCALE: 3/8" = 1'-0"



A2 ARCH ROOF PLAN
SCALE: 3/8" = 1'-0"



A4 ARCH FLOOR PLAN
SCALE: 3/8" = 1'-0"

OWNER

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PROJECT INFORMATION

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7/18/22
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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED:	07/18/2022
DESIGNED BY:	PEJ
REVIEWED BY:	PEJ
A/EOR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

PLANS, ELEVATIONS AND SECTION

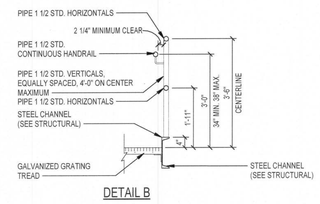
SHEET ID

S1101

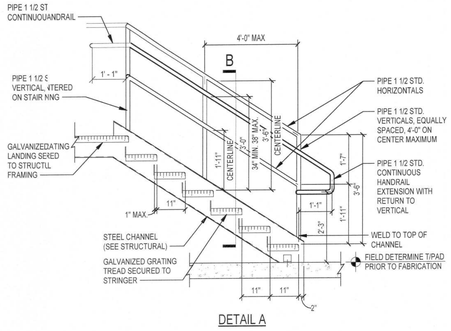
CONSTRUCTION ISSUE

7/18/2022 11:27:56 AM C:\Revit Local\07329_FireRiser_S_R20_James Matelski.rvt

STAIR NOTES:
1. STAIR SHALL HAVE UNIFORM RISER HEIGHTS AND TREAD WIDTHS FOR ANY GIVEN FLIGHT OF STAIRS.
2. SEE STRUCTURAL FOR ALL REINFORCING AND STEEL FRAMING REQUIREMENTS.
3. HORIZONTALS SPACED TO PREVENT THE PASSAGE OF A 21'Ø SPHERE.
4. OPENINGS IN GRATING SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2" Ø AND THE ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTIONS OF TRAVEL.

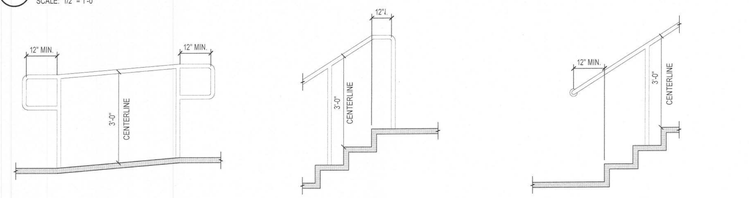


DETAIL B



DETAIL A

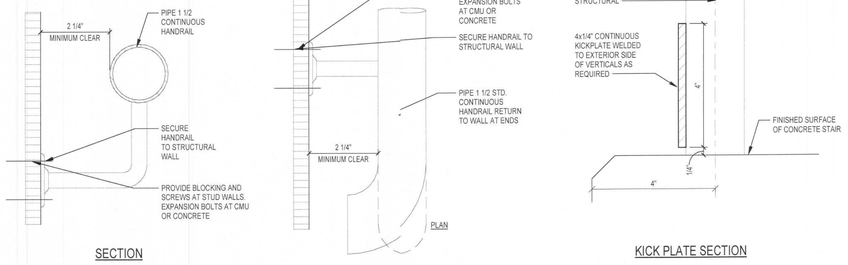
D1 STEEL STAIR FRAMING
SCALE: 1/2" = 1'-0"



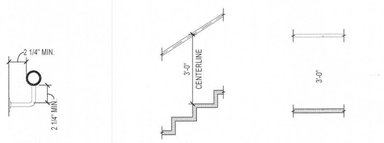
(TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS) (TOP HANDRAIL EXTENON AT STAIRS) (BOTTOM HANDRAIL EXTENSION AT STAIRS)

HANDRAIL EXTENSION NOTES:
1. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR F·HTS AND RAMP RUNS. EXCEPTIONS: 1. EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCHBACK ORGLEG STAIRS AND RAMPS. 2. IN ASSEMBLY AREAS, EXTENSIONS SHALL NOT BE REQUIRED FOR RAMP HANDRAILS IN AISLES SERVING SEATING WHER·IE HANDRAILS ARE DISCONTINUOUS TO PROVIDE ACCESS TO SEATING AND TO PERMIT CROSSOVERS WITHIN AISLES. 3. IN ALTERATIONS, FULL EXTIONS OF HANDRAILS SHALL NOT BE REQUIRED WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS DUE TO PLAN CONFIGURATION.
2. TOP AND BOTTOM EXTENSION AT RAMPS. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVIIE LANDING FOR 12 INCHES (305 mm) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE IDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
3. TOP EXTENSION AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTLY ABOVE THE LANDING FOR 12 INCHES (305 mm) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GRD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
4. BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AHE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION LL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

C1 HANDRAIL EXTENSIONS
SCALE: 1/2" = 1'-0"



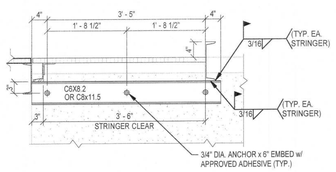
B1 HANDRAIL SECTIONS
SCALE: 6" = 1'-0"



(HANDRAIL CLEARANCE WITH HORIZONTAL PROJECTIONS BELOW GRIPING SURFACE) (STAIRS) (WALKINSURFACES)

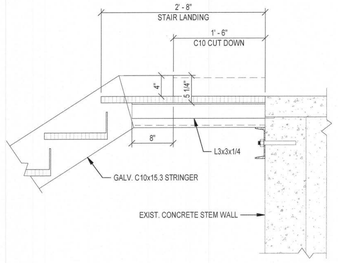
HANDRAIL NOTES:
1. GENERAL. HANDRAILS ARE REQUIRE ON RAMP RUNS WITH A RISE GREATER THAN 6 INCHES (150 mm) ADN CERTAIN STAIRWAYS. HANDRAILS ARE NOT REQUIRED ON WALKING SURFACES WITH RUNNING SLOPES LESS TH1:20. HOWEVER, HANDRAILS ARE REQUIRED TO COMPLY WITH HANDRAIL REQUIREMENTS WHEN HANDRAILS ARE PROVI0 ON WALKING SURFACES WITH RUNNING SLOPES LESS THAN 1:20.
2. WHERE REQUIRED. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS. EXCEPTION ASSEMBLY AREAS, HANDRAILS SHALL NOT BE REQUIRED ON BOTH SIDES OF AISLE RAMPS WHERE A HANDRAIL IS PROVIDBT EITHER SIDE OR WITHIN THE AISLE WIDTH.
3. CONTINUITY. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR #P RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHOR RUNS. EXCEPTION: IN ASSEMBLY AREAS, HANDRAILS ON RAMPS SHALL NOT BE REQUIRED TO BE CONTINUOUS IN AISLES SRVING SEATING.
4. HEIGHT. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (865 mm) MINIMUM AND 38 INES (965 mm) MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.
5. CLEARANCE. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL2 1/4 INCHES (38 mm) MINIMUM.
6. GRIPPING SURFACE. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH ANHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL F BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALCCUR 2 1/4 INCHES (38 mm) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE. EXCEPTIONS: 1. WHERE HAHALS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1:20, THE BOTTOMS OF HANDRAIL GRIPS SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY AE INTEGRAL TO CRABALS OR BUMPER GUARDS. 2. THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING FACE SHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH (3.2 mm) FOR EACH 1/2 INCH (13 mm) OF ADDITIONAL HANDRAILRIMETER DIMENSION THAT EXCEEDS 4 INCHES (100 mm).

A1 HANDRAILS
SCALE: 3/8" = 1'-0"

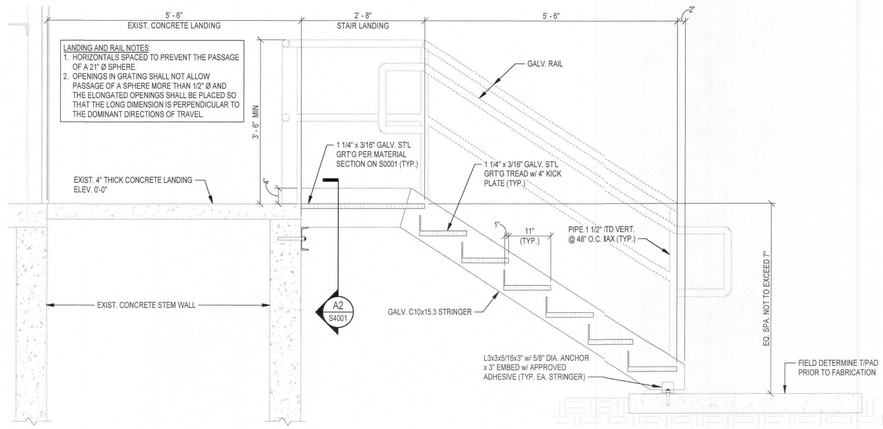


A2 STAIR LANDING SECTION
SCALE: 3/4" = 1'-0"

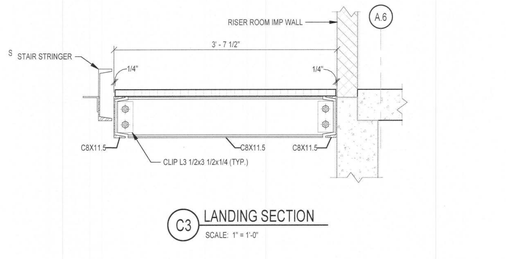
NOTES:
1. SEE S0001 FOR STRUCTURAL GENERAL NOTES.
2. SEE S1001 FOR OVERALL FIRE RISER ROOM, STAIR AND LANDING LOCATION.
3. ALL STEEL SHALL BE HOT DIP GALV.



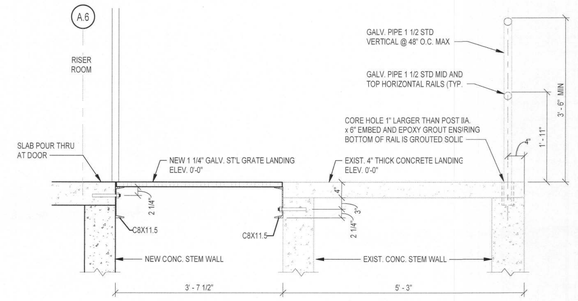
D2 STAIR SECTION
SCALE: 1" = 1'-0"



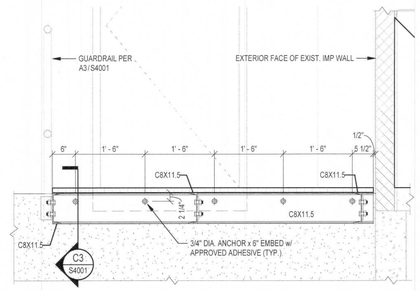
C4 STAIR SECTION
SCALE: 3/4" = 1'-0"



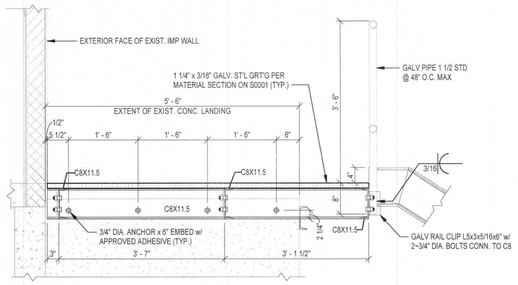
C3 LANDING SECTION
SCALE: 1" = 1'-0"



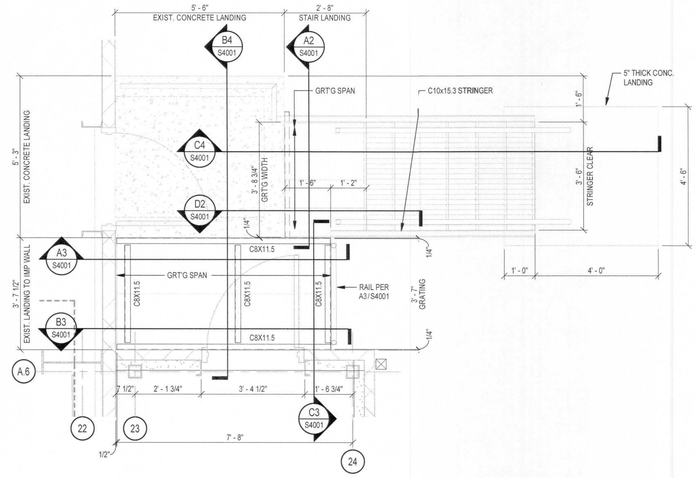
B4 LANDING SECTION
SCALE: 3/4" = 1'-0"



B3 LANDING SUPPORT SECTION
SCALE: 3/4" = 1'-0"



A3 LANDING SUPPORT SECTION
SCALE: 3/4" = 1'-0"



A4 LANDING AND STAIR PLAN
SCALE: 1/2" = 1'-0"

0' 1' 2' 4'

N

OWNER

UNITED STATES COLD STORAGE

PROJECT INFORMATION

UNITED STATES COLD STORAGE, INC.
211 MCCLOSKEY AVE
LAKE CITY, FLORIDA 32055

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James F. Matelski 7/18/22

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED:	07/18/2022
DESIGNED BY:	JFM
REVIEWED BY:	JFM
A/EOR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

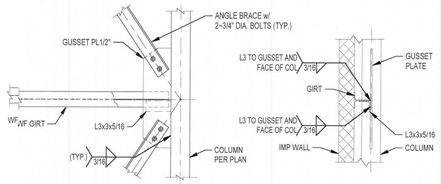
LANDING AND STAIR PLANS AND SECTIONS

SHEET ID

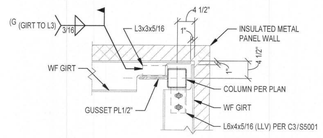
S4001

CONSTRUCTION ISSUE

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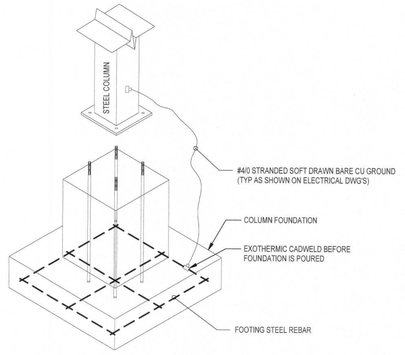


ELEVATION VIEW SECTION VIEW

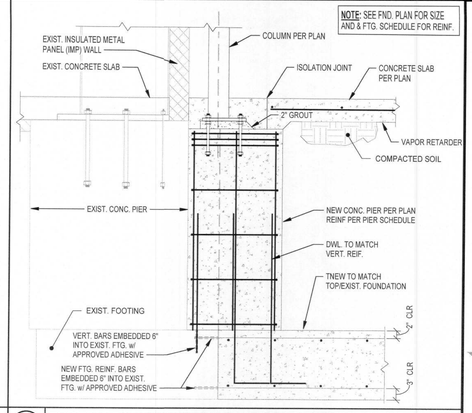


PLAN VIEW

D3 BRACE ANGLE AT GIRT AND COLUMN
SCALE: 3/4" = 1'-0"

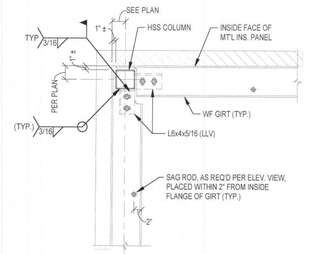


D4 TYPICAL COLUMN BONDING GROUND
SCALE: 1/2" = 1'-0"

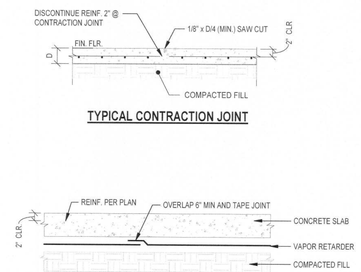


D5 EXISTING TO NEWEXTERIOR WF COL. & PIER
SCALE: 3/4" = 1'-0"

NOTE:
PROVIDE HORIZONTAL SLOTTED HOLES PERPENDICULAR TO WALL PANELS TO ALLOW FOR 1" ADJUSTMENT IN GIRT LOCATION. VERTICALLY ALIGN OUTSIDE FACE OF ALL GIRTS WITH EDGE ANGLE ABOVE. HAND TIGHTEN BOLTS. THEN WELD IN PLACE AS SHOWN OR USE A325SC BOLTS AS AN ALTERNATE.



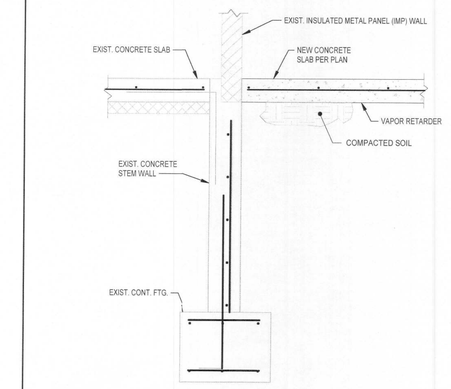
C3 TYPICAL GIRT CONNECTION
SCALE: 3/4" = 1'-0"



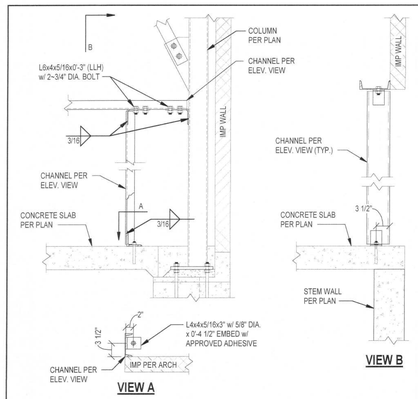
TYPICAL CONTRACTION JOINT

TYPICAL SLAB ASSEMBLY DETAIL

C4 TYPICAL SLAB JOINT AND ASSEMBLY DETAILS
SCALE: 3/4" = 1'-0"



C5 EXISTING EXTERIOR FND. WALL
SCALE: 3/4" = 1'-0"

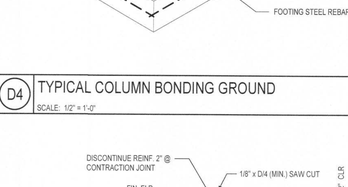


VIEW A

VIEW B

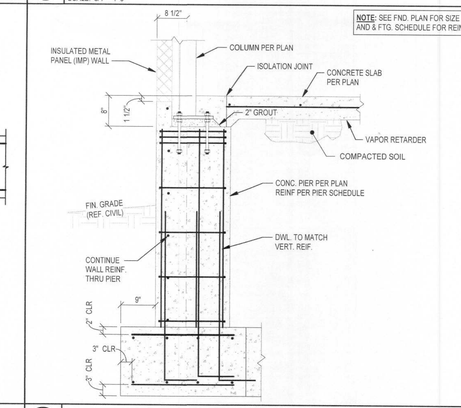
B2 POST CHANNEL TO SLAB/GIRT AT PERSONNEL DOOR
SCALE: 3/4" = 1'-0"

B3 PERIMETER BEAM
SCALE: 1" = 1'-0"



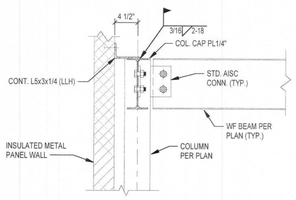
CORNER DETAIL JUNCTION DETAIL

B4 TYPICAL WALL AND FOOTING
SCALE: 1/2" = 1'-0"

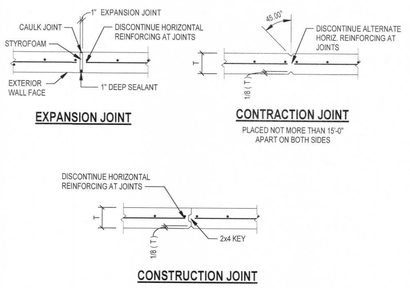


B5 EXTERIOR WF COL & PIER
SCALE: 3/4" = 1'-0"

NOTE: ROOF DECK NOT SHOWN



B3 PERIMETER BEAM
SCALE: 1" = 1'-0"

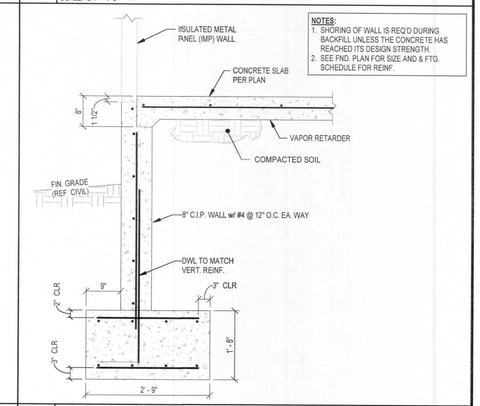


EXPANSION JOINT

CONTRACTION JOINT
PLACED NOT MORE THAN 15'-0" APART ON BOTH SIDES

CONSTRUCTION JOINT

B4 FOUNDATION WALL JOINTS
SCALE: 1/2" = 1'-0"



A5 EXTERIOR FND. WALL
SCALE: 3/4" = 1'-0"

OWNER

UNITED STATES COLD STORAGE

PROJECT INFORMATION

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LAKE CITY, FLORIDA 32055

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7/18/22

CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED:	07/18/2022
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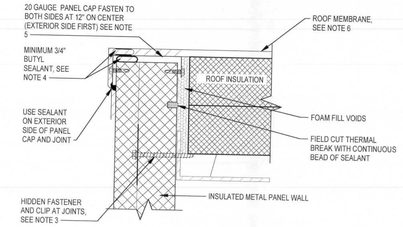
STRUCTURAL DETAILS

SHEET ID

S5001

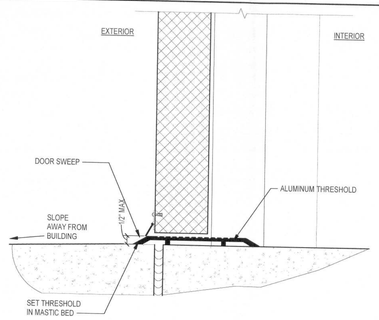
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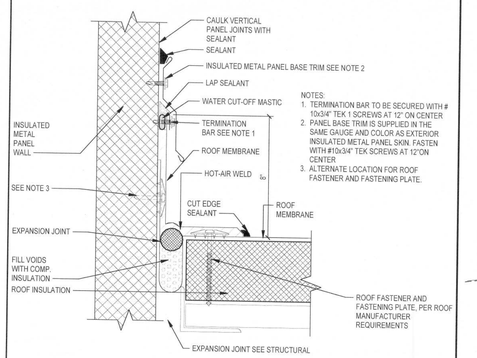
7/18/2022 11:28:06 AM C:\Revit Local\07329_FineRaer_S_R20_James.Mateiski.rvt



NOTES:
1. CUT INSULATED METAL PANEL 1/2" LOWER THAN TOP OF ROOF AT GUTTER EDGE.
2. CUT INSULATED METAL PANEL SAME HEIGHT AS ROOF AT RAKE EDGE.
3. 1/4"-14x__" TEK SCREW.
4. SET BUTYL ON AND IN PANEL CAP ON WARM SIDE AND ON PANEL JOINT.
5. SECURE 20 GAUGE CHANNEL WITH #10x3/4" TEK 1 SCREWS.
6. ROOF MEMBRANE FULLY ADHERE TO CAP AND RUN DOWN 1-1/2" BELOW PANEL CAP.

D3 EXTERIOR IMP WALL @ ROOF EDGE
SCALE: 3" = 1'-0" COLD/EXTERIOR

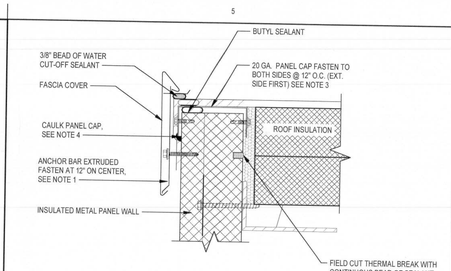




NOTES:
1. TERMINATION BAR TO BE SECURED WITH # 10x3/4" TEK 1 SCREWS AT 12" ON CENTER
2. PANEL BASE TRIM IS SUPPLIED IN THE SAME GAUGE AND COLOR AS EXTERIOR INSULATED METAL PANEL SKIN. FASTEN WITH #10x3/4" TEK SCREWS AT 12"ON CENTER
3. ALTERNATE LOCATION FOR ROOF FASTENER AND FASTENING PLATE.

C1 EXTERIOR IMP WALL @ ROOF EDGE
SCALE: 3" = 1'-0" SHALLOW FLUTED EXTERIOR PANELS - ALL CONDITIONS R:2

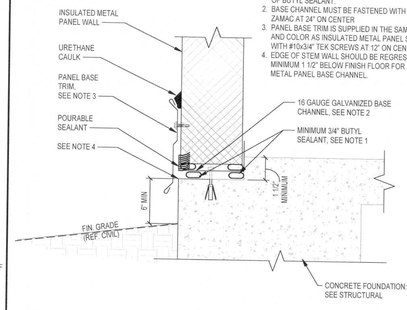
NOTES:
1. TERMINATION STRIP FASTENED WITH #10x3/4" TEK 1 SCREWS 12"ON CENTER
2. FASTEN GUTTER HANGER WITH (2) #10x3/4" TEK 2 SCREWS. ALTERNATE WITH STAYS AND FASTEN EXTERIOR FACE TO GUTTER. DO NOT SCREW TO BOTTOM OF GUTTER.
3. SECURE GUTTER STAY WITH (2) #8x3/4" TEK 1 SCREWS INTO INSULATED METAL PANEL CAP THROUGH GUTTER.
4. FASTEN ALUMINUM FLASHING WITH #8x3/4" TEK 1 SCREWS AT 12" ON CENTER. SET FASTENERS MINIMUM 2" FROM EXTERIOR.
5. FASTEN HANGAR BRACKETS WITH FAB-LOKS, (2) PER BRACKET; SPACE BRACKETS AT 5'-0" ON CENTER
6. SEE DETAILS R-1 ROOF EDGE DETAIL.
7. GUTTER HANGAR GAUGE AND SPACING AS REQUIRED FOR AREAS SUBJECT TO ICE AND SNOW LOADS'.
8. SECURE 20 GA CHANNEL WITH #10x3/4" TEK 1 SCREWS.
9. CAULK PANEL CAP WITH APPROVED POLYURETHANE OR ELASTOMERIC SEALANT IN ALL COLD STORAGE AND FREEZER LOCATIONS.



NOTES:
1. ANCHOR BAR WITH 12-14x1-1/4" HWH TEK 2 FASTENERS.
2. SEE DETAILS R-1 FOR ROOF EDGE DETAIL.
3. SECURE 20 GA CHANNEL WITH #10x3/4" TEK 1 SCREWS.
4. CAULK PANEL CAP TO OUTER WALL SURFACE WITH APPROVED POLYURETHANE OR ELASTOMERIC SEALANT IN ALL COLD STORAGE AND FREEZER LOCATIONS. PANEL CAP JOINTS ALSO TO BE SEALED.

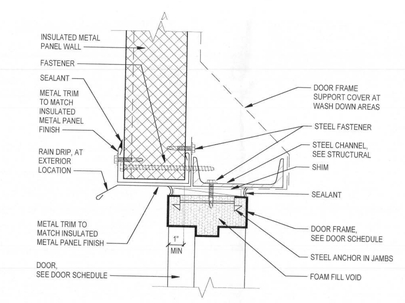
PREFERRED

D5 EXTERIOR IMP WALL @ROOF EDGE
SCALE: 3" = 1'-0" SHALLOW FLUTED EXTERIOR PANELS - COLD/EXTERIOR R:2

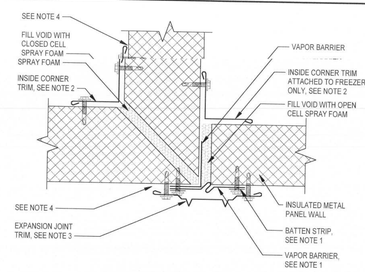


NOTES:
1. APPLY (2) BEADS OF BUTYL SEALANT INSIDE BASE CHANNEL. SET BASE CHANNEL ON TOP OF (2) BEADS OF BUTYL SEALANT.
2. BASE CHANNEL MUST BE FASTENED WITH 1/4"x1-1/4" ZAMAC AT 24" ON CENTER.
3. PANEL BASE TRIM IS SUPPLIED IN THE SAME GUIAGE AND COLOR AS INSULATED METAL PANEL SKIN. FASTEN WITH #10x3/4" TEK SCREWS AT 12" ON CENTER
4. EDGE OF STEM WALL SHOULD BE REGRESSED MINIMUM 1 1/2" BELOW FINISH FLOOR FOR INSULATED METAL PANEL BASE CHANNEL.

C3 SILL AT EXTERIOR DETAIL
SCALE: NOT TO SCALE DR.6.1

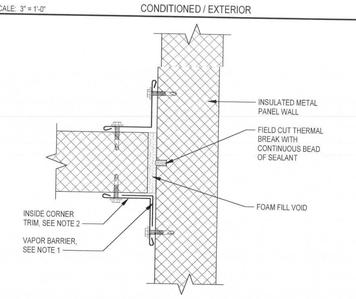


C4 ROOF EXPANSION JOINT AT HIGH IMP WALL
SCALE: 3" = 1'-0" COLD/ EXTERIOR R:13



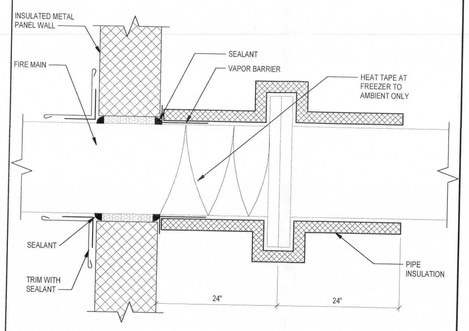
NOTES:
1. INSTALL VAPOR BARRIER FLASHING WITH SLACK TO ALLOW FOR EXPANSION MOVEMENT BETWEEN PANELS. SECUE VAPOR BARRIER WITH 1" WIDE 16 GAUGE GALVANIZED BATTEN STRIP SECURED WITH #10x3/4" TEK.
2. CORNER TRIM IS SUPPLIED IN THE SAME GAUGE AND COLOR AS INSULATED METAL PANEL SKIN. FASTEN WITH #10x3/4" TEK SCREWS AT 12" ON CENTER
3. EXPANSION TRIM IS SUPPLIED IN THE SAME GAUGE AND COLOR AS INSULATED METAL PANEL SKIN. FASTEN WITH #14x7/8" LAP SCREWS AT 12"ON CENTER
4. DO NOT CAULK TRIM IN NON-WASH DOWN AREAS OR JUST STORAGE FACILITIES.

C5 IMP WALL AT FINISHED FLOOR DETAIL
SCALE: 3" = 1'-0" CONDITIONED / EXTERIOR F:4

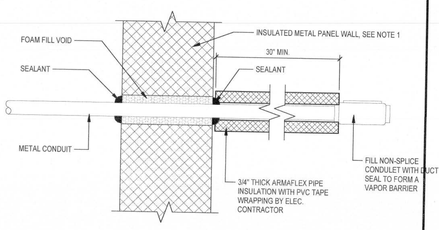


NOTES:
1. APPLY VAPOR BARRIER TO WARM SIDE OF INSULATED METAL PANEL. IF BOTH SIDES OF WALL ARE SAME TEMPERATURES A VAPOR BARRIER IS NOT NEEDED.
2. CORNER TRIM IS SUPPLIED IN THE SAME GAUGE AND COLOR AS INSULATED METAL PANEL SKIN. FASTEN WITH #10x3/4" TEK SCREWS AT 12" ON CENTER
3. DO NOT CAULK TRIM IN NON-WASH DOWN AREAS OR JUST STORAGE FACILITIES.

B3 RECESSED FRAME HEAD AND JAMB
SCALE: 3" = 1'-0" COLD/WARM D:16

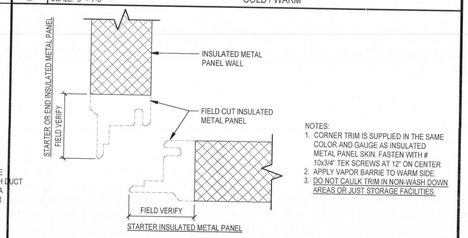


B4 IMP WALL AT FREEZER CORNER W/ EXPANSION JOINT
SCALE: 3" = 1'-0" COLD/WARM W:7

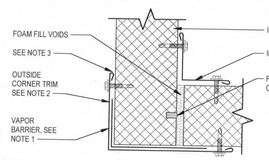


NOTES:
1. CAULKING AND SEALING SHALL MAINTAIN VAPOR BARRIER CONTINUITY OF INSULATED METAL PANEL.
2. PENETRATION SHALL BE DRILLED AFTER CONDUIT IS INSTALLED AND PROPERLY SUPPORTED ON EACH SIDE OF WALL, REMAINGN VOIDS SHAL BE FILLED COMPLETELY WITH APPROVED SEALANT.

B5 IMP WALL INTERSECTION DETAIL
SCALE: 3" = 1'-0" COLD / WARM W:4



NOTES:
1. CORNER TRIM IS SUPPLIED IN THE SAME COLOR AND GAUGE AS INSULATED METAL PANEL SKIN. FASTEN WITH # 10x3/4" TEK SCREWS AT 12" ON CENTER
2. APPLY VAPOR BARRIE TO WARM SIDE.
3. DO NOT CAULK TRIM IN NON-WASH DOWN AREAS OR JUST STORAGE FACILITIES.



A3 FIRE SPRINKLER PENETRATION @ IMP WALL
SCALE: 3" = 1'-0" COLD/WARM F:4

A4 CONDUIT PENETRATION DETAIL
SCALE: 3" = 1'-0" COLD/WARM F:3

A5 IMP WALL CORNER DETAIL
SCALE: 3" = 1'-0" ALL APPLICATIONS W:5

OWNER

UNITED STATES COLD STORAGE

PROJECT INFORMATION

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SEAL

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CONSULTANT

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REVISIONS

NO.	DESCRIPTION	DATE
1	CONSTRUCTION ISSUE	07/18/2022

DATE ISSUED:	07/18/2022
DESIGNED BY:	PEJ
REVIEWED BY:	PEJ
A/EOR:	JFM
PROJECT NUMBER:	07329

SHEET TITLE

IMP DETAILS

SHEET ID

S5101

CONSTRUCTION ISSUE

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