PROPOSED INSTRUCTIONS FOR:

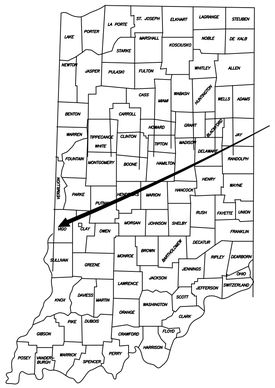
HAPPINESS BAG
NEW FACILITIES

3833 UNION ROAD
TERRE HAUTE, INDIANA 47802

PROJECT INFO.

PROJECT ADDRESS	3833 UNION ROAD TERRE HAUTE, INDIANA 47802
PROJECT DESCRIPTION	NEW OFFICES AND LEARNING CENTER
PLANNED SQ. FOOTAGE	11,213 SF - MAIN STRUCTURE 712 SF - DRIVE UNDER CANOPY 1,200 SF - CONNECTING VESTIBULE
CONSTRUCTION TYPE	TYPE II-B
OCCUPANCY	I-4, INSTITUTIONAL GROUP
NOTES:	FULLY SPRINKLERED

VICINITY MAP



CONTACT INFO

OWNER:

HAPPINESS BAG
3833 UNION AVENUE
TERRE HAUTE, IN 47802
PHONE: 812.234.8867
E-MAIL: jodi.moan@happinessbag.org
CONTACT: Jodi Moan

CONTRACTOR:

EARL C. RODGERS AND ASSOCIATES
205 National Avenue
West Terre Haute, IN 47885
PHONE: 812.533.12161
E-MAIL: m@ecrodgers.com
CONTACT: Michael Shaw

ARCHITECT:

HOLDER DESIGN, INC
929 Beech Avenue
Pittsburgh, PA 15233
PHONE: 812.249.5977
E-MAIL: mholder@holderdesign.net
CONTACT: Matthew L. Holder AIA

MEP ENG.:

R.E. DIMOND AND ASSOCIATES, INC.
732 North Capitol Avenue
Indianapolis, IN 46204
PHONE: 317.634.4672
E-MAIL: dale.warner@redimond.com
CONTACT: Dale Warner

STRCT. ENG.:

MIDWEST DESIGN GROUP
6205 Rucker Road
Indianapolis, IN 46220
PHONE: 317.559.3663
E-MAIL: dswanson@midwest-designgroup.com
CONTACT: Daniel Swanson, PE

CIVIL ENG.:

HWC Engineering
601 South 3rd Street
Terre Haute, IN 47807
PHONE: 812.514.5014
E-MAIL: cshipley@hwcengineering.com
CONTACT: Conner Shipley, PE

BUILDING CODES:

GENERAL ADMINISTRATIVE RULES: (675-IAC-12)

INDIANA BUILDING CODE, 2014 EDITION: (675-IAC-13-2.6 IBC) BASED ON; 2012 INTERNATIONAL BUILDING CODE (1ST PRINTING), ANSI A117.1-2009, WITH INDIANA AMENDMENT, EFFECTIVE DECEMBER 1, 2014

INDIANA RESIDENTIAL CODE 2005 EDITION: (675-IAC-14-4.3) BASED ON: 2003 INTERNATIONAL RESIDENTIAL CODE, WITH INDIANA AMENDMENTS, EFFECTIVE APRIL 15, 2012

INDUSTRIALIZED BUILDING SYSTEMS: (675-IAC-15-1.1 THROUGH 15-1.7) EFFECTIVE SEPTEMBER 17, 2005

INDIANA PLUMBING CODE 2012 EDITION: (675-IAC-16-1.4P) BASED ON: 2006 INTERNATIONAL PLUMBING CODE WITH INDIANA AMENDMENTS, EFFECTIVE DECEMBER 24, 2012

INDIANA ELECTRICAL CODE 2009 EDITION: (675-IAC-17-1.8 IEC) BASED ON: 2008 NATIONAL ELECTRICAL CODE (1ST PRINTING) WITH INDIANA AMENDMENTS, EFFECTIVE AUGUST 26, 2009

INDIANA MECHANICAL CODE 2014 EDITION: (675-IAC-18-1.6 IMC) BASED ON: 2012 INTERNATIONAL MECHANICAL CODE (1ST PRINTING) WITH INDIANA AMENDMENTS, EFFECTIVE DECEMBER 1, 2014

INDIANA ENERGY CONSERVATION CODE 2010, (675 IAC 19-4), (ASHRAE 90.1 2007 EDITION, AS AMENDED)

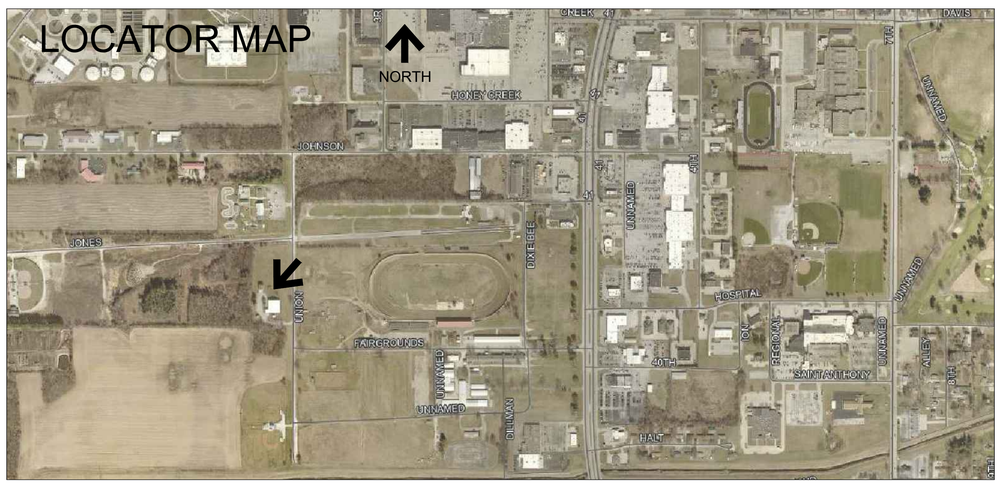
INDIANA SAFETY CODE FOR ELEVATORS, ESCALATORS, MAN LIFTS AND HOISTS; (675-IAC-21-11-2 SCEEMH) BASED ON: AUTOMATED PEOPLE MOVER-PART 1, PART 2, AND PART 3, ANSI/ASCE/T &DI 21-08, AS AMENDED EFFECTIVE APRIL 13, 2011

INDIANA FIRE PREVENTION CODE: (675-IAC-22-2.5 IFC) BASED ON: 2012 INTERNATIONAL FIRE CODE, (1ST PRINTING) WITH INDIANA AMENDMENTS, EFFECTIVE DECEMBER 1, 2014.

INDIANA SUPPLEMENTARY FIRE SAFETY RULES: (675-IAC-24-1 SFSR) EFFECTIVE OCTOBER 11, 2001

INDIANA FUEL GAS CODE 2014: (675-IAC-25-3 IFGC) BASED ON: 2012 INTERNATIONAL FUEL GAS CODE (2ND PRINTING), WITH INDIANA AMENDMENTS, EFFECTIVE DECEMBER 1, 2014

LOCATOR MAP



GENERAL NOTES:

1. G.C. (GENERAL CONTRACTOR) SHALL REVIEW ALL DOCUMENTS AND FIELD VERIFY ALL DIMENSION AND CONDITIONS AND SHALL CONFIRM THAT WORK IS BUILDABLE AS SHOWN. ANY DISCREPANCIES OR OMISSIONS, ETC... SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY FOR CLARIFICATION PRIOR TO BEGINNING WORK RELATED THERETO.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF APPLICABLE STATE AND/OR LOCAL CODES , LAWS, ORDINANCES, STATUTES AND REGULATIONS. NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED AS REQUIRING OR PERMITTING WORK CONTRARY TO THESE RULES, REGULATIONS AND CODES. REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS AND APPLICABLE REGULATIONS TO ARCHITECT IMMEDIATELY.
3. THE DRAWINGS INDICATE LOCATIONS, DIMENSIONS, AND TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT ILLUSTRATE EVERY CONDITION. WORK NOT EXPLICITLY DETAILED IS ASSUMED TO BE OF CONSTRUCTION SIMILAR TO PARTS THAT ARE DETAILED. G.C. SHALL REPORT ANY DISCREPANCIES DISCOVERED TO THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH WORK.
4. ALL DIMENSIONS SHOWN IN DRAWING ARE BASED ON SPECIFIED MATERIALS AND EQUIPMENT. ANY CHANGES OR SUBSTITUTIONS MAY AFFECT DIMENSIONS. G.C. TO NOTIFY ARCHITECT BEFORE MAKING CHANGES.
5. G.C. TO COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE-PROTECTION CONTRACTORS. G.C. SHALL SUBMIT ALL DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
6. THE G.C SHALL COORDINATE AND COOPERATE WITH THE WORK OF SEPARATE CONTRACTORS.
7. G.C. SHALL PROVIDE ALL SHOP DRAWINGS FOR FABRICATED ITEMS, CATALOG CUTS FOR ALL FIXTURES AND EQUIPMENT, AND SAMPLES OF AL FINISHES SPECIFIED TO THE ARCHITECT FOR APPROVAL THREE (3) WEEKS PRIOR TO FABRICATION AND/OR PURCHASING.
8. ALL FIRE RESISTIVE ASSEMBLIES SHALL BE MAINTAINED AT ALL MECHANICAL, ELECTRICAL, AND PLUMBING WALL PENETRATIONS THROUGH THE USE OF FIRE STOP MATERIAL AT THESE LOCATIONS USING THE APPROPRIATE FIRE RATED ASSEMBLIES.

DRAWING INDEX:

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL 811 OR 1-800-382-5544
48 HOURS BEFORE DIGGING

HOLDERDESIGN, INC.
929 Beech Avenue
Pittsburgh, Pennsylvania
15233
ph. 812.249.5977
www.holderdesign.net

SCOPE DOCUMENT

THE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPT, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. AS SCOPE DOCUMENTS, THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK THAT IS REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE TRADE CONTRACTORS SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

MATTHEW LYNN HOLDER
REGISTERED
No 10300133
STATE OF
INDIANA
ARCHITECT

09/03/24

THE SEAL(S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED AND WE EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE PROJECT.

DRAWN BY:
CHECKED BY: MLH
PLOT SCALE: AS NOTED
DATE: 08.02.2024

PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: COVER SHEET

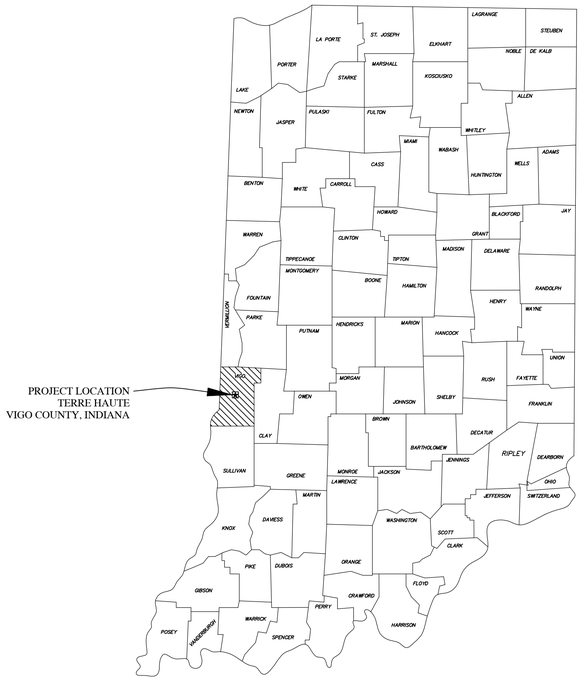
REVISIONS
1 ADDENDUM X - 00.00.2024

SHEET NO.
A0.0

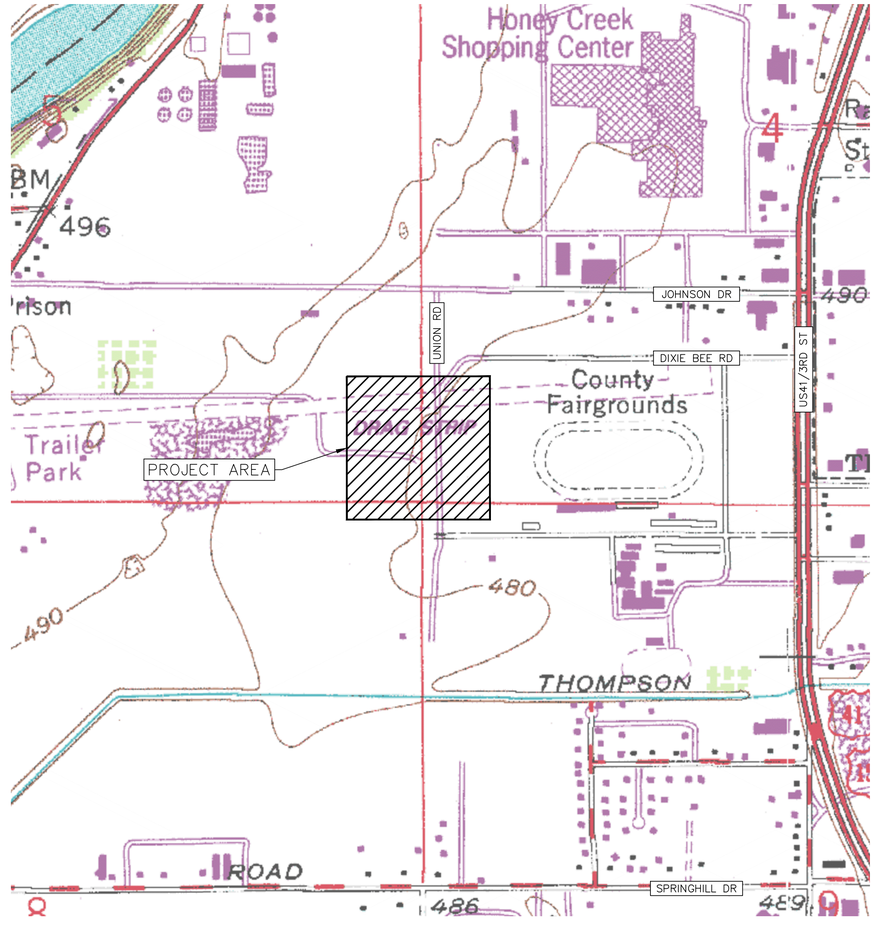
JOB NO.
A24-006

HOLDER DESIGN
HAPPINESS BAG
AUGUST 2024

3833 UNION ROAD
TERRE HAUTE, IN 47802



Area Location Map



Site Location Map: Terre Haute, Indiana
SCALE: 1" = 500'

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CONNER A. SHIPLEY, P.E. NO. PE12300884 AUGUST 26, 2024
DATE

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HOLDER DESIGN
HAPPINESS BAG

AUGUST 2024
Job # 2024-083

Set #

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GENERAL NOTES

1. THE INFORMATION PROVIDED IN THESE DOCUMENTS IS NOT INTENDED TO BE A LEGAL SURVEY.
2. PERSONS USING THESE DRAWINGS SHALL CONTACT LOCAL UTILITY COMPANIES FOR EXACT LOCATIONS OF UNDERGROUND UTILITIES.
3. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. THE OPTION OF THE OWNER AND OR ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS, REQUIREMENTS, SAFETY MEETING REQUIREMENTS AND AGENCY REQUIREMENTS FOR TRAFFIC CONTROL AND SAFETY PRECAUTIONS. THERE WILL BE NO SEPARATE OR ADDITIONAL PAYMENT FOR THIS WORK.
4. ALL COSTS REQUIRED TO CONSTRUCT THE WORK AS GENERALLY INTENDED AND SPECIFIED HEREIN SHALL BE CONSIDERED AND COMPENSATED FOR BY THE CONTRACTOR IN HIS PROPOSAL. NO ADDITIONAL PAYMENT WILL BE CONSIDERED FOR CONTRACTOR'S FAILURE TO MAKE SUCH CONSIDERATION.
5. ALL MATERIALS SHALL BE IN STRICT COMPLIANCE WITH INDOT STANDARDS AND SPECIFICATIONS (LATEST EDITION AT TIME OF CONSTRUCTION), UNLESS OTHERWISE INDICATED.
6. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF PERMITS AND AGENCY REQUIREMENTS, HEREIN MADE PART OF THE CONTRACT DOCUMENTS BY REFERENCE.
7. CONTRACTOR SHALL AT MINIMUM, PROVIDE TRAFFIC CONTROL AS REQUIRED TO SAFELY PROTECT THE GENERAL PUBLIC, THE CONTRACTOR'S WORK FORCES AND THE WORK. TRAFFIC CONTROL SHALL CONFORM TO INDOT REQUIREMENTS. THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
8. EXTRA WORK DONE WITHOUT AUTHORITY OR ANY OTHER WORK WHICH FAILS TO COMPLY WITH THE CONTRACT DOCUMENTS WILL BE CONSIDERED UNAUTHORIZED AND AT THE EXPENSE OF THE CONTRACTOR, AND WILL NOT BE PAID FOR BY THE OWNER.
9. NOT ALL UTILITIES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. ALL LOCATIONS, SIZES AND ELEVATIONS SHOWN ARE APPROXIMATE AND HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION
10. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR PROTECTING ALL UTILITIES WHETHER SHOWN OR NOT.
11. ALL EXISTING UTILITIES ENCOUNTERED IN THE WORK, WHETHER IN PUBLIC RIGHTS OF WAY OR ON PRIVATE PROPERTY, SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN IN SERVICE.
12. ADJUST LOCATIONS AS REQUIRED TO MISS EXISTING UTILITIES, SUBJECT TO COORDINATION AND APPROVAL OF AUTHORIZED OWNER REPRESENTATIVE.
13. WHERE PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS OR BENCH MARKS, SUCH AS STONES, PIPES, OR OTHER SUCH MONUMENTS ARE ENCOUNTERED AND CONFLICT WITH THE WORK, THE ENGINEER SHALL BE NOTIFIED BEFORE THEY ARE DISTURBED, THE MARKERS SHALL BE PROTECTED AFTER THE OWNER, ENGINEER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR REFERENCED THEIR LOCATIONS.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL MEASURES TO THE SATISFACTION OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE VIGO COUNTY SOIL AND WATER CONSERVATION DISTRICT. THERE SHALL BE NO SEPARATE OR ADDITIONAL PAYMENT FOR THIS WORK. THE CONTRACTOR SHALL ENSURE ALL REQUIRED PERMITS ARE IN PLACE PRIOR TO CONSTRUCTION.
15. CONTRACTOR SHALL LOCATE IMPROVEMENTS NOT SPECIFIED BY DIMENSION OR SCALE, WITH AUTHORIZED OWNER REPRESENTATIVE.
16. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS AND CHECK ALL DIMENSIONS NECESSARY FOR THE PROPER INSTALLATION OF THE WORK SHOWN ON THE DRAWINGS AND/OR NOTED WITHIN THE SPECIFICATIONS, AND DURING THE PROSECUTION OF THE WORK.
17. NO ONSITE MATERIAL TO BE REMOVED UNLESS APPROVED BY AUTHORIZED OWNERS REPRESENTATIVE.
18. IN GREEN SPACE AREAS WHERE PROPOSED SPOT ELEVATIONS ARE NOT GIVEN, CONTRACTOR SHALL GRADE TO BLEND WITH SURROUNDING EXISTING AND PROPOSED FEATURES.
19. CUT AND FILL TO GRADES SPECIFIED.
20. ALL AREAS WITHIN LIMITS OF WORK BY CONTRACTOR SHALL BE CONSIDERED GRASS AREAS UNLESS OTHERWISE SPECIFIED.
21. PLACE MINIMUM 4" TOPSOIL IN ALL DISTURBED GRASS AREAS, SEED, FERTILIZE, STRAW AND MAINTAIN UNTIL GROWTH IS ESTABLISHED.
22. EXISTING UNDERGROUND PIPE LOCATIONS, SIZES AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND COMPENSATE ACCORDINGLY IN HIS BID. ADJUST LOCATIONS OF NEW PIPES AS REQUIRED TO MISS EXISTING UTILITIES, SUBJECT TO COORDINATION AND APPROVAL OF AUTHORIZED OWNER REPRESENTATIVE.
23. CONTRACTOR OR OTHER TO COMPLETE STANDARD OR MODIFIED PROCTOR TEST RESULTS SHOWING COMPLIANCE WITH COMPACTION REQUIREMENTS.

LEGEND

EXISTING		PROPOSED
	SECTION LINE	N/A
	PROPERTY LINE	
	LOT LINE	
	RIGHT-OF-WAY LINE	
	EASEMENT LINE	
	SETBACK LINE	
	CENTERLINE	
	SWALE/FLOWLINE	
	TREE LINE	
X X X X	FENCE	X X X X
800	CONTOUR, MAJOR	800
799	CONTOUR, MINOR	799
C	CABLE SERVICE	C
FO	FIBER OPTIC LINE	FO
E	ELECTRIC SERVICE	E
OHE	OVERHEAD ELECTRIC	OHE
T	TELEPHONE SERVICE	T
OHT	OVERHEAD TELEPHONE	OHT
G	GAS MAIN	G
S	SANITARY SEWER	S
FM	SANITARY FORCE MAIN	FM
ST	STORM SEWER	ST
ST	STORM CULVERT	ST
	SUBSURFACE DRAIN	
W	WATER MAIN	W
	CONSTRUCTION LIMITS	
	PROFILED LINE	S
	DIRECTIONAL BORE	S
	JACK & BORE	S

	– ASPHALT –
	– CONCRETE –
	– STONE –
	RIP RAP –

SYMBOLS

EXISTING		PROPOSED
	BENCHMARK	
	IRON PIN	
	NAIL	
	STAR SPIKE	
	5/8" CAPPED REBAR	
	SECTION CORNER	
	RIGHT-OF-WAY MARKER	
	SOIL BORING LOCATION	
	MISCELLANEOUS OBJECT	
MB	MAIL BOX	MB
	SIGN	
	TREE	
	SHRUB	
XXX.XX	SPOT ELEVATION	XXX.XX
	PAVEMENT ELEVATION	XXX.XX
	LIGHT POLE	
	UTILITY POLE	N/A
	GUY ANCHOR	N/A
	TRAFFIC POLE	N/A
TRAFFIC	TRAFFIC SIGNAL BOX	N/A
TRANS	ELECTRIC TRANSFORMER	TRANS
E	ELECTRIC BOX	N/A
	HANDHOLE	N/A
	SPLICE BOX	N/A
C	CABLE BOX	N/A
FO	FIBER OPTIC MANHOLE	N/A
T	TELEPHONE MANHOLE	N/A
T	TELEPHONE PEDESTAL	N/A
	GAS VALVE	
G	GAS METER	G
	FIRE HYDRANT	
W	WATER METER	W
	WATER VALVE	
	WATER F.D.C.	
N/A	WATER FITTINGS	
SAN STR #	SANITARY MANHOLE	XXX
	AIR VALVE RELIEF	
CO	CLEANOUT	XXX
SEPTIC	SEPTIC TANK	N/A
STM STR #	STORM MANHOLE	XXX
STM STR #	STORM INLET	XXX
STM STR #	STORM END SECTION	

SHEET INDEX	
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Proposed Drainage & Utility Plan	Sheet C3
Proposed Water Main Plan & Profile	Sheet PP1
Miscellaneous Details	Sheet DT1
Erosion Control Plan	Sheet EC1
Erosion Control Details	Sheet EC2
SWPPP Notes	Sheet EC3
SWPPP Notes	Sheet EC4

Project Location Key Map
SCALE: 1" = 200'

CITY OF TERRE HAUTE

ELECTRIC:
DUKE ENERGY
301 HOME AVENUE
TERRE HAUTE, IN 47803
(812) 231-6783

GAS:
VECTREN ENERGY DELIVERY
P.O. BOX 1647
TERRE HAUTE, IN 47808
(812) 231-6303

SEWER:
CITY ENGINEER
17 HARDING AVENUE
TERRE HAUTE, IN 47807
(812) 232-4028

WATER:
INDIANA AMERICAN WATER
51 LOCUST STREET
TERRE HAUTE, IN 47807
(812) 232-1400

TELEPHONE:
FRONTIER COMMUNICATIONS
711 POPLAR STREET
TERRE HAUTE, IN 47807
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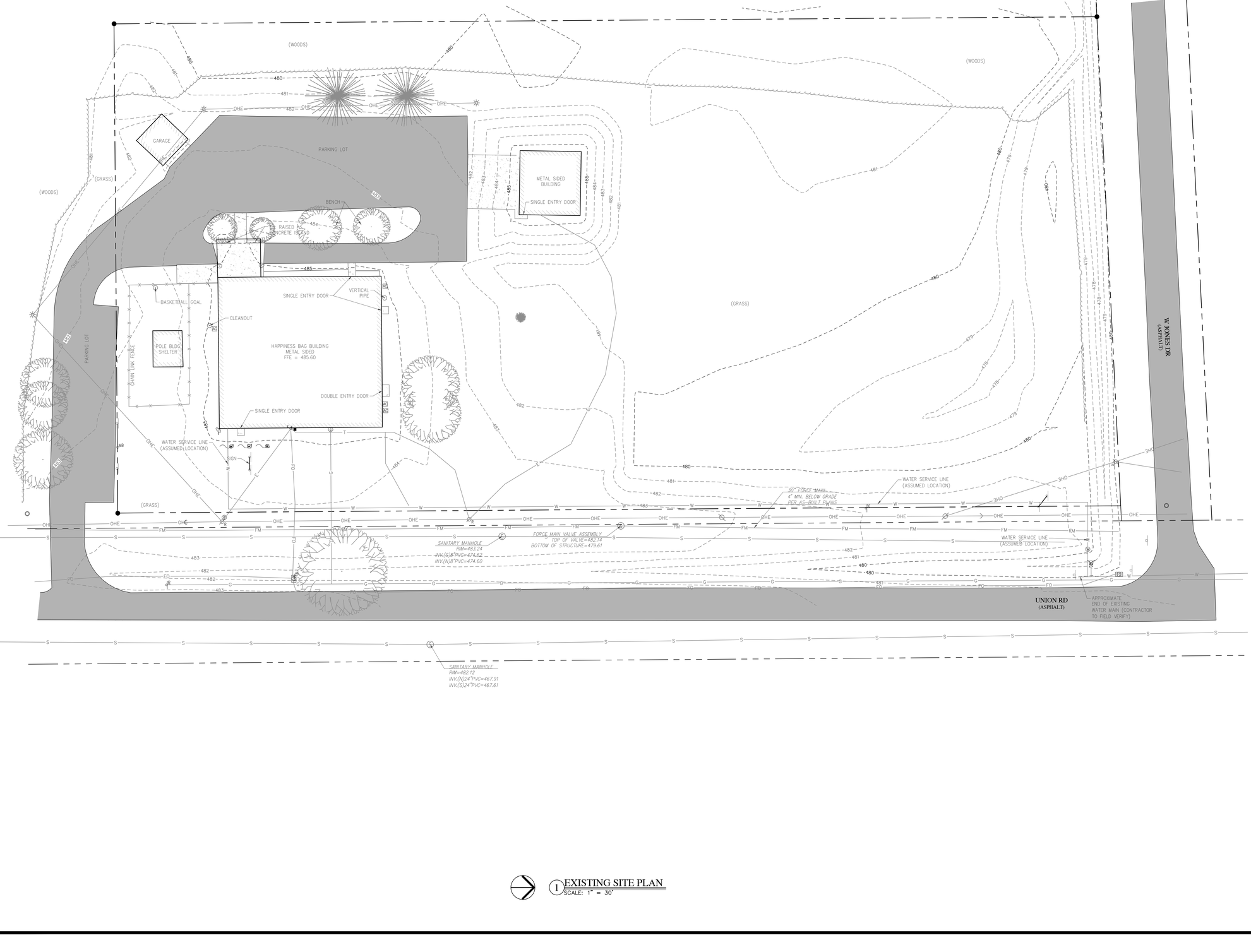
HAPPINESS BAG

GENERAL NOTES, SHEET INDEX, & LEGEND

CONNER A. SHIPLEY
REGISTERED
No. PE12300884
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY	JOB NUMBER
CAS	2024-083
CHECKED BY	
CS	
DATE	
AUGUST 26, 2024	
SCALE	
AS SHOWN	

SHEET
G2
GENERAL NOTES, SHEET INDEX, & LEGEND



1 EXISTING SITE PLAN
SCALE: 1" = 30'

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EXISTING SITE PLAN

CONNER A. SHIPLEY
REGISTERED
No.PE12300884
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DRAWN BY	
CAS	
CHECKED BY	
CS	
DATE	JOB NUMBER
AUGUST 26, 2024	2024-083
SCALE	
AS SHOWN	

SHEET

C1

EXISTING SITE PLAN

GENERAL NOTES:

1. RIGHT-OF-WAY LIMITS ARE APPROXIMATE.
2. PROTECT EXISTING UTILITIES INCLUDING DROPS, POLES, AND UNDERGROUND FEATURES NOT LOCATED BY NOTATION OR SCALE.
3. CONTRACTOR SHALL NOT ENCROACH ON ADJACENT PROPERTY WITHOUT ADJACENT OWNER CONSENT.
4. COORDINATE UTILITY SHUTDOWNS WITH ADJACENT PROPERTY OWNERS, IF AFFECTED.
5. EXISTING CONTOURS=SHORT DASHED LINES
   PROPOSED CONTOURS=SOLID LINES
6. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
   SIDEWALK RUNNING SLOPE SHALL NOT EXCEED 8.33%.
7. NEW BUILDING FINISHED FLOOR ELEVATION MUST MATCH FINISHED FLOOR ELEVATION OF EXISTING BUILDING.
8. MATCH EXISTING GRADE AT PROPOSED DRIVE APPROACHES.
9. INSTALL PERMANENT SEEDING AND STRAW UPON CONSTRUCTION COMPLETION.
10. ALL PERMANENT STRUCTURES MUST BE LOCATED AT AN ELEVATION 2 FEET ABOVE BASE FLOOD ELEVATION (BFE). THE APPROXIMATE BFE AS DETERMINED BY DNR IS 483.2 FEET.
11. ALL FILL ASSOCIATED WITH THE NEW BUILDING SHALL EXTEND 10 FEET BEYOND THE FOUNDATION PRIOR TO SLOPING BELOW THE BFE.
12. FILL SHALL BE PLACED IN LAYERS NO GREATER THAN 1 FOOT DEEP BEFORE COMPACTING TO 95% OF THE MAXIMUM DENSITY OBTAINABLE WITH EITHER THE STANDARD OR MODIFIED PROCTOR TEST METHOD. THE RESULTS OF THE TEST SHOWING COMPLIANCE SHALL BE RETAINED IN THE PERMIT FILE.
13. FILL SHALL BE COMPOSED OF CLEAN GRANULAR OR EARTHEN MATERIAL.

CONSTRUCTION NOTES:

1. NEW 5' CONCRETE SIDEWALK
2. NEW ASPHALT ROADWAY
3. NEW DUMPSTER PAD ENCLOSURE
4. REMOVE TREE
5. NEW 8' CONCRETE SIDEWALK

PROPOSED SITE LAYOUT & GRADING PLAN
1 SCALE: 1" = 30'

REVISIONS		
DATE	DESCRIPTION	BY

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HAPPINESS BAG

PROPOSED SITE LAYOUT & GRADING PLAN

CONNER A. SHIPLEY
REGISTERED
No.PE12300884
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY	
CAS	
CHECKED BY	JOB NUMBER
CS	2024-083
DATE	
AUGUST 26, 2024	
SCALE	
AS SHOWN	

SHEET

C2

PROPOSED SITE LAYOUT & GRADING PLAN

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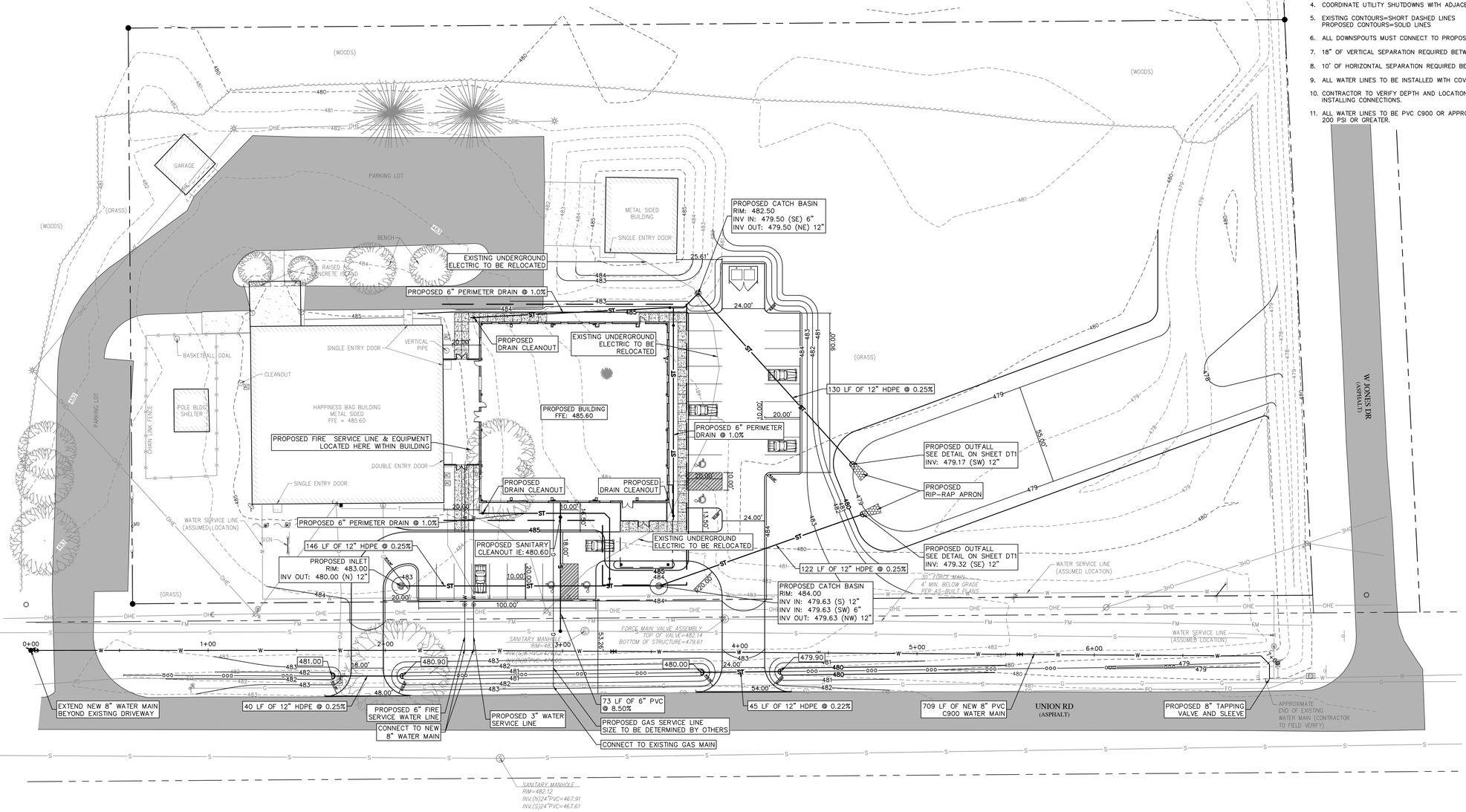
GENERAL NOTES:

1. RIGHT-OF-WAY LIMITS ARE APPROXIMATE.
2. PROTECT EXISTING UTILITIES INCLUDING DROPS, POLES, AND UNDERGROUND FEATURES NOT LOCATED BY NOTATION OR SCALE.
3. CONTRACTOR SHALL NOT ENCROACH ON ADJACENT PROPERTY WITHOUT ADJACENT OWNER CONSENT AND AN AGREEMENT ESTABLISHED.
4. COORDINATE UTILITY SHUTDOWNS WITH ADJACENT PROPERTY OWNERS, IF AFFECTED.
5. EXISTING CONTOURS=SHORT DASHED LINES
   PROPOSED CONTOURS=SOLID LINES
6. ALL DOWNSPOUTS MUST CONNECT TO PROPOSED PERIMETER DRAIN..
7. 18" OF VERTICAL SEPARATION REQUIRED BETWEEN WATER AND SEWER UTILITIES.
8. 10' OF HORIZONTAL SEPARATION REQUIRED BETWEEN WATER AND SEWER UTILITIES.
9. ALL WATER LINES TO BE INSTALLED WITH COVER OF AT LEAST 60"
10. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO INSTALLING CONNECTIONS.
11. ALL WATER LINES TO BE PVC C900 OR APPROVED EQUAL WITH A PRESSURE RATING OF 200 PSI OR GREATER.



1 PROPOSED DRAINAGE & UTILITY PLAN
SCALE: 1" = 30'

REVISIONS		
DATE	DESCRIPTION	BY

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HOLDER DESIGN
HAPPINESS BAG

PROPOSED DRAINAGE & UTILITY PLAN

CONNER A SHIPLEY
REGISTERED
No.PE12300884
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY CAS	JOB NUMBER 2024-083
CHECKED BY CS	
DATE AUGUST 26, 2024	
SCALE AS SHOWN	

SHEET
C3
PROPOSED DRAINAGE & UTILITY PLAN

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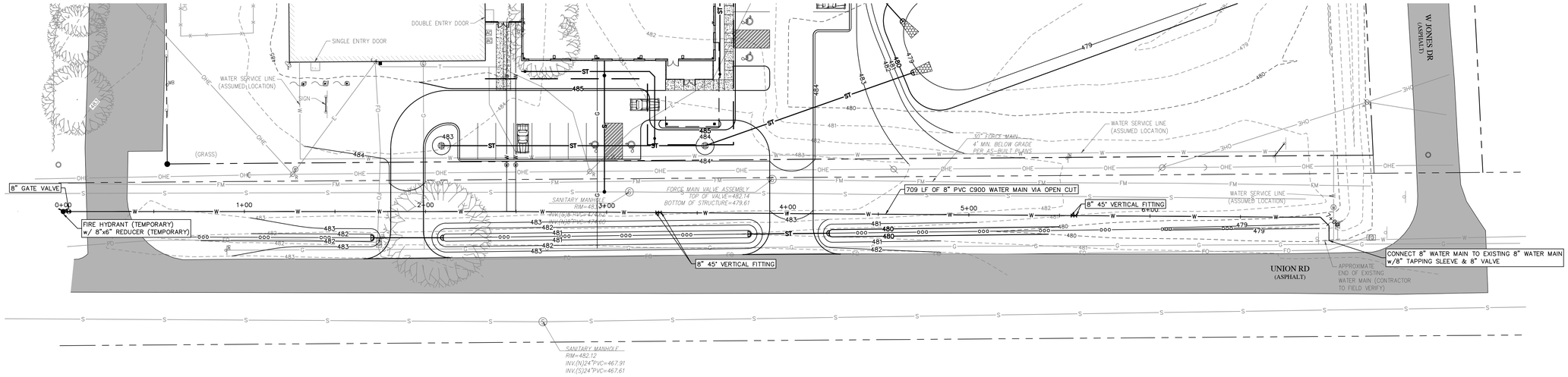


WATER UTILITY INSTALLATION NOTES:

1. INSTALLATION OF WATER MAIN, FITTINGS, VALVES, FIRE HYDRANTS, AND APPURTENANCES SHALL BE IN ACCORDANCE WITH INDIANA AMERICAN WATER STANDARDS AND SPECIFICATIONS, LATEST REVISION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION, SIZE, AND MATERIAL OF THE EXISTING WATER MAIN PRIOR TO CONSTRUCTION.
3. AT THE POINT OF CONNECTION TO EXISTING WATER MAINS, A TAPPING SLEEVE AND VALVE MAY BE REQUIRED TO BE INSTALLED IF THE EXISTING WATER MAIN CANNOT BE SHUT DOWN WITHOUT IMPACTING CUSTOMERS, TO BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.
4. FOR PVC C900 PIPE INSTALLATION: DR14 PIPE IS REQUIRED. DEFECTION OF PIPE JOINTS AND BENDING OF PIPES ARE NOT PERMITTED. ALL ANGLES SHALL BE MADE WITH PROPER FITTINGS. WHEN RESTRAINT OF PIPE-TO-PIPE JOINTS ARE REQUIRED, ALL JOINTS SHALL BE RESTRAINED WITH EXTERNAL SPLIT SERRATED RESTRAINT HARNESSES. SELECT FILL MATERIAL REQUIRED FOR BEDDING AND EMBEDMENT REGARDLESS OF PIPE'S PROXIMITY TO PAVEMENT. PVC C900 PIPE IS NOT ALLOWED FOR PIPES LARGER THAN 12-INCH.
5. FOR DUCTILE IRON PIPE INSTALLATION: THICKNESS CLASS 52 FOR TYPICAL DISTRIBUTION MAINS 12-INCH NOMINAL SIZE AND SMALLER. WHEN RESTRAINT OF PIPE-TO-PIPE JOINTS ARE REQUIRED, PUSH-ON RESTRAINING GASKETS WITH INTEGRAL STAINLESS STEEL LOCKING SEGMENTS ARE PERMITTED ON PIPE-TO-PIPE CONNECTIONS 12-INCH NOMINAL SIZE AND SMALLER ONLY. PIPE-TO-PIPE CONNECTIONS GREATER THAN 12-INCH NOMINAL SIZE SHALL BE RESTRAINED PER SPECIFICATION SECTION 15105.
6. FOR HDPE PIPE INSTALLATION: DIPS DR11 FOR SIZES 4 INCH AND LARGER, IPS DR9 FOR 3 INCH, AND CTS DR9 FOR SIZES SMALLER THAN 3 INCH. HDPE BENDS, TEES, AND CROSSES ARE NOT ACCEPTABLE. PRESSURE TESTING OF HDPE PIPE DIFFERS FROM DUCTILE IRON AND PVC PIPE, SEE SPECIFICATION SECTION 15030-3.03. PIPE FUSION MUST BE COMPLETED BY CERTIFIED TECHNICIAN; CERTIFICATION TO BE SUBMITTED PRIOR TO PRE-CONSTRUCTION MEETING.
7. ENCASE ALL DUCTILE IRON PIPING, DUCTILE IRON FITTINGS, VALVES, HYDRANTS, RESTRAINT HARNESSES, AND ALL OTHER METALLIC APPURTENANCES IN 12 MIL BLUE POLYETHYLENE.
8. ALL FIRE HYDRANTS SHALL BE DUCTILE IRON PIPE.
9. ALL MJ T-BOLTS AND FLANGE BOLTS SHALL BE XYLAN OR FLUOROKOTE #1 CORROSION RESISTANT COATING.
10. ALL FITTINGS SHALL BE RESTRAINED USING MJ RETAINER GLANDS.
11. THRUST RESTRAINT TO BE ACHIEVED THROUGH THE RESTRAINT OF PIPE JOINTS AND FITTINGS. THRUST BLOCKS ARE AN ACCEPTABLE MEANS OF THRUST RESTRAINT, EXCEPT WHEN REQUIRED IN CONNECTING TO EXISTING WATER MAIN AND FOR INSTALLATION OF FIRE HYDRANTS. SEE SPECIFICATION SECTIONS 15105 AND 15120 FOR PIPE JOINT RESTRAINT REQUIREMENTS FOR DUCTILE IRON AND PVC PIPE.
12. COPPER-CLAD STEEL TRACER WIRE REQUIRED ON INSTALLATION OF ALL PIPE. TRACER WIRE SHALL BE TAPED TO PIPE OR POLYETHYLENE ENCASEMENT AT A MINIMUM SPACING OF 10-FEET. SPLICES SHALL BE ENCASED IN WATERPROOF CONNECTORS. WIRE AND CONNECTORS ARE TO BE COMPATIBLE AND FROM THE SAME MANUFACTURER. DETECTABLE TAPE IS REQUIRED ONE FOOT ABOVE PIPE. CONTINUITY SHALL BE TESTED AFTER COMPLETION OF BACKFILL.
13. SELECT FILL MATERIAL REQUIRED FOR FINAL BACKFILL WHEN WITHIN 5-FEET OF PAVEMENT PER SPECIFICATION SECTION 02210.
14. MAINTAIN THE REQUIRED 10-FEET OF HORIZONTAL SEPARATION AND 18-INCHES OF VERTICAL SEPARATION FROM SANITARY AND STORM SEWERS. MAINTAIN 8-FEET HORIZONTAL SEPARATION FROM SANITARY AND STORM STRUCTURES. SEE 327 IAC 8-3.2-9 OF THE INDIANA ADMINISTRATIVE CODE FOR MORE INFORMATION.
15. MAINTAIN MINIMUM COVER DEPTH OF 60" AND A MAXIMUM OF 84".

GRAPHIC SCALE

0' 30' 60' 90'

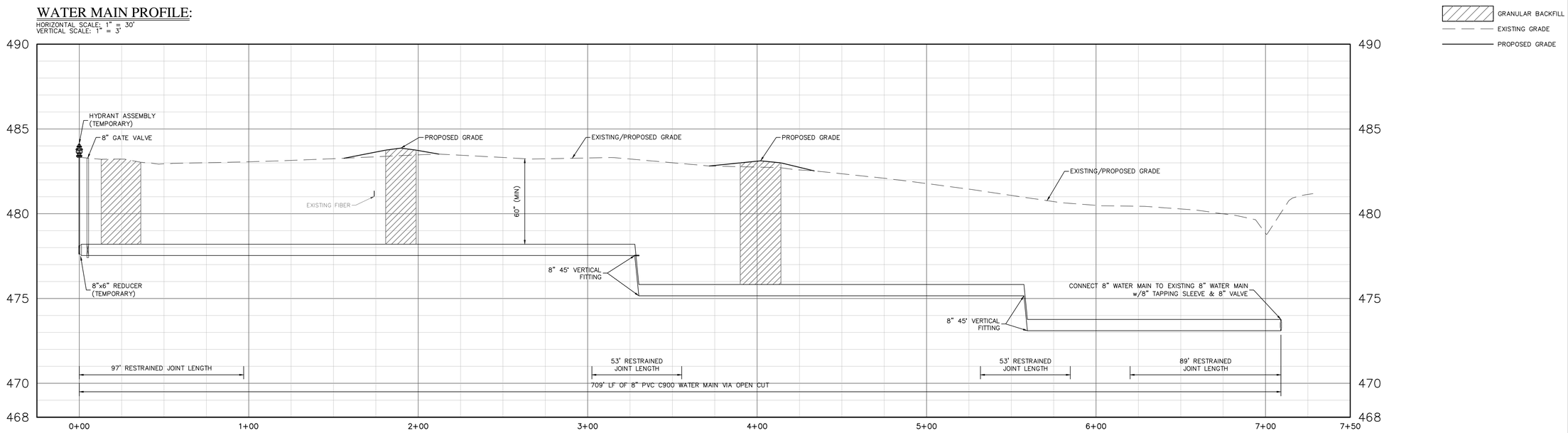
(IN FEET)

GENERAL NOTES:

1. NOT ALL CONSTRUCTION NOTES ARE APPLICABLE TO EVERY SHEET.
2. THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR SHALL CONFIRM UTILITY CROSSINGS AND RELOCATE WATER AND SANITARY UTILITIES AS NEEDED TO AVOID ELEVATION CONFLICTS WITH THE PROPOSED WORK. THE COST OF RELOCATION OR REPLACEMENT OF UTILITIES IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE COMPENSATED PER CONTRACTOR BID AMOUNT FOR EACH RESPECTIVE PAY ITEMS. CONCRETE CRADLES FOR SANITARY LATERALS ARE TO BE INCLUDED IN THE UNIT PRICE FOR PIPE INSTALLATION AND CONSIDERED INCIDENTAL. RELOCATION OF WATER MAINS AND SANITARY LATERALS ARE TO BE PRICED PER THE UNDISTRIBUTED BID PAYMENT ITEM AND SHOULD INCLUDE ALL ASSOCIATED COSTS FOR THE RELOCATION INCLUDING MATERIALS, LABOR, PAVEMENT, AGGREGATE, CONCRETE, AND RESTORATION. THE CONTRACTOR SHALL COORDINATE ALL RELOCATIONS WITH THE INSPECTOR AND APPROPRIATE UTILITY COMPANY OR THE TOWN.
3. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL STORM SEWERS AND STRUCTURES AS NECESSARY TO INSTALL NEW PIPE AND STRUCTURES AS SHOWN ON PLANS.
4. RIGHT-OF-WAY LIMITS ARE APPROXIMATE.
5. UTILITIES HAVE BEEN SHOWN BASED UPON BEST AVAILABLE INFORMATION FROM SURVEYS AND MAPS. CONTRACTOR SHALL FIELD VERIFY UTILITIES VIA VACUUM EXCAVATION/POTHOLING PRIOR TO CONSTRUCTION. SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. NO CHANGES FROM PLANS SHALL BE MADE WITHOUT ENGINEER APPROVAL.

WATER MAIN PROFILE:

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'



REVISIONS		
DATE	DESCRIPTION	BY

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HOLDER DESIGN
HAPPINESS BAG

PROPOSED WATER MAIN PLAN & PROFILE

CONNER A. SHIPLEY
REGISTERED
No.PE12300884
STATE OF INDIANA
PROFESSIONAL ENGINEER

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PP1

PROPOSED WATER MAIN PLAN & PROFILE

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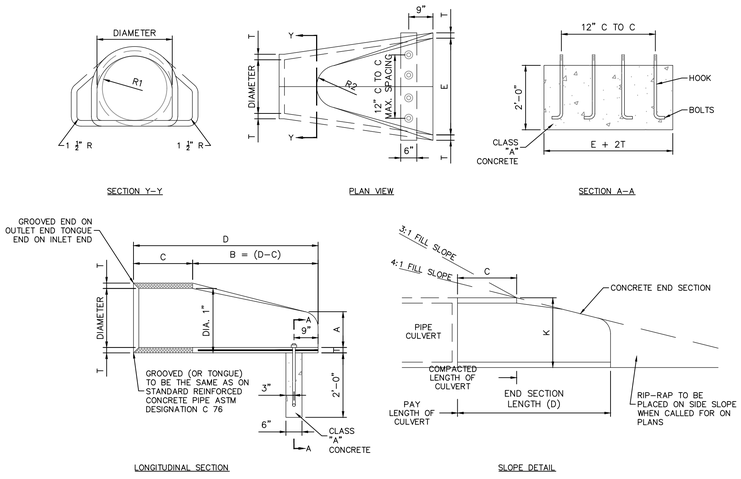


1 PRECAST CONCRETE END SECTION DETAILS
NO SCALE

DIA.	T (MIN.)	A x	C x	D x	E x	K	R1	R2	APPROX. WEIGHT
12"	2"	5"	4'–3"	6'–2"	2'–0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4'–0"	6'–3"	2'–6"	1.5	12 1/2"	11"	1100
18"	2 1/2"	11"	4'–1"	6'–2"	3'–0"	1.8	15 1/2"	12"	1300
21"	2 3/4"	11"	3'–6"	6'–3"	3'–6"	2.1	16 1/8"	13"	1500
24"	3"	1'–0"	2'–8"	6'–3"	4'–0"	2.3	16 3/16"	14"	1800
27"	3 1/4"	1'–1"	2'–5"	6'–3"	4'–6"	2.6	18 9/16"	14 1/2"	2100
30"	3 1/2"	1'–2"	1'–10"	6'–3"	5'–0"	2.9	18 1/2"	15"	2400
33"	3 3/4"	1'–3"	3'–6"	8'–3"	5'–6"	3.1	23 3/4"	17 1/2"	4100
36"	4"	1'–5"	3'–1"	8'–3"	6'–0"	3.4	24 5/16"	20"	4200
x TOLERANCE ±1"									

1. CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, ASTM DESIGNATION C 76 CLASS II. (AS SET OUT IN THE STANDARD SPEC'S)

2. REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE ASTM DESIGNATION C 76, CLASS II FOR THE SIZE OF CONNECTING PIPE.

3. REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS–SETIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" SECTION.

4. THE END OF PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.

5. IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH, PLEASING TRANSITION APPROXIMATELY 10'–0" IN LENGTH.

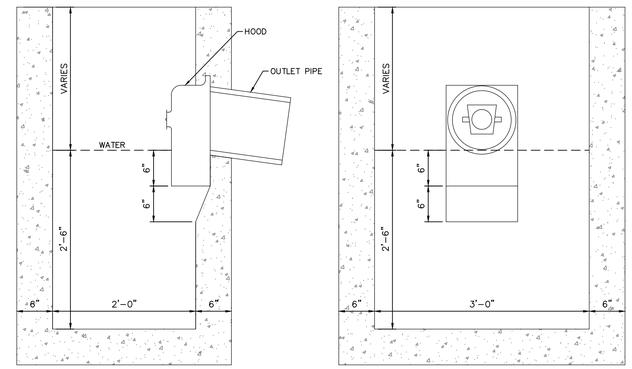
6. VARIATIONS IN DIMENSIONS – THE THICKNESS OF THE CONCRETE, THE POSITION OF STEEL AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, ASTM DESIGNATION C 76.

7. WHERE VITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE IS USED, A "PIPE END SECTION" COMPARABLE TO THAT AS SHOWN FOR METAL OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE PROJECT ENGINEER.

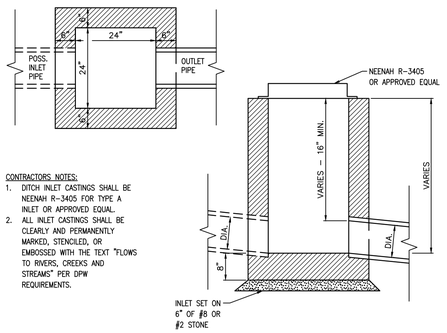
8. END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "PIPE END SECTION" COMPLETE IN PLACE AND ACCEPTED.

9. CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE SECTIONS. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "PIPE END SECTIONS".

PROVIDE NEENAH CASTING OR EQUAL PRODUCT
SHALL BE FLAT, OPEN GRATING

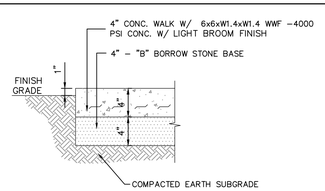


2 CATCH BASIN DETAIL TYPE 'K' (CONCRETE)
NO SCALE



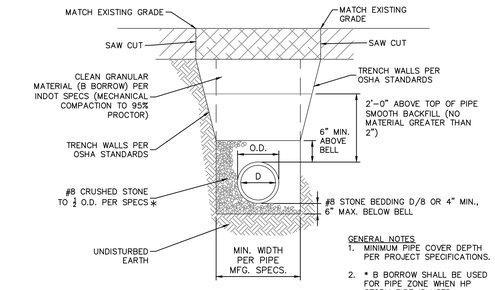
CONTRACTORS NOTES:
1. DITCH INLET CASTINGS SHALL BE NEENAH R–3405 FOR TYPE A INLET OR APPROVED EQUAL.
2. ALL INLET CASTINGS SHALL BE CLEARLY AND PERMANENTLY MARKED, STENCILED, OR EMBOSSED WITH THE TEXT "FLOWS TO RIVERS, CREEKS AND STREAMS" PER DPW REQUIREMENTS.

3 INLET TYPE A
NO SCALE



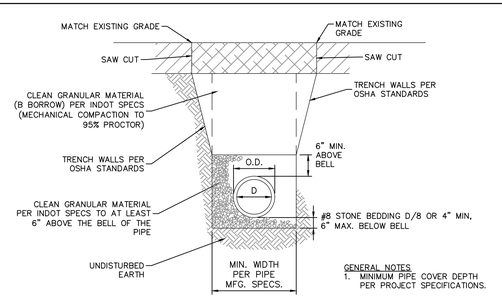
GENERAL NOTES:
1. INSTALL CONCRETE WALK PER LATEST ADDITION OF INDOT SPECIFICATIONS.
2. WALK TO HAVE A MINIMUM 2% CROSS SLOPE PER ADA REQUIREMENTS
3. INSTALL CONTROL JOINTS AT 10' O.C. EACH WAY. SEE JOINT DETAIL.
4. INSTALL EXPANSION JOINTS AT 50' O.C. EACH WAY. SEE JOINT DETAIL.

4 NEW CONCRETE SIDEWALK DETAIL
NO SCALE



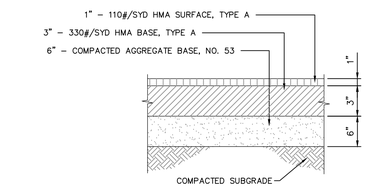
GENERAL NOTES
1. MINIMUM PIPE COVER DEPTH PER PROJECT SPECIFICATIONS.
2. * B BORROW SHALL BE USED FOR PIPE ZONE WHEN HP STORM PIPE IS USED.

TRENCH BACKFILL DETAIL
(FLEXIBLE PIPE IN PAVED AREAS)
5 NO SCALE



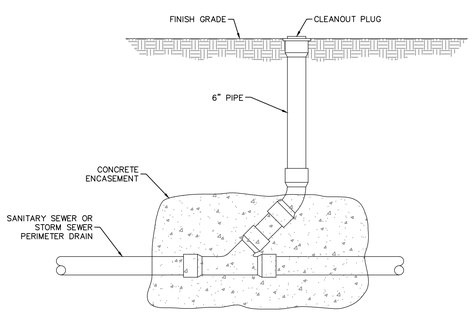
GENERAL NOTES
1. MINIMUM PIPE COVER DEPTH PER PROJECT SPECIFICATIONS.

TRENCH BACKFILL DETAIL
(RIGID PIPE IN PAVED AREAS)
6 NO SCALE

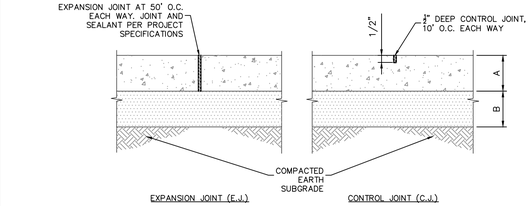


GENERAL NOTES:
1. INSTALL ASPHALT PAVEMENT PER LATEST EDITION OF INDOT SPECIFICATIONS AT TIME OF CONSTRUCTION

7 ASPHALT DRIVEWAY PAVEMENT SECTION DETAIL
NO SCALE

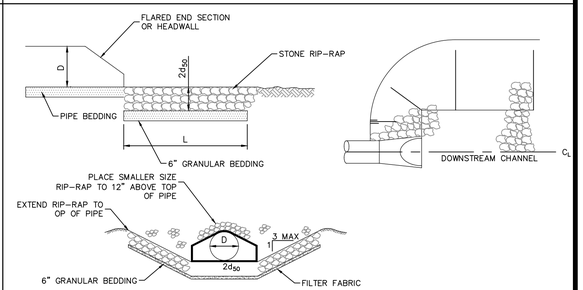


9 TYPICAL CLEANOUT DETAIL
NO SCALE



KEY:
A – CONCRETE PAVEMENT (DEPTH VARIES)
B – STONE BASE (DEPTH VARIES)

8 NEW CONCRETE PAVEMENT & WALK JOINT DETAILS
NO SCALE



LOCATION	SHEET #	STRUCTURE #	DIMENSION			
			D	L	d_{50}	$2d_{50}$
NEW SWALE	C3	–	12"	10'	–	–
NEW SWALE	C3	–	12"	10'	–	–

10 STORM OUTFALL EROSION PROTECTION RIP-RAP DETAIL
NO SCALE

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MISCELLANEOUS DETAILS

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DT1
MISCELLANEOUS DETAILS

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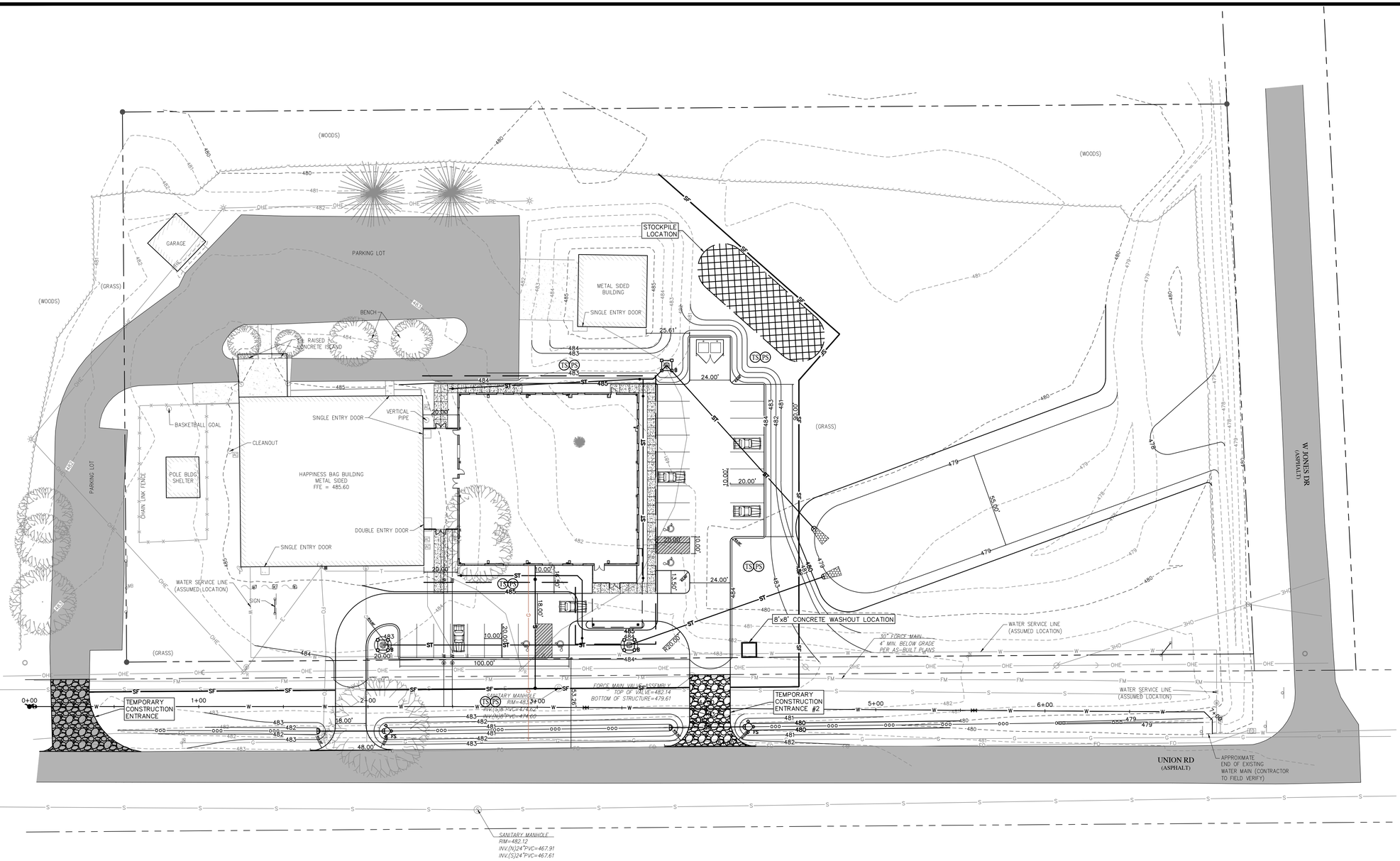

1 EROSION CONTROL PLAN
SCALE: 1" = 30'

LEGEND

TP	TREE PROTECTION
TS	TEMPORARY SEEDING
PS	PERMANENT SEEDING/SODDING
M	MULCHING
RR	RIP RAP
VF	VEGETATIVE FILTER STRIP
ECB	EROSION CONTROL BLANKET
IPB	TEMPORARY INLET PROTECTION
FS	FILTER SOCK
	TEMPORARY SEDIMENTATION BASIN
TSD	TEMPORARY SLOPE DRAIN
	TEMPORARY CONSTRUCTION ENTRANCE
	TOPSOIL SALVAGE/UTILIZATION
SF	SILT FENCE

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EROSION CONTROL PLAN

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EROSION CONTROL PLAN

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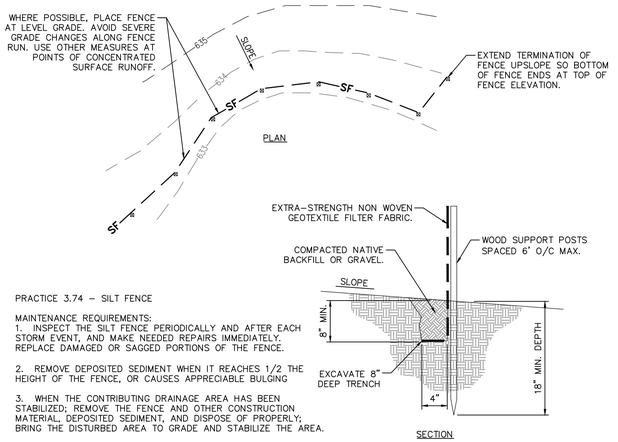


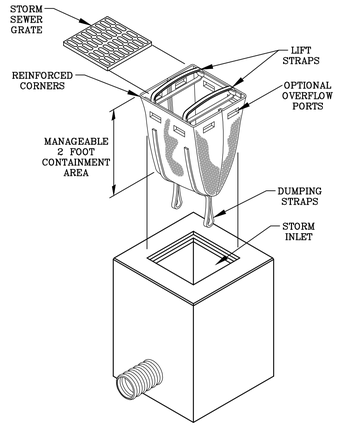
PRACTICE 3.74 – SILT FENCE

MAINTENANCE REQUIREMENTS:
1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT, AND MAKE NEEDED REPAIRS IMMEDIATELY. REPLACE DAMAGED OR SAGGED PORTIONS OF THE FENCE.

2. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE, OR CAUSES APPRECIABLE BULGING

3. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED; REMOVE THE FENCE AND OTHER CONSTRUCTION MATERIAL, DEPOSITED SEDIMENT, AND DISPOSE OF PROPERLY; BRING THE DISTURBED AREA TO GRADE AND STABILIZE THE AREA.

1 SILT FENCE
NOT TO SCALE

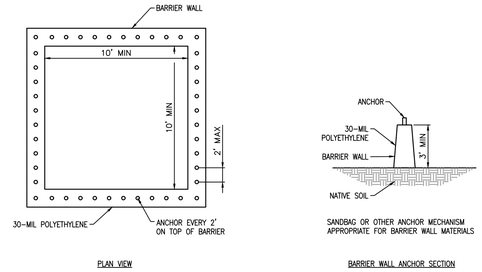


METAL BASKET SHALL BE SUCH THAT THE BASKET FITS INTO THE INLET WITHOUT GAPS. INSTALL THE BASKET AS SOON AS INLET BOXES ARE INSTALLED. CUT AND INSTALL A PIECE OF FILTER FABRIC LARGE ENOUGH TO LINE THE INSIDE OF THE BASKET AND EXTEND AT LEAST 6" BEYOND FRAME.

MAINTENANCE REQUIREMENTS: INSPECT AFTER EACH STORM EVENT. REMOVE BUILT UP SEDIMENT AND REPLACE FABRIC AS NECESSARY TO AVOID FAILURES. PERIODICALLY REMOVE SEDIMENT FROM THE PAVED AREAS SURROUNDING THE INLET BY SCRAPING OR SWEEPING ONLY.

2 BASKET INLET PROTECTION DETAIL
NOT TO SCALE

1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. ENSURE ALL DRIVERS AND OPERATORS ARE AWARE OF ITS LOCATION.
3. CHOOSE WASHOUT LOCATION NEAR A ROAD FOR EASY TRUCK ACCESS.
4. SIZE THE WASHOUT CONTAINMENT TO ENSURE ADEQUATE CAPACITY FOR THE DAY'S OPERATIONS.
5. CREATE OR USE A PORTABLE STRUCTURE LARGE ENOUGH TO COMPLETELY CONTAIN CONCRETE SLURRY. STRAW BALE CONTAINMENT IS NOT ALLOWED.
6. USE ONE CONTINUOUS SHEET OF PLASTIC (30 MIL MIN.) TO LINE WASHOUT. DO NOT OVERLAP TWO OR MORE SHEETS. ANY OVERLAP OR TEAR THE PLASTIC WILL ALLOW THE CHEMICALS TO BE RELEASED.
7. SECURE PLASTIC WITH PINS, STAKES, SAND BAGS OR OTHER ACCEPTABLE METHODS APPROPRIATE FOR THE CONTAINMENT STRUCTURE MATERIALS.
8. THE WASHOUT CONTAINMENT STRUCTURE SHALL BE REPAIRED, ENLARGED AND/OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
9. NEVER WASHOUT INTO STORM DRAINS, BODIES OF WATER, WETLANDS, ADJACENT PROPERTIES, VEGETATION OR SOIL.
10. CONTRACTOR SHALL PROVIDE SECONDARY EMERGENCY WASTE WATER CONTAINMENT ON SITE.
11. AT THE END OF CONSTRUCTION, ALL WASTE CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
12. CONTAINMENT SHALL BE ROOFED, CANOPIED OR COVERED.
13. WHEN THE CONTAINMENT STRUCTURE IS REMOVED, THE DISTURBED AREA SHALL BE RESTORED AND STABILIZED IN A MANNER APPROVED BY THE SITE INSPECTOR.



3 CONCRETE WASHOUT DETAIL
NOT TO SCALE

EROSION CONTROL GENERAL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN SHALL BE INSTALLED TO MEET THE DESIGN CRITERIA, STANDARDS, AND SPECIFICATIONS OUTLINED IN THE "INDIANA STORM WATER QUALITY MANUAL".

2. PROVISION OF THIS PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF MEETING ALL REQUIREMENTS SET IN THE "INDIANA STORM WATER QUALITY MANUAL" AND PER ALL GOVERNING AGENCIES.

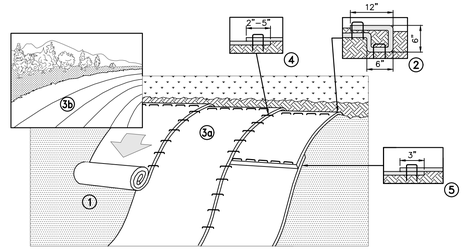
3. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

4. RETURN SILTATION CONTROL AREAS TO THE ORIGINAL GROUND CONDITIONS AT PROJECT COMPLETION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING ANY CONSTRUCTION DEBRIS OF SEDIMENT FROM EXISTING ROADS AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. ALL ROADWAYS SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO SUBSTANTIAL COMPLETION OF CONSTRUCTION.

6. NO RUNOFF ORIGINATING FROM THE PROJECT AREA OR DIRECTED ONTO IT FROM UPSTREAM AREAS SHALL LEAVE THE BOUNDARIES OF THE PROJECT AREA UNLESS IT PASSES THROUGH A CONTROL MEASURE OR CONTROL FACILITY.

7. THE SITE SHALL BE CONSIDERED TO BE PERMANENTLY STABILIZED WHEN:
– ALL PERMANENT CONTROL MEASURES HAVE BEEN COMPLETED AND ARE OPERATIONAL
– TEMPORARY CONTROL MEASURES HAVE BEEN REMOVED
– UNIFORM EROSION RESISTANT PERENNIAL VEGETATION IS ESTABLISHED TO THE POINT WHERE THE SURFACE SOIL IS CAPABLE OF RESISTING EROSION DURING RUNOFF EVENTS. THE STANDARD FOR THIS VEGETATIVE COVER WILL BE A UNIFORM COVERAGE OR DENSITY OF 70% ACROSS THE DISTURBED AREA.



NOTES:
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP x 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP'S.

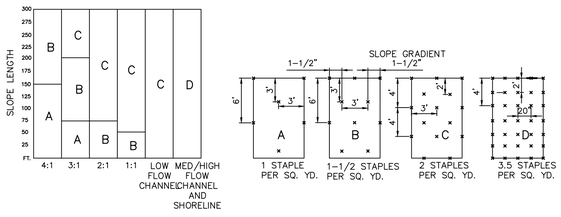
3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" – 5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.

5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.

STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS WILL VARY DEPENDING UPON SLOPE LENGTH, SLOPE GRADIENT, SOIL TYPE AND AVERAGE ANNUAL RAINFALL.



4 EROSION CONTROL BLANKET SLOPE INSTALLATION
NOT TO SCALE

TEMPORARY SEEDINGS			
TYPE OF SEED	1000 SQ. FT.	ACRE	REMARKS
WHEAT OR RYE	3.5 LBS.	2 BU.	COVER SEED 1" TO 1 1/2" DEEP
SPRING OATS	2.3 LBS.	3 BU.	COVER SEED 1" DEEP
ANNUAL RYEGRASS	1 LB.	40 LB.	COVER SEED 1/4" DEEP

* NOT NECESSARY WHERE MULCH IS APPLIED.

TEMPORARY SEEDING DATES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WHEAT OR RYE												
OATS												
ANNUAL RYEGRASS												

PERMANENT SEEDING DATES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NON-IRRIGATED*												
IRRIGATED												
DORMANT SEEDING **												

IRRIGATION NEEDED DURING THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS. USE MULCH.

* LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.

** INCREASE SEEDING APPLICATION BY 50%.

PERMANENT SEEDING
NOT TO SCALE

THIS TABLE PROVIDES TWO SEEDING OPTIONS. ADDITIONAL SEED SPECIES AND MIXTURES ARE AVAILABLE COMMERCIALLY. WHEN SELECTING A MIXTURE, CONSIDER SITE CONDITIONS, INCLUDING SOIL PROPERTIES (E.G. SOIL PH AND DRAINAGE), SLOPE ASPECT AND THE TOLERANCE OF EACH SPECIES TO SHADE AND DROUGHT.

SEED SPECIES AND MIXTURES	RATE PER ACRE	OPTIMUM SOIL PH
1. PERNNIAL RYEGRASS	35–50 LBS.	5.6 TO 7.0
+WHITE OR LADINO CLOVER	1–2 LBS.	
2. KENTUCKY BLUEGRASS	20 LBS.	5.5 TO 7.5
+SWITCHGRASS	3 LBS.	
+TIMOTHY	4 LBS.	
+PERENNIAL RYEGRASS	10 LBS.	
+WHITE OR LADINO CLOVER	1–2 LBS.	

FOR BEST RESULTS: (A) LEGUME SHOULD BE INNOCULATED; (B) SEEDING MIXTURES CONTAINING LEGUMES SHOULD PREFERABLY BE SORING-SEEDED ALTHOUGH THE GRASS MAY BE FALL-SEEDED AND THE LEGUME FROST-SEEDED (PRACTICE 3.13); AND (C) IF LEGUMES ARE FALL-SEEDED, DO SO EARLY IN FALL.

FERTILIZER:
ACCORDING TO SOIL TEST OR USE 600 LBS. /ACRE OF 12–12–12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

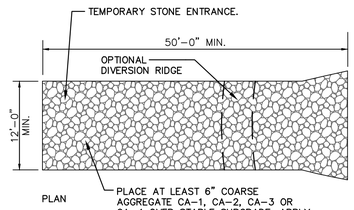
MULCH:
MULCH SHALL BE STRAW OR HAY. MATERIAL SHOULD BE DRY, UNCHOPPED FREE OF UNDESIRABLE SEEDS AND BY HAND OR MACHINE. WOOD FIBER OR CELLULOSE MAY BE USED AND APPLIED WITH A HYDROMUCHER AND USE OF A TACKING AGENT.

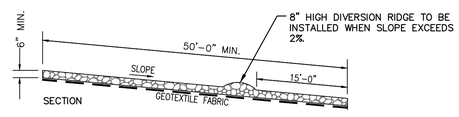
STEEPING BANKS AND CUTS, LOW MAINTENANCE AREAS (NOT MOWED) AND CHANNELS AND AREAS OF CONCENTRATED FLOW REQUIRE ALTERNATE SEEDING AND MULCH ANCHORING METHIDS. REFEER TO INDIANA HANDBOOK FOR EROSION CONTROL. IN DEVELOPING AREAS.

5 SEEDING DETAIL
NOT TO SCALE

CONSTRUCTION ENTRANCE INSTALLATION:

MAINTENANCE REQUIREMENTS:
1. INSPECT ENTRANCE PAD WEEKLY, AFTER STORM EVENTS, AND AFTER HEAVY USE. RESHAPE PAD AS NEEDED TO MAINTAIN DRAINAGE AND RUNOFF CONTROL.
2. TOP DRESS WITH STONE TO MAINTAIN 6" CLEAN DEPTH THROUGHOUT ENTRANCE.
3. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROAD. CLEAN BY SCRAPING OR SWEEPING ONLY. DO NOT FLUSH WITH WATER UNLESS SEDIMENT TRAP IS INSTALLED IN ROADWAY DRAINAGE IMPROVEMENTS.





6 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
NOT TO SCALE

REVISIONS

DATE	DESCRIPTION	BY

HWC ENGINEERING
www.hwcengineering.com

HOLDER DESIGN
HAPPINESS BAG

EROSION CONTROL DETAILS

CONNER A. SIMPLEY
REGISTERED
No.PE12300884
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY: CAS
CHECKED BY: CS
DATE: AUGUST 26, 2024
SCALE: AS SHOWN
JOB NUMBER: 2024-083
SHEET

EC2
EROSION CONTROL DETAILS

W:\HOLDER DESIGN\2024-083 HOLDER – HAPPINESS BAG\DESIGN\CAD\2024-083-EC2.DWG PLOTTED: 8/26/2024 2:09 PM

A1	PLAN INDEX	SEE GENERAL NOTES SHEET G2
A2	VICINITY MAP	SEE VICINITY MAP ON COVER SHEET G1
A3	NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT	THE PURPOSE OF THIS PROJECT IS TO SUBSTANTIALLY ADD ON TO THE EXISTING FACILITY IN ORDER TO PROVIDE MORE SPACE FOR EDUCATIONAL AND RECREATIONAL USE. HAPPINESS BAG IS THE WABASH VALLEY'S ONLY FACILITY DESIGNED FOR INDIVIDUALS WITH DISABILITIES.
A4	LATITUDE AND LONGITUDE	LATITUDE IS 39.420423 AND LONGITUDE IS −87.425815
A5	LEGAL DESCRIPTION	SE ¼ SECTION 05 & SW ¼ SECTION 04, T11N, R9W, HONEY CREEK TOWNSHIP
A6	11 X 17 PLAT	REFER TO THE PROPOSED SITE PLAN SHEET C2
A7	100 YEAR FLOODPLAINS, FLOODWAYS, AND FLOOD FRINGES	THE ENTIRETY OF THE SITE LIES WITHIN AN AE FLOOD ZONE. THE FEMA FLOOD INSURANCE RATE MAP IS ATTACHED TO BACK OF PLAN SET.
A8	LAND USE OF ADJACENT PROPERTIES	THERE IS A MIXTURE OF PROPERTY USES SURROUNDING THE SITE. TO THE WEST AND DIRECTLY SOUTH OF THE SITE LIES WOODED AREA. TO THE NORTH ACROSS WEST JONES DRIVE LIES A COMMERCIAL/RECREATIONAL PROPERTY (BOGEYS FAMILY FUN CENTER). TO THE EAST LIES THE COUNTY FAIRGROUNDS. A LITTLE FURTHER SOUTHWEST LIES SEVERAL ACRES OF AGRICULTURAL LAND.
A9	IDENTIFICATION OF ANY ESTABLISHED TMDL	NO ESTABLISHED TMDLS FOR THE DITCH/SWALE OR THOMPSON DITCH WHERE RUNOFF WILL BE DISCHARGED TOO.
A10	RECEIVING WATERS	A NAMED WATERWAY DOES NOT DIRECTLY RECEIVE RUNOFF. AN UNNAMED DITCH/SWALE WILL RECEIVE THE RUNOFF PRODUCED. THE DITCH/SWALE EVENTUALLY DISCHARGES OFFSITE TO THE WEST AND RUNOFF WILL MAKE ITS WAY TO THOMPSON DITCH.
A11	DISCHARGES TO 303(D) LIST	NONE
A12	SOILS MAP	THE NRCS WEB SOIL SURVEY INDICATES AvB2 and VgA SOILS ARE LOCATED ON THE SITE. REFER TO SOILS MAP ATTACHED TO BACK OF PLAN SET.
A13	LOCATION OF EXISTING WETLANDS, LAKES, AND WATER COURSES.	SEE PLAN SHEETS. NO BODIES OF WATER ON SITE OR ADJACENT TO THE PROPERTY.
A14	STATE OR FEDERAL WATER QUALITY PERMITS REQUIRED.	STATE − CSGP FEDERAL − NONE
A15	IDENTIFICATION OF EXISTING COVER	SEE PLAN SHEETS
A16	EXISTING TOPOGRAPHY	SEE PLAN SHEETS
A17	EXISTING RUNOFF ENTERING SITE	SEE PLAN SHEETS
A18	EXISTING DISCHARGE LOCATION	NONE
A19	EXISTING STRUCTURES	NO EXISTING STORMWATER STRUCTURES ON SITE.
A20	EXISTING PERMANENT RETENTION OR DETENTION FACILITIES	NONE
A21	GROUNDWATER DISCHARGE	THERE ARE NO GROUNDWATER DISCHARGES PLANNED
A22	TOTAL SITE AREA	5.66 AC.
A23	DISTURBED AREA	3.00 AC.
A24	FINAL TOPOGRAPHY	SEE PLAN SHEETS
A25	BOUNDARY OF DISTURBED AREA	SEE PLAN SHEETS
A26	STORMWATER SYSTEM	GUTTER DOWNSPOUTS TIE INTO A 6" PERIMETER DRAIN WHICH THEN CONNECTS TO VARIOUS INLET STRUCTURES PLACED STRATEGICALLY AROUND THE SITE. THE INLETS CONNECT TO A CATCH BASIN AS A MEANS OF TREATMENT AND STORAGE PRIOR TO RUNOFF ENTERING A DRYWELL. THE INLETS AND CATCH BASIN HAVE OPEN GRATING TO ALLOW THE CAPTURE OF RUNOFF. THE CATCH BASINS HAVE AN OPEN LID TO CAPTURE SURFACE RUNOFF. THE DRYWELL IS CAPABLE OF STORING STORMWATER RUNOFF AND ALLOWING INFILTRATION INTO THE SURROUND AGGREGATE AND SOIL.
A27	DISCHARGE POINTS	STORMWATER DISCHARGE OCCURS VIA EXISTING SWALE/DITCH TO THE WEST OF THE PROPERTY WHERE IT EVENTUALLY MAKES ITS WAY TO THOMPSON DITCH.
A28	LOCATION OF SITE IMPROVEMENTS	SEE PLAN SHEETS
A29	LOCATION OF STOCKPILES	SEE SHEET EC1. STOCKPILE LOCATION IS TO THE EAST OF THE THE PROPOSED IMPROVEMENTS.
A30	CONSTRUCTION SUPPORT ACTIVITIES	STAGING AREAS WILL BE LOCATED ON SITE. NO BATCH PLANTS OR OTHER STAGING/STORAGE AREAS ARE NECESSARY.
A31	LOCATION OF INSTREAM ACTIVITIES	CONSTRUCTION WILL AVOID INSTREAM ACTIVITES

B1	POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES	THE FOLLOWING POTENTIAL POLLUTANT SOURCES MAY BE ASSOCIATED WITH CONSTRUCTION ACTIVITIES ON SITE: MATERIAL STORAGE AREAS (MORE SPECIFICALLY DESCRIBED BELOW). CONSTRUCTION WASTE MATERIAL AND DEBRIS. FUEL STORAGE AREAS AND FUELING STATIONS. EXPOSED SOILS. OILS, GREASES, COOLANTS, FUELS AND OTHER FLUIDS ASSOCIATED WITH OPERATION AND MAINTENANCE OF CONSTRUCTION VEHICLES AND EQUIPMENT. SANITARY WASTE FROM TEMPORARY TOILET FACILITIES. LITTER. WINDBLOWN DUST. SOIL TRACKING OFF SITE FROM CONSTRUCTION EQUIPMENT. FERTILIZERS ASSOCIATED WITH SEEDING AND PLANTING. THE FOLLOWING CONSTRUCTION MATERIALS MAY BE STAGED OR STORED ON SITE AT VARIOUS POINTS DURING DEVELOPMENT OF THE SITE: STOCKPILED OR BORROW FILL MATERIAL. CRUSHED STONE FOR PAVEMENT/SLAB, TRENCH/FOUNDATION BACKFILL. HDPE, PVC, RCP OR DUCTILE IRON PIPE. PRECAST CONCRETE, HDPE OR PVC DRAINAGE AND SANITARY STRUCTURES.
B2	STABLE CONSTRUCTION ENTRANCE	CONSTRUCTION ENTRANCES WILL BE PLACED PRIOR TO ANY SITE CONSTRUCTION OR DEMOLITION. ENTRANCES ARE SHOWN ON THE EROSION CONTROL PLAN, REFER TO THE EROSION CONTROL DETAILS FOR SPECIFIC DETAILS.
B3	TEMPORARY AND PERMANENT STABILIZATION	TEMPORARY: SURFACE STABILIZATION IS REQUIRED ON ANY BARE OR THINLY VEGETATED AREA THAT IS SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR A PERIOD OF 7 DAYS OR MORE. REFER TO THE TEMPORARY SEEDING DETAIL WITHIN THE EROSION CONTROL DETAILS FOR SPECIFICS ON SOIL AMENDMENTS, SEED MIXTURES AND MULCHING. STABILIZATION ACTIVITY MUST BE COMPLETED WITHIN 14 DAYS AFTER INITIATION. PERMANENT:a) LOOSEN LAWN AREA TO A MINIMUM DEPTH OF 6 INCHES. MIX SOIL AMENDMENTS AND FERTILIZERS WITH TOPSOIL AT RATES SPECIFIED. ORGANIC SOIL AMENDMENTS SUCH AS PEAT, COMPOST OR MANURE SHALL BE APPLIED AT 2" DEPTH EVENLY OVER SOIL AND INCORPORATED INTO THE TOP 6" OF TOPSOIL. PROVIDE FERTILIZER WITH PERCENTAGE OF NITROGEN REQUIRED TO PROVIDE NOT LESS THAN 1 POUND OF ACTUAL NITROGEN PER 1,000 SQ. FT. OF LAWN AREA AND NOT LESS THAN 4 PERCENT PHOSPHORIC ACID AND 2 PERCENT POTASSIUM. AT LEAST 50 PERCENT OF NITROGEN TO BE ORGANIC FORM. DELAY MIXING OF FERTILIZER IF PLANTING WILL NOT FOLLOW PLACING OF PLANTING SOIL WITHIN A FEW DAYS. b) FERTILIZER FOR LAWNS: PROVIDE A FAST RELEASE FERTILIZER WITH A COMPOSITION OF 1 LB PER 1,000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHORUS, AND 2 PERCENT POTASSIUM BY WEIGHT. c) SLOW-RELEASE FERTILIZER FOR TREES AND SHRUBS: GRANULAR FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHORUS AND POTASSIUM MADE UP OF A COMPOSITION BY WEIGHT OF 5 PERCENT. d) GRADE LAWN AND GRASS AREAS TO A SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURE. LIMIT FINE GRADING TO AREAS THAT CAN BE PLANTED WITHIN IMMEDIATE FUTURE. REMOVE TRASH, DEBRIS, STONES LARGER THAN 1-INCH DIAMETER AND OTHER OBJECTS THAT MAY INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS. SOW SEED USING A SPREADER OR SEEDING MACHINE. DO NOT SEED WHEN WIND VELOCITY EXCEEDS 5 MILES PER HOUR. e) DISTRIBUTE SEED EVENLY OVER ENTIRE AREA BY SOWING EQUAL QUANTITY IN 2 DIRECTIONS AT RIGHT ANGLES TO EACH OTHER. f) RAKE SEED LIGHTLY INTO TOP 1/8 INCH OF SOIL, ROLL LIGHTLY AND WATER WITH A FINE SPRAY. g) INSTALL EROSION CONTROL BLANKETS AS INDICATED ON THE PLAN. h) PROTECT SEEDED AREAS AGAINST EROSION BY SPREADING CLEAN, SEED-FREE STRAW MULCH AFTER COMPLETION OF SEEDING OPERATIONS. SPREAD UNIFORMLY TO FORM A CONTINUOUS BLANKET NOT LESS THAN 1-1/2 INCHES LOOSE MEASUREMENTS OVER SEEDED AREAS. i) WATER NEWLY PLANTED LAWN AREAS AND KEEP MOIST UNTIL NEW GRASS IS ESTABLISHED. IMMEDIATELY REPAIR ANY LAWN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES INCLUDING TREE AND SHRUB INSTALLATION. j) REFER TO THE PERMANENT SEEDING DETAILS WITHIN THE STORMWATER POLLUTION PREVENTION DETAIL SHEET, FOR TIMING OF PERMANENT SEEDING, GRASS SEED SPECIFICATIONS AND MULCHING SPECIFICATIONS.
B4	SEDIMENT CONTROL FOR CONCENTRATED FLOW	REFER TO THE STORMWATER POLLUTION PREVENTION PLAN FOR LOCATIONS AND STORMWATER POLLUTION PREVENTION DETAILS FOR DETAILS. CONCENTRATED FLOW FOR THE PROJECT WILL REACH CULVERT INLET PROTECTION PRIOR TO LEAVING THE SITE.
B5	SEDIMENT CONTROL FOR SHEET FLOW	SHEET FLOW AREAS WILL BE PROTECTED BY SEED AND MULCH OR HYDROSEEDING. EROSION CONTROL BLANKETS WILL BE INSTALLED ON SLOPED AREAS WHERE THE SLOPE EXCEEDS 3:1 (HORIZONTAL TO VERTICAL). SILT FENCING WILL BE UTILIZED TO PREVENT SEDIMENTATION FROM LEAVING THE SITE. REFER TO THE STORMWATER POLLUTION PREVENTION PLAN FOR LOCATIONS AND THE STORMWATER POLLUTION PREVENTION DETAILS FOR DETAILS.
B6	RUNOFF CONTROL MEASURES	ROCK RIPRAP OR FILTER SOCK IS BEING INSTALLED AT EVERY END SECTION, AND SILT FENCE IS BEING INSTALLED, WHERE APPROPRIATE, AROUND THE SITE TO ENSURE STORMWATER RUNOFF IS CONTROLLED ON-SITE. REFER TO THE STORMWATER POLLUTION PREVENTION PLAN FOR LOCATIONS AND THE STORMWATER POLLUTION PREVENTION DETAILS FOR DETAILS.
B7	STORMWATER OUTLET PROTECTION	A RIPRAP APRON WILL BE PLACED AT ANY PIPE OUTLETS.
B8	GRADE STABILIZATION	NO GRADE STABILIZATION PROPOSED FOR THIS PROJECT AS ALL PROPOSED SLOPES ARE TO BE 3:1 OR LESS.
B9	DEWATERING APPLICATIONS AND MANAGEMENT	NOT APPLICABLE. NO DEWATERING WILL BE REQUIRED FOR THIS PROJECT.
B10	WORK WITHIN WATERBODIES	NOT APPLICABLE. NO WORK WITHIN A STREAM OR WATERBODY WILL TAKE PLACE FOR PROJECT.
B11	MONITORING AND MAINTENANCE GUIDELINES FOR EACH STORMWATER QUALITY MEASURE	MONITORING AND MAINTENANCE GUIDELINES ARE SPECIFIED IN THE INDIANA STORMWATER QUALITY MANUAL. THESE GUIDELINES SHALL BE ADHERED TO.
B12	SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND DISTURBING ACTIVITY	1. SCHEDULE PRE-CONSTRUCTION MEETING WITH LOCAL STORMWATER AUTHORITY. 2. INSTALL SILT FENCE AND CONSTRUCTION ENTRANCE. 3. UTILIZE THE EXISTING ASPHALT DRIVE OR CONSTRUCT A GRAVEL CONSTRUCTION ENTRANCE FOR INSTALLATION OF THE PERIMETER SILT FENCE. ADD STONE IF NEEDED. POST NOI AT THE ENTRANCE. ADD PROTECTION MEASURES TO EXISTING STRUCTURES. 4. INSTALL STAGING AREA, FUELING STATION, MATERIAL STORAGE AREA, AND CONCRETE TRUCK WASHOUT. 5. INSTALL STORMWATER SYSTEM 6. INSTALL INLET AND OUTLET PROTECTION 7. CONSTRUCT BUILDING AND ASSOCIATED WORK 8. INSTALL TEMPORARY AND/OR PERMANENT SEEDING AND EROSION CONTROL BLANKETS 9. REMOVE ALL EROSION AND SEDIMENT CONTROL PRACTICES WHEN AREAS HAVE A UNIFORM GRASS COVER.
B13	SPECIFICATIONS FOR INDIVIDUAL LOTS	N/A
B14	MATERIAL HANDLING AND SPILL PREVENTION	SOLID WASTE DISPOSAL NO SOLID MATERIAL, INCLUDING BUILDING MATERIALS, IS PERMITTED TO BE DISCHARGED TO SURFACE WATERS OR BURIED ON SITE. ALL SOLID WASTE MATERIALS, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE CONSTRUCTION ACTIVITY, MUST BE COLLECTED IN CONTAINERS OR CLOSED DUMPSTERS. THE COLLECTION CONTAINERS MUST BE EMPTIED PERIODICALLY, AND THE COLLECTED MATERIAL HAULED TO A LANDFILL PERMITTED BY THE STATE AND/OR APPROPRIATE LOCAL MUNICIPALITY TO ACCEPT THE WASTE FOR DISPOSAL. A FOREMAN OR SUPERVISOR SHOULD BE DESIGNATED IN WRITING TO OVERSEE, ENFORCE, AND INSTRUCT CONSTRUCTION WORKERS ON PROPER SOLID WASTE PROCEDURES. HAZARDOUS WASTE WHENEVER POSSIBLE, MINIMIZE THE USE OF HAZARDOUS MATERIALS AND GENERATION OF HAZARDOUS WASTES. ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED IN THE MANNER SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS OR BY THE MANUFACTURER. USE CONTAINMENT BERMS IN FUELING AND MAINTENANCE AREAS AND WHERE POTENTIAL FOR SPILLS IS HIGH. A FOREMAN OR SUPERVISOR SHOULD BE DESIGNATED IN WRITING TO OVERSEE, ENFORCE AND INSTRUCT CONSTRUCTION WORKERS ON PROPER HAZARDOUS WASTE PROCEDURES. THE LOCATION OF ANY HAZARDOUS WASTE STORAGE AREAS SHOULD BE INDICATED ON THE STORMWATER POLLUTION PREVENTION PLAN BY THE CONTRACTOR FOLLOWING ON-SITE LOCATION OF THE FACILITY. AS SOON AS POSSIBLE, BUT WITHIN TWO (2) OURS OF DISCOVERY, COMMUNICATE A SPILL REPORT TO THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF LAND QUALITY, EMERGENCY RESPONSE SECTION: AREA CODE 1-888-233-7745 FOR IN-STATE CALLS (TOLL FREE). CALL 812-446-2535 TO CONTACT THE CENTER POINT FIRE DEPARTMENT.
B15	MATERIAL HANDLING AND SSTORAGE	ALL MATERIALS ARE TO BE CONTAINED WITHIN THE CONSTRUCTION LIMITS. WASTES AND UNUSED BUILDING MATERIAL TO BE DISPOSED PROPERLY BY THE CONTRACTOR. ANY WASH ACTIVITIES MUST BE IN DESIGNATED AREAS AND BE DIRECTED INTO LEAK-PROOF BAGS AND PROPERLY DISPOSED.

STORMWATER POLLUTION PREVENTION PLAN INDEX

REVISIONS

DATE	DESCRIPTION	BY

HWC ENGINEERING
www.hwcengineering.com

HOLDER DESIGN
HAPPINESS BAG

SWPPP NOTES

CONNER A. SHIDLER
REGISTERED
No.PE12300884
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DRAWN BY CAS	JOB NUMBER 2024-083
CHECKED BY CS	
DATE AUGUST 26, 2024	
SCALE AS SHOWN	

SHEET

EC3

SWPPP NOTES

C1	DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE	THE PROPOSED LAND USE IS A THE SAME AS EXISTING CONDITIONS. THE POLLUTANTS AND SOURCES OF EACH POLLUTANT NORMALLY EXPECTED FROM THIS LAND USE ARE LISTED BELOW: POLLUTANT SOURCE: PASSENGER AND DELIVERY VEHICLES TYPE OF POLLUTANT: OIL, GASOLINE, DIESEL FUEL, ANY HYDROCARBON ASSOCIATED WITH VEHICULAR FUELS AND LUBRICANTS, GREASE, ANTIFREEZE, WINDSHIELD CLEANER SOLUTION, BRAKE FLUID, BRAKE DUST, RUBBER, GLASS, METAL, AND PLASTIC FRAGMENTS, GRIT, ROAD DE-ICING MATERIALS. POLLUTANT SOURCE: BUILDING TYPE OF POLLUTANT: CLEANING SOLUTIONS OR SOLVENTS, LEADS FROM HVAC EQUIPMENT, GRIT FROM ROOF DRAINAGE, AGGREGATE OR RUBBER FRAGMENTS FROM ROOFING SYSTEM. POLLUTANT SOURCE: TRASH DUMPSTER TYPE OF POLLUTANT: CLEANING SOLUTIONS OR SOLVENTS, LITTER (PAPER, PLASTIC, GENERAL REFUSE ASSOCIATED WITH DISTRIBUTION OPERATIONS), UNEATEN FOOD PRODUCTS, BACTERIA. POLLUTANT SOURCE: PARKING LOT TYPE OF POLLUTANT: ANY POLLUTANT ASSOCIATED WITH VEHICULAR SOURCES, GRIT FROM ASPHALT WEARING SURFACE, BITUMINOUS COMPOUNDS FROM PERIODIC MAINTENANCE (SEALING, RESURFACING AND PATCHING), PAVEMENT BITUMINOUS COMPOUNDS FROM PERIODIC MAINTENANCE (SEALING, RESURFACING, AND PATCHING), PAVEMENT DE-ICING MATERIALS, PAIN FRAGMENTS FROM PARKING STALL STRIPES, CONCRETE FRAGMENTS, WIND-BLOWN LITTER FROM OFF-SITE SOURCES, ELEVATED WATER TEMPERATURES FROM CONTACT WITH IMPERVIOUS SURFACES. POLLUTANT SOURCE: LAWN AND LANDSCAPE AREASTYPE OF POLLUTANT: FERTILIZERS, SOIL, ORGANIC MATERIAL (LEAVES, MULCH, AND GRASS CLIPPINGS)
C2	DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER MEASURES	PERMANENT VEGETATION TOPSOIL WILL BE PLACED IN LAWN AREAS AND SEEDED WITH GRASS AND GRADED NOT TO EXCEED 3:1 SLOPE. THE VEGETATED AREAS WILL SLOW THE VELOCITIES OF STORM WATER RUNOFF, REDUCE SEDIMENT RUNOFF, AND REDUCE PROBLEMS ASSOCIATED WITH MUD OR DUST FROM BARE SOILS.
C3	DESCRIPTION OF PROPOSED POST CONSTRUCTION STORMWATER QUALITY MEASURES	THE FOLLOWING ITEMS ARE STORMWATER QUALITY MEASURES THAT WILL BE INSTALLED DURING CONSTRUCTION. THESE ITEMS WILL REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETED AND ARE CONSIDERED TO SERVE AN INCIDENTAL FUNCTION AS POST-CONSTRUCTION STORMWATER QUALITY BMPS. PERMANENT VEGETATION TOPSOIL WILL BE PLACED IN LAWN AREAS AND SEEDED WITH GRASS AND GRADED NOT TO EXCEED 3:1 SLOPE. THE VEGETATED AREAS WILL SLOW THE VELOCITIES OF STORM WATER RUNOFF, REDUCE SEDIMENT RUNOFF, AND REDUCE PROBLEMS ASSOCIATED WITH MUD OR DUST FROM BARE SOILS.
C4	SEQUENCING OF STORMWATER MEASURES	AFTER CONSTRUCTION OF THE NEW FACILITY, TOP SOIL AND PERMANENT SEEDING WILL BE IN PLACE. IF NECESSARY, EROSION CONTROL BLANKET WILL BE USED FOR AREAS WITH 3:1 OR GREATER SLOPE AND IN CONCENTRATED FLOW PATHS.
C5	DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST CONSTRUCTION STORMWATER QUALITY MEASURES	MAINTENANCE REQUIREMENTS FOR THE STORMWATER QUALITY MEASURES WHICH WILL REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETE, ARE DESCRIBED BELOW. REFER TO THE INDIANA STORMWATER QUALITY MANUAL FOR MAINTENANCE REQUIREMENTS OF ANY ADDED BMP. LAWN AND CROP AREAS SHALL BE MAINTAINED AS THEY WERE PRIOR TO CONSTRUCTION.
C6	RESPONSIBLE ENTITY	HAPPINESS BAG, INC. 3833 UNION ROAD TERRE HAUTE, INDIANA 47802 CONTACT: JODI MOAN

STORMWATER POLLUTION PREVENTION PLAN INDEX

REVISIONS

DATE	DESCRIPTION	BY

HWC ENGINEERING
www.hwcengineering.com

HOLDER DESIGN
HAPPINESS BAG

SWPPP NOTES

CONNER A. SHIPLEY
REGISTERED
No.PE12300884
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY CAS	JOB NUMBER 2024-083
CHECKED BY CS	
DATE AUGUST 26, 2024	
SCALE AS SHOWN	
SHEET	

EC4
SWPPP NOTES

GENERAL NOTES

GN-1 As used in these General Notes:
"Drawings" means the latest structural design drawings, unless noted.
"Specifications" means the latest project specifications, unless noted.
"Contract Documents" is defined as the design drawings and the specifications.
"SER" is defined as the structural engineer of record for the structure in its final condition.
"Design Professionals" is defined as the owner's architect.
"MEP" includes, but is not limited to Mechanical, Electrical, Plumbing, Fire Protection.
"Contractor" is defined to include any of the following: General Contractor and their Subcontractors, Construction Manager and their Subcontractors, Structural Steel Fabricator or Structural Steel Erector.
"Base Building Structure" is defined as the structural frame designed by MDG, LLC.
"Structure in its final condition" means all structural elements shown on the structural contract documents are installed and completely connected and inspected with no outstanding non-compliance issues.

GN-2 The Contractor is solely responsible for the stability of the structure until the construction of the structure reaches its final condition.

GN-3 The Contractor is responsible for coordination of the Structural work with the Architectural, Civil, MEP contract documents, as well as any other applicable trades. The architectural, mechanical, electrical and plumbing aspects are not in the scope of these drawings. Therefore, all required materials and work may not be indicated. Refer to architectural drawings for all dimensions not shown on these drawings. Locations, sizes and numbers of all openings may not be completely indicated in the structural drawings. The respective contractor shall verify their work with all other disciplines.

GN-4 The contractor is solely responsible for the design, installation, and removal of temporary bracing and construction supports, for new and existing structures, as necessary to complete the project. No portion of the project, while under construction, is intended to be stable in the absence of the contractor's temporary support and braces. Contractor shall retain a structural engineer, licensed in the state in which the project is to be constructed, to design temporary bracing and construction supports.

GN-5 The contract documents represent the structure only. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not limited to, bracing, shoring, underpinning, etc. the Engineer of Record is not responsible for the contractor's means, methods, techniques, sequences or safety procedures during construction.

GN-6 The specifications are an integral part of the contract documents and shall be used in conjunction with the structural drawings.

GN-7 The contractor shall verify all existing dimensions and conditions and coordinate with the structural drawings, architectural drawings, drawings from other consultants, project shop drawings and field conditions.

GN-8 Apply details, sections, and notes on the drawings where conditions are similar to those indicated by detail, detail title or note.

GN-9 Only use dimensions indicated on the drawings. Do not scale drawings.

GN-10 Assume equal spacing between established dimensions, if not indicated on drawings.

GN-11 Centerlines of columns and foundations coincide with grid line intersections, unless noted.

GN-12 Centerlines of grade beams and walls coincide with centerlines of foundations, unless noted.

GN-13 Centerlines of framing members coincide with column centerlines, unless noted.

GN-14 The contractor shall verify that construction loads do not exceed the capacity of the structure at the time the load is applied.

GN-15 Reactions and forces indicated are unfactored, Allowable Strength Design (ASD) loads.

GN-16 If Drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern.

GN-17 Notes and details shall take precedence over general structural notes. Where no details or sections are shown, construction shall conform to similar work on the project. Typical sections and details may not be cut on the plans, but apply unless noted otherwise.

GN-18 Verify all existing conditions prior to any construction or fabrication. If different than shown, notify engineer/architect immediately for modification of drawings.

GN-19 Provisions for future expansion:
Horizontal: None
Vertical: None

CODES AND DESIGN CRITERIA

CD-1 CODES

Building Code:	2012 International Building Code
Local Building Code:	Indiana Building Code 2014
Code Standard:	ASCE 7-10
Steel Standard:	AISC 360-10 ASD
Steel Seismic Standard:	AISC 341-10 ASD
Concrete Standard:	ACI 318-11
Masonry Standard:	TMS 402/602-11
Wood Standard:	AITC/APA/NDS Current Ed.
Risk Category:	II Normal Risk
Exposure Category:	B

CD-2 ROOF LOADS

	Dead	Live	Snow
Typical Roof	Per PEMB	20 psf	20 psf

CD-3 SOILS

Soils Report:	xxxxxxxxxx	
Report Date:	xx/xx/xxxx	
	Spread	Wall
Allowable Bearing Pressure, qa:	2000 psf	2000 psf
Soil Density, yt:	120 pcf	
Minimum Foundation Bearing Depth:	30 in	

CD-4 SLAB ON GRADE

Compacted Fill Thickness	6 in
Compaction Specification:	95% Standard Proctor D-698

CD-5 SNOW DESIGN CRITERIA

Ground Snow Load, Pg:	20 psf	
Flat Roof Snow Load, Pf:	20 psf	
Minimum Snow, Pm:	20 psf	
Importance Factor, Is:	1.0	
Exposure Factor, Ce:	1.0	Partially
Thermal Factor, Ct:	1.0	Heated
Warm Slope Factor, Cs:	1.0	

CD-6 WIND DESIGN CRITERIA

Ultimate Wind Speed, Vult:	115 mph
Design Wind Speed, Vasd:	90 mph
Enclosure Class:	Enclosed
Internal Pressure Coefficient, GCpi:	0.18

CD-7 SEISMIC DESIGN CRITERIA

Importance Factor, Ie:	1.0
Ss:	0.271
S1:	0.117
SDS:	0.286
SD1:	0.182
Site Class:	D
Seismic Design Category:	C
Overstrength Factor, Ω:	3
Seismic Response Coefficient, CS:	0.095
Response Modification Coeff., R:	3
Unfactored Design Base Shear, V:	9.5% * W

014000 DELEGATED DESIGN

SSE-1 DELEGATED DESIGN REQUIREMENTS
A Specialty Structural Engineer (SSE), registered in the state in which the project is to be constructed, shall be responsible for the structural design of the following products and systems complying with specific performance and design criteria indicated.

1. Pre-Engineered Metal Building
2. Cold-Formed Steel CFS wall studs, CFS floor joists and accessories.
3. Stairs, ladders, and railings.

SSE-2 The contractor is to review each submittal prior to forwarding to architect and structural engineer. The contractor is to stamp each submittal verifying that the following is addressed:
1. The shop drawing is requested.
2. The shop drawing is based on the latest design.
3. The architect' s and structural engineer' s comments from any previous submittals are addressed.
4. The work is coordinated among all construction trades.
5. Revisions from previous submittals are clearly marked by circling or clouds.
6. Submittal is complete.
7. Submittal does not include substitution request
8. Submittal shall include a stamp indicating project name and location, submittal number, specification section number.

The structural engineer shall return, without comment, submittals which the contractor has not stamped, or which do not meet the above requirements. The structural engineer's review of submittals shall be for general conformance with the design intent. No work shall be started without such review.

SSE-3 The structural engineer will return the shop drawing items within ten working days after having received the reproducible shop drawing.

020000 SHALLOW FOUNDATION AND SLAB ON GRADE NOTES

SF-1 Soil to be stripped, compacted and tested in accordance with the recommendations of the soils engineer and project specifications.

SF-2 Footings shall be placed on firm, undisturbed soil or on engineered fill.
Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

SF-3 Slabs shall be placed on a 6" compacted, free-draining, frost-free drainage course.
Drainage Course: Narrowly graded mixture of washed crushed stone or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve. All fill shall be compacted to a minimum dry density of 95% of the standard Proctor maximum dry density (ASTM-D698), placed in 6" to 8" lifts. Pea gravel may not be used as fill. Utility trenches and excavations under the foundations or slabs shall meet the same requirements. See soils investigation report for further recommendations.

SF-4 Undercutting of the soil for foundation and/or slab placement may be required. These drawings do not indicate the entire scope of undercutting, fill or bad soil removal that may be required to attain the design soil bearing pressures. It is the responsibility of the contractor to obtain a soils investigation report, before bidding, to assess the extent of excavation and compaction that may be required to meet the design criteria. The contractor shall retain the services of a soils engineer to monitor all backfilling operations and to inspect footing bearing material. A report certified by the soils engineer shall be furnished to the architect/engineer verifying that all foundations were placed on a material capable of sustaining the design bearing pressures.

SF-5 If dewatering is required, sumps shall not be placed within the foundation excavation.

SF-6 Maintain a maximum slope between adjacent footing bearing elevations of 2 horizontal to 1 vertical. Maintain a 2 horizontal to 1 vertical slope next to existing foundations to avoid undermining foundations.

SF-7 No horizontal joints are permitted in any foundation. Vertical joints are permitted only in wall footings.

SF-8 Shallow foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width and length of all foundations.

SF-9 The bottom of all foundations shall be a minimum of 30" depth below final grade.

SF-10 Contractor to coordinate with a geotechnical engineer to verify allowable bearing capacities.

010002 EXISTING STRUCTURE NOTES

ES-1 The actual existing structure configuration, member sizes, etc. has not been field verified.

ES-2 All existing structure indicated is for reference only.

ES-3 Field verify existing structure. If existing structure varies from configuration, sizes, etc. from drawings, notify engineer of record immediately.

133419 METAL BUILDING PERFORMANCE CRITERIA

MB-1 The manufacturer and contractor shall be responsible for the complete design, fabrication and erection of the building, including mezzanine.

MB-2 The design, fabrication and erection of the building, including mezzanine, shall be performed and certified by a registered professional engineer in the state in which the project is being constructed.

MB-3 The design will be capable of supporting their own dead load, as well as all minimum loads stated on these drawings. The following additional criteria shall apply:

Roof Live Load	20 psf
Ground Snow Load	20 psf
Roof - Collateral Dead Load	10 psf
Maximum Total Building Wind Drift @ Eave Under Design Wind or Seismic Loads H/180 or 1 1/2"	
Maximum Roof Beam Total Deflection	L/240 or 2"
Maximum Roof Beam Live Load Deflection	L/360 or 1 1/2"

MB-4 All calculations and drawings shall be submitted to MDG for review and approval, a minimum of two weeks before beginning fabrication. All calculations and drawings must be approved by MDG before fabrication can begin. Calculations and drawings are to be designed and sealed by an engineer registered in the state in which the project is to be constructed.

MB-5 Submittal drawings must show complete sections, details and plans for the completed building.

033000 CAST IN PLACE CONCRETE NOTES (Foundations, Slabs, & Walls)

RC-1 All concrete shall have the following 28-day compressive strengths:

STRENGTH	LOCATION
3000 psi - 0% AE	All foundations and footings
4000 psi - 6% AE	Exterior slabs, piers, walls, columns, grade beams and concrete exposed to freezing
4000 psi - 0% AE	Interior slabs, fill for metal deck and all other interior concrete

RC-2 All reinforcing shall conform to the following concrete cover:

COVER	LOCATION
3"	Foundations & Footings: All surfaces; Exterior Slabs: Bottom; Grade Beams & Trench Footings: All surfaces; All concrete cast against soil.
2"	Exterior Walls, All Piers & All Pilasters: All surfaces; Exterior Slabs: Top; All exterior concrete
1 1/2"	Interior beams & columns: All surfaces; All concrete not exposed to weather or in contact with ground.
3/4"	Interior slabs, Walls & joists

RC-3 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Design Mixtures: For each concrete mixture.
C. Steel Reinforcement Shop Drawings: Placing Drawings that detail fabrication, bending, and placement.
D. Construction Joint Layout: Indicate proposed construction joints required to construct the structure. Location of construction joints is subject to approval of the Architect.

RC-4 INFORMATIONAL SUBMITTALS
A. Material certificates.
B. Material test reports.
C. Floor surface flatness and levelness measurements indicating compliance with specified tolerances.

RC-6 Chamfer edges of exposed concrete 3/4", unless noted.

RC-8 All finished concrete, concrete formwork and falsework shall be in accordance with ACI 301. Contractor is solely responsible for the design and construction of all formwork, falsework and shoring.

RC-9 Provide sleeves for all openings in grade beams or walls to totally separate pipe from concrete.

RC-10 Foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width, length & thickness of all foundations.

RC-11 Plastic Vapor Retarder: ASTM E 1745, Class A, not less than 10 mils (0.25 mm) thick, see specifications. Include manufacturer's recommended adhesive or pressure-sensitive joint tape.

RC-12 Bonding agent for bonding fresh concrete to hardened concrete: ASTM C 1059/C 1059M, Type II, nonredispersible, acrylic emulsion or styrene butadiene.

RC-13 FINISHING FLOORS AND SLABS
A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
B. Finish surfaces to the following tolerances, according to ASTM E 1155 (ASTM E 1155M), for a randomly trafficked floor surface:
1. Specified overall values of flatness, F(F) 40; and of levelness, F(L) 30; with minimum local values of flatness, F(F) 35; and of levelness, F(L) 24.

RC-14 CONCRETE MIXTURES FOR BUILDING ELEMENTS
A. Footings: Normal-weight concrete.
1. Minimum Compressive Strength: 3000 psi (20.7 MPa) at 28 days.
2. Maximum W/C Ratio: .56.
3. Slump Limit: 4 inches (100 mm), plus or minus 1 inch (25 mm).
B. Foundation Walls, and Elements Exposed to Freezing & Thawing: Normal-weight concrete.
1. Minimum Compressive Strength: 4000 psi (27.6 MPa) at 28 days.
2. Maximum W/C Ratio: 0.45.
3. Slump Limit: 4 inches (100 mm), plus or minus 1 inch (25 mm).
4. Air Content: 6 percent, plus or minus 1.5 percent at point of delivery for 1-inch (25-mm) nominal maximum aggregate size.
C. Interior Slabs-on-Grade and Fill for Metal Deck: Normal-weight concrete.
1. Minimum Compressive Strength: 4000 psi (27.6 MPa) at 28 days.
2. Maximum W/C Ratio: 0.45.
3. Minimum Cementitious Materials Content: 564 lb./cu. yd.
4. Slump Limit: 4 inches (100 mm), plus or minus 1 inch (25 mm).
5. Air Content: Do not allow air content of trowel-finished floors to exceed percent.
D. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301 (ACI 301M).
E. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
1. Fly Ash: 15 percent.
a. Do not use fly ash in flatwork.
F. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.
G. Admixtures: Use admixtures according to manufacturer's written instructions.
1. Use water-reducing or plasticizing admixture in concrete, as required, for placement and workability.
2. Use water-reducing and -retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
3. Use water-reducing admixture in pumped concrete and concrete with a w/c ratio below 0.50.

RC-15 STEEL REINFORCEMENT INSTALLATION
A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.
B. Install welded-wire reinforcement in longest practicable lengths on bar supports spaced to minimize sagging. Lap edges and ends of adjoining sheets at least one mesh spacing. Offset laps of adjoining sheet widths to prevent continuous laps in either direction. Lace overlaps with wire.
C. All reinforcing steel shall be shop fabricated and, where applicable, shall be wired together and conform to ASTM A-615, Grade 60.
D. All welded wire fabric shall conform to ASTM A1064, F_y(min) of 65 ksi. All welded wire fabric laps shall be 8".
E. Welded Wire Reinforcement (WWR) for slabs and fill for metal deck shall be placed in the upper-third of the slab or fill. See details.
F. All reinforcing steel shall be detailed, supplied and placed in accordance with ACI 315, ACI 318 and CRSI MSP-1

RC-15 NON-SHRINK GROUT
A. Grout shall be a non-metallic, shrinkage resistant (when tested in accordance with the latest edition of ASTM C827 or CRD-C621), premixed, non-corrosive, non-staining, product containing Portland Cement, silica sands, shrinkage compensating agents and fluidity improving compounds. grout shall have a min. compressive strength (F'_c) if 5,000 psi in 28 days.
B. Grout testing shall be performed in accordance with the latest edition of ASTM C109.

033000 CAST IN PLACE CONCRETE NOTES (Foundations, Slabs, & Walls)

RC-16 FIELD QUALITY CONTROL
A. Testing Agency: Engage a qualified testing and inspecting agency to perform tests and inspections and submit reports.
B. Inspections:
1. Steel reinforcement placement.
2. Headed bolts and studs.
3. Verification of use of required design mixture.
4. Concrete placement, including conveying and depositing.
5. Curing procedures and maintenance of curing temperature.
C. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C 172/C 172M shall be performed according to the following requirements:
1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd. (4 cu. m), but less than 25 cu. yd. (19 cu. m), plus one set for each additional 50 cu. yd. (38 cu. m) or fraction thereof.
a. When frequency of testing provides fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
3. Air Content: ASTM C 231/C 231M, pressure method, for normal-weight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
4. Concrete Temperature: ASTM C 1064/C 1064M; one test hourly when air temperature is 40 deg F (4.4 deg C) and below or 80 deg F (27 deg C) and above, and one test for each composite sample.
5. Compression Test Specimens: ASTM C 31/C 31M.
D. Cast and laboratory cure two sets of two standard cylinder specimens for each composite sample.

ABBREVIATION LEGEND

ABBR	DEFINITION	ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	GA	GAUGE (GAGE)	PAF	POWDER-ACTUATED FASTENER
ABV	ABOVE	GALV	GALVANIZED	PARTN	PARTITION
ACI	AMERICAN CONCRETE INSTITUTE	GB	GRADE BEAM	PC	PRECAST CONCRETE
ACIP	AUGERED CAST IN PLACE PILE	GC	GENERAL CONTRACTOR	PCF	POUNDS PER CUBIC FOOT
ADDL	ADDITIONAL	GLULAM	GLUE LAMINATED WOOD	PCI	PRECAST CONCRETE INSTITUTE
ADDM	ADDENDUM	GRAN	GRANULAR	PDF	POWER-DRIVEN FASTENER
ADJ	ADJUSTABLE	GWB	GYPSUM WALL BOARD	PERIM	PERIMETER
AESS	ARCHITECTURALLY EXP STRUCT. STL.			PL	PLATE
AFF	ABOVE FINISHED FLOOR			PLBG	PLUMBING
AGG	AGGREGATE	H	HIGH (HEIGHT)	PLF	POUNDS PER LINEAL FOOT
AISC	AMERICAN INST. OF STL CONSTN.	HAS	HEADED ANCHOR STUD	PLYWD	PLYWOOD
AISI	AMERICAN IRON & STEEL INSTITUTE	HC	HOLLOW CORE	PNL	PANEL
ALT	ALTERNATE	HD	HOLD DOWN	PREFAB	PREFABRICATED
ANCH	ANCHORAGE	HK	HOOK	PROJ	PROJECTION
ANSI	AMERICAN NAT. STANDARDS INST.	HORIZ	HORIZONTAL	PSF	POUNDS PER SQUARE FOOT
APA	AMERICAN PLYWOOD ASSOCIATION	HP	HIGH POINT	PSI	POUNDS PER SQUARE INCH
APPROX	APPROXIMATE			PSL	PARALLEL STRAND LUMBER
ARCH	ARCHITECT(URAL)			PPT	PRESSURE PRESERVATIVE TREATED
ASSY	ASSEMBLY	IBC	INTERNATIONAL (INDIANA) BUILDING CODE	PSC	PRESTRESSED CONCRETE
ASTM	AMERICAN SOCIETY FOR TESTING & MATLS.	ID	INSIDE DIAMETER	PT	POST TENSIONED
AVG	AVERAGE	IF	INSIDE FACE	PTD	PAINTED
AWS	AMERICAN WELDING SOCIETY	INCR	INCREASE	PRTN	PARTITION
		INFO	INFORMATION	PVMT	PAVEMENT
		INDOT	INDIANA DEPARTMENT OF TRANSPORTATION		
B/"X"	BOTTOM OF REFERENCED ITEM	INSUL	INSULATE (INSULATION)		
BB	BOND BEAM	INT	INTERIOR	QTR	QUARTER
BFF	BELOW FINISHED FLOOR	INV	INVERT	QTY	QUANTITY
BLDG	BUILDING	ISO	ISOLATION		
BLKG	BLOCKING	IT	INVERTED TEE BEAM		
BLW	BELOW			R	RADIUS
BM	BEAM			RB	RECTANGULAR BEAM (PRECAST)
BOT	BOTTOM	JBE	JOIST BEARING ELEVATION	REF	REFER TO (REFERENCE)
BP	BASEPLATE	JST	JOIST	REQD	REQUIRED
BRDG	BRIDGING	JT	JOINT	REV	REVISION (REVISED)
BRG	BEARING			RF	ROOF
BS	BOTH SIDES			RO	ROUGH OPENING
BTWN	BETWEEN	KIP	1,000 POUNDS	RTU	ROOF TOP UNIT
		KO	KNOCK OUT	RTN	RETURN
		KSF	KIPS PER SQUARE FOOT	RW	RETAINING WALL
C/C	CENTER TO CENTER	KSI	KIPS PER SQUARE INCH		
CAIS	CAISSON				
CAPY	CAPACITY			SBCA	STRUCTURAL BUILDING COMPONENTS ASSN.
CANT	CANTILEVER	L	LONG (LENGTH)	SCT	STRUCTURAL CLAY TILE
CB	CONCRETE BEAM	Ld	TENSION DEVELOPMENT LENGTH	SCHED	SCHEDULE
CC	CONCRETE COLUMN	LB	"L" BEAM	SDI	STEEL DECK INSTITUTE
CFS	COLD-FORMED STEEL	LBS	POUNDS	SE	SLAB EDGE
CIP	CAST IN PLACE	LGSF	LIGHT GAUGE STEEL FRAMING	SER	STRUCTURAL ENGINEER OF RECORD
CJ	CONTROL JOINT	LL	LIVE LOAD	SECT	SECTION
CNJ	CONSTRUCTION JOINT	LLH	LONG-LEG HORIZONTAL	SHT	SHEET
CL	CENTERLINE	LLO	LONG-LEG OUTSTANDING	SIM	SIMILAR
CLR	CLEAR(ANCE)	LLV	LONG-LEG VERTICAL	SJI	STEEL JOIST INSTITUTE
CMU	CONCRETE MASONRY UNIT	LNTL	LINTEL	SL	SLOPE
COL	COLUMN	LONG	LONGITUDINAL	SOG	SLAB ON GRADE
COLL	COLLATERAL	LP	LOW POINT	SPA	SPACE (D)(E)(ING)
CONC	CONCRETE	LVL	LAMINATED VENEER LUMBER	SPECS	SPECIFICATIONS
CONSTR	CONSTRUCTION	LW	LONG WAY	SQ	SQUARE
CONT	CONTINUOUS	LWC	LIGHTWEIGHT CONCRETE	SS	STAINLESS STEEL
CRSI	CONCRETE REINFORCING STEEL INSTITUTE			SSE	SPECIALTY STRUCTURAL ENGINEER
CTR	CENTER			STD	STANDARD
CTRD	CENTERED	MATL	MATERIAL	STIFF	STIFFENER
CW	CONCRETE WALL	MAX	MAXIMUM	STL	STEEL
		MC	MOMENT CONNECTION	STR	STRENGTH
		MECH	MECHANICAL	STRUCT	STRUCTURAL
D	DEEP (DEPTH)	MEZZ	MEZZANINE	SW	SHORT WAY
DBA	DEFORMED BAR ANCHOR	MFR	MANUFACTURER	SW	SHEAR WALL (OCCASSIONAL)
DEG	DEGREE	MIN	MINIMUM	SYMM	SYMMETRICAL
DIA	DIAMETER	MISC	MISCELLANEOUS		
DIAG	DIAGONAL	MO	MASONRY OPENING		
DIM	DIMENSION	MOM	MOMENT	T/"X"	TOP OF REFERENCED ITEM
DL	DEAD LOAD	MTL	METAL	T&B	TOP AND BOTTOM
DN	DOWN			T&G	TONGUE & GROOVE
DP	DRILLED PIER			TB	TIE BEAM
DT	DOUBLE TEE	NDS	NATIONAL DESIGN SPEC'N. FOR WOOD	TD	TRENCH DRAIN
DTL	DETAIL	NIC	NOT IN CONTRACT	TEMP	TEMPERATURE
DWG	DRAWING	NO	NUMBER	TF	TRENCH FOOTING
DWL	DOWEL	NOM	NOMINAL	THK	THICK(NESS)
		NRC	NOISE REDUCTION COEFFICIENT	TOPG	TOPPING
		NS	NEAR SIDE	TPI	TRUSS PLATE INSTITUTE
EA	EACH	NTS	NOT TO SCALE	TRANSV	TRANSVERSE
ECC	ECCENTRIC	NWC	NORMAL WEIGHT CONCRETE	TYP	TYPICAL
EF	EACH FACE				
EIFS	EXTERIOR INSULATION & FINISH SYSTEM				
EJ	EXPANSION JOINT	O/O	OUT TO OUT	UNO	UNLESS NOTED OTHERWISE
EL	ELEVATION	OA	OVERALL	UNEXC	UNEXCAVATED
ELEC	ELECTRICAL	OC	ON CENTER		
ELEV	ELEVATOR	OD	OUTSIDE DIAMETER		
ENG	ENGINEER	OF	OUTSIDE FACE	VERT	VERTICAL
EQ	EQUAL	OH	OPPOSITE HAND	VIF	VERIFY IN FIELD
EQ SPA	EQUALLY SPACED (EQUAL SPACING)	OPNG	OPENING		
EQUIV	EQUIVALENT	OPP	OPPOSITE	W	WIDE (WIDTH)
ES	EACH SIDE	OSB	ORIENTED STRAND BOARD	W/	WITH
EW	EACH WAY			WD	WOOD
EX	EXISTING			WF	WALL FOOTING
EXC	EXCAVATE (EXCAVATION)			WP	WORKING POINT
EXT	EXTERIOR			WPS	WELD PROCEDURE SPECIFICATION
				WRDA	WATER REDUCING ADMIXTURE
				WTCA	WOOD TRUSS COUNCIL OF AMERICA
FABR	FABRICATE (FABRICATOR)			WWF	WELDED WIRE FABRIC
FD	FLOOR DRAIN				
FDN	FOUNDATION				
FIN	FINISH				
FF	FINISHED FLOOR				
FLG	FLANGE				
FS	FAR SIDE				
FT	FOOT (FEET)				
FTG	FOOTING				

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SCOPE DOCUMENT

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DRAWN BY:	CHECKED BY:	PLOT SCALE:	DATE:
JNJ	DTS	AS NOTED	07/26/2024

PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: GENERAL NOTES SCHEDULES

REVISIONS

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MDG #:2024.028

SHEET NO.
S001

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2024.028

COLUMN FOOTING SCHEDULE

Number	Dimensions "W"	"L"	"T"	Reinforcing: Short Dimension QTY	Short Dimension Rebar	Short Dimension "L"	Long Dimension QTY	Long Dimension Rebar	Long Dimension "L"	Comments
F4.0	4' - 0"	4' - 0"	2' - 0"	6	#5	3' - 6"	6	#5	3' - 6"	
F5.0	5' - 0"	5' - 0"	2' - 0"	7	#5	4' - 6"	7	#5	4' - 6"	
F6.0 "A"	6' - 0"	6' - 0"	1' - 0"	8	#5	5' - 6"	8	#5	5' - 6"	
F6.0 "B"	6' - 0"	6' - 0"	2' - 0"	8	#5	5' - 6"	8	#5	5' - 6"	
F6x4	6' - 0"	4' - 0"	2' - 0"	8	#5	3' - 6"	8	#5	5' - 6"	

Column Footing Schedule Notes:
1. Reinforcing clearance at bottom and sides of footings = 3"
2. Use concrete brick of CRSI Class 3, CHCP wire bar supports @ 36".

WALL FOOTING SCHEDULE

Number	Dim's "W"	Dim's "T"	Reinforcement: Cont. Reinforcement No	Cont. Reinforcement Size	Transverse Reinforcement Size	Transverse Reinforcement Spa	Comments
WF18	1' - 6"	2' - 0"	3	#5	NA	0' - 0"	

Wall Footing Schedule Notes:
1. Reinforcing clearance at bottom and sides of footings = 3"
2. Use concrete brick of CRSI Class 3, CHCP wire bar supports @ 36".

PIER SCHEDULE

Mark	Pier Size Width	Pier Size Length	Vert Reinf No	Vert Reinf Size	Ties Size	Ties Spa	Ties Tie Type	Remarks
P12	1' - 0"	1' - 0"	4	#6	#3	1' - 0"	T1	
P18	1' - 6"	1' - 6"	4	#6	#3	1' - 0"	T1	
P20	1' - 8"	1' - 8"	6	#6	#3	1' - 0"	T1	- Provide T9 ties at additional bar locations.
P20x28	1' - 8"	2' - 4"	8	#6	#3	1' - 0"	T1	- Provide T9 ties at additional bar locations.
P28	2' - 4"	2' - 4"	10	#6	#3	1' - 0"	T1	- Provide T9 ties at additional bar locations.
P28x36	2' - 4"	3' - 0"	12	#6	#3	1' - 0"	T1	- Provide T9 ties at additional bar locations.

Pier Schedule Notes:
1. Provide 2 inch concrete cover over ties.
2. Space first tie 2" from top of footing, last tie 2" from top of pier.
3. Provide (3) ties in top of pier, spacing = 2 1/2" on center.
4. Provide CRSI typical bar bend T5 for all ties.
5. Provide CRSI typical bar bend T9 additional ties for all piers with more than four vertical bars.
6. Provide 90° Hook for all ties per CRSI detailing standards.

SOG SCHEDULE

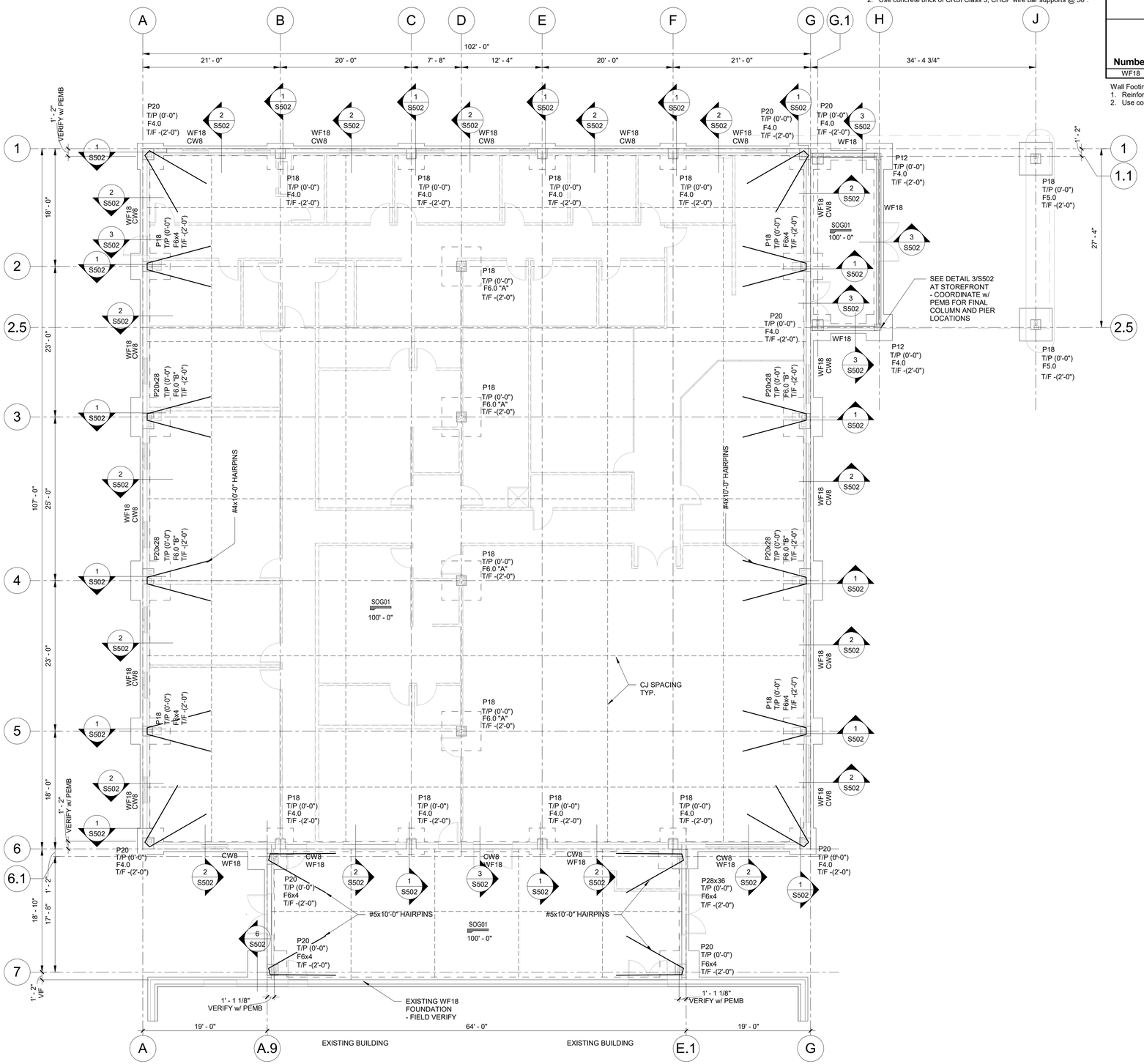
Number	"T"	Reinforcement	CLR	Sub-Base Depth	Comments
SOG01	0' - 4"	6x6-1.4xW1.4 WWF	0' - 1 1/2"	0' - 6"	

Slab on Grade Schedule Notes:
1. Reinforcing clearance is from the top of slab.

CONCRETE WALL SCHEDULE

Mark	Width	Horiz Reinf Size	Horiz Reinf Spa	Horiz Reinf Location	Vert Reinf Size	Vert Reinf Spa	Remarks
CW8	0' - 8"	#4	0' - 10"	CENTER	#5	1' - 0"	

Concrete Wall Schedule Notes:
1. Provide concrete cover to closest bar as indicated.
2. Provide wheel spacers or CRSI Typ. Bar Bend T5 at 36" each way to assure adequate concrete cover.
3. See sections for all bars not included in schedule.
4. Horizontal Bar Location: In = Horiz. bars inside of verical bars, Out = Horiz. Bars outside of vert. bars.



1 OVERALL FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +100'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. TOP OF FOOTING (T/FTG) 98'-0", UNO.
4. TOP OF WALL (T/W) 100'-0", UNO.
5. COORDINATE ALL DOOR OPENINGS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
6. 10 MIL VAPOR BARRIER UNDER SLABS.

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DRAWN BY: JNJ
CHECKED BY: DTS
PLOT SCALE: AS NOTED
DATE: 07/26/2024

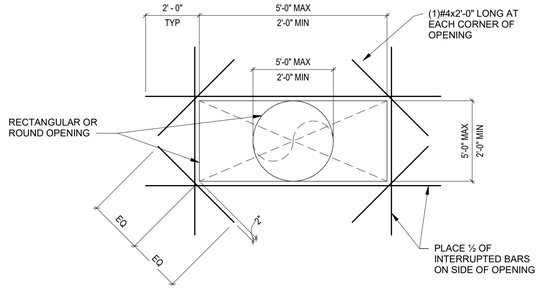
PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: FOUNDATION PLAN

REVISIONS

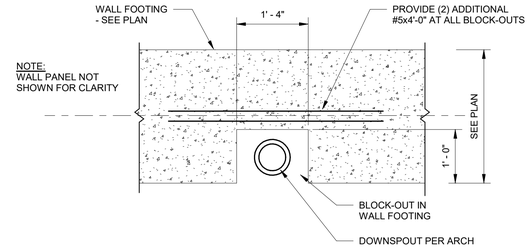
SHEET NO.
S101

JOB NO.
2024.028



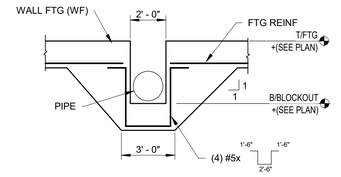
TYP SLAB OPENING

SCALE: NTS



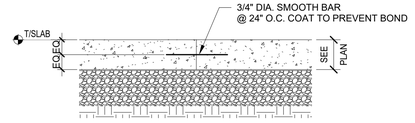
TYPICAL DOWNSPOUT BLOCK-OUT PLAN

SCALE: NTS

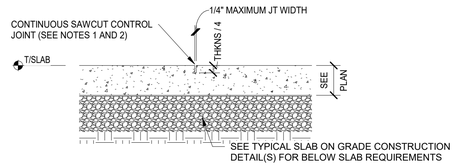


TYPICAL UTILITY BLOCK-OUT PLAN

SCALE: NTS



TYP SLAB CONSTRUCTION JT



TYP SLAB CONTROL JT

NOTES:

1. SAWCUT JOINT AS SOON AS POSSIBLE AFTER THE CONCRETE HARDENS. THE CONCRETE IS HARD ENOUGH WHEN THE BLADE DOES NOT DISLODGE AGGREGATE, AND WHEN THE EDGES OF THE CUT DO NOT RAVEL. COMPLETE SAWCUTTING BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING.
2. CURLING OF THE SLAB ON GRADE WILL OCCUR AT CONTROL JOINT LOCATIONS. FOR SLABS WITH FLOOR COVERINGS, GRINDING MAY BE REQUIRED FOR PROPER INSTALLATION OF FLOOR COVERING.
3. LAYOUT CONTROL JOINT LOCATIONS BEFORE SLAB CONSTRUCTION AND DISCONTINUE ANY SLAB REINFORCING AT JOINTS.

TYP SLAB CONSTRUCTION

SCALE: NTS

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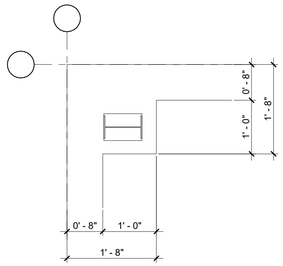
PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION:
STRUCTURAL DETAILS

REVISIONS

SHEET NO.
S501

JOB NO.
2024.028



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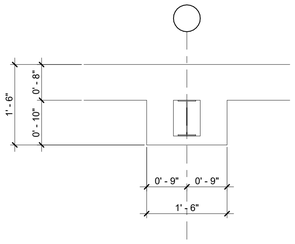

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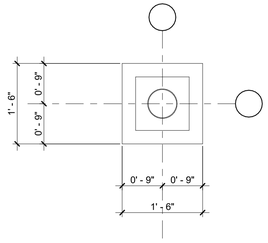

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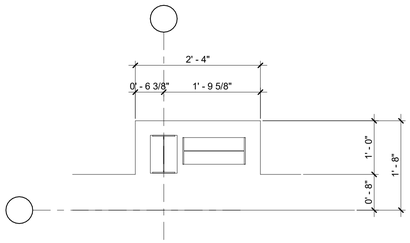

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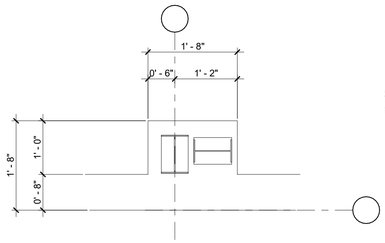

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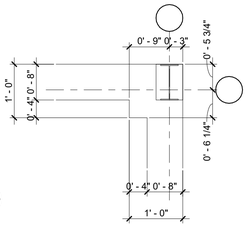
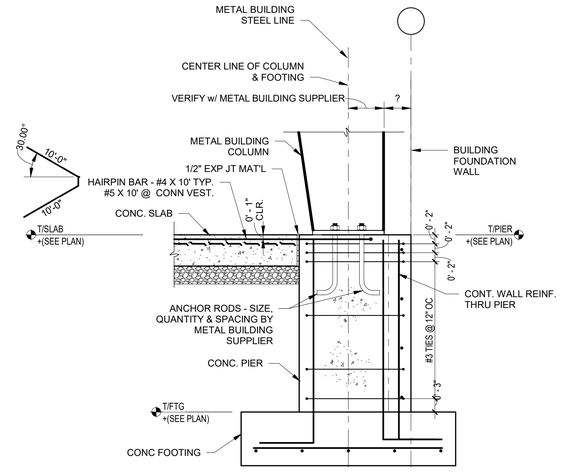
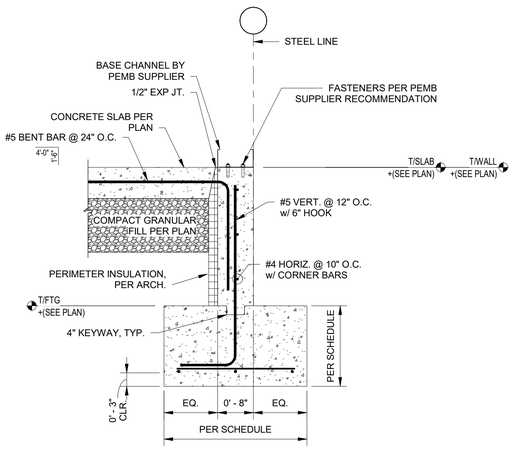


P12 @ CORNER

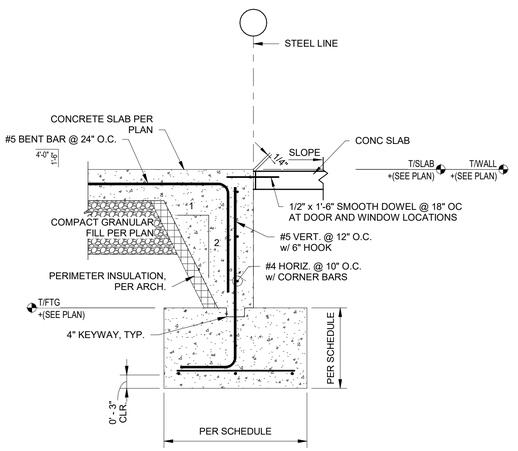
4 PIER LAYOUTS
3/4" = 1'-0"



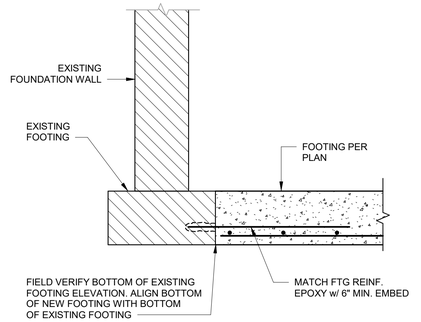
1 Section
3/4" = 1'-0"



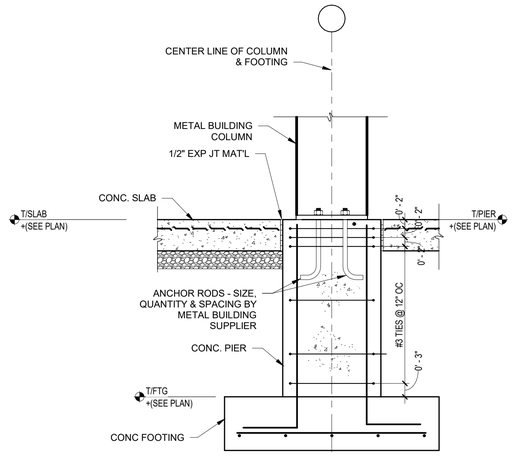
2 Section
3/4" = 1'-0"



3 Section
3/4" = 1'-0"



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



5 Section
3/4" = 1'-0"

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PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: TYPICAL FOUNDATION DETAILS

REVISIONS

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MDG #:2024.028

SHEET NO.
S502

JOB NO.
2024.028

SECTION 033000 - CAST-IN-PLACE CONCRETE

1.2 ACTION SUBMITTALS
- A. Product Data: For each type of product.
- B. Design Mixtures: For each concrete mixture.
- C. Steel Reinforcement Shop Drawings: Placing Drawings that detail fabrication, bending, and placement.
- D. Construction Joint Layout: Indicate proposed construction joints required to construct the structure. Location of construction joints is subject to approval of the Architect

1.3 INFORMATIONAL SUBMITTALS
- A. Material certificates.
- B. Material test reports.
- C. Floor surface flatness and levelness measurements indicating compliance with specified tolerances.

1.5 FIELD CONDITIONS
- A. Cold-Weather Placement: Comply with ACI 306.1.
  1. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.
- B. Hot-Weather Placement: Comply with ACI 301 (ACI 301M).

1.8 STEEL REINFORCEMENT
- A. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 (Grade 420), deformed.
- B. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded-wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice."

1.9 CONCRETE MATERIALS
- A. Cementitious Materials:
  1. Portland Cement: ASTM C 150/C 150M, Type I/II, gray.
  2. Fly Ash: ASTM C 618, Class F or C.
- B. Normal-Weight Aggregates: ASTM C 33/C 33M, graded.
  1. Maximum Coarse-Aggregate Size: 1 inch (25 mm) nominal.
  2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- C. Air-Entraining Admixture: ASTM C 260/C 260M.
- D. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures and that do not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
  1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
  2. Retarding Admixture: ASTM C 494/C 494M, Type B.
  3. Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type D.
  4. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.
- E. Water: ASTM C 94/C 94M and potable.

1.11 VAPOR RETARDERS
- A. Sheet Vapor Retarder: ASTM E 1745, Class A. Include manufacturer's recommended adhesive or pressure-sensitive tape.
  1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
     a. Stego Industries, LLC; Stego Wrap 10 mil Class A.

1.13 RELATED MATERIALS
- A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber.
- B. Bonding Agent: ASTM C 1059/C 1059M, Type II, nonredispersible, acrylic emulsion or styrene butadiene.

1.15 CONCRETE MIXTURES, GENERAL
- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301 (ACI 301M).
- B. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
  1. Fly Ash: 15 percent.
     a. Do not use fly ash in flatwork.
- C. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.
- D. Admixtures: Use admixtures according to manufacturer's written instructions.
  1. Use water-reducing or plasticizing admixture in concrete, as required, for placement and workability.
  2. Use water-reducing and -retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
  3. Use water-reducing admixture in pumped concrete and concrete with a w/c ratio below 0.50.

1.16 CONCRETE MIXTURES FOR BUILDING ELEMENTS
- A. Footings: Normal-weight concrete.
  1. Minimum Compressive Strength: 3000 psi (20.7 MPa) at 28 days.
  2. Maximum W/C Ratio: .56.
  3. Slump Limit: 4 inches (100 mm), plus or minus 1 inch (25 mm).
- B. Foundation Walls, Piers and Elements Exposed to Freezing & Thawing: Normal-weight concrete.
  1. Minimum Compressive Strength: 4000 psi (27.6 MPa) at 28 days.
  2. Maximum W/C Ratio: 0.45.
  3. Slump Limit: 4 inches (100 mm), plus or minus 1 inch (25 mm).
  4. Air Content: 6 percent, plus or minus 1.5 percent at point of delivery for 1-inch (25-mm) nominal maximum aggregate size.
- C. Interior Slabs-on-Grade and Fill for Metal Deck: Normal-weight concrete.
  1. Minimum Compressive Strength: 4000 psi (27.6 MPa) at 28 days.
  2. Maximum W/C Ratio: 0.45.
  3. Minimum Cementitious Materials Content: 564 lb/cu. yd.
  4. Slump Limit: 4 inches (100 mm), plus or minus 1 inch (25 mm).
  5. Air Content: Do not allow air content of trowel-finished floors to exceed 3 percent.

1.17 FABRICATING REINFORCEMENT
- A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

1.18 CONCRETE MIXING
- A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M, and furnish batch ticket information.
  1. When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.

1.21 VAPOR-RETARDER INSTALLATION
- A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder according to ASTM E 1643 and manufacturer's written instructions.
  1. Lap joints 6 inches (150 mm) and seal with manufacturer's recommended tape.

1.22 STEEL REINFORCEMENT INSTALLATION
- A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
  1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.
- B. Install welded-wire reinforcement in longest practicable lengths on bar supports spaced to minimize sagging. Lap edges and ends of adjoining sheets at least one mesh spacing. Offset laps of adjoining sheet widths to prevent continuous laps in either direction. Lace overlaps with wire.

1.23 JOINTS
- A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
- B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
  1. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
- C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
  1. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- (3.2-mm-) wide joints into concrete when cutting action does not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
- D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

1.25 CONCRETE PLACEMENT
- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections are completed.
- B. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
  1. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301 (ACI 301M).

1.27 FINISHING FLOORS AND SLABS
- A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- 2. Finish surfaces to the following tolerances, according to ASTM E 1155 (ASTM E 1155M), for a randomly trafficked floor surface:
  a. Specified overall values of flatness, F(F) 45; and of levelness, F(L) 35; with minimum local values of flatness, F(F) 30; and of levelness, F(L) 24.

1.28 CONCRETE PROTECTING AND CURING
- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 (ACI 301M) for hot-weather protection during curing.
- B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h (1 kg/sq. m x h) before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
- C. Formed Surfaces: Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing for remainder of curing period.
- D. Cure concrete according to ACI 308.1, by the following method(s):
  1. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.
     a. Removal: After curing period has elapsed, remove curing compound without damaging concrete surfaces by method recommended by curing compound manufacturer unless manufacturer certifies curing compound does not interfere with bonding of floor covering used on Project.
  2. Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.
     a. Apply to all slabs to remain permanently exposed to view.

1.29 CONCRETE SURFACE REPAIRS
- A. Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.

1.30 FIELD QUALITY CONTROL
- A. Testing Agency: Engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.
- B. Inspections:
  1. Steel reinforcement placement.
  2. Headed bolts and studs.
  3. Verification of use of required design mixture.
  4. Concrete placement, including conveying and depositing.
  5. Curing procedures and maintenance of curing temperature.
- C. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C 172/C 172M shall be performed according to the following requirements:
  1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd. (4 cu. m), but less than 25 cu. yd. (19 cu. m), plus one set for each additional 50 cu. yd. (38 cu. m) or fraction thereof.
     a. When frequency of testing provides fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
  2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
  3. Air Content: ASTM C 231/C 231M, pressure method, for normal-weight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
  4. Concrete Temperature: ASTM C 1064/C 1064M; one test hourly when air temperature is 40 deg F (4.4 deg C) and below or 80 deg F (27 deg C) and above, and one test for each composite sample.
  5. Compression Test Specimens: ASTM C 31/C 31M.
- D. Cast and laboratory cure two sets of two standard cylinder specimens for each composite sample.

HOLDERDESIGN, INC.

929 Beech Avenue
Pittsburgh, Pennsylvania
15233
ph. 812.249.5977
www.holderdesign.net

SCOPE DOCUMENT

THE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPT, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. AS SCOPE DOCUMENTS, THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK THAT IS REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE TRADE CONTRACTORS SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

DRAWN BY:	CHECKED BY:	PLOT SCALE:	DATE:
JNJ	DTS	AS NOTED	07/26/2024

PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: SHEET SPECS

REVISIONS

MIDWEST DESIGN GROUP

6205 Rucker Road
Indianapolis, IN 46220
www.Midwest-DesignGroup.com

MDG #:2024.028

SHEET NO.
S701

JOB NO.
2024.028

1 A1.1 LIFE SAFETY PLAN

SCALE: 3/16" = 1'-0"

KEY:

FEC FIRE EXTINGUISHER CABINET - GRAINGER ITEM #1RK38, SEMI-RECESSED CABINET TO BE PAINTED. INCLUDE 10LB ABC FIRE EXTINGUISHER. VERIFY FINAL PLACEMENT WITH OWNER

CODE ANALYSIS

PROPOSED USE

AREA	13,125 SQUARE FEET
CONSTRUCTION TYPE	TYPE II-B
OCCUPANCY CLASSIFICATION	I-4 - INSTITUTIONAL GROUP

EXITING & TRAVEL DISTANCES

OCCUPANT LOAD PER 1004.1.2	ASSEMBLY UNCONCENTRATED: 2,358 SF/ 15 NET = 75 EDUCATION VOCATIONAL: 1,500 SF/ 50 NET = 30 BUSINESS: ASSIGNED DESKS = 28 OCCUPANT LOAD: 133
NUMBER OF EXITS PER 1015.1	2 EXIT REQUIRED 4 EXITS ARE PROVIDED OK
TRAVEL DISTANCE PER 1016.2	200'-0" ALLOWED MAXIMUM TRAVEL DISTANCE: 115'-0" OK

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SCOPE DOCUMENT

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MATTHEW LYNN HOLDER REGISTERED No 10300133 STATE OF INDIANA ARCHITECT

09/03/24

DRAWN BY:	CHECKED BY:	PLOT SCALE:	DATE:
MLH	MLH	AS NOTED	08.02.2024

PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: LIFE SAFETY PLAN

REVISIONS

SHEET NO.
A1.1

JOB NO.
A24-006

1 PARKING

A. THE FOLLOWING TABLE ESTABLISHES THE NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED:

TOTAL NUMBER OF PARKING SPACES	NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED
1- 25	1
26- 50	2
51- 75	3
76- 100	4
101- 150	5
151- 200	6
201- 300	7
301- 400	8
401- 500	9
501- 1000	2% OF TOTAL
+ 1000	20 + 1 FOR EACH 100 OVER 1000

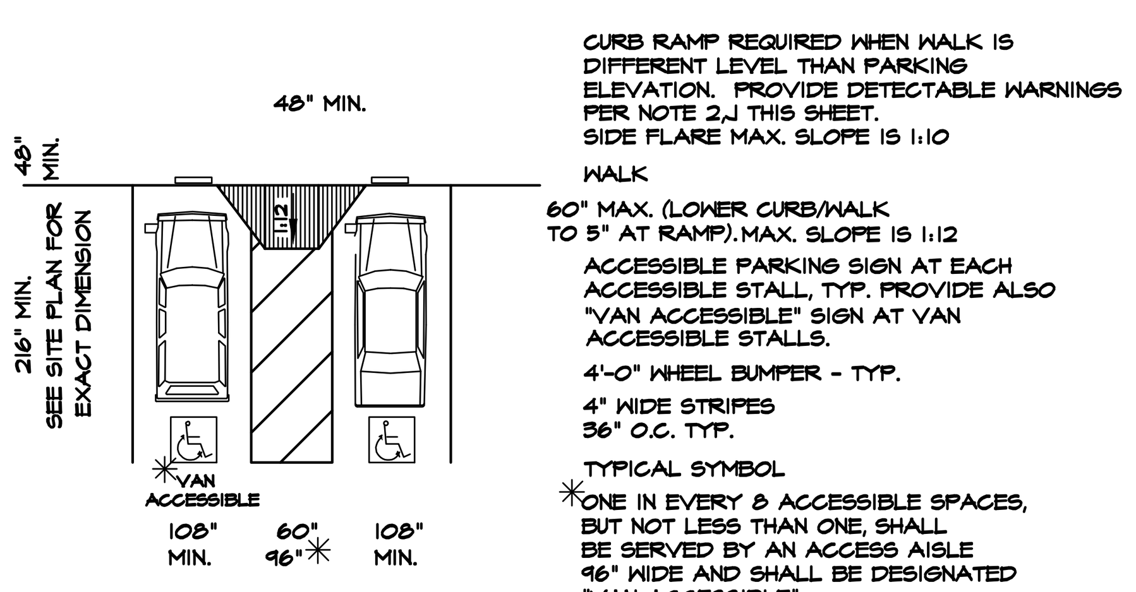
B. SURFACE SLOPES OF PARKING SPACES FOR PERSONS WITH PHYSICAL DISABILITIES SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 1/4 INCH PER FOOT (2 % GRADIENT) IN ANY DIRECTION.

C. EACH PARKING SPACE RESERVED FOR PERSONS WITH PHYSICAL DISABILITIES SHALL BE IDENTIFIED BY A PERMANENTLY AFFIXED REFLECTORIZED SIGN CONSTRUCTED OF PORCELAIN ON STEEL, BEADED TEXT, OR EQUAL, DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SIGN SHALL NOT BE SMALLER THAN 70 SQ. INCHES IN AREA AND SHALL BE CENTERED AT THE INTERIOR END OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 80 INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE, OR CENTERED ON THE WALL AT THE INTERIOR END OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 36 INCHES FROM THE PARKING SPACE FINISHED GRADE, GROUND, OR SIDEWALK. A SIGN SHALL ALSO BE POSTED, IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO THE OFF-STREET PARKING FACILITY, NOT LESS THAN 17 INCHES X 22 INCHES IN SIZE WITH LETTERING NOT LESS THAN 2 INCH IN HEIGHT, WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING: "UNAUTHORIZED VEHICLES NOT DISPLAYING DISTINGUISHING PLACARDS OR LICENSE PLATES ISSUED FOR PERSONS WITH PHYSICAL DISABILITIES MAY BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT

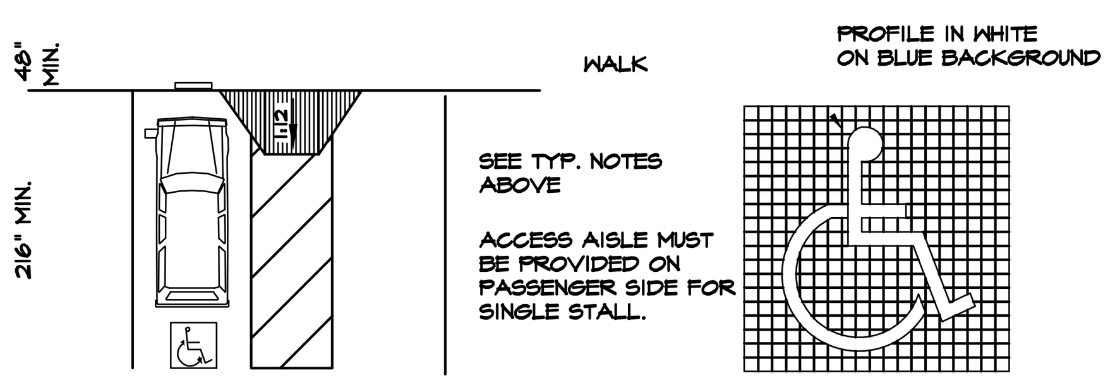
____

OR BY TELEPHONING ________________________."

IN ADDITION TO THE ABOVE REQUIREMENTS, THE SURFACE OF EACH PARKING SPACE SHALL HAVE A SURFACE IDENTIFICATION, 3 FEET SQUARE, DUPLICATING THE SYMBOL OF ACCESSIBILITY IN BLUE PAINT.

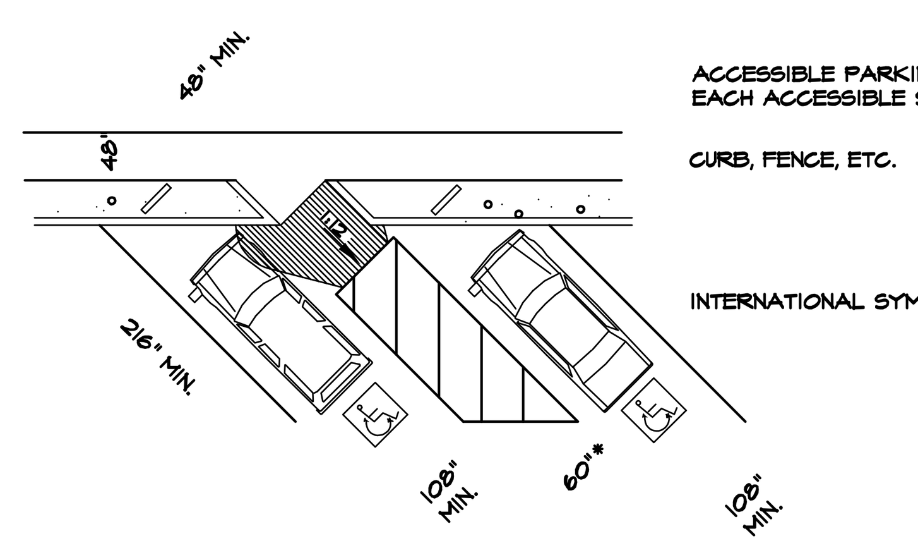


ACCESSIBLE SPACES, DOUBLE TYPE



ACCESSIBLE SPACES, SINGLE TYPE

INTERNATIONAL SYMBOL OF ACCESSIBILITY



ACCESSIBLE SPACES, DOUBLE DIAGONAL TYPE

2 CURB RAMPS

A. CURB RAMPS SHALL BE CONSTRUCTED AT EACH CORNER OF STREET INTERSECTIONS AND WHERE A PEDESTRIAN WAY CROSSES A CURB. THE PREFERRED AND RECOMMENDED LOCATION FOR CURB RAMPS IS IN THE CENTER OF THE CROSSWALK OF EACH STREET CORNER. WHERE IT IS NECESSARY TO LOCATE A CURB RAMP IN THE CENTER OF THE CURB RETURN AND THE STREET SURFACES ARE MARKED TO IDENTIFY PEDESTRIAN CROSSWALKS, THE LOWER END OF THE CURB RAMPS SHALL TERMINATE WITHIN SUCH CROSSWALKS.

B. CURB RAMPS SHALL BE A MINIMUM OF 4 FEET IN WIDTH AND SHALL LIE, GENERALLY, IN A SINGLE SLOPED PLANE WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.

C. BUILT-UP CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES.

D. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS EXCLUDING ANY FLARED SIDES.

E. THE SLOPE OF CURB RAMPS SHALL NOT EXCEED 1 VERTICAL TO 12 HORIZONTAL. THE SLOPE OF THE FANNED OR FLARED SIDES OF CURB RAMPS SHALL NOT EXCEED 1 VERTICAL TO 10 HORIZONTAL. (ADA)

F. A LEVEL LANDING 4 FEET DEEP SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP OVER ITS FULL WIDTH TO PERMIT SAFE EGRESS FROM THE RAMP SURFACE, OR THE SLOPE OF THE FANNED OR FLARED SIDES OF THE CURB RAMP SHALL NOT EXCEED 1 VERTICAL TO 12 HORIZONTAL.

G. THE LOWER END OF EACH CURB RAMP SHALL HAVE A 1/2 INCH LIP BEVELED AT 45 DEGREES.

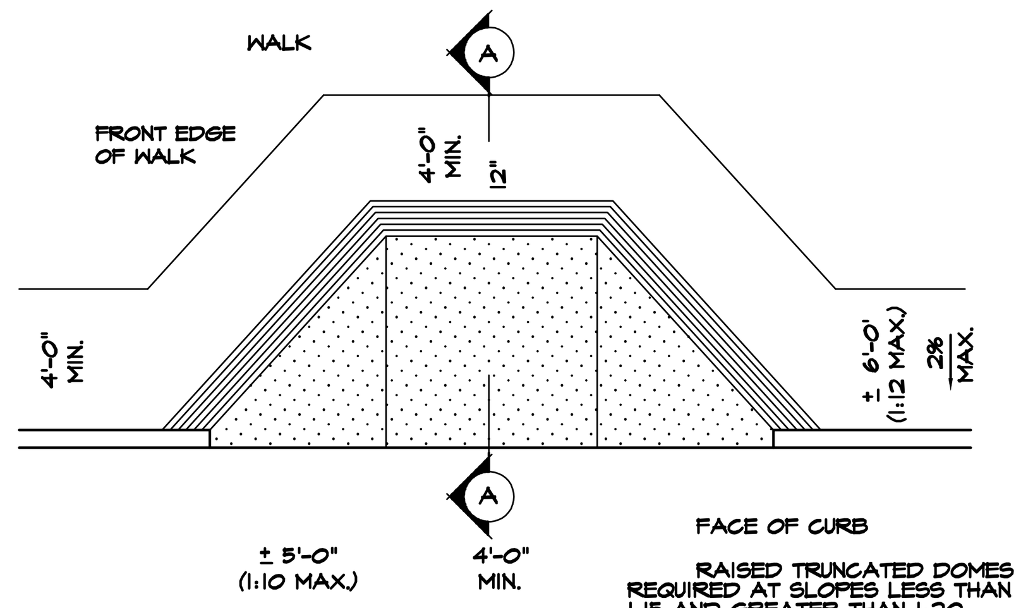
H. THE SURFACE OF EACH CURB RAMP AND ITS FLARED SIDES SHALL BE STABLE, FIRM AND-RESISTANT AND SHALL BE OF A CONTRASTING FINISH FROM THAT OF THE ADJACENT SIDEWALK.

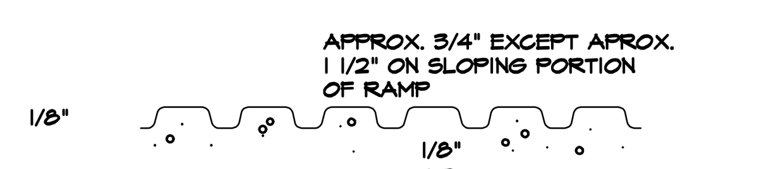
I. ALL CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES WIDE AT THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP AND EACH SIDE APPROXIMATELY 3/4 INCH ON CENTER. ALL CURB RAMPS CONSTRUCTED BETWEEN THE FACE OF THE CURB AND THE STREET SHALL HAVE A GROOVED BORDER AT THE LEVEL SURFACE OF THE SIDEWALK.

J. A CURB RAMP SHALL HAVE A DETECTABLE WARNING THAT EXTENDS THE FULL WIDTH AND DEPTH OF THE CURB RAMP INSIDE THE GROOVED BORDER WHEN THE RAMP SLOPE IS LESS THAN 1 UNIT VERTICAL TO 15 UNITS HORIZONTAL (6.7% SLOPE). DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL .9 INCHES, A HEIGHT OF NOMINAL .2 INCHES AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

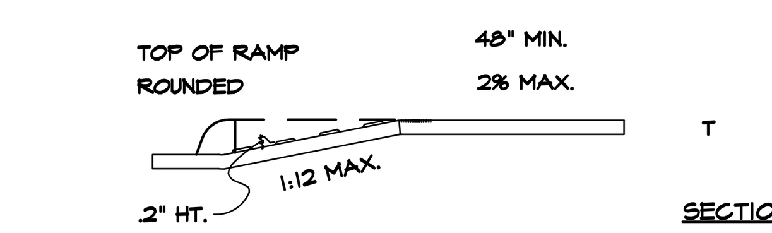
K. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.

L. IF DIAGONAL CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL-DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW.. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE 48 INCHES MINIMUM CLEAR SPACE. IF DIAGONAL CURB RAMPS ARE PROVIDED AT MARKED CROSSINGS, THE 48 INCH CLEAR SPACE SHALL BE WITHIN THE MARKINGS. IF DIAGONAL CURB RAMPS HAVE FLARED SIDES, THEY SHALL ALSO HAVE AT LEAST A 24 INCH LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.





GROOVING DETAIL



SECTION A-A

3 WALKS AND SIDEWALKS

A. WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2 INCH, AND SHALL BE A MINIMUM OF 4 FEET IN WIDTH.

B. SURFACES WITH A SLOPE OF LESS THAN 6 PERCENT GRADIENT SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.

C. SURFACES WITH A SLOPE OF 6 PERCENT GRADIENT OR GREATER SHALL BE SLIP-RESISTANT.

D. SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4 INCH PER FOOT.

E. WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE OF GRATING WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/4 INCH IN THE DIRECTION OF TRAFFIC FLOW.

F. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL IT SHALL COMPLY WITH THE PROVISIONS FOR PEDESTRIAN RAMPS.

G. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH MAY BE VERTICAL. WHEN CHANGES IN LEVEL GREATER THAN 1/2 INCH ARE NECESSARY COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS.

H. WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60 INCHES BY 60 INCHES AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48 INCHES WIDE BY 44 INCHES DEEP THAT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK. SUCH WALKS SHALL EXTEND 24 INCHES TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK.

I. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS OF AT LEAST 5 FEET IN LENGTH AT INTERVALS OF AT LEAST EVERY 400 FEET.

J. IF A WALK CROSSES OR ADJOINS A VEHICULAR WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36 INCHES WIDE, CONSISTING OF TRUNCATED DOMES. SEE RAMP DETAIL ABOVE.

4 RAMPS

A. ANY PATH OF TRAVEL SHALL BE CONSIDERED A RAMP IF ITS SLOPE IS GREATER THAN 1:20 (1:12 MAXIMUM)

B. RAMPS WITH A RISE GREATER THAN 6 INCHES AND A HORIZ. PROJECTION GREATER THAN 72 INCHES SHALL HAVE HANDRAILS ON BOTH SIDES.

C. THE TOP LANDINGS ON A RAMP MUST BE AT LEAST 60 INCHES IN DEPTH.

D. IF A DOOR SWINGS ONTO A TOP LANDING, THE MIN. LANDING DIMENSION SHALL BE NOT LESS THAN 42 INCHES CLEAR PLUS THE WIDTH OF THE DOOR.

E. THE TOP LANDING SHALL HAVE A WIDTH NOT LESS THAN ITS DEPTH.

F. THE TOP LANDING SHALL EXTEND NOT LESS THAN 24-INCHES BEYOND THE STRIKE SIDE OF THE DOOR AT EXTERIOR RAMPS AND 18-INCHES AT INTERIOR RAMPS.

G. THE BOTTOM LANDING SHALL BE NOT LESS THAN 72 INCHES DEEP

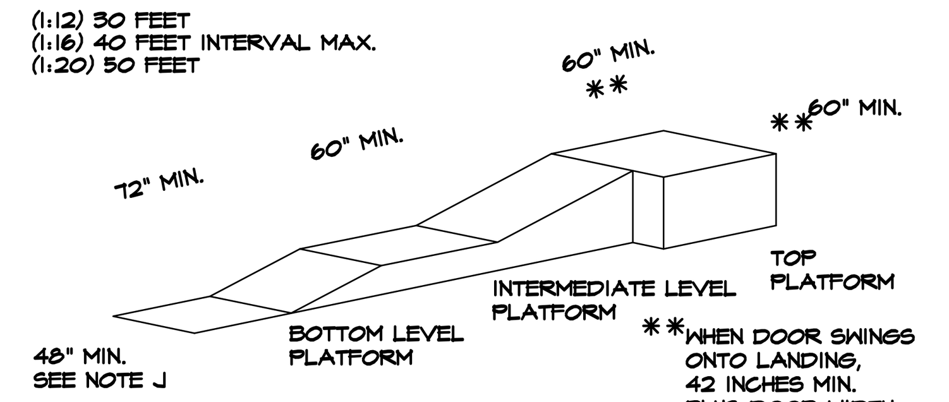
H. INTERMEDIATE LANDINGS SHALL BE PROVIDED AT TURNS AND WHENEVER THE CHANGE IN LEVEL EXCEEDS 30 INCHES.

I. INTERMEDIATE LANDINGS ON STRAIGHT RAMPS SHALL HAVE A DEPTH OF NOT LESS THAN 5'-0" INTERMEDIATE LANDINGS ON RAMPS THAT TURN GREATER THAN 30 DEGREES SHALL BE NOT LESS THAN 6'-0" IN DEPTH.

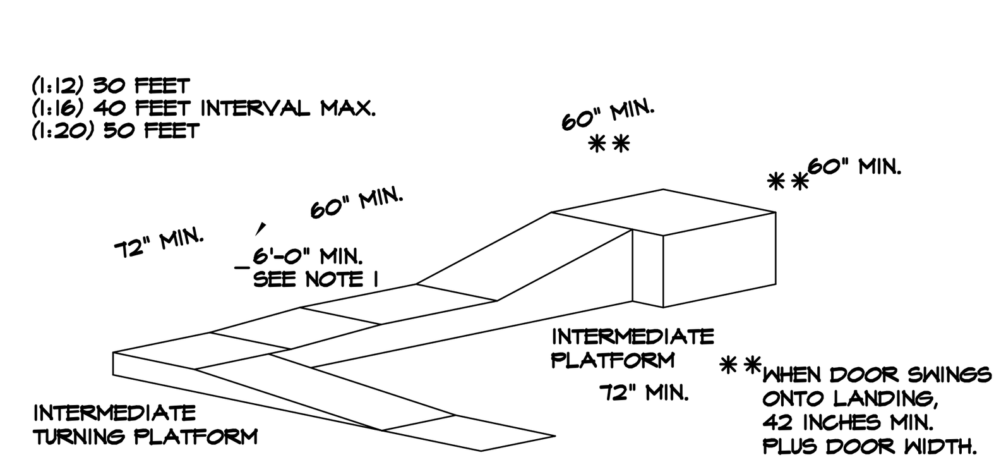
J. RAMPS SHALL BE NOT LESS THAN 4'-0" WIDE. RAMPS SERVING A PRIMARY ENTRANCE FOR AN OCCUPANT LOAD OF 300 OR MORE PEOPLE SHALL BE NOT LESS THAN 5'-0" WIDE.

K. HANDRAILS SHALL BE PLACED ON EACH SIDE OF EACH RAMP AND SHALL BE CONTINUOUS THE FULL LENGTH OF THE RAMP. HANDRAILS SHALL BE 34 TO 38 INCHES ABOVE THE RAMP SURFACE AND EXTEND A MINIMUM OF 1 FOOT BEYOND THE TOP AND BOTTOM OF THE RAMP.

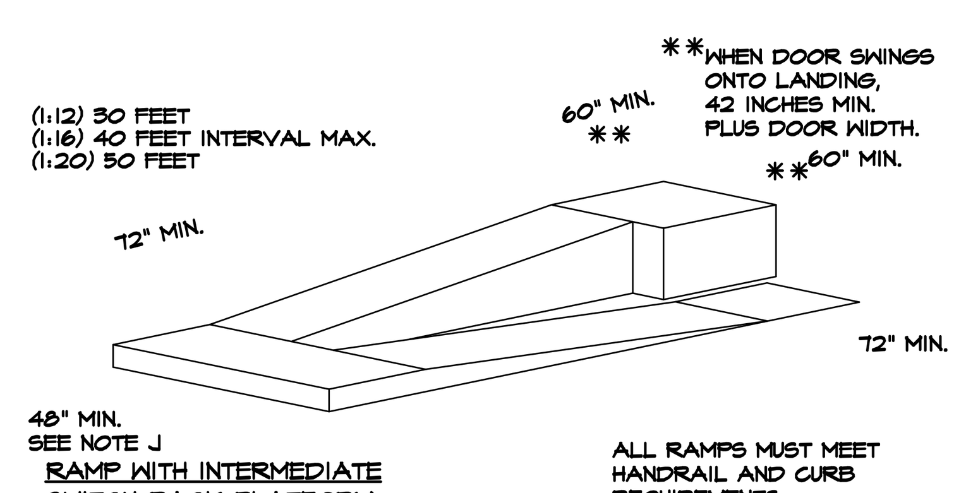
L. SURFACES OF RAMPS SHALL BE SLIP-RESISTANT



STRAIGHT RAMP RUN



RAMP WITH TURNING PLATFORM



RAMP WITH INTERMEDIATE SWITCH-BACK PLATFORM

ALL RAMPS MUST MEET HANDRAIL AND CURB REQUIREMENTS.

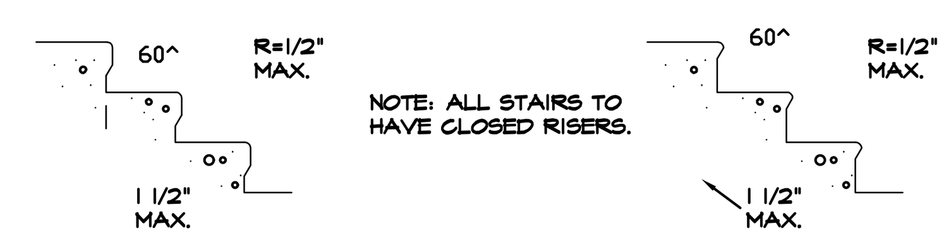
RAMPS

5 STAIRS

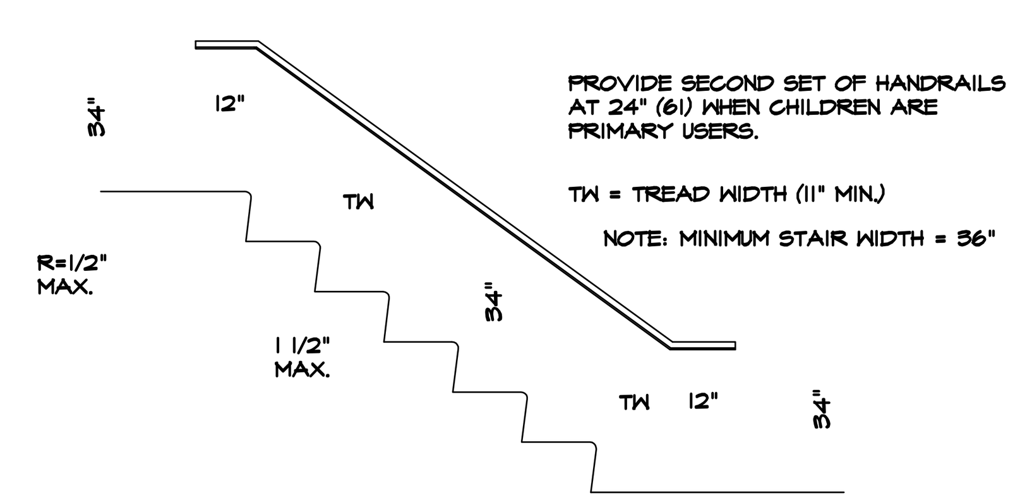
A. STAIRWAYS SHALL HAVE HANDRAILS ON EACH SIDE. HANDRAILS MUST BE 1 1/4 INCHES TO 1 1/2 INCHES IN EITHER CROSS SECTIONAL DIMENSION AND 1 1/2 INCHES CLEAR FROM THE WALL. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH

B. EXTERIOR STAIRS: CAST IRON (NON-SKID) STAIR NOSINGS MIN. 2" WIDE CONTRASTING COLOR STRIPE AT UPPER APPROACH AND AT EVERY TREAD.

C. INTERIOR STAIRS: MINIMUM 2 INCH WIDE CONTRASTING COLOR STRIPE AT UPPER APPROACH AND LOWER TREAD OF EACH FLIGHT OF STAIRS TO BE LOCATED 1 INCH FROM NOSING. STRIPE TO BE AS SLIP-RESISTANT AS STAIR TREADS.



STAIRS



HANDRAILS

6 DOORS

A. LATCHES AND LOCKSETS: PROVIDE LEVER TYPE, PUSH-PULL OR PANIC TYPE HARDWARE 30 INCHES TO 44 INCHES ABOVE FLOOR.

B. ADJUSTABLE CLOSURE PROVIDED WITH MAXIMUM PRESSURE FOR OPENING DOORS AS FOLLOWS:

INTERIOR DOORS	- 5 POUNDS PRESSURE
EXTERIOR DOORS	- 8.5 POUNDS PRESSURE
FIRE DOORS	- 15 POUNDS PRESSURE

ADJUST CLOSURES AFTER INSTALLATION AND TEST DOOR COMPLIANCE.

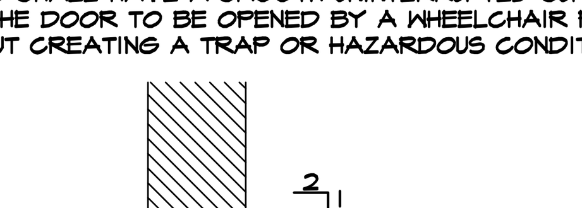
C. FLOOR LEVEL AT DOORS

THRESHOLDS: THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOOR WAY. CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. (SEE BELOW).

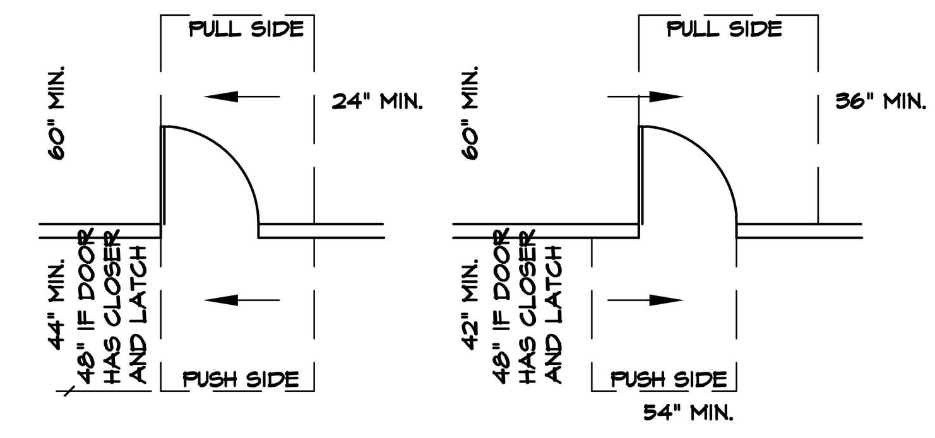
LEVEL FLOOR OR LANDING: THERE SHALL BE A LEVEL AND CLEAR AREA ON EACH SIDE OF AN EXIT DOOR. THE LEVEL AREA SHALL BE AS SHOWN IN FIGURE 6A. THE SPACE BETWEEN TWO CONSECUTIVE DOOR OPENING (VESTIBULE) SHALL PROVIDE 48 INCHES OF CLEAR SPACE FROM ANY DOOR OPENING INTO SUCH SPACE (SEE BELOW).

D. DOOR WIDTH & HEIGHT: 3 FEET WIDE AND 6 FEET 8 INCHES HIGH. CLEAR WIDTH: 32 INCHES MINIMUM WITH DOOR OPEN 90 DEG. MEASURED FROM THE FACE OF THE DOOR TO THE OPPOSITE STOP.

E. THE BOTTOM 16 INCHES (ADA) OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOT-REST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

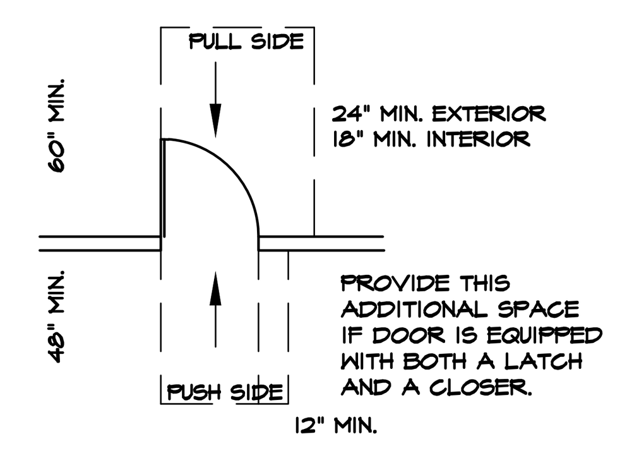


THRESHOLDS



LATCH APPROACH

HINGE APPROACH



FRONT APPROACH

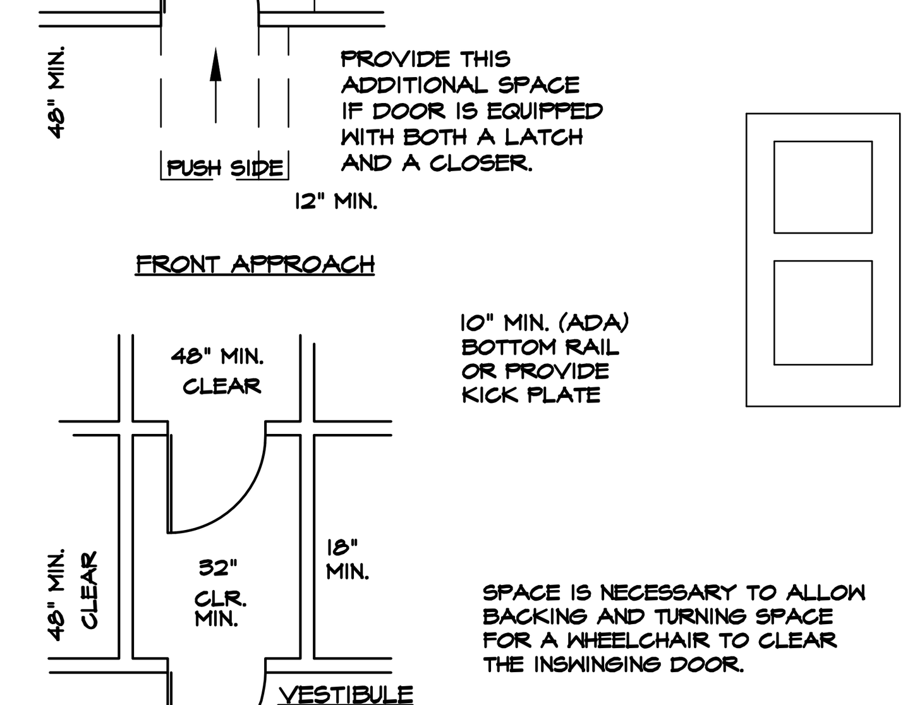


FIGURE 6A

7 PROTRUDING OBJECTS

A. PROJECTIONS FROM WALLS WITH LEADING EDGE BETWEEN 27 INCHES AND 80 INCHES ABOVE FLOOR MAY PROJECT 4 INCHES MAXIMUM. LEADING EDGE AT OR BELOW 27 INCHES MAY PROJECT ANY AMOUNT. FREE STANDING PROJECTIONS WITH LEADING EDGE BETWEEN 27 INCHES & 80 INCHES ABOVE FLOOR MAY PROJECT 12 INCHES MAX. PROJECTIONS MAY NOT REDUCE MANEUVERING SPACE, OR CLEAR WIDTH OF AN ACCESSIBLE ROUTE.

B. HEAD ROOM: 80 INCHES MINIMUM.

8 ELECTRICAL

A. ELECTRICAL RECEPTACLES (15, 20 AND 30 AMPS) SHALL BE AT LEAST 15 INCHES ABOVE THE FLOOR.

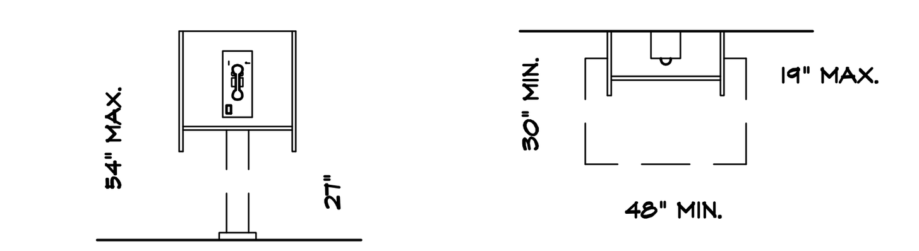
B. SWITCHES AND CONTROLS FOR LIGHTS, APPLIANCES, COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE NOT LESS THAN 3 FEET NOR MORE THAN 4 FEET ABOVE THE FLOOR.

C. FIRE ALARM INITIATING DEVICES SHALL BE 48 INCHES ABOVE THE FLOOR, GROUND OR SIDEWALK.

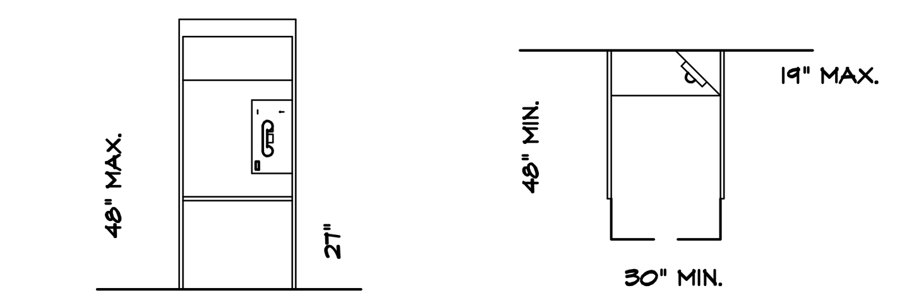
9 PUBLIC TELEPHONES

A. A CLEAR FLOOR OR GROUND SPACE AT LEAST 30 INCHES IN BY 48 INCHES THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT TELEPHONES. BASES, ENCLOSURES, AND FIXED SEATS SHALL NOT IMPEDE APPROACHES BY PEOPLE WHO USE WHEELCHAIRS.

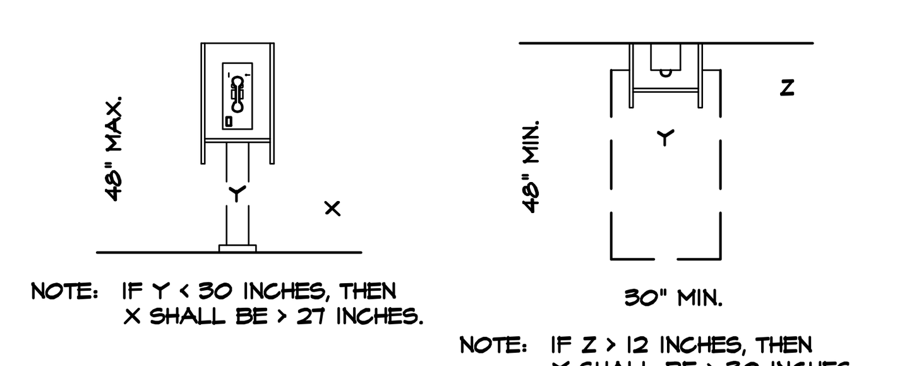
B. THE HIGHEST OPERABLE PART OF THE TELEPHONE SHALL BE NO HIGHER THAN 54 INCHES WHERE SIDE REACH IS POSSIBLE, AND NO HIGHER THAN 48 INCHES WHERE FORWARD REACH IS REQUIRED.



SIDE REACH POSSIBLE



FULL HEIGHT ENCLOSURE



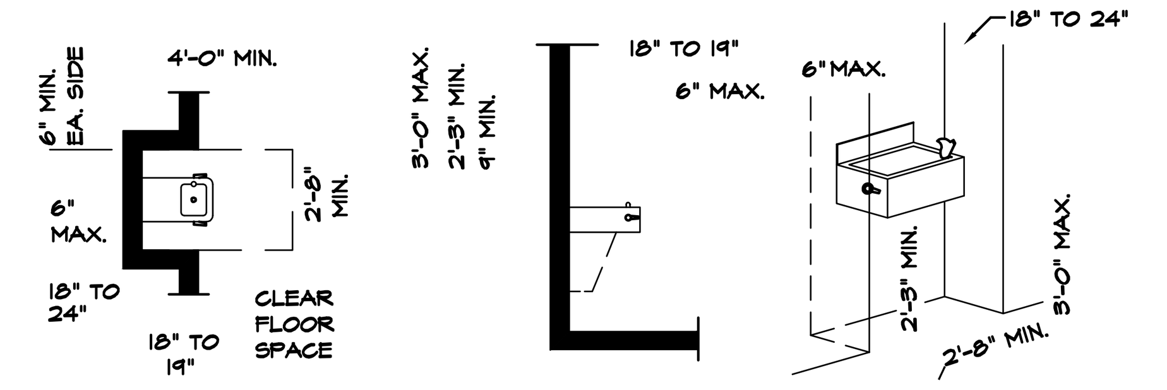
FORWARD REACH REQUIRED

10 DRINKING FOUNTAINS

A. THE BUBBLER CAN BE ACTIVATED BY A HAND OPERATED LEVER LOCATED WITHIN 6 INCHES OF THE FRONT OF THE FOUNTAIN OR BY A PUSH BAR ALONG THE FRONT OF THE FOUNTAIN

B. A SECOND DRINKING FOUNTAIN SHALL BE PROVIDED WITH A BUBBLER HEIGHT OF ± 46" FOR PEOPLE WHO HAVE DIFFICULTY BENDING OR STOOPING.

C. THE BUBBLER SHALL PROVIDE A FLOW OF WATER AT LEAST 4 INCHES HIGH. ON A FOUNTAIN WITH A ROUND OR OVAL BOWL, THE SPOUT MUST BE POSITIONED SO THE FLOW OF WATER IS WITHIN 3 INCHES OF THE FRONT EDGE OF THE FOUNTAIN.



DRINKING FOUNTAINS

11 SANITARY FACILITIES

A. GEOMETRICAL SYMBOLS

1. ON DOORWAYS LEADING TO MEN'S SANITARY FACILITIES, AN EQUILATERAL TRIANGLE 1/4 INCH THICK WITH EDGES 12 INCHES LONG AND VERTEX POINTING UPWARD.
2. ON WOMEN'S SANITARY FACILITIES A CIRCLE 1/4 INCH THICK AND 12 INCHES IN DIAMETER.

2A.ON UNISEX SANITARY FACILITIES A CIRCLE 1/4 INCH THICK AND 12 INCHES IN DIA. WITH A 1/4" THICK TRIANGLE SUPER-IMPOSED ON THE CIRCLE.

3. THESE GEOMETRICAL SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60 INCHES AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.
4. RAISED AND BRAILLED CHARACTERS AND PICTORIAL SYMBOL SIGNS. LETTERS AND NUMERALS SHALL BE RAISED 1/32 IN. UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8 IN HIGH, BUT NO HIGHER THAN 2 IN. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 IN. MINIMUM IN HEIGHT.

B. ACCESSIBLE COMPARTMENT DOORS SHALL BE EQUIPPED WITH AN AUTOMATIC CLOSING DEVICE. THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING, OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.

C. WATER CLOSET: FLUSH CONTROLS ARE TO BE OPERABLE BY AN OSCILLATING HANDLE WITH A MINIMUM OPERATING FORCE OF 3 LB/F OR BY A LOW VOLTAGE BUTTON. THE HANDLE OR BUTTON IS TO BE LOCATED SO AS TO BE OPERABLE WITHOUT REQUIRING EXCESSIVE BODY MOVEMENT.

D. URINALS: PROVIDE ALL WALL HUNG URINALS WITH ELONGATED RIM. FLUSH CONTROLS ARE TO BE HAND OPERATED AND ARE TO MEET THE SAME REQUIREMENTS AS THE FLUSH CONTROLS FOR THE WATER CLOSET AND ARE TO BE A MAXIMUM OF 44 INCHES ABOVE THE FLOOR. RIM ELEVATION TO BE 17 INCHES A.F.F.

E. LAVATORY: PROVIDE A CLEARANCE OF AT LEAST 29 INCHES FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30 INCHES WIDE, TO 8 INCHES MINIMUM DEPTH AT THE TOP. PROVIDE FOR THE CLEARANCE AT LEAST 30 INCHES WIDE, TO 9 INCHES ABOVE THE FLOOR AND 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY. PROVIDE A CLEAR FLOOR SPACE 30 INCHES X 48 INCHES IN FRONT OF LAVATORY. THE CLEAR SPACE MAY EXTEND INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY. INSULATE HOT WATER AND DRAIN PIPES UNDER LAVATORIES. NO SHARP OR ABRASIVE SURFACES ARE ALLOWED UNDER LAVATORIES. FAUCET CONTROLS ARE REQUIRED TO BE OPERABLE WITH ONE HAND AND CANNOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE NECESSARY TO OPERATE CONTROLS IS NOT TO EXCEED 5 LB/F.

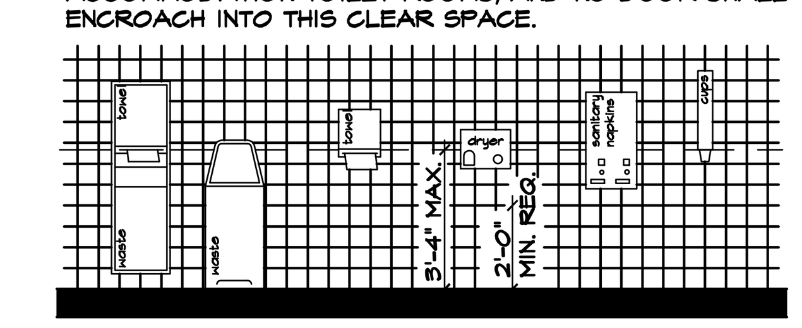
F. ACCESSORIES: WHERE TOWEL, SANITARY NAPKIN AND WASTE RECEPTACLES AND SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE IS TO BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40 INCHES FROM THE FLOOR.

MOUNT MIRRORS WITH THE BOTTOM EDGE NO MORE THAN 40 INCHES FROM THE FLOOR.

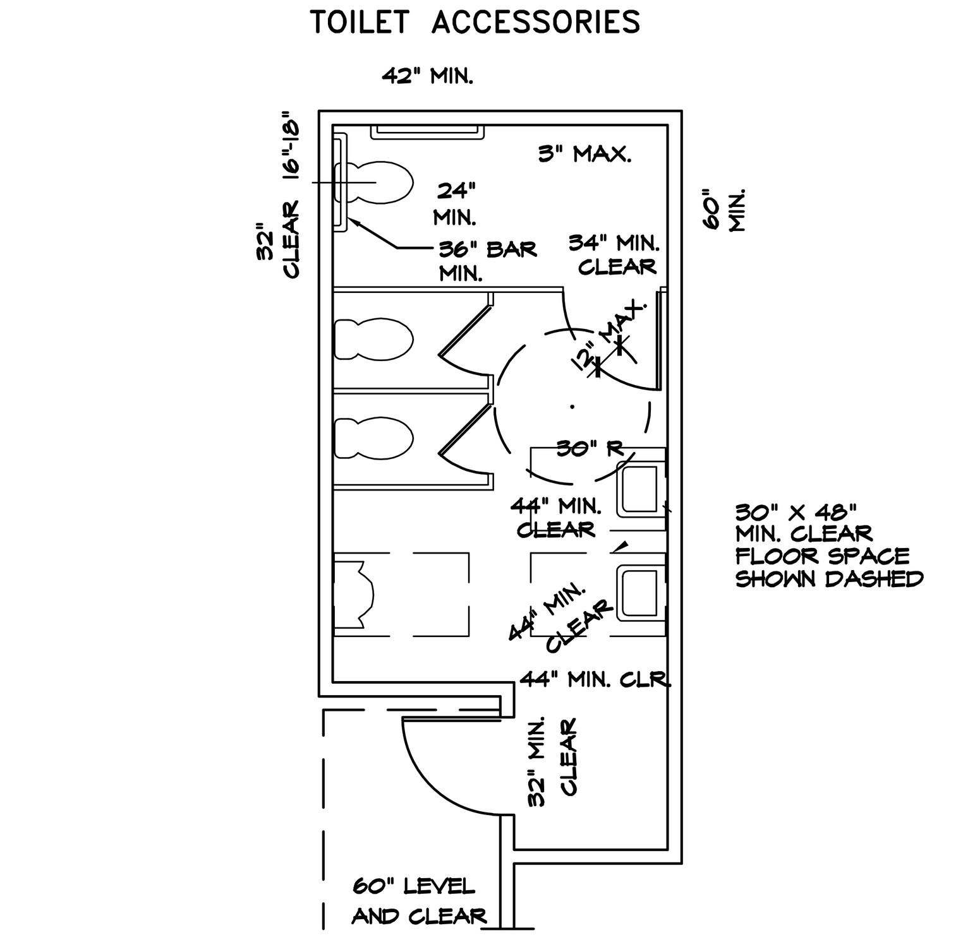
LOCATE TOILET TISSUE DISPENSERS ON THE WALL WITHIN 12 INCHES OF THE FRONT EDGE OF THE TOILET SEAT.

G. THE STRUCTURAL STRENGTH OF GRAB BARS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE SPECIFICATIONS OF THE AMERICAN DISABILITIES ACT.

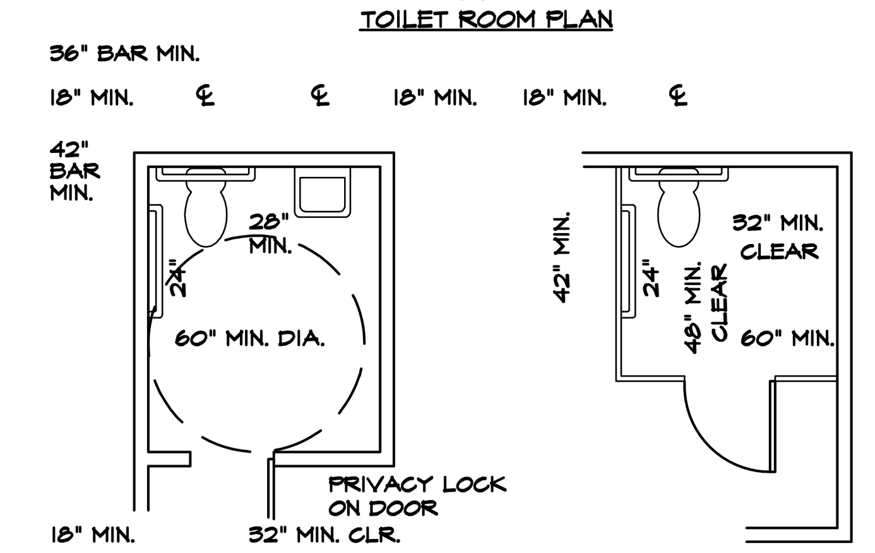
H. SINGLE ACCOMMODATION: A CLEAR FLOOR SPACE OF AT LEAST 60 INCHES IN DIAMETER IS REQUIRED FOR SINGLE ACCOMMODATION TOILET ROOMS, AND NO DOOR SHALL ENCROACH INTO THIS CLEAR SPACE.



TOILET ACCESSORIES

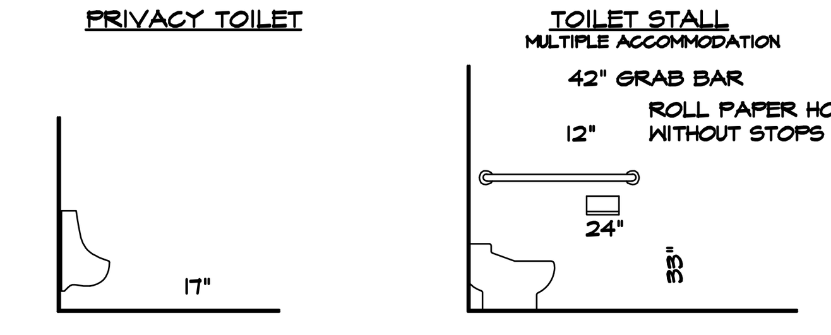


MULTIPLE ACCOMMODATION
TOILET ROOM PLAN



PRIVACY TOILET

TOILET STALL
MULTIPLE ACCOMMODATION



NOTE: THESE FIGURES ARE ILLUSTRATIVE ONLY AND DO NOT DELINEATE THE ONLY MEANS OF COMPLIANCE. REFER TO PLANS FOR EXACT LAYOUT OF TOILET ROOMS.

ACCESSIBLE SANITARY FACILITIES

HOLDERDESIGN, INC.

929 Beech Avenue
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SCOPE DOCUMENT

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MATTHEW LYNN HOLDER REGISTERED No 10300133 STATE OF INDIANA ARCHITECT

09/03/24

DRAWN BY:
CHECKED BY: MLH
PLOT SCALE: AS NOTED
DATE: 08.02.2024

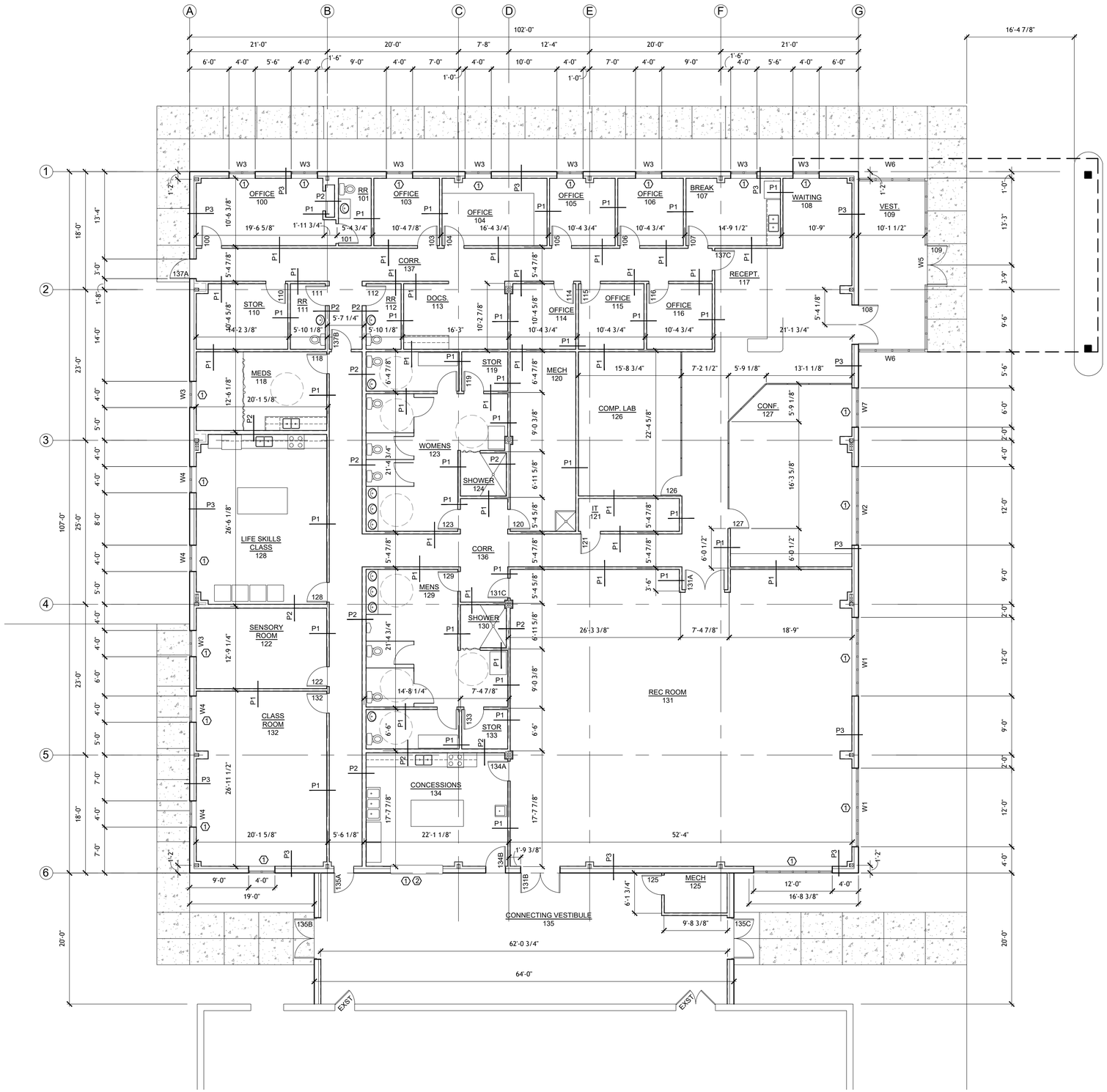
PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: TYPICAL ACCESSIBILITY STANDARDS

REVISIONS

SHEET NO.
A1.2

JOB NO.
A24-006



1 A2.1 PROPOSED FLOOR PLAN

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

GENERAL NOTES:

PARTITIONS ARE DIMENSIONED FROM FACE OF STUD OR MASONRY, UNLESS NOTED OTHERWISE. REFER TO WALL TYPES FOR PARTITION THICKNESS.

PROVIDE WOOD BLOCKING SUPPORT AT ALL SURFACE MOUNTED ITEMS MOUNTED TO FACE OF DRYWALL.

PROVIDE MISCELLANEOUS METAL SUPPORTS FOR ALL CEILING SUPPORTED ITEMS.

ALL PLUMBING FIXTURES TO BE LOCATED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES.

CAULK ALL TOILET FIXTURES TO WALL USING CLEAR SILICONE SEALANT.

PROVIDE WATER RESISTIVE DRYWALL IN ALL WET LOCATIONS.

PROVIDE MISCELLANEOUS METAL SUPPORTS FOR ALL CEILING SUPPORTED ITEMS.

PROVIDE AND INSTALL FIRE EXTINGUISHERS AND OR CABINETS, OWNER APPROVED, AS REQUIRED BY ALL APPLICABLE CODES

FEC CABINETS TO BE MOUNTED SO THE EXTINGUISHER HANDLE TO BE AT 48" A.F.F.

PROVIDE AND INSTALL PANIC HARDWARE AND ALL RELATED COMPONENTS AT ALL LOCATIONS REQUIRED BY LOCAL, STATE AND FEDERAL CODES.

FIELD VERIFY ALL DIMENSIONS. FIELD VERIFY AND COORDINATE WITH ALL EXISTING CONDITIONS.

KEYED PLAN NOTES:

1. INSTALL SOLID SURFACE SILL ON INTERIOR SIDE
2. ROLL UP STEEL DOOR

   CURTAIN: INTERLOCKING SLATS, TYPE F-158, 22 GA. GALVANIZED STEEL

   BOTTOM BAR: SINGLE STEEL ANGLE

   GUIDES: ROLL FORMED POWDER COATED STEEL SHAPES

   BRACKETS: HOT ROLLED STEEL TO SUPPORT COUNTERBALANCE CURTAIN AND HOOD

   FINISH: POWDERGUARD PREMIUM POWDER COAT. COLOR TBD.

   COUNTERBALANCE: HELICAL TORSION SPRING TYPE

   HOOD: FM APPROVED HOOD EQUIPPED WITH THERMALLY CONTROLLED INTERNAL FLAME BAFFLE

   OPERATION: MANUAL PUSH

   AUTOMATIC CLOSURE: UL APPROVED RELEASE MECHANISM WITH 1656 FUSIBLE LINK

   LOCKING: CYLINDERS WITH BEST CORES BOTH SIDES

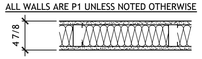
   FACE OF WALL MOUNTING

INTERIOR PARTITIONS:

P1 TYPICAL WALL

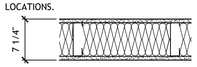
3 5/8" STEEL STUDS @ 16" O.C. WITH SOUND BATT AND 5/8" GYPSUM WALLBOARD EACH SIDE. EXTEND STUDS AND INSULATION TO 12" ABOVE CEILING. PROVIDE MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL WET WALL LOCATIONS.

ALL WALLS ARE P1 UNLESS NOTED OTHERWISE



P2 TYPICAL WALL

6" STEEL STUDS @ 16" O.C. WITH SOUND BATT AND 5/8" GYPSUM WALLBOARD EACH SIDE. EXTEND STUDS AND INSULATION TO 12" ABOVE CEILING. PROVIDE MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL WET WALL LOCATIONS.



P3 PERIMETER WALL

3 5/8" STEEL STUDS @ 16" O.C. WITH SOUND BATT AND 5/8" GYPSUM WALLBOARD ROOM SIDE. STUD TO BUTT TO INSIDE FACE OF BYPASS GIRT. EXTEND STUDS AND INSULATION TO 12" ABOVE CEILING. PROVIDE MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL WET WALL LOCATIONS.

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MATTHEW LYNN HOLDER
MADE REGISTERED
No 10300133
STATE OF INDIANA
ARCHITECT

09/03/24

DRAWN BY:	CHECKED BY:	PLOT SCALE:	DATE:
	MLH	AS NOTED	08.02.2024

PROPOSED INSTRUCTIONS FOR:

HAPPINESS BAG
NEW FACILITIES

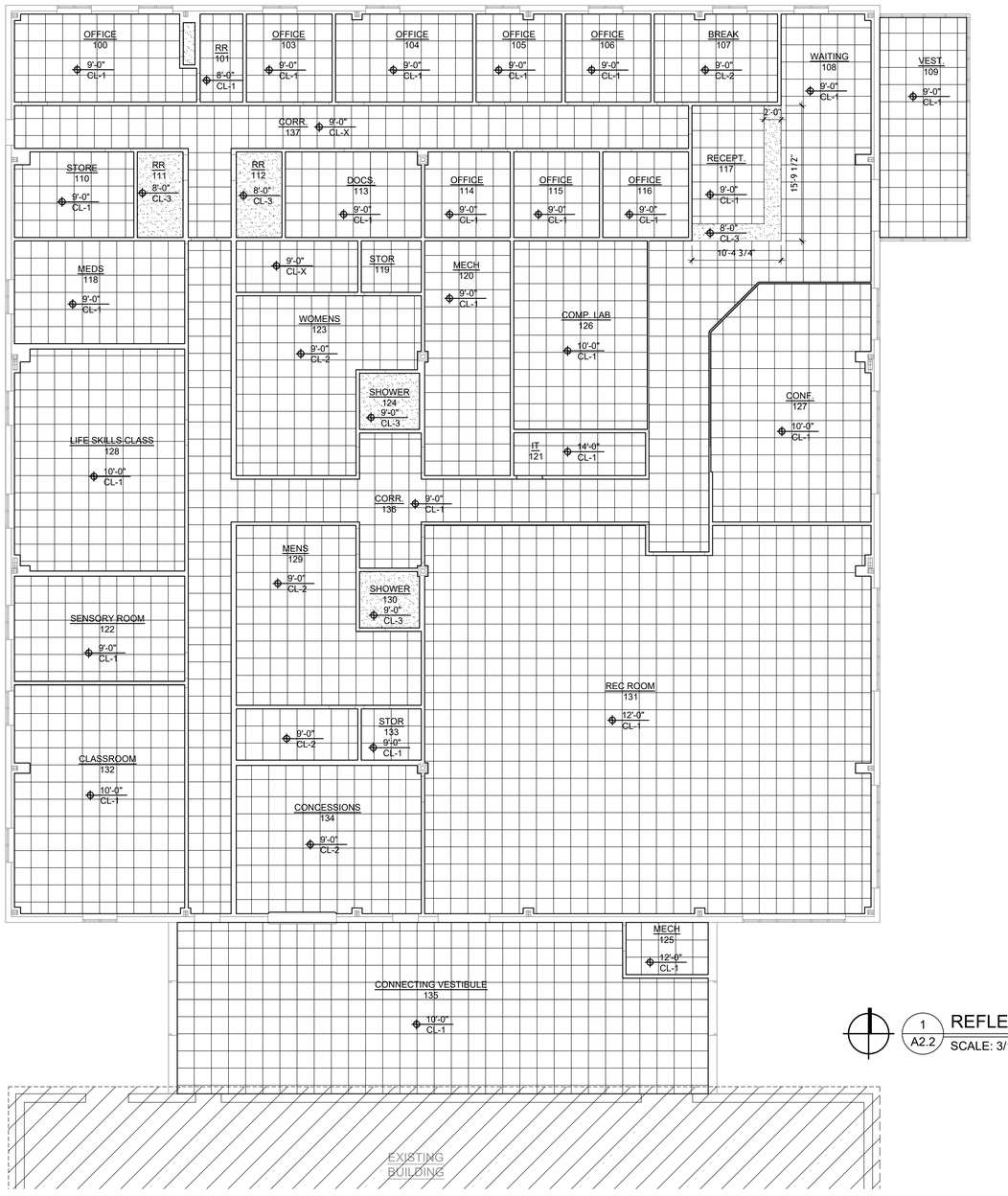
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: PROPOSED FLOOR PLAN

REVISIONS

SHEET NO.
A2.1

JOB NO.
A24-006



1 A2.2 REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"

SUSPENDED CEILING SYSTEM NOTES:

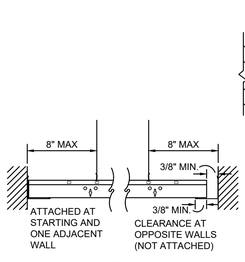
A. SUSPENSION SYSTEM COMPONENTS:
1. ONLY INTERMEDIATE AND HEAVY-DUTY SYSTEMS MAY BE USED.
2. MAIN RUNNERS AND CROSS RUNNERS OF THE CEILING GRID SYSTEMS AND THEIR SPLICES AND INTERSECTION CONNECTIONS SHALL SUPPORT NOT LESS THAN 60 lbs. DESIGN LOAD IN TENSION AND COMPRESSION. ACCEPTABLE TEST RESULTS SHALL SHOW ULTIMATE LOADS AVERAGING NO LESS THAN 120 lbs.

B. SUSPENSION SYSTEM APPLICATION:
1. MAIN RUNNERS AND CROSS RUNNERS SHALL BE ATTACHED TO THE PERIMETER MEMBERS ON TWO (2) ADJACENT WALLS. A CLEARANCE OF 1/4" SHALL BE MAINTAINED BETWEEN THE MAIN RUNNERS AND CROSS RUNNERS AND THE PERIMETER MEMBERS ON THE TWO REMAINING WALLS.
2. SUSPENSION WIRES SHALL BE SPACED ALONG EACH MAIN RUNNER IN ACCORDANCE WITH THE LOAD CARRYING CAPACITY OF THE SYSTEM AND SHALL BE A MINIMUM OF No. 12 GAGE (2.05 mm) SOFT ANNEALED GALVANIZED STEEL WIRE.
3. EACH VERTICAL WIRE SHALL BE ATTACHED TO THE CEILING SUSPENSION MEMBER WITH A MINIMUM OF THREE (3) TURNS AND TO THE STRUCTURE ABOVE WITH A CONNECTION CAPABLE OF CARRYING NOT LESS THAN A 100 lb. ALLOWABLE LOAD. THE POINTS OF HANGER WIRE SUPPORTS SHALL NOT PERMIT DISENGAGEMENT THROUGH VERTICAL LIFTING.
4. SUSPENSION WIRES SHALL NOT HANG MORE THAN ONE IN SIX (1:6) OUT OF PLUMB UNLESS COUNTER SLOPING WIRES ARE PROVIDED.
5. WIRES SHALL NOT ATTACH TO, OR BEND AROUND, INTERFERING MATERIAL, SUCH AS DUCTS. A TRAPESE OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION.
6. AT ALL LOCATIONS, THE TERMINAL ENDS OF EACH CROSS RUNNER SHALL BE SUPPORTED INDEPENDENTLY, A MAXIMUM OF 8 INCHES FROM EACH WALL WITH No. 12 GAGE (2.05 mm) WIRE.
7. HORIZONTAL RESTRAINT SHALL BE EFFECTED BY FOUR No. 12 GAGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREES FROM EACH OTHER, AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FEET ON CENTER IN BOTH DIRECTIONS, WITH THE FIRST POINT WITHIN 4 FEET OF EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED. (ALTERNATIVE METHODS FOR PROVIDING HORIZONTAL RESTRAINT WILL BE CONSIDERED ACCEPTABLE SO LONG AS THEIR PERFORMANCE IS PROVEN TO BE EQUAL TO OR BETTER THAN THE PRESCRIBED METHOD)

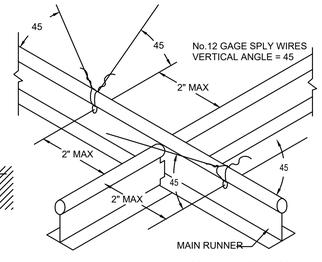
C. LIGHT FIXTURE APPLICATION
1. ALL RECESSED LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS AS SPECIFIED IN THE NATIONAL ELECTRICAL CODE, UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE, A MINIMUM OF TWO (2) PER FIXTURE, SHALL HAVE A CAPACITY OF 100% OF THE LIGHTING FIXTURE WEIGHT ACTING IN ANY DIRECTION.
2. SURFACE MOUNTED LIGHTING FIXTURES SHALL BE ATTACHED TO THE CEILING SYSTEM WITH POSITIVE CLAMPING DEVICES THAT COMPLETELY SURROUND THE SUPPORTING MEMBERS. SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CLAMPING DEVICE AND THE ADJACENT CEILING HANGER OR TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE APPLIED FIXTURE LOAD EXCEED THE DESIGN CARRYING CAPACITY OF THE SUPPORTING MEMBER.
3. PENDANT HUNG LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING No. 9 GAGE (2.91 mm) WIRE WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
4. RIGID CONDUIT IS NOT RECOMMENDED FOR ATTACHMENT OF FIXTURES.
5. LIGHTING FIXTURES WEIGHING LESS THAN 56 lb. SHALL HAVE, IN ADDITION TO THE REQUIREMENTS OUTLINED ABOVE, TWO (2) No. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
6. LIGHTING FIXTURES WEIGHING 56 lb. OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

D. SERVICES WITHIN THE CEILING:
1. THE SUSPENDED CEILING SHALL NOT BE USED TO SUPPORT DUCTWORK, PLUMBING, ETC. THESE ITEMS SHOULD BE ATTACHED TO THE STRUCTURE ABOVE EXCEPT WHEN SUCH UNITS WERE SPECIALLY DESIGNED FOR THIS APPLICATION, AS IN THE CASE OF INTEGRATED CEILING SYSTEMS.
2. CEILING MOUNTED AIR TERMINALS, OR SERVICES WEIGHING LESS THAN 20 lb. SHALL BE POSITIVELY ATTACHED TO THE SUSPENSION SYSTEM UNLESS DEFLECTION MINIMUMS ARE EXCEEDED.

E. PARTITION APPLICATION TO SUSPENDED CEILINGS:
1. WHERE NON-BEARING PARTITIONS ARE ATTACHED TO CEILING SUSPENSION SYSTEMS, THE LATERAL FORCE REACTION TRANSMITTED MUST FALL WITHIN THE DESIGN LIMITATION OF THE SUSPENSION SYSTEM OR SUPPLEMENTARY BRACING MUST BE PROVIDED.



RUNNERS AT WALLS



TYPICAL CEILING BRACING

GENERAL NOTES:

1. REFER TO ENGINEERING DRAWINGS FOR FINAL CEILING FIXTURES, LIGHTING SPECIFICATIONS, AND LAYOUT.
2. SUBMIT FINISH SAMPLES OF ARMSTRONG CEILINGS TO ARCHITECT/OWNER FOR APPROVAL

CEILING TYPES:

CL-1: INSTALL WHERE NOTED, ARMSTRONG CEILING 24" x 24" GRID CANYON WITH TEGULAR EDGE WITH PRELUDE ML EXPOSED TEE SUSPENSION SYSTEM

CL-2: INSTALL WHERE NOTED, ARMSTRONG CEILING KITCHEN ZONE #672- 24" x 48" x 5/8" SQUARE LAY-IN 15/16"

CL-3: INSTALL WHERE NOTED, GYPSUM BOARD HARD LID, SMOOTH FINISH, PAINTED. USE WATER RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS

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09/03/24

DRAWN BY: MH | CHECKED BY: MLH | PLOT SCALE: AS NOTED | DATE: 08.02.2024

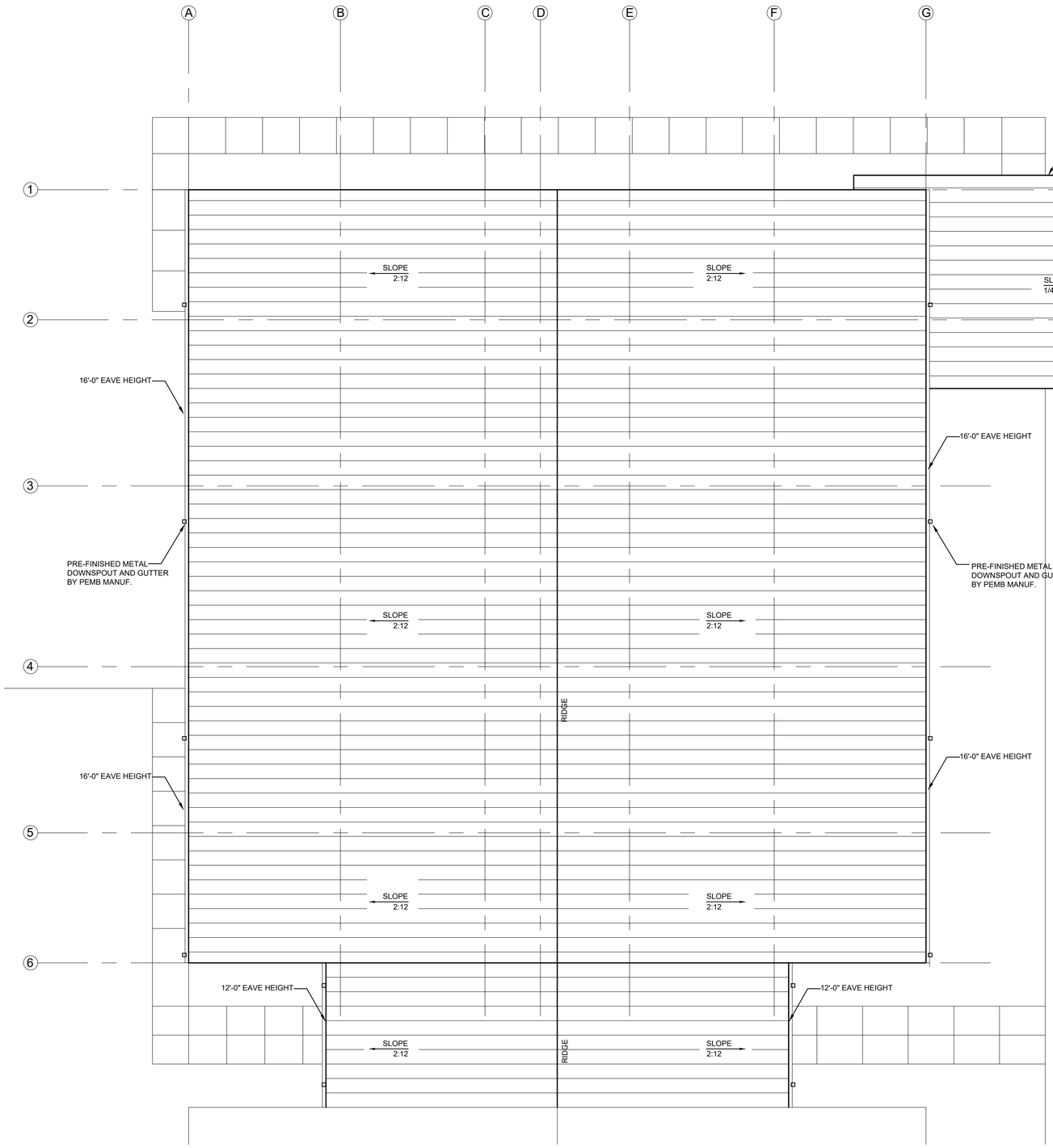
PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: REFLECTED CEILING PLAN

REVISIONS

SHEET NO.
A2.2

JOB NO.
A24-006



1 A2.3 ROOF PLAN

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

NOTES:

1. WHITE DOUBLE LOK ROOF BY PEMB MANUF.
2. ROOF DINSULATION R-25 8" SINGLE LAYER BY PEMB MANUF.

TRUSS DESIGN LOADS:

TOP CHORD:
LIVE LOAD = 20 PSF
DEAD LOAD = 10 PSF

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NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: ROOF PLAN

REVISIONS

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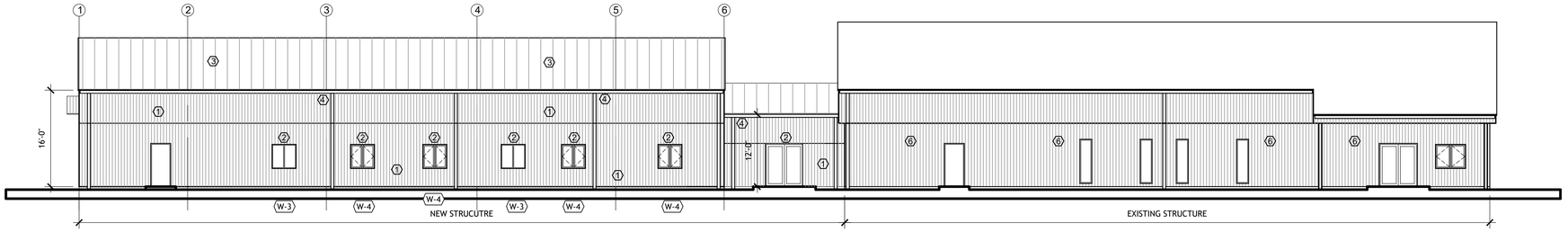


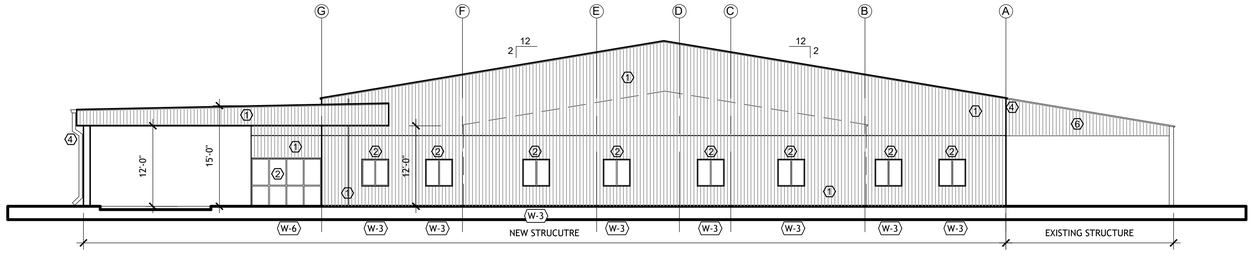
1 A3.0 WEST ELEVATION
SCALE: 3/32" = 1'-0"

ELEVATION KEYED NOTES:

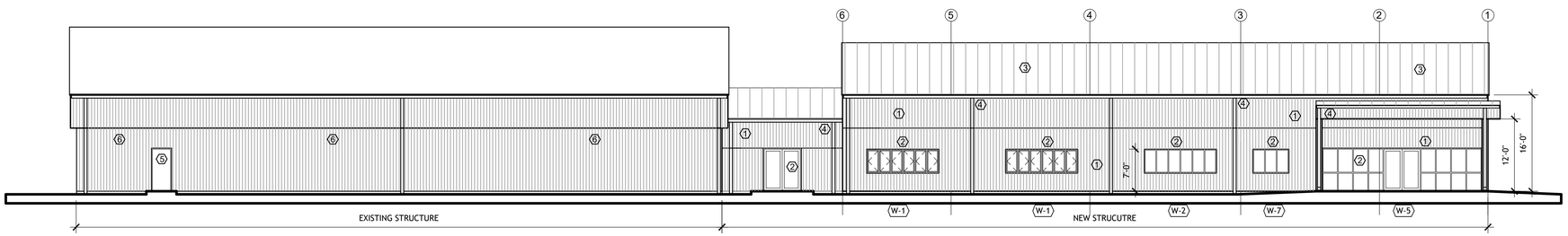
1. PBR OR REVERSE PBR METAL SIDING BY PEMB MANUFACTURER. R-19 INSULATION, 6" SINGLE LAYER. COLOR TO BE DETERMINED.
2. KAWNEER STOREFRONT GLAZING SYSTEM REFER TO WINDOW ELEVATIONS ON SHEET A3.1.
3. WHITE DOUBLE LOK ROOF, R-25 INSULATION 8" SINGLE LAYER
4. PRE-FINISHED METAL DOWNSPOUTS AND GUTTER, COLOR TBD
5. PAINTED HOLLOW METAL INSULATED DOOR. COLOR TO BE DETERMINED
6. EXISTING METAL PANEL TO BE PAINTED. COLOR TO BE DETERMINED

STOREFRONT NOTES:

1. CONTRACTOR TO FIELD VERIFY ROUGH OPENING DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. COORDINATE WITH FRAMING CONTRACTOR AND ALL TRADES ASSOCIATED WITH SUCCESSFUL STOREFRONT INSTALLATION
3. ALUMINUM FRAMING: KAWNEER TRIFAB 451UT, BRONZE ANODIZED, ALL HINGES SHALL BE CONTINUOUS HINGE TYPE & HEAVY DUTY
4. EXTERIOR GLAZING: 1/4" GRAY TINTED OUTBOARD, 1/2" AIRSPACE, 1/4" CLEAR INBOARD WITH VITRO SOLARBAN 60 WITH LOW E
   - WINTER U-FACTOR = .29
   - SUMMER U-FACTOR = .27
   - SHGC = .29
   - SHADE COEFFICIENT = .33
5. TEMPERED GLASS AT ALL LOCATIONS MARKED BY 'T'
6. REFERENCE FLOOR PLAN FOR DOOR SWINGS



2 A3.0 NORTH ELEVATION
SCALE: 3/32" = 1'-0"



3 A3.0 EAST ELEVATION
SCALE: 3/32" = 1'-0"

HOLDERDESIGN, INC.
929 Beech Avenue
Pittsburgh, Pennsylvania
15233
ph. 812.249.5977
www.holderdesign.net

SCOPE DOCUMENT

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MATTHEW LYNN HOLDER
REGISTERED
No 10300133
STATE OF
INDIANA
ARCHITECT

09/03/24

DRAWN BY:	CHECKED BY:	PLOT SCALE:	DATE:
	MLH	AS NOTED	08.02.2024

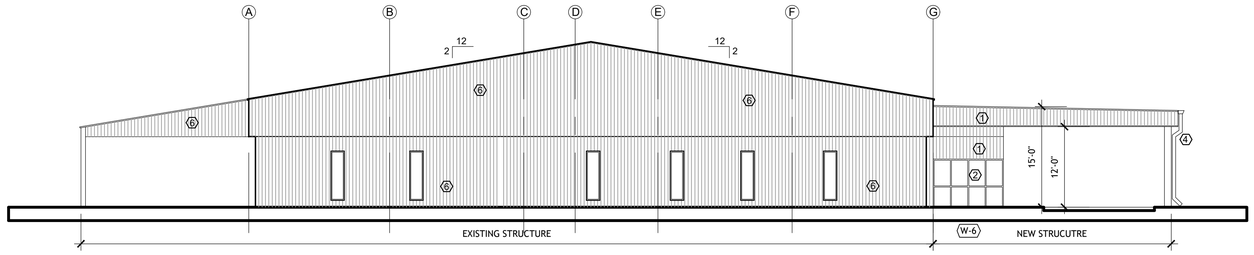
PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: EXTERIOR ELEVATIONS

REVISIONS

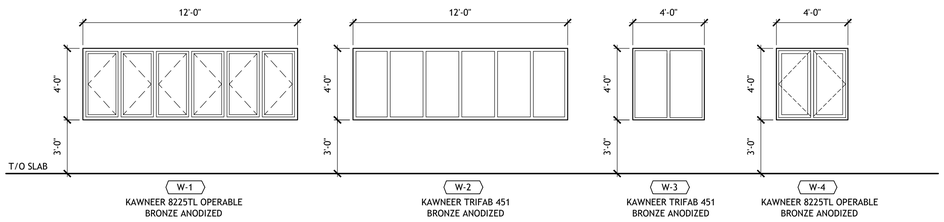
SHEET NO.
A3.0

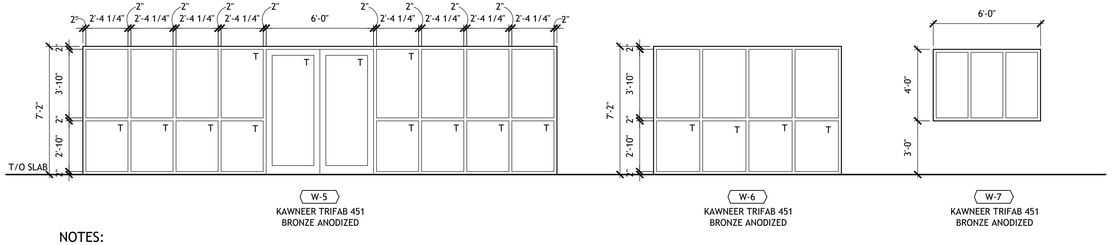
JOB NO.
A24-006



1 A3.1 SOUTH ELEVATION

SCALE: 3/32" = 1'-0"





NOTES:

1. GLAZING - 1/4" TEMPERED OUTBOARD TO MATCH EXISTING COLOR, 1/2" AIRSPACE, 1/4" CLEAR INBOARD WITH LOW E. REFERENCE SECTIONS FOR WINDOW W-2 HEIGHT

ELEVATION KEYED NOTES:

1. PBR OR REVERSE PBR METAL SIDING BY PEMB MANUFACTURER. R-19 INSULATION, 6" SINGLE LAYER. COLOR TO BE DETERMINED.
2. KAWNEER STOREFRONT GLAZING SYSTEM REFER TO WINDOW ELEVATIONS ON SHEET A3.1.
3. WHITE DOUBLE LOK ROOF, R-25 INSULATION 8" SINGLE LAYER
4. PRE-FINISHED METAL DOWNSPOUTS AND GUTTER, COLOR TBD
5. PAINTED HOLLOW METAL INSULATED DOOR. COLOR TO BE DETERMINED
6. EXISTING METAL PANEL TO BE PAINTED. COLOR TO BE DETERMINED

STOREFRONT NOTES:

1. CONTRACTOR TO FIELD VERIFY ROUGH OPENING DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. COORDINATE WITH FRAMING CONTRACTOR AND ALL TRADES ASSOCIATED WITH SUCCESSFUL STOREFRONT INSTALLATION
3. ALUMINUM FRAMING: KAWNEER TRIFAB 451UT, BRONZE ANODIZED, ALL HINGES SHALL BE CONTINUOUS HINGE TYPE & HEAVY DUTY
4. EXTERIOR GLAZING: 1/4" GRAY TINTED OUTBOARD, 1/2" AIRSPACE, 1/4" CLEAR INBOARD WITH VITRO SOLARBAN 60 WITH LOW E
   - WINTER U-FACTOR = .29
   - SUMMER U-FACTOR = .27
   - SHGC = .29
   - SHADE COEFFICIENT = .33
5. TEMPERED GLASS AT ALL LOCATIONS MARKED BY 'T'
6. REFERENCE FLOOR PLAN FOR DOOR SWINGS

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SCOPE DOCUMENT

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MATTHEW LYNN HOLDER
MARK REGISTERED
No 10300133
STATE OF
INDIANA
ARCHITECT

09/03/24

DRAWN BY:	CHECKED BY: MLH	PLOT SCALE: AS NOTED	DATE: 08.02.2024

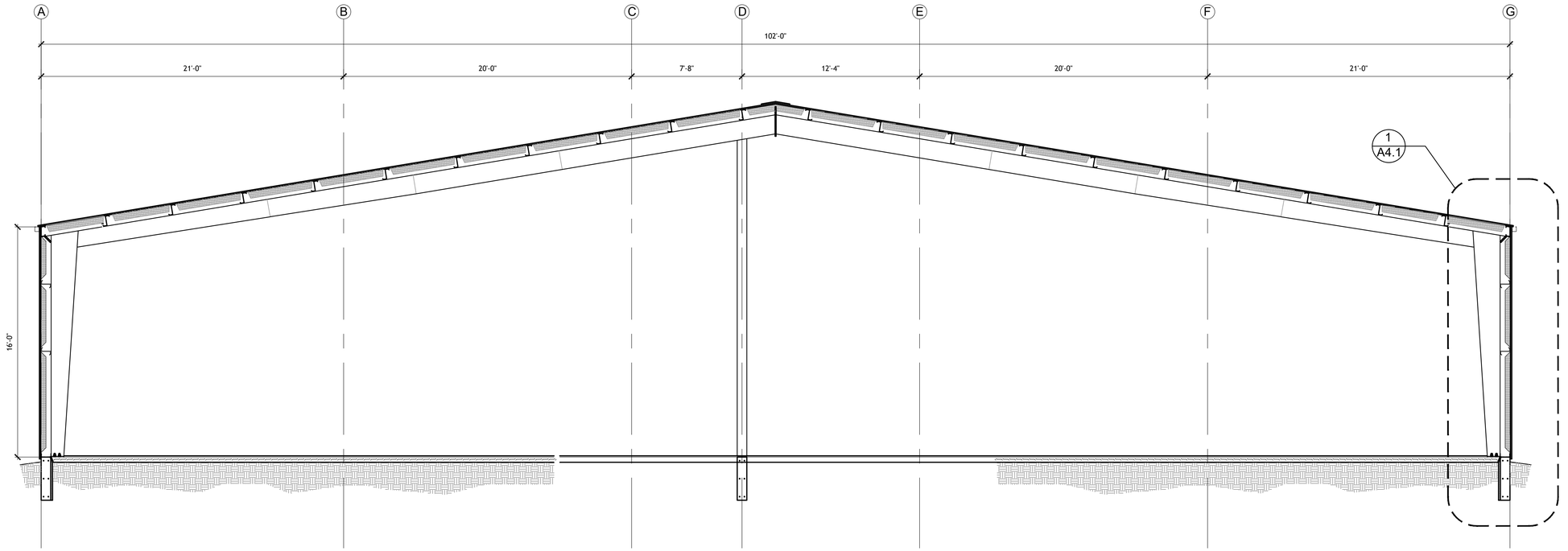
PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: EXTERIOR ELEVATIONS

REVISIONS

SHEET NO.
A3.1

JOB NO.
A24-006



1 A4.0 BUILDING SECTION

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

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REGISTERED
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PROPOSED INSTRUCTIONS FOR:

HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

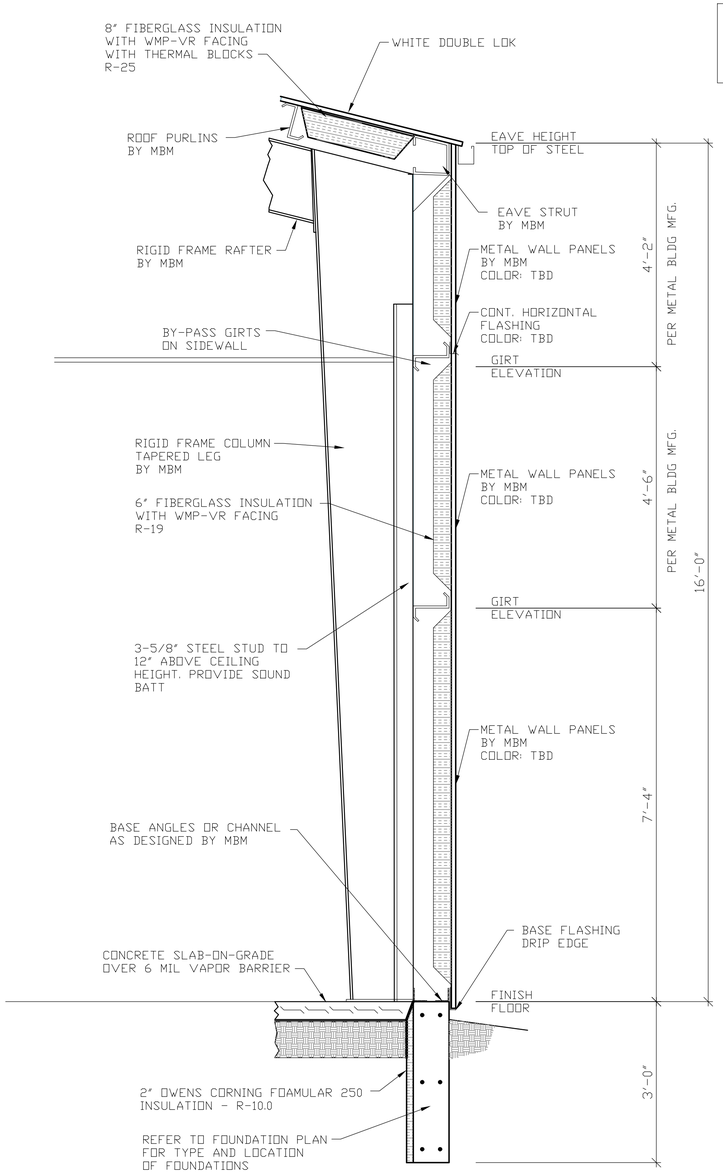
SHEET DESCRIPTION: BUILDING SECTIONS

REVISIONS

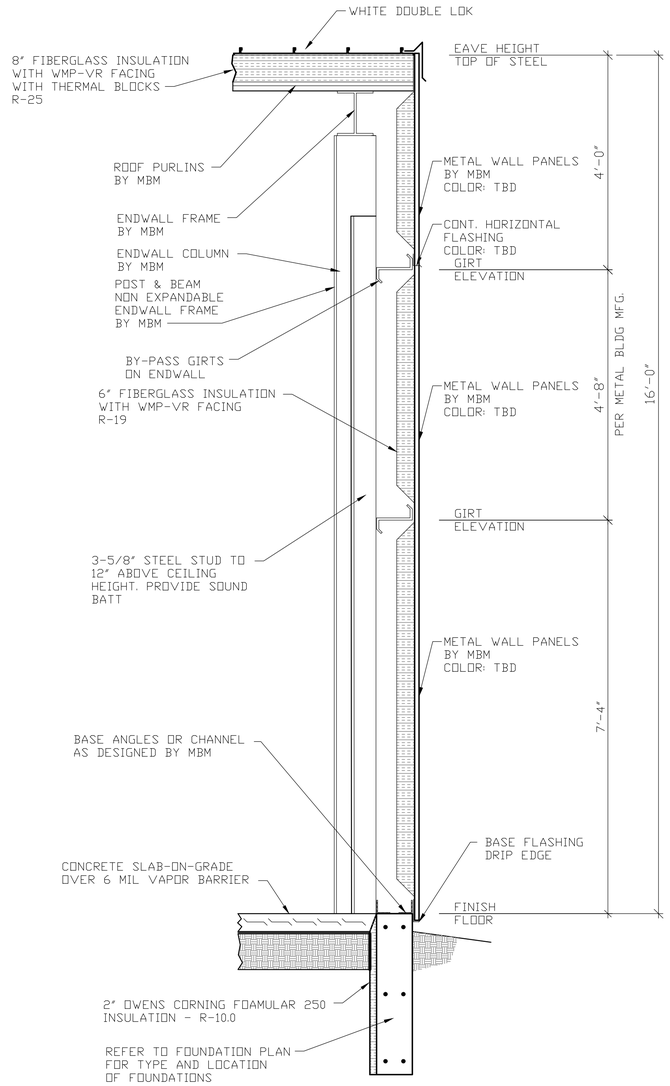
SHEET NO.
A4.0

JOB NO.
A24-006

1" THERMAL SPACER BLOCKS SHALL BE INSTALLED BETWEEN ALL ROOF PURLINS AND THE STANDING SEAM ROOF PANELS.



1 A4.1 WALL SECTION
SCALE: 3/4" = 1'-0"



2 A4.1 WALL SECTION
SCALE: 3/4" = 1'-0"

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MATTHEW LYNN HOLDER
LICENSED ARCHITECT
No 10300133
STATE OF INDIANA
ARCHITECT

09/03/24

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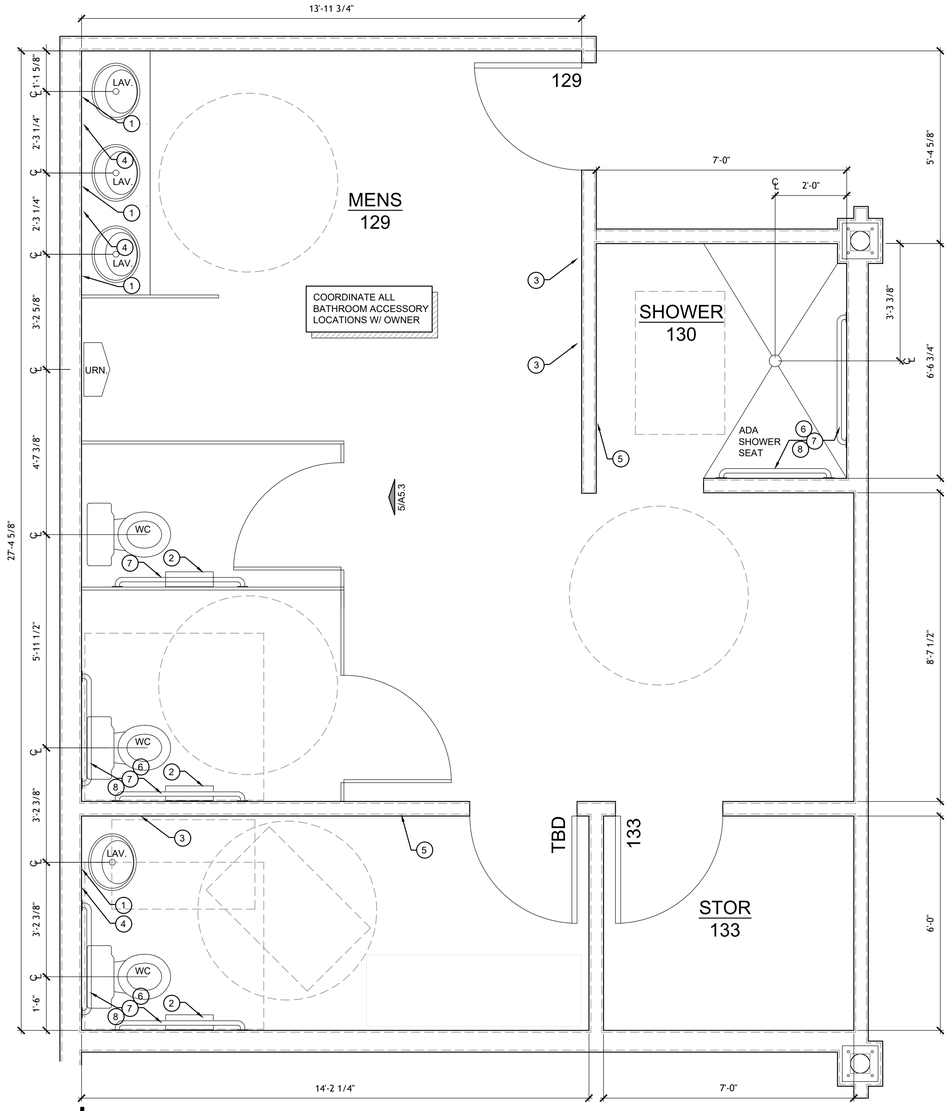
PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: WALL SECTIONS

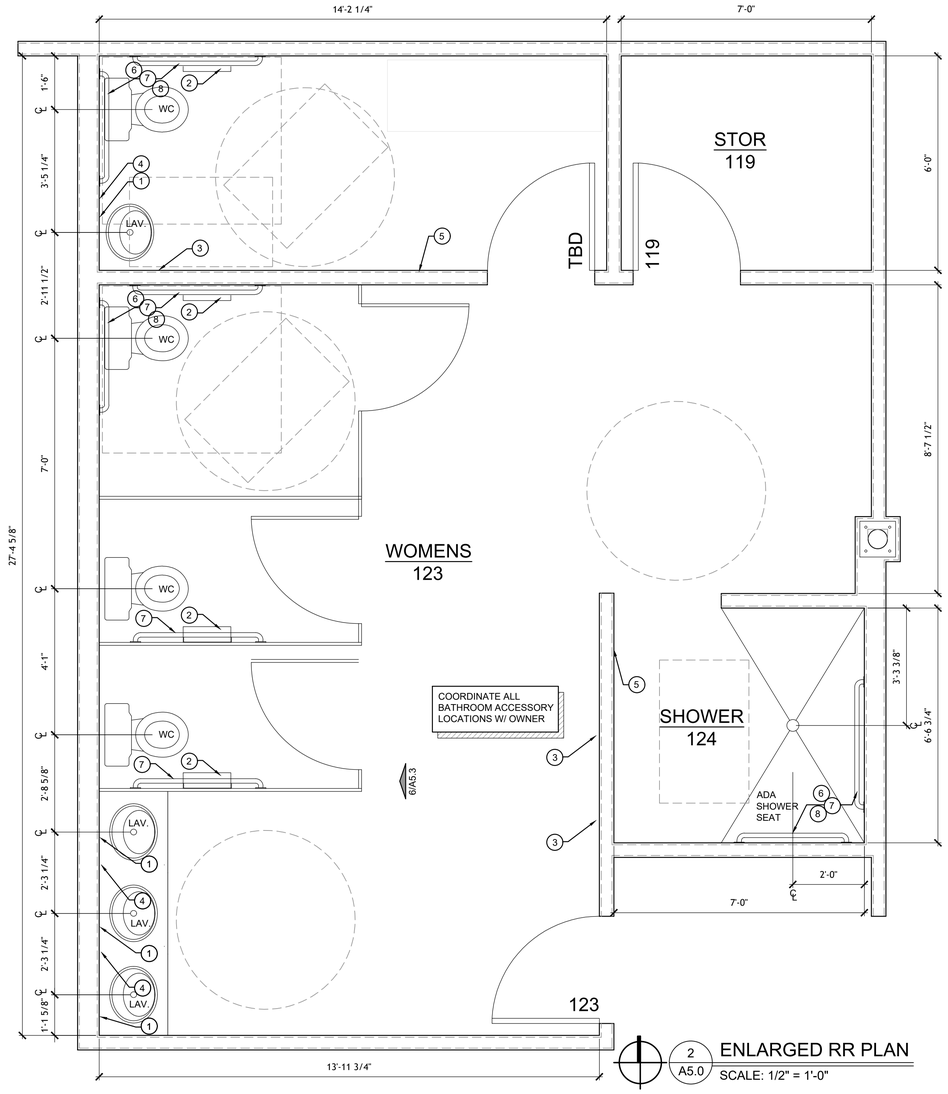
REVISIONS

SHEET NO.
A4.1

JOB NO.
A24-006



1 A5.0 ENLARGED RR PLAN
SCALE: 1/2" = 1'-0"

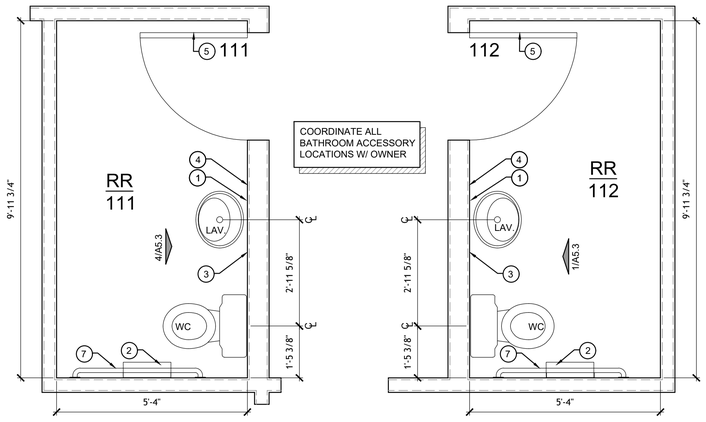


2 A5.0 ENLARGED RR PLAN
SCALE: 1/2" = 1'-0"

FIELD VERIFY ALL DIMENSIONS
+ COORDINATE WITH ALL TRADES

ACCESSORY + APPLIANCE SCHEDULE

ID	ITEM	MANUFACTURER	MODEL # / COLOR / ADDITIONAL INFO.	NOTES
①	Mirror	Bobrick	B-165/ 24x36	
②	Toilet Tissue Dispenser	-	By Cintas - provide blocking as necessary	
③	Towel Dispenser	-	By Cintas - provide blocking as necessary	
④	Soap Dispenser	-	By Cintas - provide blocking as necessary	
⑤	Coat Hook	Bobrick	B-6827 Satin Finish- provide blocking as necessary	
⑥	Grab Bars	Bobrick	B-5806 x 18/ Satin Finish- provide blocking as necessary	
⑦	Grab Bars	Bobrick	B-5806 x 36/ Satin Finish- provide blocking as necessary	
⑧	Grab Bars	Bobrick	B-5806 x 42/ Satin Finish	
⑨	Refrigerator	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑩	Range	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑪	Hood	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑫	Microwave	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑬	Under counter refrigerator	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑭	Washer	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑮	Dryer	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑯	Overhead Coiling Door	Overhead Door Company	Fireking Model 640 with slide locks Provide necessary blocking	



3 A5.0 ENLARGED RR PLANS
SCALE: 1/2" = 1'-0"

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MATTHEW LYNN HOLDER
MAY BE REGISTERED
No 10300133
STATE OF
INDIANA
ARCHITECT
09/03/24

DRAWN BY:	CHECKED BY:	PLOT SCALE:	DATE:
CR	MLH	AS NOTED	08.02.2024

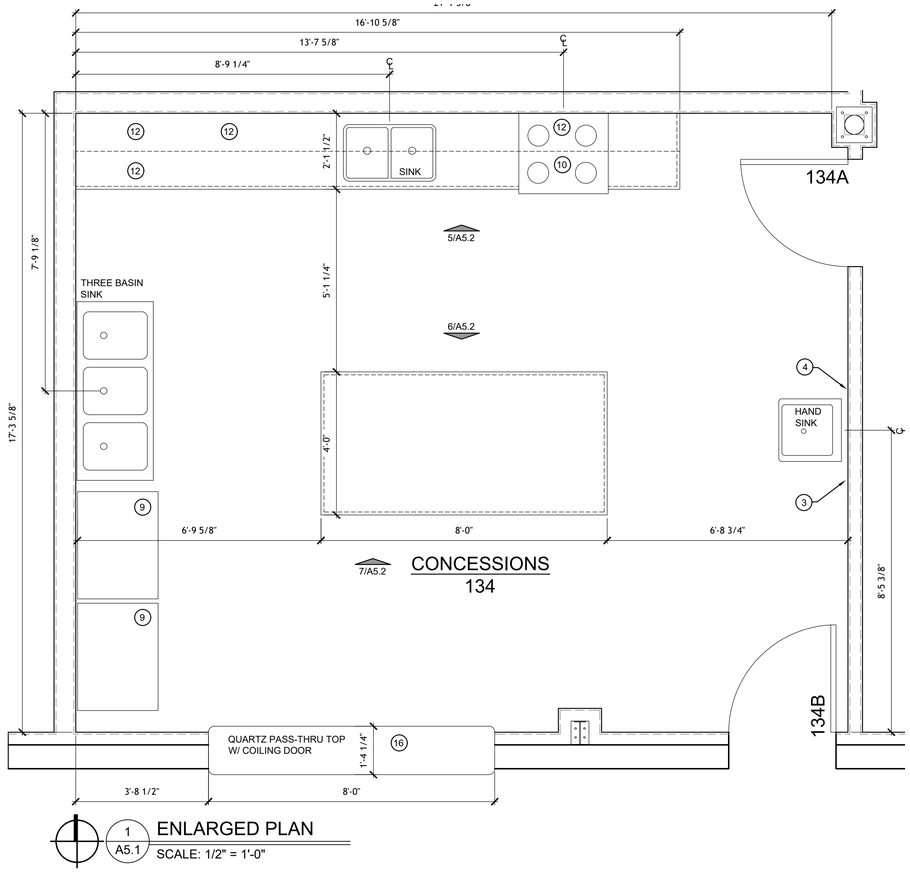
PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: ENLARGED PLANS

REVISIONS

SHEET NO.
A5.0

JOB NO.
A24-006



1 A5.1 ENLARGED PLAN

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

ACCESSORY + APPLIANCE SCHEDULE				
ID	ITEM	MANUFACTURER	MODEL # / COLOR / ADDITIONAL INFO.	NOTES
①	Mirror	Bobrick	B-165/ 24x36	
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④	Soap Dispenser	-	By Cintas - provide blocking as necessary	
⑤	Coat Hook	Bobrick	B-6827 Satin Finish- provide blocking as necessary	
⑥	Grab Bars	Bobrick	B-5806 x 18/ Satin Finish- provide blocking as necessary	
⑦	Grab Bars	Bobrick	B-5806 x 36/ Satin Finish- provide blocking as necessary	
⑧	Grab Bars	Bobrick	B-5806 x 42/ Satin Finish	
⑨	Refrigerator	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑩	Range	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑪	Hood	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑫	Microwave	By Owner - Installed by GC	Coordinate utilities required for each appliance	
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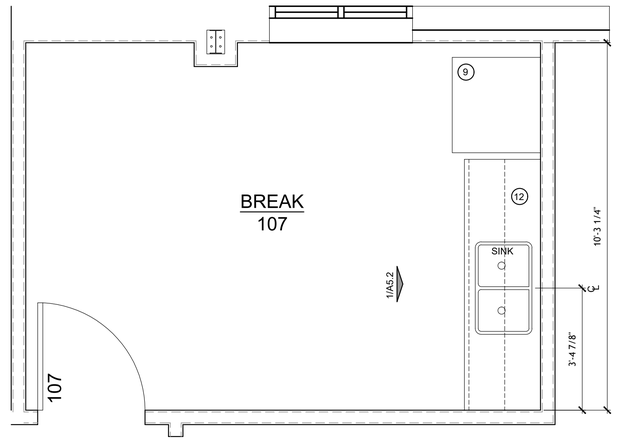
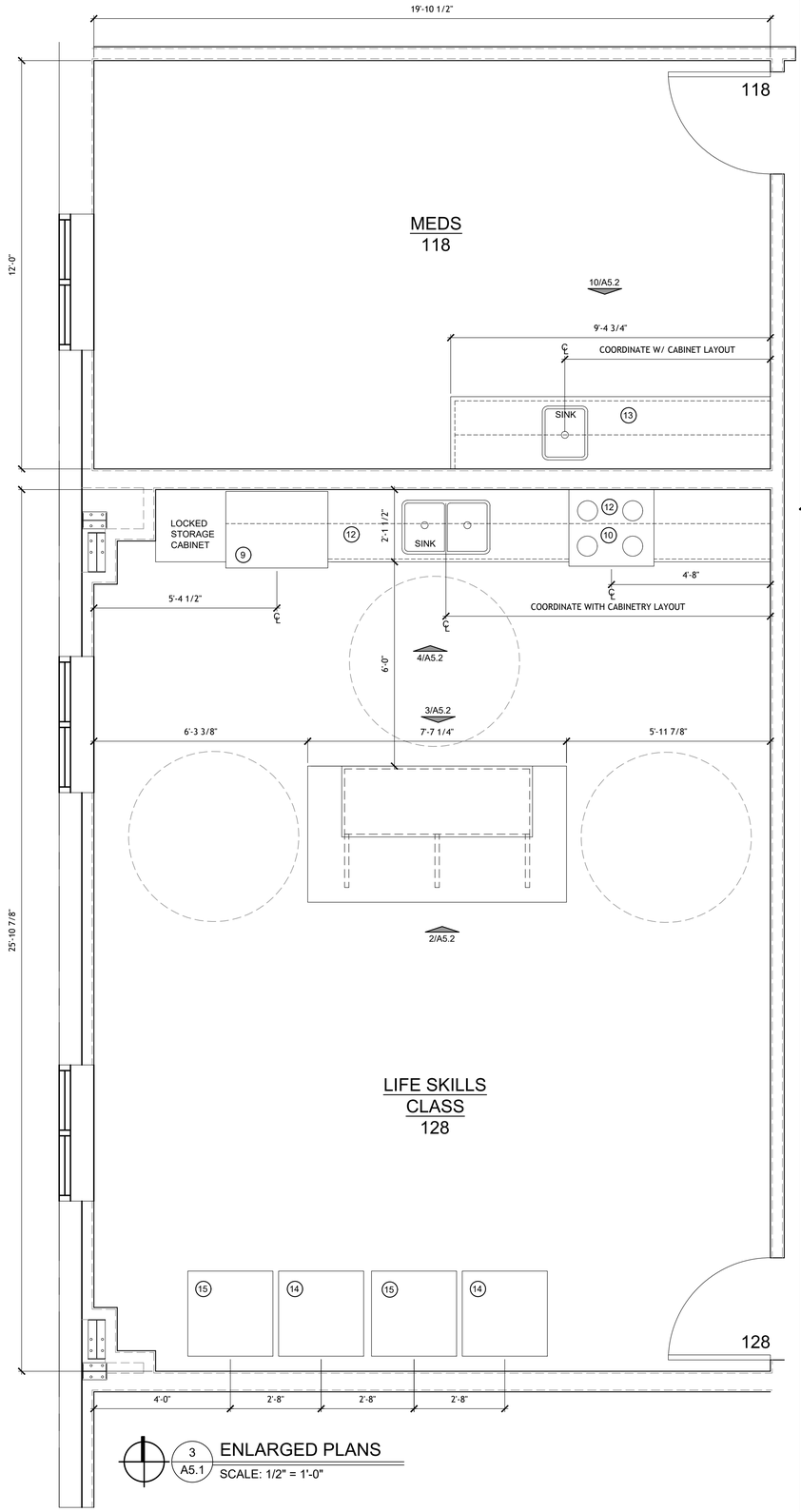
⑭	Washer	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑮	Dryer	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑯	Overhead Coiling Door	Overhead Door Company	Fireking Model 640 with slide locks Provide necessary blocking	



2 A5.1 ENLARGED PLAN

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

FIELD VERIFY ALL DIMENSIONS + COORDINATE WITH ALL TRADES



3 A5.1 ENLARGED PLANS

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

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MATTHEW LYNN HOLDER REGISTERED No 10300133 STATE OF INDIANA ARCHITECT

09/03/24

DRAWN BY:	CHECKED BY:	PLOT SCALE:	DATE:
CR	MLH	AS NOTED	08.02.2024

PROPOSED INSTRUCTIONS FOR:

HAPPINESS BAG
NEW FACILITIES

TERRE HAUTE, INDIANA

SHEET DESCRIPTION: ENLARGED PLANS

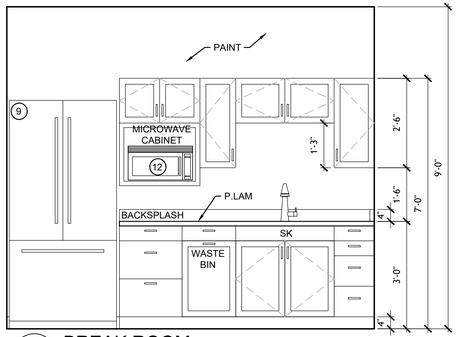
REVISIONS

SHEET NO.

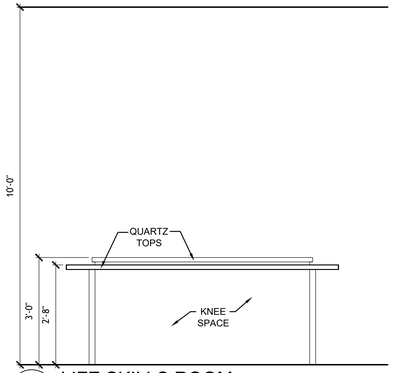
A5.1

JOB NO.

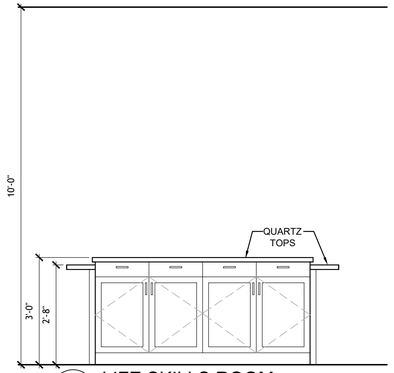
A24-006



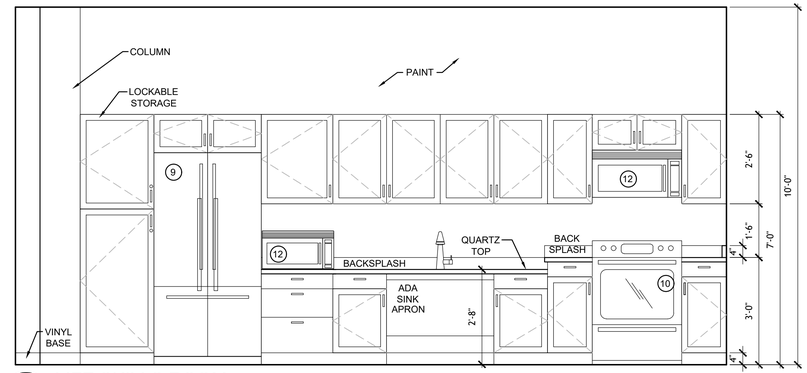
1 A5.2 **BREAK ROOM**
SCALE: 1/2" = 1'-0"



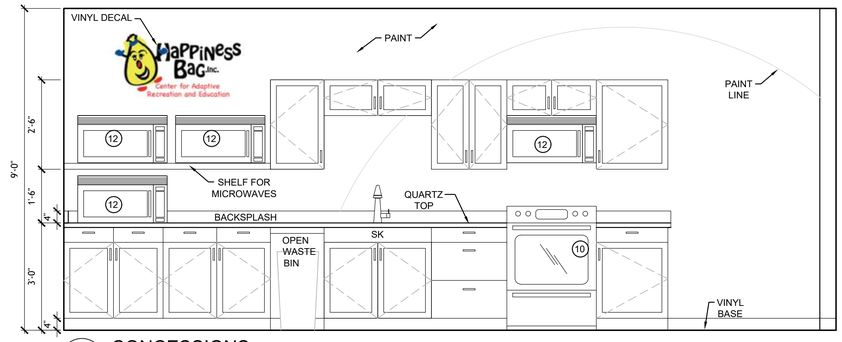
2 A5.2 **LIFE SKILLS ROOM**
SCALE: 1/2" = 1'-0"



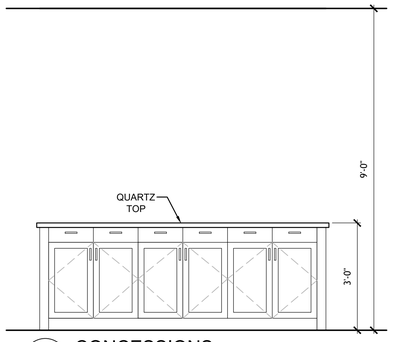
3 A5.2 **LIFE SKILLS ROOM**
SCALE: 1/2" = 1'-0"



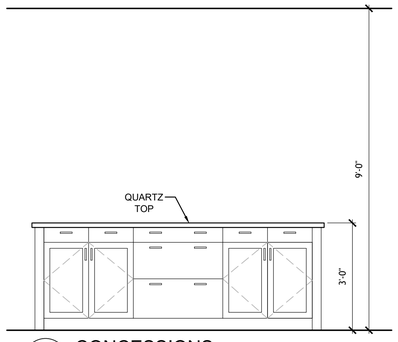
4 A5.2 **LIFE SKILLS ROOM**
SCALE: 1/2" = 1'-0"



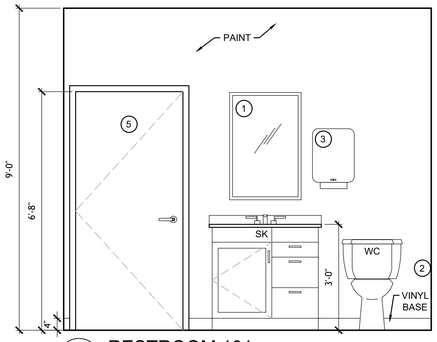
5 A5.2 **CONCESSIONS**
SCALE: 1/2" = 1'-0"



6 A5.2 **CONCESSIONS**
SCALE: 1/2" = 1'-0"



7 A5.2 **CONCESSIONS**
SCALE: 1/2" = 1'-0"



8 A5.2 **RESTROOM 101**
SCALE: 1/2" = 1'-0"

ACCESSORY + APPLIANCE SCHEDULE				
ID	ITEM	MANUFACTURER	MODEL # / COLOR / ADDITIONAL INFO.	NOTES
①	Mirror	Bobrick	B-165/ 24x36	
②	Toilet Tissue Dispenser	-	By Cintas - provide blocking as necessary	
③	Towel Dispenser	-	By Cintas - provide blocking as necessary	
④	Soap Dispenser	-	By Cintas - provide blocking as necessary	
⑤	Coat Hook	Bobrick	B-6827 Satin Finish- provide blocking as necessary	
⑥	Grab Bars	Bobrick	B-5806 x 18/ Satin Finish- provide blocking as necessary	
⑦	Grab Bars	Bobrick	B-5806 x 36/ Satin Finish- provide blocking as necessary	
⑧	Grab Bars	Bobrick	B-5806 x 42/ Satin Finish	
⑨	Refrigerator	By Owner - Installed by GC	Coordinate utilities required for each appliance	
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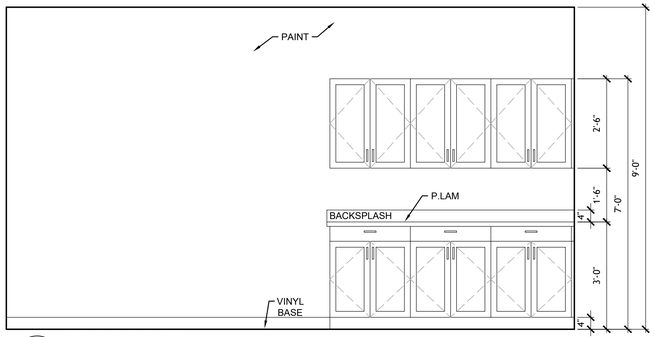
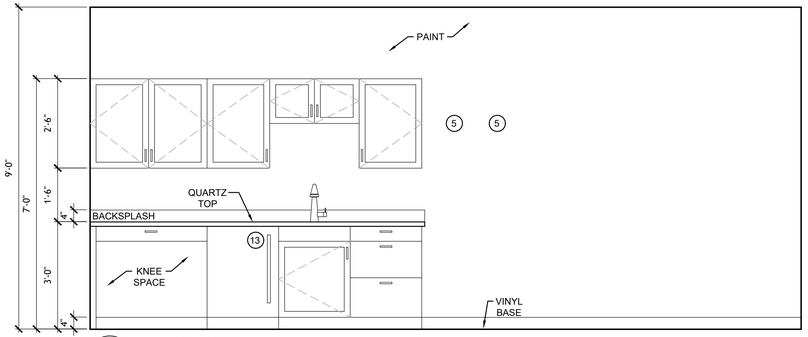
⑮	Dryer	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑯	Overhead Coiling Door	Overhead Door Company	Fireking Model 640 with slide locks Provide necessary blocking	

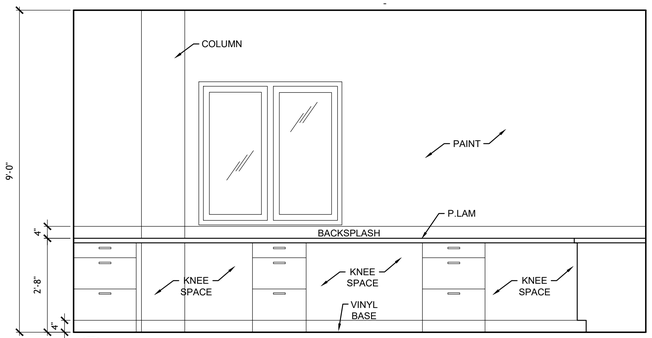
FIELD VERIFY ALL DIMENSIONS
+ COORDINATE WITH ALL TRADES



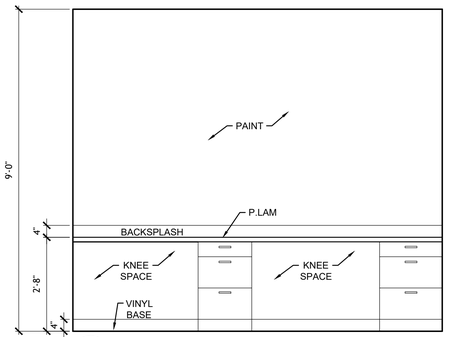
9 A5.2 **DOCS ROOM**
SCALE: 1/2" = 1'-0"



10 A5.2 **MEDS ROOM**
SCALE: 1/2" = 1'-0"



11 A5.2 **OFFICE 104**
SCALE: 1/2" = 1'-0"



12 A5.2 **OFFICE 104**
SCALE: 1/2" = 1'-0"

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ph. 812.249.5977
www.holderdesign.net

SCOPE DOCUMENT

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MATTHEW LYNN HOLDER
REGISTERED
No 10300133
STATE OF
INDIANA
ARCHITECT

09/03/24

DRAWN BY: CR
CHECKED BY: MLH
PLOT SCALE: AS NOTED
DATE: 08.02.2024

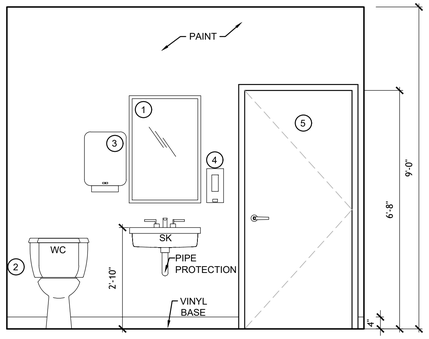
PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: INTERIOR ELEVATIONS

REVISIONS

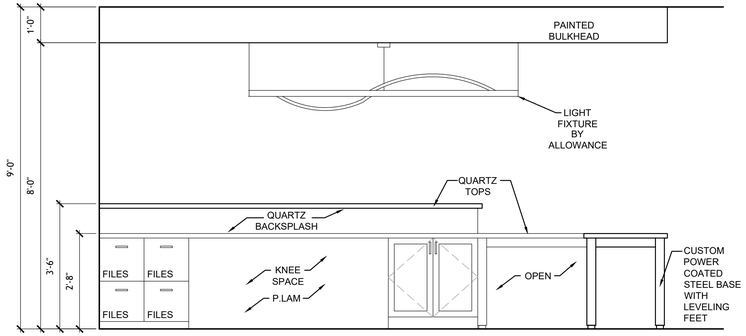
SHEET NO.
A5.2

JOB NO.
A24-006



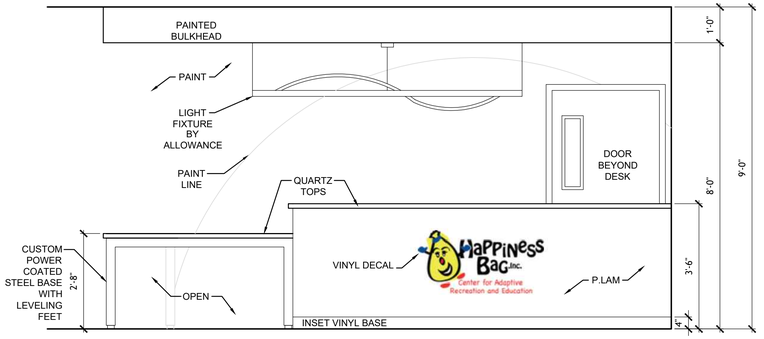
1 A5.3 RESTROOM 112

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



2 A5.3 RECEPTION

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



3 A5.3 RECEPTION

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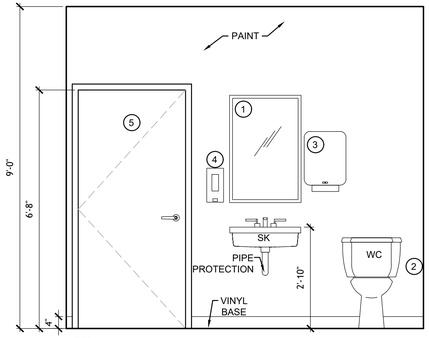
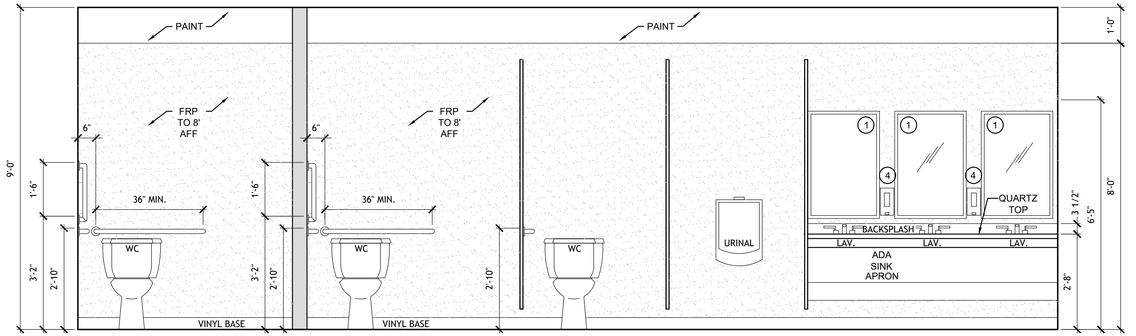


4 A5.3 RESTROOM 111

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

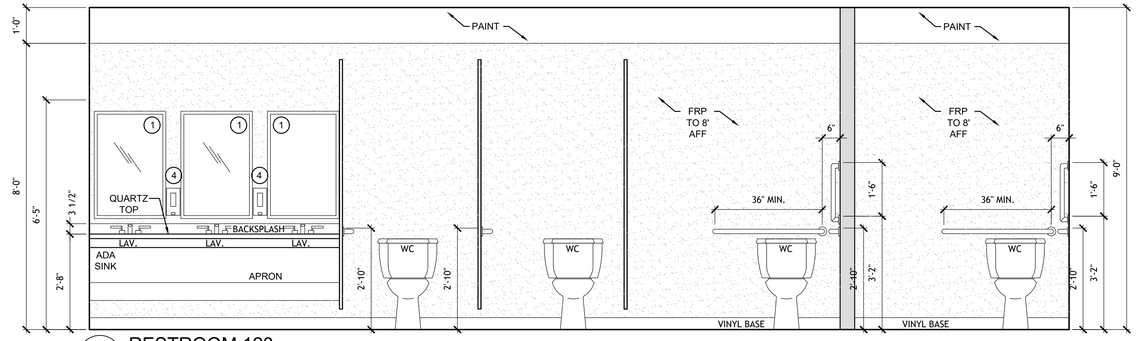


5 A5.3 RESTROOM 129

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

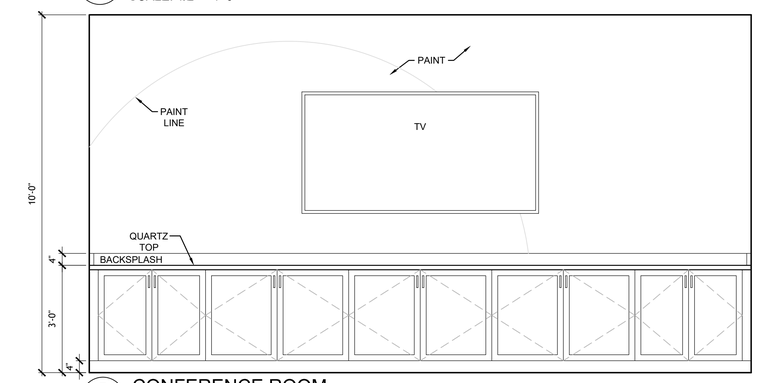
ACCESSORY + APPLIANCE SCHEDULE				
ID	ITEM	MANUFACTURER	MODEL # / COLOR / ADDITIONAL INFO.	NOTES
①	Mirror	Bobrick	B-165/ 24x36	
②	Toilet Tissue Dispenser	-	By Cintas - provide blocking as necessary	
③	Towel Dispenser	-	By Cintas - provide blocking as necessary	
④	Soap Dispenser	-	By Cintas - provide blocking as necessary	
⑤	Coat Hook	Bobrick	B-6827 Satin Finish- provide blocking as necessary	
⑥	Grab Bars	Bobrick	B-5806 x 18/ Satin Finish- provide blocking as necessary	
⑦	Grab Bars	Bobrick	B-5806 x 36/ Satin Finish- provide blocking as necessary	
⑧	Grab Bars	Bobrick	B-5806 x 42/ Satin Finish	
⑨	Refrigerator	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑩	Range	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑪	Hood	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑫	Microwave	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑬	Under counter refrigerator	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑭	Washer	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑮	Dryer	By Owner - Installed by GC	Coordinate utilities required for each appliance	
⑯	Overhead Coiling Door	Overhead Door Company	Fireking Model 640 with slide locks Provide necessary blocking	

FIELD VERIFY ALL DIMENSIONS
+ COORDINATE WITH ALL TRADES



6 A5.3 RESTROOM 123

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



7 A5.3 CONFERENCE ROOM

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

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MATTHEW LYNN HOLDER
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DRAWN BY: CR
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PLOT SCALE: AS NOTED
DATE: 08.02.2024

PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: INTERIOR ELEVATIONS

REVISIONS

SHEET NO.
A5.3

JOB NO.
A24-006

1 A6.0 FINISH PLAN

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

SHOWERS 124 + 130 SPECS

SHOWER WALLS:
'INPRO' SMOOTH PANEL 30x96 SHEETS
WITH SOFT SEAMS
USE BATTEN TO COVER SOFT SEAMS, OUTSIDE AND INSIDE CORNER MOLDINGS + PERIMETER TRIM WHERE NEEDED
USE TOP PANEL MOLDING
SILICONE TO WATERPROOF WHERE NEEDED
CHOOSE FROM FULL RANGE OF A1 CATEGORY COLORS

SHOWER BASES:
'INPRO' ADA ROLL-IN CUSTOM BASE WITH CUSTOM ROUND DRAIN
SILICONE TO WATERPROOF WHERE NEEDED
CHOOSE FROM FULL RANGE OF A1 CATEGORY COLORS

WALLS OUTSIDE SHOWER AREA AND ABOVE THE SHOWER WALL PANELS TO RECEIVE PAINTED GREEN BOARD
FLOOR OUTSIDE SHOWER PAN TO BE LVT1
BASE OUTSIDE OF SHOWER PAN TO BE B2

NOTES:
PROVIDE ADA GRAB BARS AS REQUIRED
PROVIDE ADA 'INPRO' BARIATRIC FOLDING SHOWER SEAT WITH LEGS IN EACH SHOWER

ROOM FINISH SCHEDULE

RM#	ROOM NAME	FLOOR / BASE	WALL FINISHES NORTH	SOUTH	EAST	WEST	COMMENTS / REMARKS
100	OFFICE	LVT / B2	P1	P1	P1	P1	PAINT SCHEDULE - TBD 5 COLORS TO BE USED
101	RESTROOM	LVT / B2	P1	P1	P1	P1	
103	OFFICE	LVT / B2	P1	P1	P1	P1	
104	OFFICE	LVT / B2	P1	P1	P1	P1	
105	OFFICE	LVT / B2	P1	P1	P1	P1	
106	OFFICE	LVT / B2	P1	P1	P1	P1	
107	BREAK ROOM	LVT / B2	P1	P1	P1	P1	
108	WAITING	LVT / B2	P1	P1	P1	P1	
109	VESTIBULE	LVT / B2	P1	P1	P1	P1	
110	STORAGE	SC1 / B2	P1	P1	P1	P1	
111	RESTROOM	LVT / B2	P1	P1	P1	P1	
112	RESTROOM	LVT / B2	P1	P1	P1	P1	
113	DOCUMENTS	LVT / B2	P1	P1	P1	P1	
114	OFFICE	LVT / B2	P1	P1	P1	P1	
115	OFFICE	LVT / B2	P1	P1	P1	P1	
116	OFFICE	LVT / B2	P1	P1	P1	P1	
117	RECEPTION	LVT / B2	P1	P1	P1	P1	
118	MEDS	LVT / B2	P1	P1	P1	P1	
119	STORAGE	SC1 / B2	P1	P1	P1	P1	
120	MECHANICAL	SC1 / B2	P1	P1	P1	P1	
121	IT	SC1 / B2	P1	P1	P1	P1	
123	WOMENS ROOM	LVT / B2	P1	P1	P1	P1 / FRP1	
124	SHOWER	SEE SHOWER SPEC AND NOTES					
125	MECHANICAL	SC1 / B2	P1	P1	P1	P1	
126	COMPUTER LAB	LVT / B2	P1	P1	P1	P1	
127	CONFERENCE	LVT / B2	P1	P1	P1	P1	
128	LIFE SKILLS	LVT / B2	P1	P1	P1	P1	
129	MENS ROOM	LVT / B2	P1	P1	P1	P1 / FRP1	
130	SHOWER	SEE SHOWER SPEC AND NOTES					
131	RECREATIONAL ROOM	LVT / B2	P1	P1	P1	P1	
132	CLASSROOM	LVT / B2	P1	P1	P1	P1	
133	STORAGE	SC1 / B2	P1	P1	P1	P1	
134	CONCESSIONS	LVT / B2	P1	P1	P1	P1	
135	VESTIBULE	LVT / B2	P1	P1	P1	P1	
	CORRIDORS - TYP	LVT / B2	P1	P1	P1	P1	

FINISH MATERIAL SCHEDULE

ID	FINISH MATERIAL	MANUFACTURER	SPECIFICATIONS / COLOR	NOTES
B2	VINYL WALL BASE	JOHNSONITE	SELECT FROM FULL RANGE OF COLORS	
P1	PAINT	SHERWIN WILLIAMS	COLOR TBD	SCRUBBABLE SHEEN - 5 COLOR PAINT SCHEME
WC1	FRP WALL COVERING		SELECT FROM FULL RANGE OF COLORS	TO 96" A.F.F.
C1	CARPET TILE	J+J FLOORING	KINETEX - SELECT FROM FULL RANGE	
LVT1	LUXURY VINYL TILE	TEKNOFLOR	T3 - SELECT FROM FULL RANGE	
LVT2	LUXURY VINYL TILE	TEKNOFLOR	T3 - SELECT FROM FULL RANGE	
SC1	SEALED CONCRETE			

FINISH NOTES:
ALL FINISHES TO BE SUBMITTED AND REVIEWED BY OWNER/ ARCHITECT
PAINT SCHEDULE TO TBD
DETAIL WHERE FRP AND EPOXY MEET IN SHOWER NEEDS TBD

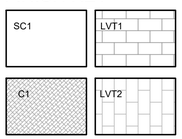
ALLOWANCES:
PROVIDE DECORATIVE LIGHT FIXTURE ALLOWANCE: $2,000
PROVIDE SIGNAGE ALLOWANCE: $2,500
PROVIDE RECOGNITION WALL ALLOWANCE: $1,500

TYPICAL CASEWORK SPECIFICATION:
BY CABINETRY ALLOWANCE -
'MARSH', ATLANTA II, BIRCH - SELECT FROM FULL RANGE OF COLORS
PLYWOOD CONSTRUCTION AT WET LOCATIONS, SOFT CLOSE HINGES AND DRAWER GLIDES
QUARTZ COUNTERTOPS WHERE SPECIFIED ON ELEVATIONS
P.LAM WHERE SPECIFIED ON ELEVATIONS

MELAMINE SHELVING:
PROVIDE WHITE MELAMINE SHELVING ON STANDARDS FOR ALL ROOMS LABELED 'STORAGE'

TOILET PARTITIONS: ROOMS 123 + 129
METAL, POWDER COATED PARTITIONS, USE 'ASI' OR EQUAL - SELECT FROM FULL RANGE OF COLORS

FINISH KEY



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MATTHEW LYNN HOLDER REGISTERED No 10300133 STATE OF INDIANA ARCHITECT

09/03/24

DRAWN BY: CNR
CHECKED BY: MLH
PLOT SCALE: AS NOTED
DATE: 08.02.2024

PROPOSED INSTRUCTIONS FOR:
HAPPINESS BAG
NEW FACILITIES
TERRE HAUTE, INDIANA

SHEET DESCRIPTION: FINISH PLAN + SCHEDULE

REVISIONS

SHEET NO.
A6.0

JOB NO.
A24-006

PLUMBING

- COLD WATER
- HOT WATER
- HOT WATER RETURN
- HOT WATER (140° F)
- HOT WATER RETURN (140° F)
- HOT WATER (180° F)
- HOT WATER RETURN (180° F)
- TEMPERED WATER
- CSW — COLD SOFT WATER
- HSW — HOT SOFT WATER
- HSWR — HOT SOFT WATER RETURN
- NPW — NON-POTABLE WATER
- G — GAS
- A — AIR (WITH PSI)
- I — STORM WATER (SUSPENDED)
- I — STORM WATER (BURIED)
- II — SANITARY WASTE (SUSPENDED)
- II — SANITARY WASTE (BURIED)
- III — ACID WASTE (SUSPENDED)
- III — ACID WASTE (BURIED)
- SANITARY VENT LINE
- GW — GREASE WASTE
- D — DRAIN LINE
- WW — WELL WATER
- GM — GAS METER
- WM — WATER METER
- RPBP (REDUCED PRESSURE BACKFLOW PREVENTER) RPZ (REDUCED PRESSURE ZONE)
- AIR CHAMBER
- SHOCK ABSORBER

PIPE FITTINGS

- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- CONCENTRIC REDUCER
- ECCENTRICAL REDUCER
- END CAP
- UNION
- STRAINER
- FLANGED CONNECTION
- FLOW ARROW
- PIPE ANCHOR
- EXPANSION JOINT
- PIPE SLEEVE
- PIPE ALIGNMENT GUIDES
- FLEX CONNECTOR
- PIPE PITCH ARROW (DOWN IN ARROW DIRECTION)
- PRESSURE GAUGE
- AUTOMATIC AIR VENT
- COMPOUND GAUGE
- ELBOW
- TEE
- CO — CLEANOUTS
- FD — FLOOR DRAIN
- T — THERMOMETER

STEAM PIPING

- BFW — BOILER FEED WATER
- EBFW — EMERGENCY BOILER FEED WATER
- LPS — LOW PRESSURE STEAM
- MPS — MEDIUM PRESSURE STEAM
- HPS — HIGH PRESSURE STEAM
- LPR — LOW PRESSURE CONDENSATE RETURN
- MPR — MEDIUM PRESSURE CONDENSATE RETURN
- HPR — HIGH PRESSURE CONDENSATE RETURN
- PD — CONDENSATE PUMP DISCHARGE
- CR — CONDENSATE RETURN
- FAT — FLOAT & THERMOSTATIC TRAP
- IB — INVERTED BUCKET TRAP
- T — THERMOSTATIC TRAP

HVAC PIPING

- CS — CONDENSER WATER SUPPLY
- CR — CONDENSER WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- GS — GROUND LOOP WATER SUPPLY
- GR — GROUND LOOP WATER RETURN
- HS — HEATING WATER SUPPLY
- HR — HEATING WATER RETURN
- FOS — FUEL OIL SUPPLY
- FOR — FUEL OIL RETURN
- FOV — FUEL OIL VENT
- RD — REFRIGERANT DISCHARGE
- RS — REFRIGERANT SUCTION
- RL — REFRIGERANT LIQUID
- RHG — REFRIGERANT HOT GAS
- DTS — DUAL TEMPERATURE SUPPLY
- DTR — DUAL TEMPERATURE RETURN
- CD — CONDENSATE DRAIN

VALVES

- SHUT-OFF VALVE
- SHUT-OFF VALVE
- VERTICAL SHUT-OFF/IN VERTICAL PIPE
- BALANCING VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE
- MAKEUP WATER VALVE
- FCV — FLOW CONTROL VALVE
- SAFETY/PRESSURE RELIEF VALVE
- TEMP/PRESSURE RELIEF VALVE
- CONTROL VALVE (TCV)
- 3-WAY CONTROL VALVE
- THROTTLING VALVE

REFRIGERATION VALVES/FITTINGS

- FD — FILTER-DRYER
- S — SIGHT GLASS
- CHARGING VALVE
- EVAPORATOR PRESSURE REGULATOR
- MANUAL REFRIGERATION VALVE
- THERMOSTATIC EXPANSION VALVE

RADIATION SYMBOLS

- FINNED TUBE RADIATION
- FINNED TUBE RADIATION IN COVER
- BARE PIPE IN COVER
- RADIATION COVER ONLY

DUCT SYMBOLS

- VOLUME DAMPER
- SUPPLY DUCT UP
- RETURN OR EXHAUST DUCT UP
- SUPPLY DUCT DOWN
- RETURN OR EXHAUST DUCT DOWN
- INTERNAL LINED DUCT
- FD — FIRE DAMPER (FD) IN DUCT
- FSD — COMBINATION FIRE/SMOKE DAMPER (FSD) IN DUCT
- SD — SMOKE DAMPER (SD) IN DUCT
- AP — ACCESS PANEL

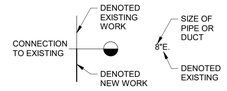
FIRE PROTECTION SYSTEM

- PENDANT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- F — FIRE PROTECTION PIPING
- DS — DRY STANDPIPE
- DP — DRY PIPE SPRINKLER PIPING
- PA — PRE-ACTION SPRINKLER PIPING
- W P — WET FIRE PROTECTION PIPING
- FH — FIRE HYDRANT
- SIAMESE HOSE CONNECTION
- PIV — POST INDICATOR VALVE
- TS — TAMPER SWITCH
- FS — FLOW SWITCH

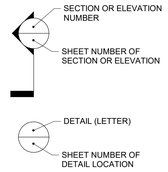
TEMPERATURE CONTROL/MONITORING

- T_H — ROOM THERMOSTAT (HEAT)
- T_H,C — ROOM THERMOSTAT (HEAT/COOL)
- T_C — ROOM THERMOSTAT (COOL)
- T — DUCT THERMOSTAT
- H — HUMIDISTAT
- C — CARBON DIOXIDE SENSOR
- FS — FLOW SWITCH
- T — TEMPERATURE SENSOR
- FM — FLOW METER
- M — MOTORIZED DAMPER
- DPT — DIFFERENTIAL PRESSURE TRANSMITTER
- PETE'S PLUG
- VFD — VARIABLE FREQUENCY DRIVE
- TCP — TEMPERATURE CONTROL PANEL

DRAWING NOTATIONS

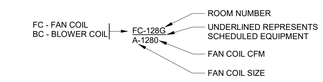


SECTIONS AND DETAILS

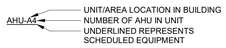


NOMENCLATURE FOR SCHEDULED DEVICES

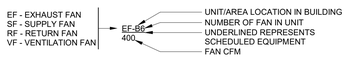
(SEE SCHEDULES M600 SERIES DRAWINGS FOR ADDITIONAL INFORMATION)



FAN COIL

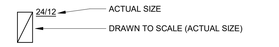


AIR HANDLING UNIT

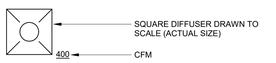


FAN

VARIABLE AIR VOLUME BOX



RETURN GRILLE FOR RETURN AIR PLENUM CEILING



SUPPLY DIFFUSER

EXHAUST/RETURN GRILLE

DOUBLE DEFLECTION SUPPLY REGISTER

ABBREVIATIONS

AD	AREA DRAIN
AFC	AUTOMATIC FLOW CONTROL
AFF	ABOVE FINISHED FLOOR
AHR	AIR HOSE REEL
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AP	ACCESS PANEL
AS	AIR SEPARATOR
BD	BLOWDOWN
BDD	BACKDRAFT/PRESSURE RELIEF DAMPER
BTU	BRITISH THERMAL UNIT
BV	BALANCE VALVE
CB	CATCH BASIN
CI	CAST IRON
CL	CENTERLINE
CO	CLEANOUT
CF	CLOSET FLANGE
COND	CONDENSATE
CONV	HYDRONIC CONVECTOR
CUH	CABINET UNIT HEATER
CW	COLD WATER
DB	DRY BULB
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DS	DOWNSPOUT
DXC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBBR	ELECTRIC BASEBOARD RADIATION
EC	ELECTRICAL CONCTRACTOR
EG	EXHAUST GRILLE
ECONV	ELECTRIC CONVECTOR
ECUH	ELECTRIC CABINET UNIT HEATER
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATION
EOM	END OF MAIN DRIP
EPUH	ELECTRIC PROPELLER UNIT HEATER
ERCP	ELECTRIC RADIANT CEILING PANEL
ESP	EXTERNAL STATIC PRESSURE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXPT	EXPANSION TANK
E.	EXISTING
ETR	EXISTING TO REMAIN
FD	FLOOR DRAIN OR FIRE DAMPER
FS	FLOOR SINK
FPVAV	FAN POWERED VAV
FOB	FLAT ON BOTTOM
FSD	COMBINATION FIRE/SMOKE DAMPER
FTR	HYDRONIC FINNED TUBE RADIATION
GC	GENERAL CONTRACTOR
GEN	GENERAL
HB	HOSE BIBB
HTG	HEATING
HW	HOT WATER
HWR	HOT WATER RETURN
HYD	WALL HYDRANT
ID	INTERNAL DIAMETER
INV. EL.	INVERTED ELEVATION
LAT	LEAVING AIR TEMPERATURE
LBG	LINEAR BAR GRILLE
LBRG	LINEAR BAR RETURN GRILLE
LAV	LAVATORY
MBH	1000 BTU/HOUR
MECH	MECHANICAL
MH	MANHOLE
MC	MECHANICAL CONTRACTOR
MS	MOP SINK
MUV	AUTOMATIC MAKE-UP VALVE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
ORD	OVERFLOW ROOF DRAIN
OSD	OPEN SITE DRAIN
PFHX	PLATE AND FRAME HEAT EXCHANGER
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PUH	PROPELLER UNIT HEATER
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RCP	HYDRONIC RADIANT CIELING HEATING PANEL
RCNP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECIRC	RECIRCULATING
RG	RETURN GRILLE
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
RR	RETURN REGISTER
RIV	ROOF INTAKE VENT
RRV	ROOF RELIEF VENT
SA	SUPPLY AIR
SAN	SANITARY
SD	SMOKE DAMPER
SG	SUPPLY GRILLE
SHDR	SHOWER DRAIN
SK	SINK
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STHX	SHELL AND TUBE HEAT EXCHANGER
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TG	TRANSFER GRILLE
TO	TRANSFER OPENING
TP	TRAP PRIMER LINE
TYP	TYPICAL
UR	URINAL
VAV	VARIABLE AIR VOLUME
VCP	VETRIFIED CLAY PIPE
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WASTE
WB	WET BULB
WC	WATER CLOSET
WS	WASTE STACK

GENERAL NOTES

1. THESE NOTES APPLY TO EACH AND EVERY 'M', 'P' AND 'FP' SERIES DRAWINGS.
2. ALL NEW WORK IS DRAWN DARK. ALL WORK DRAWN LIGHT AND FOLLOWED BY (E.) IS EXISTING.
3. ALL WORK SHALL REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.
4. FIELD VERIFY ALL EXISTING CONDITIONS AS TO EXACT SERVICE, LOCATION, TYPE OF MATERIAL, ETC. BEFORE BIDDING AND BEFORE BEGINNING RENOVATION WORK.
5. COORDINATE ALL SHUT-DOWNS, DELIVERY, AND STORAGE OF MATERIALS, ETC. WITH OWNER'S REPRESENTATIVE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH ALL OTHER TRADES. SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS RELATED TO COORDINATION.
7. CONTRACTORS SHALL PROTECT ALL EXISTING OWNER FACILITIES DURING CONSTRUCTION. ANY AND ALL OWNER FACILITIES DAMAGED OR DISCONNECTED BY CONTRACTOR OPERATIONS SHALL BE FULLY RESTORED TO PREVIOUS OPERATING AND APPEARANCE CONDITION BY CONTRACTOR.
8. PROVIDE SLEEVES FOR ALL PIPING AND DUCTWORK THAT PENETRATE WALLS, WHETHER SHOWN OR NOT. HOLES THROUGH EXISTING WALLS TO BE CORE DRILLED OR DRILLED WITH HOLE SAW. SEE SPECIFICATIONS.
9. ALL UNDERLINED EQUIPMENT IS SCHEDULED. SEE M600, P600 AND FP600 SERIES DRAWINGS FOR SCHEDULES.
10. REFERENCE M400, P400 AND FP400 SERIES DRAWINGS FOR TYPICAL AND SPECIFIC INSTALLATION REQUIREMENTS FOR EQUIPMENT, ETC.
11. SMOKING, ALCOHOL, DRUGS, WEAPONS, AND CONTRABAND ARE STRICTLY FORBIDDEN ON JOB SITE PROPERTY.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR CORE DRILLING AND CUTTING HOLES THROUGH WALLS AND FLOORS AS REQUIRED TO INSTALL NEW PIPING AND DUCTWORK, WHETHER SHOWN OR NOT UNLESS SPECIFICALLY NOTED ON 'S' SERIES DRAWINGS.
13. CONTRACTOR SHALL PROVIDE PLATING AS REQUIRED TO PROTECT SURFACE OF EXISTING ASPHALT PARKING LOT. PROVIDE PLATES UNDER WHEELS OF DUMPSTERS, LIFTING DEVICES AND ANY OTHER EQUIPMENT THAT COULD SINK INTO THE ASPHALT.
14. FIELD VERIFY EXACT SIZES OF EXISTING PIPING AND DUCTWORK SYSTEMS SHOWN TO BE CONNECTED TO NEW WORK. IN THE EVENT ACTUAL SIZE IS DIFFERENT THAN SHOWN ON DRAWINGS, CONTACT ENGINEER FOR DIRECTION PRIOR TO ANY WORK.
15. LOCATE AIR TERMINAL BOXES, VALVES, METERS, GAUGES, DAMPERS, FANS, ETC., ABOVE LAY-IN CEILING OR IN EXPOSED AREAS. ALL ITEMS REQUIRING SERVICE AND VALVES MUST BE ACCESSIBLE.
16. ADHERE ENGRAVED PLASTIC LAMINATE TAGS TO THE ACOUSTICAL LAY-IN CEILING GRID AT ALL LOCATIONS WHERE TERMINAL DEVICES, VALVES, FANS, ETC. ARE LOCATED ABOVE THAT CEILING INDICATING THE EQUIPMENT NOMENCLATURE INSTALLED.
17. DO NOT INSTALL DEVICES WHICH REQUIRE SERVICE BEHIND WALLS OR PLASTER CEILINGS OR BAR JOISTS.
18. ACCESS PANELS ARE REQUIRED IN HARD CEILINGS WHETHER SHOWN OR NOT WHEREVER ACCESS IS REQUIRED TO INSTALL OR SERVICE EQUIPMENT. COORDINATE LOCATIONS WITH REFLECTED CEILING PLANS.
19. IF ACCESS PANELS ARE NEEDED, PROVIDE PANELS WITH HINGES AND KEYED TO THE BUILDING MASTER KEY SYSTEM. DO NOT USE CLOSURE SCREWS.
20. WHERE UNITS MUST BE INSTALLED ABOVE HARD CEILINGS, CONTROL RELAYS, SHUT-OFF VALVES, AND/OR SIMILAR ACCESSORIES MUST BE LOCATED FOR MAINTENANCE THROUGH THE ACCESS PANEL.
21. DO NOT RUN ANY UTILITIES, DUCTWORK, PIPING OR EQUIPMENT ABOVE TELECOMMUNICATIONS ROOMS OR ELEVATOR EQUIPMENT ROOMS. CONTACT ENGINEER IF SUCH A CONDITION IS REALIZED, PRIOR TO INSTALLATION.
22. ALL FLOOR OR OUTDOOR MOUNTED EQUIPMENT SHALL BE INSTALLED ON A CONCRETE HOUSEKEEPING PAD. CONCRETE PADS FOR ALL HVAC EQUIPMENT MUST BE A FACTORY MIX (NOT BAG MIXED ON SITE).
23. ALL PLUMBING AND MECHANICAL PIPING AND INSULATION MATERIALS INSTALLED IN CEILING RETURN AIR PLENUMS SHALL COMPLY WITH ASTM E84 FOR FLAME-SPREAD RATING OF 25 OR LESS AND SMOKE-DEVELOPED RATING OF 50 OR LESS.
24. ADDITIONAL GENERAL NOTES SPECIFIC TO A PARTICULAR DRAWING ARE NOTED ON THOSE DRAWINGS.
25. FOR WALLS THAT GO TO DECK, REFERENCE THE 'A' SERIES DRAWINGS. CONTRACTOR SHALL PROVIDE ACOUSTIC SEALANT AROUND ALL DUCT AND PIPE PENETRATIONS THROUGH FULL HEIGHT WALLS.
26. ACCESS PANELS ARE REQUIRED IN HARD CEILINGS WHEREVER ACCESS IS REQUIRED TO INSTALL OR SERVICE MECHANICAL EQUIPMENT. SEE 'A' SERIES DRAWINGS AND SPECIFICATIONS. COORDINATE LOCATION WITH REFLECTED CEILING PLAN.

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JOSEPH C. BECKER REGISTERED No. 10505141 STATE OF INDIANA PROFESSIONAL ENGINEER

08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

DRAWN BY: JCB	DESIGNED BY: JCB
SCALE: REFER TO DRAWING	CHECKED BY: JCB
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:

SYMBOLS, ABBREVIATIONS, & GENERAL NOTES - MECHANICAL

SHEET NUMBER:

PM-001

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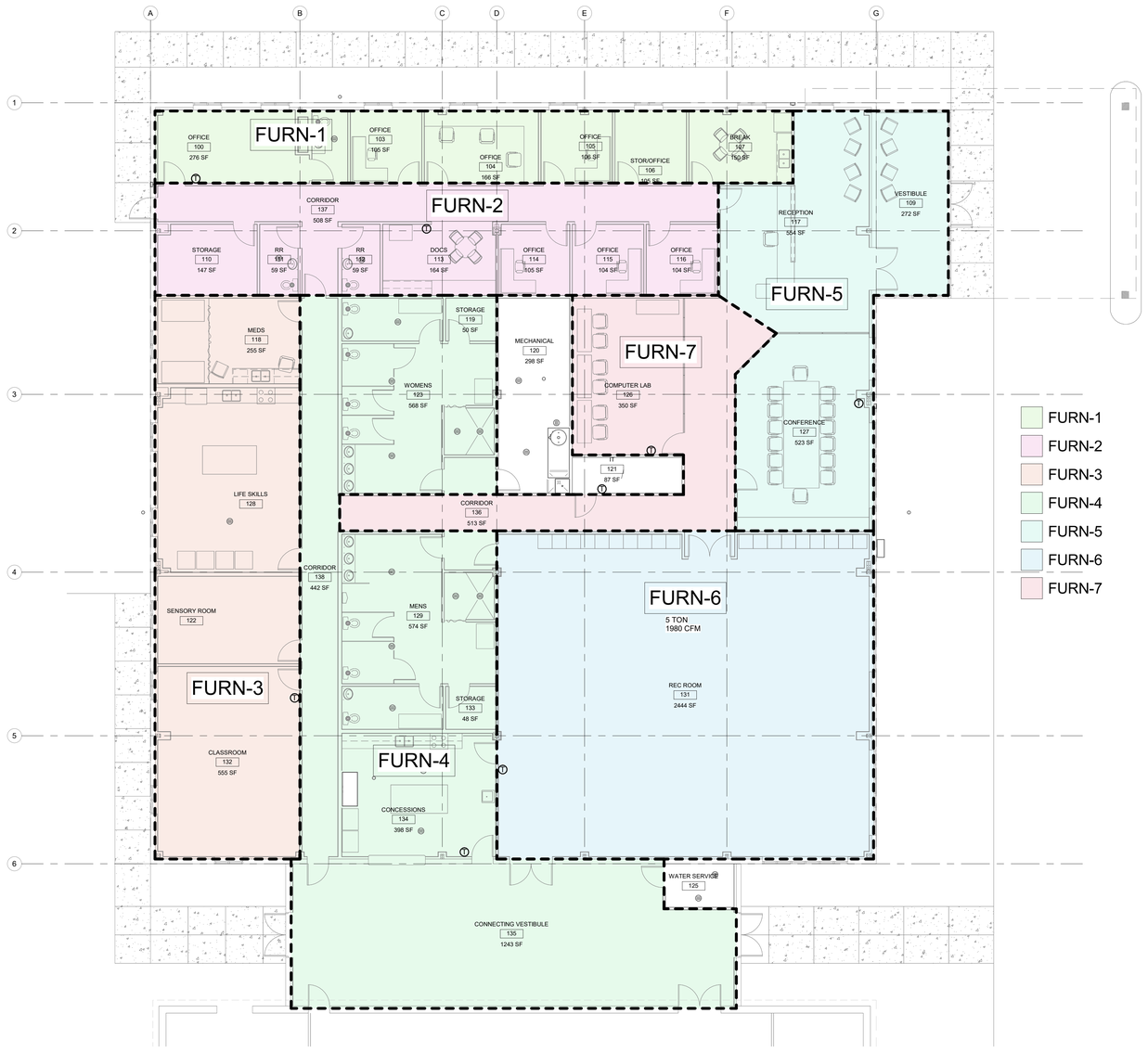

FIRST FLOOR PLAN - HVAC ZONES

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

NORTH

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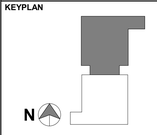
TERRE HAUTE, IN 47802

KEYPLAN



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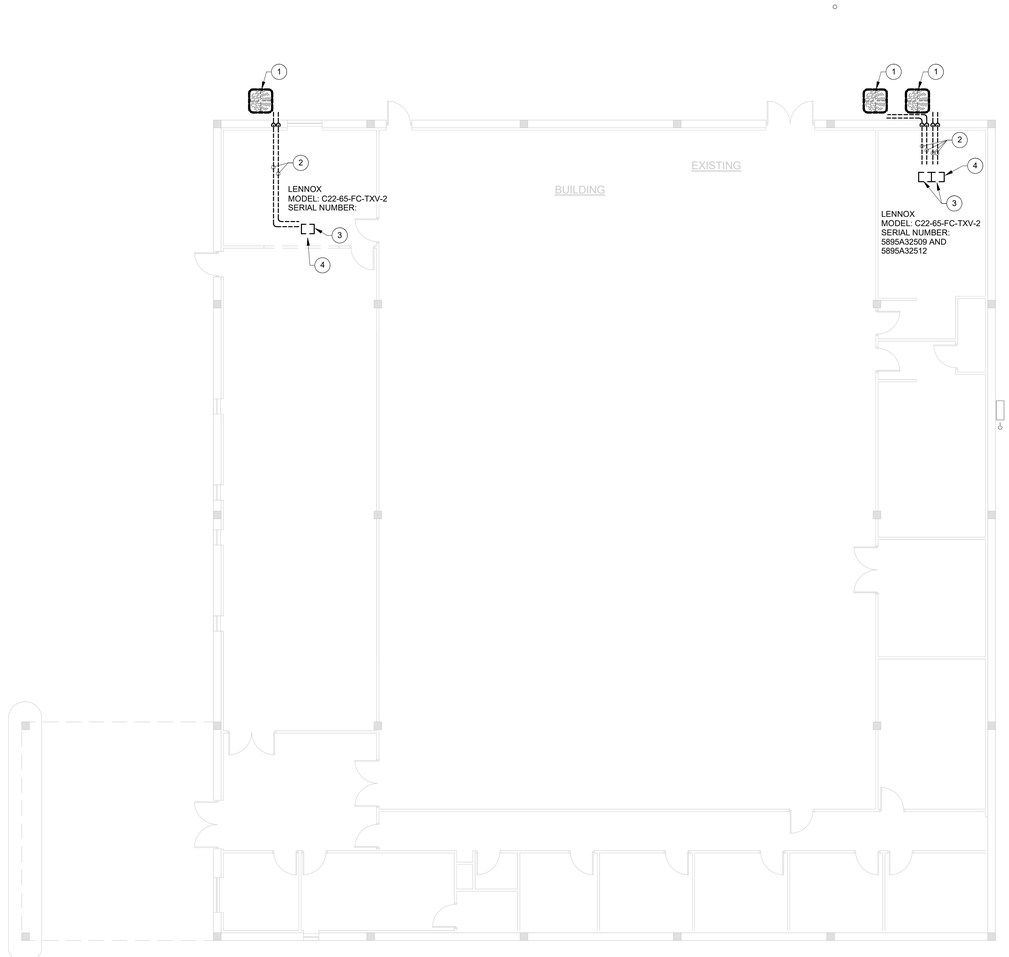
JCB	JCB
SCALE: REFER TO DRAWING	**CHECKED BY:** JCB
DATE: 08/06/2024	**JOB NO.:** 24020

SHEET DESCRIPTION:

HVAC ZONES

SHEET NUMBER:

M-002



FIRST FLOOR PLAN - MECHANICAL DEMOLITION

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

NORTH

DEMOLITION LEGEND:

WORK TO BE REMOVED

WORK TO REMAIN

GENERAL NOTES - DEMOLITION:

1. THESE NOTES APPLY TO ALL PLUMBING AND MECHANICAL DEMOLITION DRAWINGS.
2. REMOVE ALL PIPING, EQUIPMENT, VALVES, ETC., DRAWN DARK DASHED, AND LABELED. ALL PIPING, EQUIPMENT, VALVES, ETC., DRAWING LIGHT SHALL REMAIN.
3. ALL PIPING, DUCTWORK AND EQUIPMENT ABANDONED BY NATURE OF NEW CONSTRUCTION SHALL BE REMOVED IN THIS CONTRACT.
4. THOROUGHLY REVIEW ALL DRAWINGS PRIOR TO ANY DEMOLITION WORK. ANY DEVICES REMOVED ACCIDENTALLY WILL BE REPLACED AT NO ADDITIONAL COST TO OWNER.
5. INSTALL CAPS ON ALL PIPING AND DUCTWORK WHERE THEY ARE LEFT OPEN ENDED BY DEMOLITION. PROVIDE TAGS FOR ALL ABANDONED OR CAPPED PIPING LISTING OLD SERVICE.
6. DISPOSAL OF DEMOLISHED MATERIALS SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
7. FIELD VERIFY ALL EXISTING CONDITIONS AS TO EXACT SERVICE, LOCATION, TYPE OF MATERIAL, ETC. BEFORE BIDDING AND BEFORE BEGINNING ANY DEMOLITION.
8. REMOVE ALL HANGERS, STRAPS, BRACKETS, PIPE SUPPORTS, ANCHORS, EXPANSION JOINTS, ETC. ASSOCIATED WITH DUCTWORK AND/OR PIPING TO BE REMOVED.
9. REPAIR OR REPLACE PIPE AND DUCT INSULATION DAMAGED DURING DEMOLITION OR RENOVATION TO MATCH ORIGINAL CONDITION.
10. MECHANICAL CONTRACTOR SHALL PATCH ALL OPENINGS LEFT BY REMOVAL OF MECHANICAL OR PLUMBING PIPE, DUCTWORK, ETC. IN EXISTING WALLS AND FLOORS, UNLESS SPECIFICALLY NOTED TO BE PERFORMED BY OTHERS. WORK BY OTHERS INDICATED ON 'A' AND 'S'-SERIES DRAWINGS. REPAIR SURFACES TO MATCH EXISTING SURFACES.
11. CEILING REMOVAL AND REPLACEMENT SHALL BE INCLUDED IN BID IF REQUIRED TO INSTALL PIPES, DUCTWORK OR EQUIPMENT ABOVE EXISTING CEILING.
12. OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED EQUIPMENT.

(#) PLAN NOTES:

1. REMOVE 5-TON R-22 OUTDOOR CONDENSING UNIT AND CONTROL WIRING COMPLETELY.
2. REMOVE REFRIGERANT PIPING COMPLETELY.
3. REMOVE 5-TON R-22 INDOOR DX COIL. FURNACE AND DUCTWORK TO REMAIN. SYSTEM IS LOCATED ON MECHANICAL MEZZANINE.
4. ALTERNATE BID: REPLACE FURNACES IN ADDITION TO COOLING COIL. (3) TOTAL UNITS LIKE LENNOX EL196UH110XE60, 110 MBH. PROVIDE TWINNING KIT FOR EAST PAIR.

0 2 4 6 8 16 24 32

1 2 3 4

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TERRE HAUTE, IN 47802

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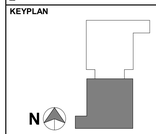

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FIRST FLOOR PLAN - MECHANICAL DEMOLITION

SHEET NUMBER:

MD-201

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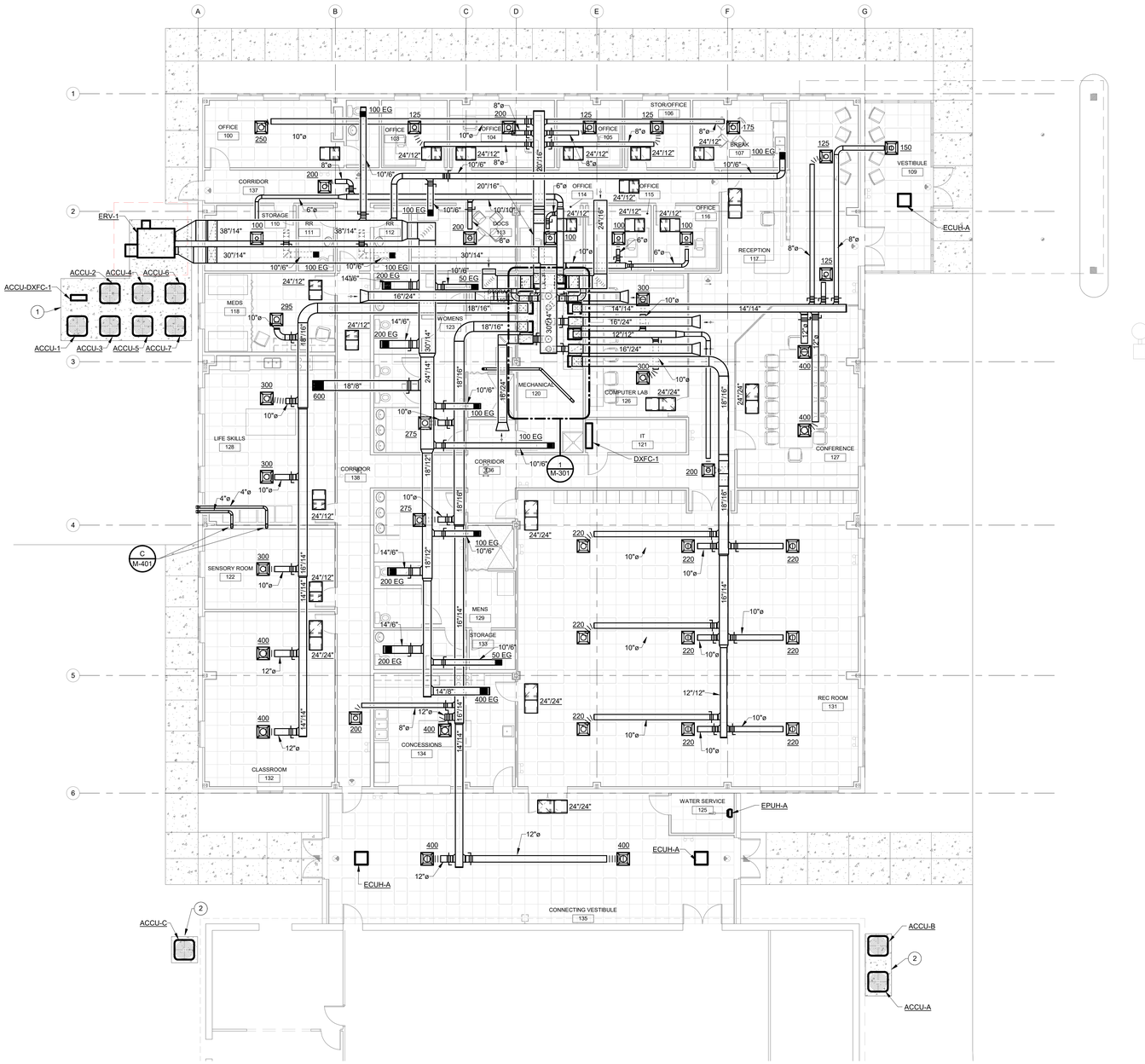

FIRST FLOOR PLAN - AIR DISTRIBUTION

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES - AIR DISTRIBUTION:

1. FLEX DUCT CONNECTIONS TO DIFFUSERS SHALL BE A MAXIMUM OF 3'-0" IN LENGTH.
2. BRANCH DUCTS SHALL HAVE 45° BOOT TAP FROM SIDE OF MAIN. NO SPIN-IN FITTING ALLOWED.
3. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS TO DIFFUSERS, EXHAUST GRILLES, ETC. WHETHER SHOWN OR NOT. THESE DAMPERS ARE TO BE USED FOR SYSTEM BALANCE. DAMPERS IN DIFFUSERS, REGISTERS, ETC. SHALL NOT BE USED FOR AIR BALANCE.
4. ALL VOLUME DAMPERS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS, IF POSSIBLE. IF NOT POSSIBLE, AND VOLUME DAMPER IS INSTALLED ABOVE A HARD CEILING OR IN AN INACCESSIBLE LOCATION, THEN PROVIDE ACCESS PANEL IN CEILING OR INSTALL A REMOTE DAMPER ACTUATOR. REMOTE DAMPER ACTUATOR LIKE YOUNG REGULATOR CO. 1200 WORM GEAR WITH FLEX SHAFT ASSEMBLY AND 7/8" 896-FS CEILING TERMINATION OR YOUNG EBD ELECTRONIC BALANCING DAMPER WITH EBDP ELECTRONIC BALANCING DAMPER POSITIONER AND VISUAL INDICATION OF DAMPER POSITION OR APPROVED EQUAL. PROVIDE DRAWING SHOWING WHICH INTERFACE OPERATES WHICH DAMPER.
5. SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR OUTLETS.
6. COORDINATE AND ADJUST DIFFUSER LOCATIONS, AS NEEDED.
7. SEE DRAWING M601 FOR CEILING DIFFUSER/EXHAUST AND RETURN REGISTER SCHEDULE.
8. ALL TRANSFER OPENINGS TO BE ABOVE CEILINGS.
9. PROVIDE INTERNALLY LINED TRANSFER DUCTS WITH ELBOW IN WALLS OF ALL ROOMS ABOVE CEILING WHETHER SHOWN OR NOT. SEE A-SERIES DRAWINGS FOR WALLS TO DECK.
10. ALL RETURN GRILLES TO HAVE ACOUSTICAL ELBOW. SEE PLENUM RETURN GRILLE SCHEDULE.
11. SUPPLY DIFFUSERS TO BE INSTALLED NO CLOSER THAN 4'-0" TO ALL SMOKE DETECTORS. REFER TO T-SERIES AND E-SERIES DRAWINGS FOR ADDITIONAL CEILING INSTALLED DEVICES. COORDINATE AND ADJUST DIFFUSER LOCATIONS, AS NEEDED.
12. SHEET METAL CONTRACTOR TO PROVIDE DUCT ACCESS DOORS FOR FIRE DAMPERS, MOTORIZED DAMPERS, AIR FLOW MEASURING STATIONS, AND ON BOTH SIDES OF THE REHEAT COILS. COORDINATE WITH MECHANICAL CONTRACTOR AND GENERAL TRADES CONTRACTOR.
13. EXTERNALLY INSULATE ALL FLAT OVAL AND ROUND DUCTWORK. ALL EXPOSED DUCTWORK INSULATION SHALL BE PHENOLIC FOAM WITH PAINT, COLOR BY ARCHITECT. ALL EXPOSED INSULATION TO BE INSTALLED NEATLY TO THE SATISFACTION OF ENGINEER. ALL FLAT OVAL ABOVE CEILING MAY BE FLEXIBLE FIBERGLASS.
14. MECHANICAL CONTRACTOR SHALL BLANK-OFF UNUSED PORTIONS OF ALL LOUVERS WHETHER SHOWN OR NOT WITH SHEET METAL AND 2" OF RIGID INSULATION PAINTED BLACK.
15. EACH AND EVERY EXHAUST FAN TO HAVE INSULATED, TIGHT-CLOSING ISOLATION DAMPER WHETHER SHOWN OR NOT.
16. EXTERNALLY INSULATE ALL SUPPLY DUCTWORK CONCEALED ABOVE CEILINGS WITH FLEXIBLE FIBERGLASS. EXPOSED SUPPLY DUCTWORK TO BE DUAL WALL INSULATED ROUND DUCTWORK WITH PAINT GRIP FINISH. ALL EXPOSED DUCTWORK TO BE INSTALLED NEATLY TO THE SATISFACTION OF THE ENGINEER.
17. THESE ARE NOT FABRICATION DRAWINGS. THESE DRAWINGS ARE NOT INTENDED TO SHOWN ALL OFFSETS AS REQUIRED FOR PROPER DUCTWORK INSTALLATION. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND PREPARE FABRICATION DRAWINGS BASED ON EXISTING CONDITIONS. ALL ADDITIONAL OFFSETS SHALL BE INCLUDED IN BID PRICE.
18. VERIFY FIT OF DUCTWORK PRIOR TO ANY FABRICATION. CONTRACTOR WILL NOT BE REIMBURSED FOR DUCTWORK THAT WILL NOT FIT.
19. REFERENCE M400 SERIES DRAWINGS FOR TYPICAL AND SPECIFIC INSTALLATION REQUIREMENTS FOR EQUIPMENT, ETC.
20. WORKMANSHIP FOR ALL DUCTWORK AND EQUIPMENT MUST BE IN COMPLIANCE WITH SMACNA STANDARDS.
21. INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION - METAL AND FLEXIBLE" UNLESS OTHERWISE INDICATED.
22. SEAL DUCT SEAMS AND JOINTS FOR DUCT STATIC PRESSURE AND LEAKAGE CLASSES SPECIFIED IN "PERFORMANCE REQUIREMENTS" ARTICLE, ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", TABLE 1-1, "STANDARD DUCT SEALING REQUIREMENTS", UNLESS OTHERWISE INDICATED.
23. ALL EQUIPMENT, VALVES, CONTROLLERS, ETC., REQUIRING SERVICE ABOVE CEILINGS SHALL BE INSTALLED NO HIGHER THAN 18" ABOVE CEILING UNLESS APPROVED BY ENGINEER.
24. ALSO SEE SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. CONCRETE EQUIPMENT PAD BY GC.
2. CONCRETE EQUIPMENT PAD BY MC.

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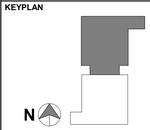
KEYPLAN



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SHEET DESCRIPTION:

FIRST FLOOR PLAN - AIR DISTRIBUTION

SHEET NUMBER:

M-201

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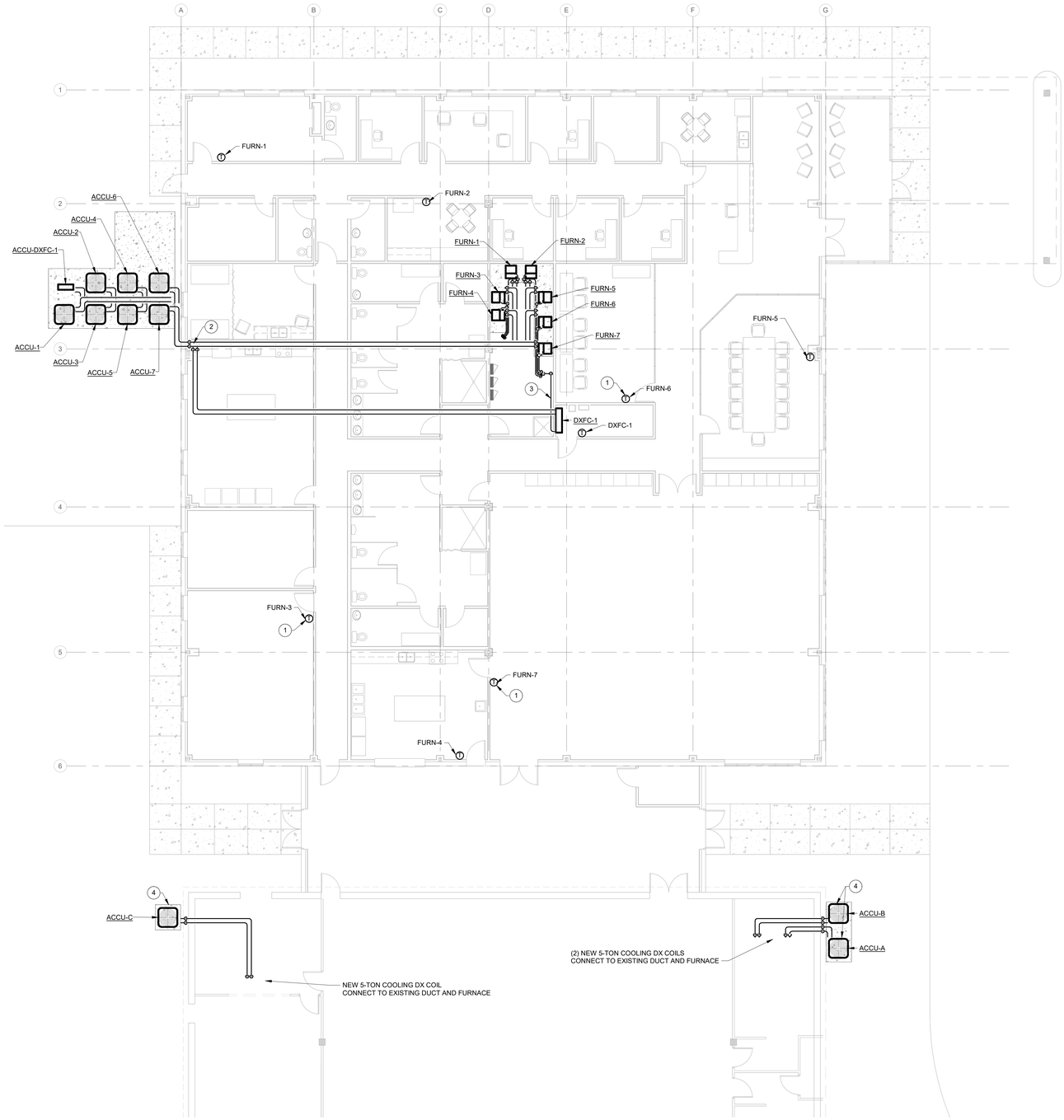

FIRST FLOOR PLAN - HYDRONICS

NORTH

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

0 2 4 6 8 16 24 32

1 2 3 4

RENOVATION LEGEND:

WORK TO BE INSTALLED

WORK TO REMAIN

GENERAL NOTES - HYDRONICS:

1. SEE PM-001 FOR ADDITIONAL NOTES.
2. SIZE REFRIGERANT PIPING AND PROVIDE ACCESSORIES PER EQUIPMENT MFR INSTALLATION INSTRUCTIONS.

(#) PLAN NOTES:

1. PROVIDE LOCKING PLASTIC COVER FOR THERMOSTAT.
2. ROUTE REFRIGERANT PIPING DOWN IN CHASE SPACE NEXT TO BUILDING STRUCTURE.
3. 3/4" COOLING COIL CONDENSATE DRAIN PIPING FROM DXFC-1 TO FLOOR DRAIN IN MECHANICAL ROOM. SEE PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATION.
4. NEW CONTROL WIRING BETWEEN OUTDOOR CONDENSING UNIT AND INDOOR FURNACE.

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HAPPINESS BAG
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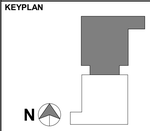
KEYPLAN



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SHEET DESCRIPTION:

FIRST FLOOR PLAN - HYDRONICS

SHEET NUMBER:

M-211

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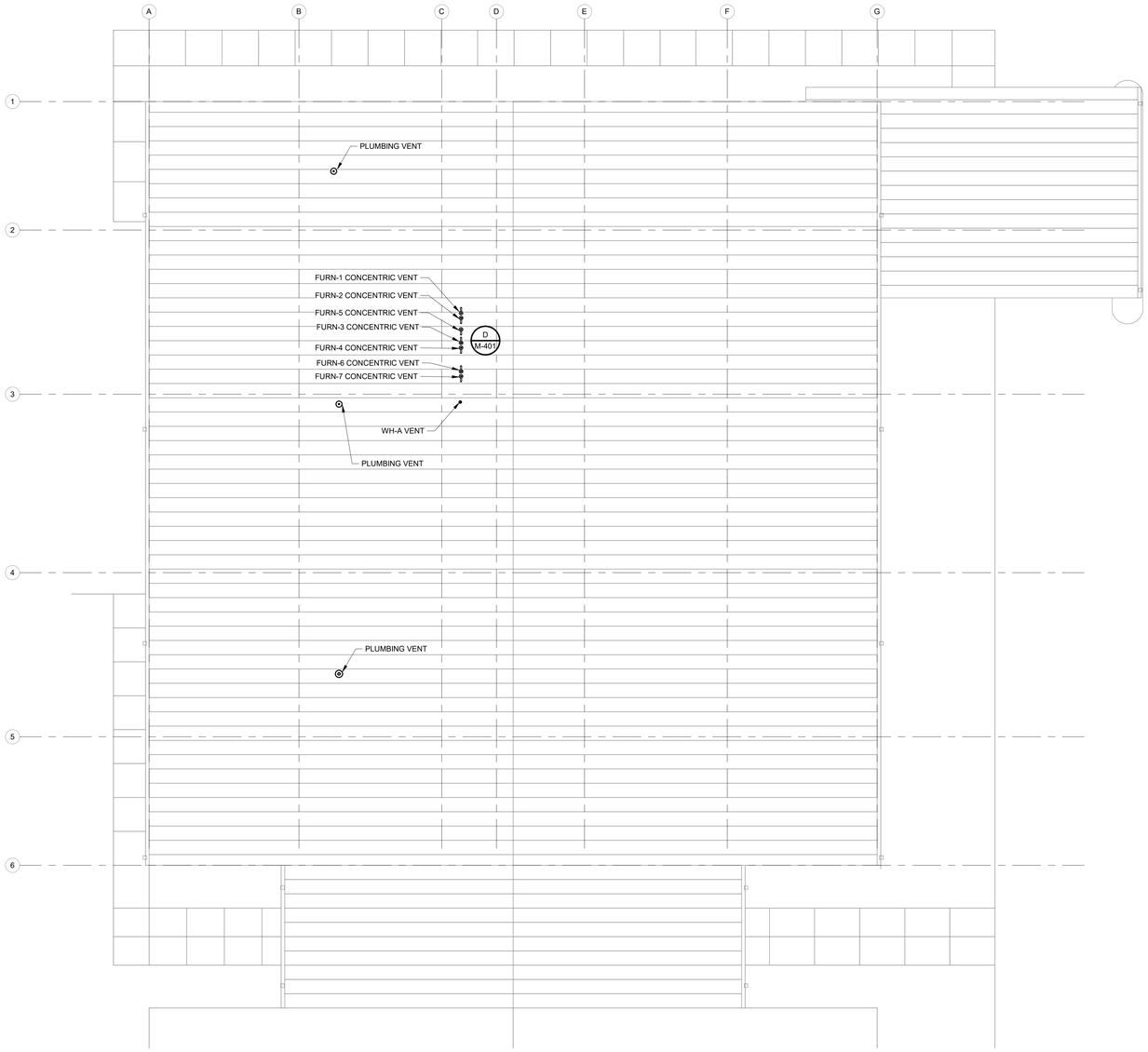

ROOF PLAN - MECHANICAL

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE SHEET MP-001 FOR ADDITIONAL GENERAL NOTES.
2. LOCATE ROOF PENETRATIONS ON WEST SIDE OF ROOF RIDGE, WEST OF COLUMN D.
3. COORDINATE ROOF PENETRATION AND SEALING ACCESSORIES AND METHODS WITH METAL ROOF INSTALLER.

(#) PLAN NOTES:

1. -

D&A #24020

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Center for Adaptive Recreation and Education

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JOSEPH C. BECKER REGISTERED No. 10505141 STATE OF INDIANA PROFESSIONAL ENGINEER

08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

DRAWN BY: JCB	DESIGNED BY: JCB
SCALE: REFER TO DRAWING	CHECKED BY: JCB
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:

ROOF PLAN - MECHANICAL

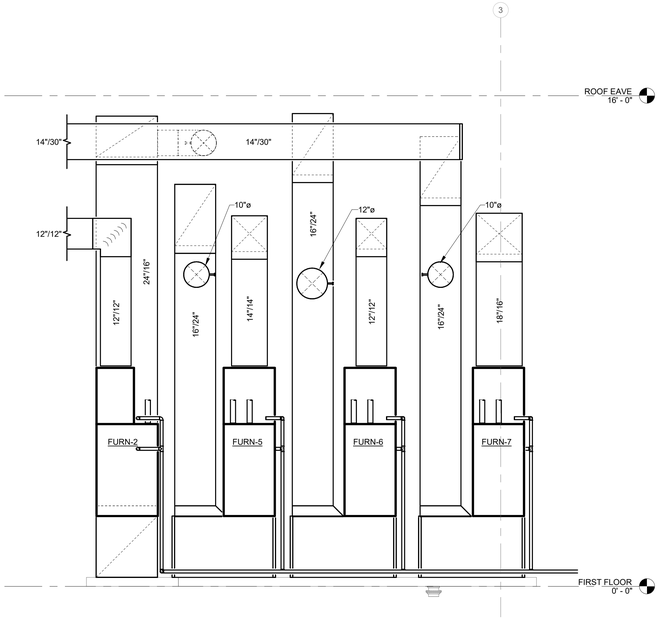
SHEET NUMBER:

M-220

PRINTED ON: 8/23/2024 12:20:53 PM

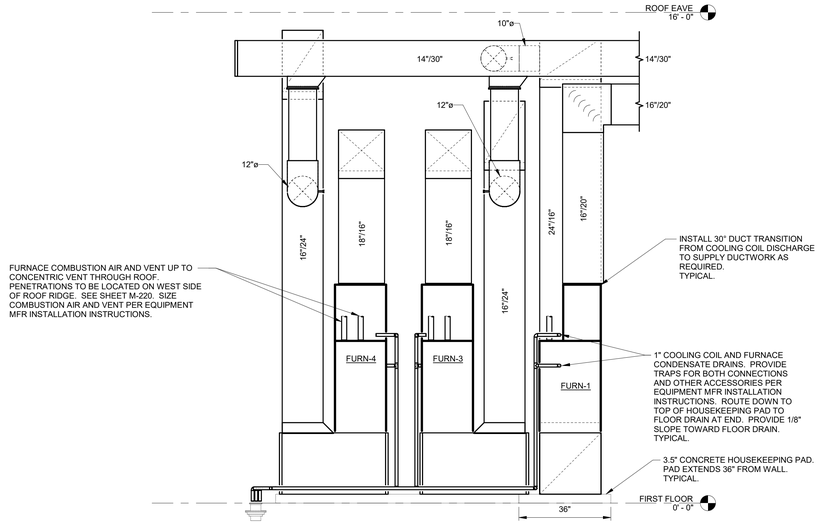
GENERAL NOTES:

1. SEE PM-001 FOR ADDITIONAL NOTES.



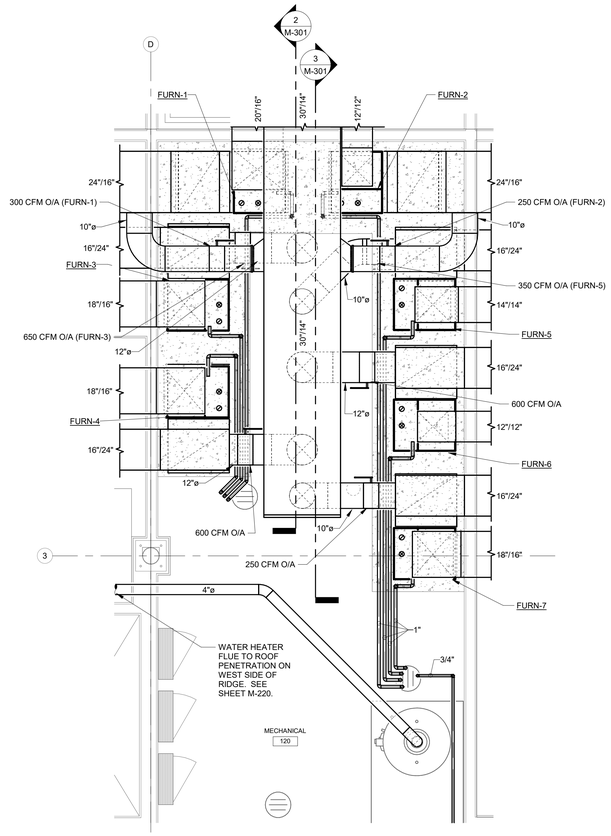
3 MECHANICAL ROOM SECTION - MECHANICAL

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



2 MECHANICAL ROOM SECTION - MECHANICAL

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



1 ENLARGED MECHANICAL ROOM - MECHANICAL PLAN

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

0 1 2 4 6 8
1 2 3 4

D&A #24020

R.E. Dimond and Associates, Inc.
Consulting Engineers

732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
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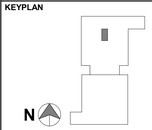

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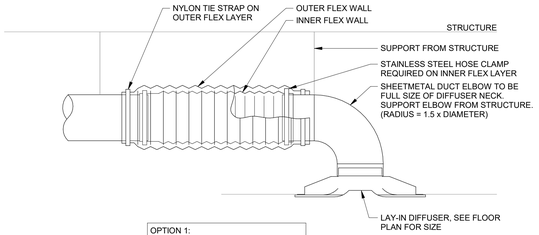
ENLARGED PLANS - MECHANICAL

SHEET NUMBER:

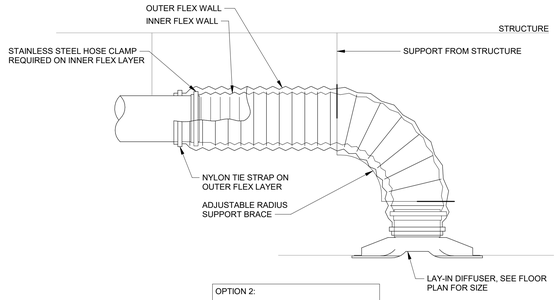
M-301

PRINTED ON: 8/23/2024 12:20:56 PM



OPTION 1:

PROVIDE 90-DEGREE METAL ELBOW FOR FINAL CONNECTION TO DIFFUSER. PROVIDE STAINLESS STEEL HOSE CLAMP FOR CONNECTION TO ALL DIFFUSERS.

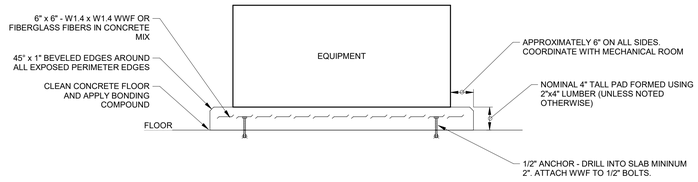


OPTION 2:

PROVIDE ONE PIECE, FULLY ADJUSTABLE BRACE; LIKE TITUS FLEXRIGHT OR THERMAFLEX FLEX FLOW ELBOW FOR CONNECTION TO ALL DIFFUSERS.

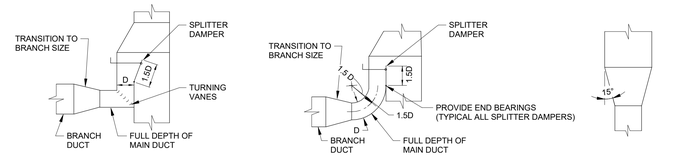
E CONNECTION TO DIFFUSER

SCALE: NONE



A TYPICAL HOUSE KEEPING PAD

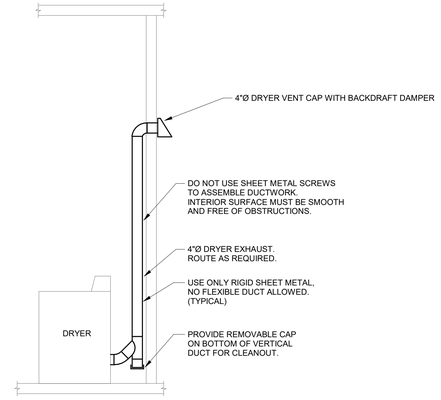
SCALE: NONE



NOTES:
1. DETAIL IS APPLICABLE TO SUPPLY AIR BRANCH DUCT TAKE-OFFS.
2. CONSTRUCT SPLITTER DAMPERS OF NOT LESS THAN 16 GAUGE SHEET METAL.

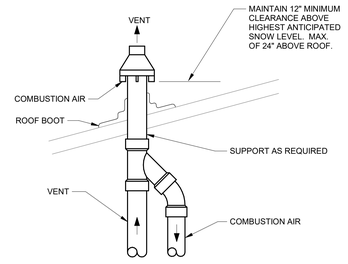
B BRANCH DUCT TAKE OFFS AND TRANSITIONS

SCALE: NONE



C DRYER EXHAUST DUCT INSTALLATION

SCALE: NONE



D CONCENTRIC VENT THRU ROOF

SCALE: NONE

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SHEET DESCRIPTION:

DETAILS - MECHANICAL

SHEET NUMBER:

M-401

PRINTED ON: 8/23/2024 12:20:58 PM

AIR-COOLED CONDENSING UNIT SCHEDULE

MARK NO	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO	AMBIENT TEMP	NOMINAL HEAT REJECTED (MBH)	NOMINAL SEER	REFRIGERANT	COMPRESSORS			FAN				ELECTRICAL DATA				WEIGHT (LBS)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE						QTY	TYPE	STAGES	QTY	CFM	HP EA	RPM EA	MCA	MOCP	VOLTS	PHASE		
ACCU-1		26 62 01	AIR COOLED CONDENSING UNITS	AIR COOLED CONDENSING UNIT	LENNOX EL16XC1-030	95	30	16	R-410A	1	SCROLL	1	1	3160	1/6	825	17	25	208	1	200	- - -
ACCU-2		26 62 01	AIR COOLED CONDENSING UNITS	AIR COOLED CONDENSING UNIT	LENNOX EL16XC1-024	95	24	16	R-410A	1	SCROLL	1	1	3160	1/6	825	14.6	25	208	1	200	- - -
ACCU-3		26 62 01	AIR COOLED CONDENSING UNITS	AIR COOLED CONDENSING UNIT	LENNOX EL16XC1-060	95	60	16	R-410A	1	SCROLL	1	1	4550	1/3	825	29.6	50	208	1	300	- - -
ACCU-4		26 62 01	AIR COOLED CONDENSING UNITS	AIR COOLED CONDENSING UNIT	LENNOX EL16XC1-060	95	60	16	R-410A	1	SCROLL	1	1	4550	1/3	825	29.6	50	208	1	300	- - -
ACCU-5		26 62 01	AIR COOLED CONDENSING UNITS	AIR COOLED CONDENSING UNIT	LENNOX EL16XC1-036	95	36	16	R-410A	1	SCROLL	1	1	3160	1/6	825	18	30	208	1	250	- - -
ACCU-6		26 62 01	AIR COOLED CONDENSING UNITS	AIR COOLED CONDENSING UNIT	LENNOX EL16XC1-060	95	60	16	R-410A	1	SCROLL	1	1	4550	1/3	825	29.6	50	208	1	300	- - -
ACCU-7		26 62 01	AIR COOLED CONDENSING UNITS	AIR COOLED CONDENSING UNIT	LENNOX EL16XC1-024	95	24	16	R-410A	1	SCROLL	1	1	3160	1/6	825	14.6	25	208	1	200	- - -
ACCU-A,B,C	REPLACE EXISTING	26 62 01	AIR COOLED CONDENSING UNITS	AIR COOLED CONDENSING UNIT	LENNOX SSB060H4	95	60	16	R-410A	1	SCROLL	2	1	4550	1/3	825	22.4	35	208	3	300	(3) EXISTING SYSTEMS, REPLACE OUTDOOR UNIT, REPLACE INDOOR COIL, REPLACE REFRIGERANT PIPING
ACCU-DXFC-1		26 62 01	AIR COOLED CONDENSING UNITS	AIR COOLED CONDENSING UNIT	SAMSUNG AC024BXSCCC	95	24	19	R-410A	1	SCROLL	1	1	1801	125 WATTS		20.1	25	208	1	130	PAIRED WITH DXFC-1, POWER TO OUTDOOR UNIT, INDOOR UNIT POWERED FROM OUTDOOR UNIT

DX/GAS-FIRED FURNACE SCHEDULE

MARK NO	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO	AIR VOLUME (CFM)		SUPPLY FAN			FILTER	COOLING								GAS HEATING					ELECTRIC				WEIGHT (LBS)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE		TOTAL	MIN. O.A.	ESP	HP	BHP		MBH		CONDITIONS				EER	SEER	STAGES	NO OF CIRCUITS	LOW (MBH)		HIGH (MBH)		STAGES	MCA	MOCP	VOLTS	PHASE		
												TOTAL	SENS	EAT DB	EAT WB	LAT DB	LAT WB					IN	OUT	IN	OUT						
FURN-1	NORTH EXTERIOR OFFICES			GAS FIRED FURNACE	LENNOX EL196UH045XE36	1000	300	0.5"	1/2		1" MERV 8								16					44	43		6.8	15	120	1	150	
FURN-2	INTERIOR OFFICES, DOCS, AND CORRIDOR			GAS FIRED FURNACE	LENNOX EL196UH045XE36	800	250	0.5"	1/2		1" MERV 8								16					44	43		6.8	15	120	1	150	
FURN-3	CLASSROOMS, SENSORY, MEDS			GAS FIRED FURNACE	LENNOX EL196UH110XE60	1995	650	0.5"	1		1" MERV 8								16					110	107		10.9	15	120	1	200	
FURN-4	CONCESSIONS, CONNECTOR, RESTROOMS			GAS FIRED FURNACE	LENNOX EL196UH110XE60	1950	600	0.5"	1		1" MERV 8								16					110	107		10.9	15	120	1	200	
FURN-5	CONFERENCE, RECEPTION, VESTIBULE			GAS FIRED FURNACE	LENNOX EL196UH045XE36	1200	350	0.5"	1/2		1" MERV 8								16					44	43		6.8	15	120	1	150	
FURN-6	REC ROOM			GAS FIRED FURNACE	LENNOX EL196UH110XE60	1980	600	0.5"	1		1" MERV 8								16					110	107		10.9	15	120	1	200	
FURN-7	COMPUTER AND CORRIDOR			GAS FIRED FURNACE	LENNOX EL196UH045XE36	800	250	0.5"	1/2		1" MERV 8								16					44	43		6.8	15	120	1	150	

AIR UNIT WITH ENERGY RECOVERY SCHEDULE

MARK NO	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO	AIR VOLUME (CFM)		WINTER EXHAUST AIR				WINTER MAKE UP AIR				SUMMER EXHAUST AIR				SUMMER MAKE UP AIR				EXHAUST AIR FAN MOTOR						MAKE UP AIR FAN MOTOR						ELECTRICAL				WEIGHT (LBS)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE		SUPPLY	EXHAUST	IN		OUT		IN		OUT		IN		OUT		IN		OUT		TSP	RPM	HP	BHP	ESP	CFM	TSP	RPM	HP	BHP	ESP	CFM	VOLTS	PHASE	MCA	MOCP		
								DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB																		
ERV-1				ENERGY RECOVERY VENTILATOR	GREENHECK ERVe-35-15H	3000	2700	70	54	11	10.9	-10	-11	42	36	74	61.6	90	72.4	95	76	80.6	67.3	1	1725	2	1.5	0.75	2700	1	1725	3	1.93	0.75	3000	208	3	65.9	70	1200	12.3KW ELECTRIC PREHEATER, 2" MERV 8 FILTERS IN EXHAUST AND OUTDOOR AIR STREAMS, ENERGY RECOVERY WHEEL POLYMER WITH SILICA GEL DESICCANT, DIRTY FILTER SENSORS, WHEEL ROTATION SENSOR, LOW LEAKAGE OUTDOOR AIR AND EXHAUST AIR DAMPERS 14" CURB

ELECTRIC CABINET UNIT HEATER SCHEDULE

MARK NO	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO	ELECTRIC DATA			LENGTH	WIDTH	HEIGHT	INSTALLED HEIGHT	STYLE	WEIGHT (LBS)	REMARKS
		SECTION	NAME	EQUIPMENT TYPE		KW	VOLTS	PHASE							
ECUH-A	VESTIBULE HEAT	23 82 39	UNIT HEATERS - ELECTRIC	CEILING CABINET UNIT HEATERS	QMARK CDF548	4	208	3	23 3/4"	23 3/4"	7"	9'-0"	CEILING RECESSED	140	INTEGRAL THERMOSTAT, DISCONNECT
EPUH-A	WATER ROOM HEAT	23 82 39	UNIT HEATERS - ELECTRIC	PROPELLER UNIT HEATERS	QMARK MUH0381	3	208	1	-	-	-	8-0"	VERTICAL	30	INTEGRAL THERMOSTAT, DISCONNECT

DX FAN COIL SCHEDULE

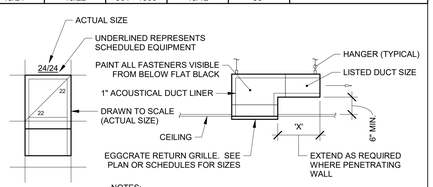
MARK NO	DRAWING NAME &/OR PURPOSE	SPECIFICATION			MANUFACTURER & MODEL NO	CAPACITY			AIRFLOW		ELECTRICAL DATA					REMARKS
		SECTION	NAME	EQUIPMENT TYPE		COOLING		HEATING	HI	LOW	MCA	MOCP	FLA	VOLTS	PHASE	
						THC	SHC									
DXFC-1	IT COOLING ONLY	23 81 34	MINI-SPLIT AIR CONDITIONING	INDOOR UNIT	SAMSUNG AC024BNADCH	24		0	630	465				208	1	PAIRED WITH ACCU-DXFC-1, POWER AND COMMUNICATION CABLE FROM OUTDOOR UNIT

EXHAUST/RETURN REGISTER SCHEDULE

MARK NO.	NOMINAL GRILLE SIZE	MAX N.C.	MAX ΔP	CFM RANGE	REMARKS
0 - 170	8/8	20	0.1"	0 - 170	
175 - 240	10/10	20	0.1"	175 - 240	-
245 - 400	12/12	20	0.1"	245 - 400	-
405 - 520	14/14	20	0.1"	405 - 520	
525 - 640	16/16	20	0.1"	525 - 640	-
645 - 830	18/18	20	0.1"	645 - 830	
835 - 1050	20/20	20	0.1"	835 - 1050	-
1055 - 1400	24/24	20	0.1"	1055 - 1400	-

PLENUM RETURN GRILLE SCHEDULE

MARK NO.	GRILLE SIZE	CFM RANGE	DUCTED ELBOW SIZE	'X' DIMEN.	REMARKS
24/6	22/6	0 - 240	22/6	12"	
24/12	22/12	241 - 500	22/8	18"	
24/24	22/22	501 - 900	22/12	24"	
48/24	46/22	901 - 1500	46/12	36"	

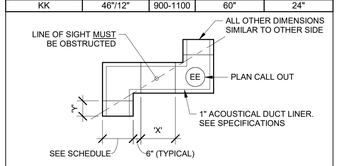


NOTES:

1. INSIDE OF DUCT TO BE BLACK.
2. DUCT SUPPORTED FROM STRUCTURE, NOT CEILING GRID.

TRANSFER DUCT SCHEDULE

PLAN CALL OUT	TRANSFER DUCT SIZE	CFM RANGE	'X' DIMENSION	'Y' DIMENSION
AA	10"/10"	0-200	12"	0"
BB	14"/12"	205-325	12"	0"
CC	16"/16"	330-500	18"	0"
DD	20"/20"	505-800	18"	6"
EE	24"/22"	805-1000	18"	12"
FF	26"/24"	1005-1250	24"	12"
GG	28"/26"	1255-1500	28"	12"
HH	30"/18"	805-1000	36"	14"
JJ	38"/14"	805-1000	48"	18"
KK	46"/12"	900-1100	60"	24"

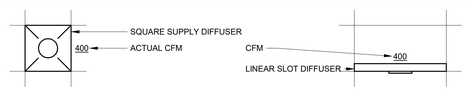


NOTES:

1. 'X' AND 'Y' DIMENSIONS SHOWN ARE MINIMUMS TO NULLIFY ANY "LINE OF SIGHT" THROUGH THE TRANSFER DUCT. ACTUAL FIELD DIMENSIONS MAY VARY BASED ON APPLICATION, WALL THICKNESS, ORIENTATION, ETC. FIELD VERIFY CONDITIONS PRIOR TO FABRICATION.
2. "TRANSFER DUCT SIZE" LISTED IN THE SCHEDULE ARE THE INTERNAL DIMENSIONS.

CEILING DIFFUSER SCHEDULE

MARK NO.	SPECIFICATION NAME	MANUFACTURER AND MODEL NO.	CFM RANGE	MAX. N.C.	NECK DIA.	FACE SIZE	CEILING MODULE SIZE
50 - 120	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	50 - 120	15	6"	24/24	24/24
125 - 245	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	125 - 245	19	8"	24/24	24/24
250 - 325	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	250 - 325	19	10"	24/24	24/24
330 - 475	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	330 - 475	19	12"	24/24	24/24
480 - 645	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	480 - 645	18	14"	24/24	24/24
650 - 735	SQUARE CEILING DIFFUSER	PRICE SCDA OR EQUAL	650 - 735	18	15"	24/24	24/24
130 - 190	LINEAR SLOT DIFFUSER	PRICE SDS SERIES OR EQUAL	130 - 190	18	8" OVAL	(2) 3/4" SLOTS 48" LONG	N/A
191 - 230	LINEAR SLOT DIFFUSER	PRICE SDS SERIES OR EQUAL	191 - 230	19	8" OVAL	(2) 1" SLOTS 48" LONG	N/A
231 - 270	LINEAR SLOT DIFFUSER	PRICE SDS SERIES OR EQUAL	231 - 270	18	10" OVAL	(3) 3/4" SLOTS 48" LONG	N/A
271 - 340	LINEAR SLOT DIFFUSER	PRICE SDS SERIES OR EQUAL	271 - 340	20	10" OVAL	(3) 1" SLOTS 48 LONG	N/A
341 - 400	LINEAR SLOT DIFFUSER	PRICE SDS SERIES OR EQUAL	341 - 400	21	12" OVAL	(4) 3/4" SLOTS 48" LONG	N/A
401 - 520	LINEAR SLOT DIFFUSER	PRICE SDS SERIES OR EQUAL	401 - 520	22	12" OVAL	(4) 1" SLOTS 48" LONG	N/A



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M-601

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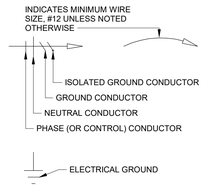
ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT; ARMORED CABLE
ADJ	ADJUSTABLE
AF	AMPERE FUSE; AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALCR	AUTOMATIC LOAD CONTROL RELAY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASYM	ASYMMETRICAL
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AVG	AVERAGE
AWG	AMERICAN WIRE GUAGE
BATT	BATTERY
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT; CENTRIGRADE
C/C	CENTER TO CENTER
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CD	CANDELA
CF	CUBIC FEET
CFL	COMPACT FLUORESCENT
CIRC	CIRCUIT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
COND	CONDUCTOR
CONT	CONTINUOUS; CONTINUED
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER; CUBIC
CU FT	CUBIC FOOT
CY	CUBIC YARD
CYL	CYLINDER
D	DEEP; DEPTH
DB	DECIBEL; DIRECT BURIED
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DF	DUAL FACE
DIA	DIAMETER
DIAG	DIAGONAL
DISC	DISCONNECT
DISTR	DISTRIBUTION
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DWG	DRAWING
DX	DIRECT EXPANSION
E	EAST; EXISTING
EA	EACH
EBBR	ELECTRIC BASEBOARD RADIATION
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
ELEV	ELEVATOR; ELEVATION
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENG	ENGINE
EQUIP	EQUIPMENT
EST	ESTIMATED
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXP	EXPOSED
EXT	EXTERIOR
F	FUSED; FAHRENHEIT
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT-CANDLE
FD	FUSED DISCONNECT
FDR	FEEDER
FIN	FINISHED
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FM	FREQUENCY MODULATION; FACTORY MUTUAL
FT	FOOT; FEET
FURN	FURNISHED
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUND
GA	GUAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
GRS, GRC	GALVANIZED RIGID STEEL CONDUIT
H	HIGH
HD	HEAVY DUTY; HIGH DEFINITION
HG	MERCURY
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HRS/DAY	HOURS PER DAY
HT	HEIGHT
HV	HIGH VOLTAGE
HZ	HERTZ
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IMP	IMPEDANCE
IN	INCH
INCAN	INCANDESCENT
INSUL	INSULATION; INSULATED
INT	INTERIOR; INTERNAL
INV EL	INVERTED ELEVATION
J	JOULE; JUNCTION
JB	JUNCTION BOX
K	THOUSAND
KCMIL	THOUSAND CIRCULAR MILS
KHZ	KILOHERTZ
KK	KIIRK KEY
KP	KEYPAD
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	LENGTH; LONG; LUMEN
LB	POUND; ELL CONDUIT BODY
LED	LIGHT EMITTING DIODE
LF	LINEAR FOOT
LLD	LAMP LUMEN DEPRECIATION
LO	LOCK OUT
LRA	LOCKED ROTOR AMPS
LT	LIGHT; LIQUID-TIGHT
LTG	LIGHTING
LV	POWER LIMITED LOW VOLTAGE
M	METER
MA	MILLIAMPERE
MAG STR	MAGNETIC STARTER
MAN	MANUAL
MAT	MATERIAL
MATV	MASTER ANTENNA TELEVISION
MAX	MAXIMUM
MC	METAL CLAD CABLE; MOTOR CONTROLLER
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MCS	MOTOR CIRCUIT SWITCH
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANELBOARD
MED	MEDIUM
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE; METAL HALIDE; MAN-HOUR
MHZ	MEGAHERTZ
MI	MINERAL INSULATED
MIC	MICROPHONE
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOG	MOGUL
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEGAVOLT; MEDIUM VOLTAGE
MVA	MEGAVOLT AMPERES
MVAR	MEGAVOLT AMPERES REACTIVE
MW	MEGAWATT
N	NEUTRAL
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCATION
NF	NON-FUSED
NFS	NON-FUSED DISCONNECT
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NON-METALLIC SHEATHED CABLE
NO	NUMBER; NORMALLY OPEN
NTS	NOT TO SCALE
O&P	OVERHEAD AND PROFIT
OC	ON CENTER; OVERCURRENT
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OL	OVERLOAD
OS&Y	OUTSIDE SCREW AND YOKE
OZ	OUNCE
P	POLE; PULL
PA	PUBLIC ADDRESS
PB	PUSH BUTTON; PULL BOX
PC	PHOTOCELL
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATOR VALVE
PL	PILOT LIGHT
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GUAGE
PT	POTENTIAL TRANSFORMER
PU	PER UNIT
PVC	POLYVINYL CHLORIDE
PWR	POWER
QUAN; QTY	QUANTITY
R	RESISTANCE; RELOCATED
RECEPT	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RM	ROOM
RMC	RIGID METALLIC CONDUIT
RMS	ROOT MEAN SQUARE
RNC	RIGID NON-METALLIC CONDUIT
RT	RAINTIGHT
SCCR	SHORT-CIRCUIT CURRENT-RATING
SCHED	SCHEDULE
SCR	SHORT CIRCUIT RATING
SE	SERVICE ENTRACE; SERVICE EQUIPMENT
SEC	SECONDARY
SN	SOLID NEUTRAL
SP	SINGLE POLE
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPKR	SPEAKER
SPST	SINGLE POLE, SINGLE THROW
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCH
SS	STAINLESS STEEL; SAFETY SWITCH
S/S	START STOP
ST	SHUNT TRIP;
STD	STANDARD
SURF	SURFACE
SW	SWITCH
SWD	SWITCHING DUTY
SWBD	SWITCHBOARD
SQ YD	SQUARE YARD
SYM	SYMMETRICAL
T	TEMPERATURE; TRANFORMER
TB	TERMINAL BLOCK
TC	TIME CLOCK
TCC	TEMPERATURE CONTROLS CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TD	TIME DELAY
TELE	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
THD	TOTAL HARMONIC DISTORTION; THREAD
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TR	TAMPER RESISTANT
TTB	TELEPHONE TERMAINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UC	UNDER (CABINET OR COUNTER)
UF	UNDERGROUND FEEDER
UG	UNDERGROUND
UHF	ULTRA HIGH FREQUENCY
UL	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT AMPERES
VAR	VOLT AMPERES REACTIVE
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VHF	VERY HIGH FREQUENCY
VOL	VOLUME
W	WIRE; WATT; WIDE
W/	WITH
WAP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WM	"WIREMOLD" (SURFACE RACEWAY)
WP	WEATHERPROOF
WT	WEIGHT; WATERTIGHT
XFMR	TRANSFORMER
XFER	TRANSFER
Y	WYE
°	DEGREE
Δ	DELTA
Ø	PHASE; DIAMETER
#	POUND; NUMBER
%	PERCENT
@	AT
~	APPROXIMATELY
'	FEET
"	INCHES

NOT ALL SYMBOLS ON THIS SHEET ARE USED IN THESE DOCUMENTS.

TYPICAL WIRING DESIGNATIONS



ROOM CIRCUIT DESIGNATIONS

* INDIVIDUAL CIRCUITS NUMBERS ARE LOCATED AT EACH DEVICE

ROOM CIRCUIT DESIGNATION SHOWN ABOVE APPLY TO EVERY DEVICE IN THE ROOM UNLESS NOTED OTHERWISE

ROOM CIRCUIT DESIGNATIONS WITH RELAY NUMBER

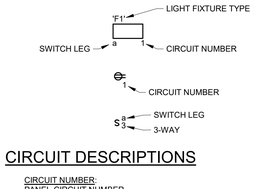
RACEWAYS

- CONDUIT, IN WALL OR CEILING
- CONDUIT, BELOW FLOOR
- CONDUIT, EXPOSED
- W — SURFACE RACEWAY ("WIREMOLD")
- CONDUIT, TURNING UP
- CONDUIT, TURNING DOWN
- 3 — CONDUIT, CAPPED
- UNDERFLOOR DUCT & JUNCTION BOX, SINGLE SYSTEM
- UNDERFLOOR DUCT & JUNCTION BOX, DUAL SYSTEM
- UNDERFLOOR DUCT & JUNCTION BOX, TRIPLE SYSTEM
- J — JUNCTION BOX
- P — PULL BOX

MISCELLANEOUS

- CLOCK (WALL)
- CLOCK (CEILING)
- BELL
- BUZZER
- THERMOSTAT
- ELECTRICAL GROUND

TYPICAL DEVICE DESIGNATIONS



CIRCUIT DESCRIPTIONS

CIRCUIT NUMBER:
PANEL-CIRCUIT NUMBER
(I.E. A1-1)

MULTIPLE INDIVIDUAL CIRCUIT NUMBERS:
PANEL-CIRCUIT NUMBER,CIRCUIT NUMBER,CIRCUIT NUMBER
(I.E. A1-1, A1-3)

2-POLE CIRCUIT NUMBER:
PANEL-CIRCUIT NUMBER/CIRCUIT NUMBER
(I.E. A1-1,3)

3-POLE CIRCUIT NUMBER:
PANEL-CIRCUIT NUMBER/CIRCUIT NUMBER/CIRCUIT NUMBER
(I.E. A1-1,3,5)

PANELS

- PANEL, FLUSH
- PANEL, SURFACE
- CONTROL PANEL (AS NOTED), FLUSH
- CONTROL PANEL (AS NOTED), SURFACE

POWER EQUIPMENT

- 1-PHASE MOTOR
- 3-PHASE MOTOR
- S_F — FUSIBLE BOX COVER SWITCH
- ENCLOSED SWITCH, NON-FUSIBLE
- F — ENCLOSED SWITCH, FUSIBLE
- CB — ENCLOSED CIRCUIT BREAKER
- MANUAL MOTOR STARTER
- P — MANUAL MOTOR STARTER WITH PILOT LIGHT
- MAGNETIC MOTOR STARTER
- COMBINATION DISCONNECT & MAGNETIC MOTOR STARTER
- T — SMALL TRANSFORMER
- VFD — VARIABLE FREQUENCY DRIVE
- PUSHBUTTON
- UP/DOWN PUSHBUTTON
- UP/DOWN/STOP PUSHBUTTON

RECEPTACLES AND OUTLETS

- DUPLEX RECEPTACLE
- HORIZONTAL DUPLEX RECEPTACLE
- DOUBLE DUPLEX (QUAD) RECEPTACLE
- DUPLEX RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
- DOUBLE DUPLEX (QUAD) RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
- GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE
- HORIZONTAL GFCI DUPLEX RECEPTACLE
- DOUBLE DUPLEX (QUAD) GFCI RECEPTACLE
- GFCI DUPLEX RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
- DOUBLE DUPLEX (QUAD) GFCI RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
- $GFCI_{WP}$ — GFCI/ WEATHERPROOF DUPLEX RECEPTACLE
- SINGLE RECEPTACLE
- FLUSH FLOOR OUTLET, ONE DUPLEX RECEPTACLE UNLESS NOTED OTHERWISE
- $_{PT}$ — FIRE-RATED POKE-THRU, DUAL-SERVICE WITH ONE QUADRAPLEX RECEPTACLE & FOUR DATA JACKS UNLESS NOTED OTHERWISE
- $_{PED}$ — PEDESTAL-TYPE FLOOR OUTLET, ONE DUPLEX RECEPTACLE UNLESS NOTED OTHERWISE
- CEILING DROP CORD. 3#12 TYPE SO CORD WITH 2 DUPLEX RECEPTACLES AND KELLUMS GRIPS UNLESS NOTED OTHERWISE
- SPECIAL OUTLET OR EQUIPMENT CONNECTION (AS NOTED)
- RECESSED FLOOR BOX. DUAL-SERVICE WITH 4-GANGS AND TWO DUPLEX RECEPTACLES UNLESS NOTED OTHERWISE
- MULTIOUTLET ASSEMBLY, LENGTH INDICATED, 16" AFF UNLESS NOTED OTHERWISE
- INDICATES VERTICAL RUN
- LAB TOP PEDESTAL OUTLET, GFCI-TYPE DUPLEX RECEPTACLE
- LAB TOP PEDESTAL OUTLET, GFCI-TYPE QUADRIPLEX RECEPTACLE
- LAB TOP PEDESTAL OUTLET,TWO GFCI-TYPE DUPLEX RECEPTACLES
- LAB TOP PEDESTAL OUTLET, TWO GFCI-TYPE QUADRIPLEX RECEPTACLES

LIGHT FIXTURES

- LIGHT, CEILING
- LIGHT, CEILING
- LIGHT, WALL
- EXIT SIGN, CEILING
- EXIT SIGN, WALL
- EXIT SIGN WITH DIRECTIONAL ARROW, CEILING
- EXIT SIGN WITH DIRECTIONAL ARROW, WALL
- EMERGENCY LIGHTING UNIT
- TRACK LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- LIGHT FIXTURE DIRECTIONAL AIMING INDICATOR
- NL — NIGHT LIGHT

SWITCHES

- S — SWITCH, SINGLE POLE
- S_2 — SWITCH, DOUBLE POLE
- S_3 — SWITCH, THREE WAY
- S_4 — SWITCH, FOUR WAY
- S_K — SWITCH, KEY OPERATED
- S_P — SWITCH, WITH PILOT LIGHT
- S_{WP} — SWITCH, WEATHERPROOF
- S_X — SWITCH, EXPLOSIONPROOF
- S_D — SWITCH, DIMMER
- S_{TS} — SWITCH, SPRING WOUND, INTERVAL TIME SWITCH
- S_{DT} — SWITCH, DIGITAL INTERVAL TIME SWITCH
- S_{LV} — SWITCH, POWER LIMITED LOW VOLTAGE PUSH BUTTON
- LV — POWER LIMITED LOW VOLTAGE TOUCHSCREEN LIGHTING CONTROL
- MT — MULTI-TECHNOLOGY CEILING OCCUPANCY SENSOR
- US — ULTRASONIC CEILING OCCUPANCY SENSOR
- PI — PASSIVE INFRARED CEILING OCCUPANCY SENSOR
- S1 — SINGLE POLE WALL OCCUPANCY SENSOR
- S2 — TWO POLE WALL OCCUPANCY SENSOR
- SD — COMBINATION WALL OCCUPANCY SENSOR AND DIMMER
- DL — DAYLIGHT SENSOR
- TC — TIMECLOCK
- PC — PHOTOCELL
- PP — POWER PACK
- C — LIGHTING CONTACTOR
- LCP — LIGHTING CONTROL PANEL
- LRP — LIGHTING RELAY PANEL
- ALCR — AUTOMATIC LOAD CONTROL RELAY (LIGHTING)

FIRE ALARM SYSTEMS

- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR
- M — MANUAL PULL STATION
- F — FIRE ALARM WALL HORN-STROBE
- FIRE ALARM WALL STROBE
- FIRE ALARM CEILING STROBE
- FIRE ALARM CEILING HORN-STROBE
- FIRE ALARM CEILING SPEAKER
- FIRE ALARM BELL
- EM — ELECTRO-MAGNETIC DOOR HOLDER
- FIRE ALARM ADDRESSIBLE INTERFACE DEVICE.
- P — PHOTOELECTRIC SMOKE DETECTOR
- D — DUCT TYPE SMOKE DETECTOR
- H — HEAT DETECTOR
- FS — SPRINKLER FLOW SWITCH
- TS — SPRINKLER TAMPERSWITCH

GENERAL NOTES:

1. COORDINATE LOCATIONS OF DEVICES TO BE INSTALLED IN CEILINGS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.
2. 120 VOLT CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRALS.
3. CONTRACTOR SHALL COORDINATE WITH ALL TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGEMENT UPON OTHERS' WORK, DUE TO A LACK OF COORDINATION.
4. DEVICES IN GENERAL SHALL BE CENTERED IN WALL SPACE IN WHICH THEY ARE INSTALLED OR THEY SHALL BE SPACED SYMMETRICALLY (FOR EXAMPLE, CENTER DEVICES WHEN MOUNTED ON FACE OF COLUMNS).
5. COORDINATE AND VERIFY LOCATIONS OF DEVICES WITH BLOCK COURSING, FINISH MATERIALS, CASEWORK, ETC. PRIOR TO ROUGH-IN.
6. WIRING TO RECEPTACLES ON DEDICATED CIRCUITS SHALL BE A MINIMUM #10 AWG UNLESS OTHERWISE NOTED.
7. WIRING SHALL BE MINIMUM #12 AWG IN 3/4" EMT CONDUIT UNLESS OTHERWISE NOTED OR SPECIFIED.
8. COORDINATE LOCATION OF RECEPTACLES AT ELECTRIC WATER COOLERS (EWC) WITH EWC MANUFACTURER. PROVIDE DUPLEX RECEPTACLE SO THAT IT IS CONCEALED BY EWC HOUSING.
9. PLENUM-RATED CABLING (FIRE ALARM, LIGHTING CONTROL, ETC.) SHALL BE CONCEALED ABOVE ACCESSIBLE CEILINGS. FOR CABLES BEING ROUTED THROUGH AREAS WITH EXPOSED STRUCTURE OR INACCESSIBLE CEILINGS, INSTALL CABLES IN MINIMUM 1-INCH CONDUITS.
10. DEVICE BOXES SHALL BE FLUSH MOUNTED AND RACEWAYS SHALL BE CONCEALED.
11. PROVIDE 120V POWER CONNECTION TO MOTORIZED DAMPERS AT EXHAUST FANS.
12. PROVIDE FLUSH BACK BOXES AND CONCEALED RACEWAYS FOR THERMOSTATS. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
13. A MAXIMUM OF THREE SINGLE-PHASE CIRCUITS SHALL BE INSTALLED IN A SINGLE CONDUIT.
14. LOCATION OF LIGHT FIXTURES IN MECHANICAL AND EQUIPMENT ROOMS SHALL BE COORDINATED IN FIELD AND LOCATED TO PROVIED THE BEST ILLUMINATION OF THE SPACE AND EQUIPMENT. COORDINATE WITH ENGINER.
15. COORDINATE EXACT LOCATION OF FLOOR OUTLETS AND OUTLETS AT TV LOCATIONS AND SIMILAR LOCATIONS PRIOR TO ROUGH-IN. OUTLETS AT TV LOCATIONS SHALL BE INSTALLED IN A RECESSED WALL BOX. SEE T-SERIES DRAWINGS.
16. COORDINATE WORK WITH TELECOMMUNICATIONS DRAWINGS AND SPECIFICATIONS. SEE T-SERIES DRAWINGS FOR PATHWAYS AND ELECTRICAL WORK.
17. PROVIDE FIRESTOPPING AT PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
18. CONTRACTOR SHALL COORDINATE OCCUPANCY SENSOR LOCATIONS AND ARRANGE FOR BEST OPERATION. PROVIDE HIGH-BAY OCCUPANCY SENSORS WHEN MOUNTED ABOVE 10'-0" AFF.
19. DEVICES ON WALLS SHALL BE INDIVIDUALLY FED FROM ABOVE (I.E. DO NOT INSTALL RACEWAYS HORIZONTALLY IN WALL UNLESS APPROVED).
20. INSTALL ABOVE-CEILING RACEWAYS AT LEAST 7-INCHES ABOVE CEILING TO ALLOW FOR REMOVAL OF CEILING TILES AND LIGHTS.
21. DO NOT INSTALL RACEWAYS IN FLOOR SLABS. INSTALL RACEWAYS BELOW SLAB ON GRADE AT LEAST 6-INCHES BELOW BOTTOM OF SLAB. FEEDER CONDUITS SHALL BE AT LEAST 24-INCHES BELOW BOTTOM OF SLAB.

TYPICAL MOUNTING HEIGHTS

DEVICE TYPE	HEIGHT
RECEPTACLE OUTLETS (GENERAL), TELEPHONE & DATA OUTLETS	16"
RECEPTACLE OUTLETS ABOVE 30" HIGH COUNTERTOPS, TELEPHONE AND DATA OUTLETS ABOVE 30" COUNTERTOPS	36"
RECEPTACLE OUTLETS ABOVE 36" HIGH COUNTERTOPS, TELEPHONE AND DATA OUTLETS ABOVE 36" COUNTERTOPS	42"
ELEVATOR AND HOISTWAY CONTROL BUTTONS	42" TO CENTER OF DEVICE BOX
CARD READERS, FIRE ALARM STATIONS, PUSH BUTTONS, THERMOSTATS, TOGGLE SWITCHES, WALL INTERCOM STATIONS, WALL TELEPHONE OUTLETS	48" TO TOP OF DEVICE BOX
SPECIAL PURPOSE OUTLETS	WITHIN 72" OF INTENDED USE.
FIRE ALARMS (GONGS, BELLS, HORNS, LIGHTS)	80", OR 6" BELOW CEILING, WHICHEVER IS LOWEST.
WALL LIGHTING OUTLETS	84" TO CENTER OF DEVICE BOX
CLOCKS	97" TO CENTER OF CLOCK, BUT AT LEAST 6" BETWEEN TOP OF CLOCK AND CEILING. ABOVE DOORS CENTER CLOCK BETWEEN TOP OF DOOR FRAME AND CEILING
BELLS, BUZZERS, CHIMES	96" TO CENTER OF DEVICE BOX,BUT AT LEAST 6" BELOW CEILING

NOTES:
1. MOUNTING HEIGHTS ARE TO BOTTOM OF DEVICE BOX UNLESS NOTED OTHERWISE.
2. COMPLY WITH ACCESSIBILITY CODE.

BRANCH CIRCUIT WIRING CHART

FEEDER CONDUCTOR SIZES SHOWN ON THESE BID DOCUMENTS HAVE BEEN SELECTED TO MAINTAIN LESS THAN 2% VOLTAGE DROP AT POTENTIAL FULL LOAD CONDITION (80% OF CIRCUIT SIZE) PER ANTICIPATED ROUTING AND CONDUCTOR LENGTH. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED TO MAINTAIN LESS THAN 3% VOLTAGE DROP FROM PANELBOARD TO LOAD BASED UPON 60% OF CIRCUIT SIZE LOAD CONDITIONS. THE FOLLOWING CHART REPRESENTS WIRE SIZES FOR A 20 AMP CIRCUIT BASED UPON CIRCUIT LENGTH IN ORDER TO MAINTAIN LESS THAN 3% VOLTAGE DROP FOR A 12 AMP LOAD. CONTRACTOR SHALL USE THIS CHART FOR BIDDING AND INSTALLATION GUIDELINES. FOR KNOWN CIRCUITS WITH LARGER LOAD CONDITIONS, CONTRACTOR SHALL ADJUST ACCORDINGLY. GROUND CONDUCTOR SIZES SHALL BE INCREASED SAME AS CIRCUIT CONDUCTORS, PER NEC. ADJUST RACEWAY SIZES ACCORDINGLY.

	BRANCH CIRCUIT CONDUCTOR LENGTH FOR 20 AMP CIRCUIT TO MAINTAIN LESS THAN 3% VOLTAGE DROP AT 12 AMP LOAD. ADJUST AS KNOWN CONDITIONS REQUIRE.					
WIRE SIZE	120V-1P	208V-1P	208V-3P	277V-1P	480V-3P	CONDUCTOR LENGTHS INDICATED ARE TO THE FIRST DEVICE (BUT MAINTAIN MAXIMUM 5% VOLTAGE DROP TO THE LAST DEVICE FOR KNOWN LOADS).
#12	0'-80'	0'-140'	0'-160'	0'-185'	0'-375'	
#10	81'-135'	141'-230'	161'-270'	186'-310'	376'-620'	
#8	136'-200'	231'-350'	271'-410'	311'-470'	621'-940'	
#6	201'-315'	351'-550'	411'-635'	471'-735'	941'-1475'	

D&A #24020

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Happiness Bag, Inc.
Center for Adaptive Recreation and Education

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

DRAWN BY: MGE	DESIGNED BY: GSR
SCALE: REFER TO DRAWING	CHECKED BY: DEW
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:
SYMBOLS, ABBREVIATIONS, & GENERAL NOTES - ELECTRICAL

SHEET NUMBER:
E-001

PRINTED ON: 8/23/2024 12:21:55 PM

DEMOLITION LEGEND:

WORK TO BE REMOVED

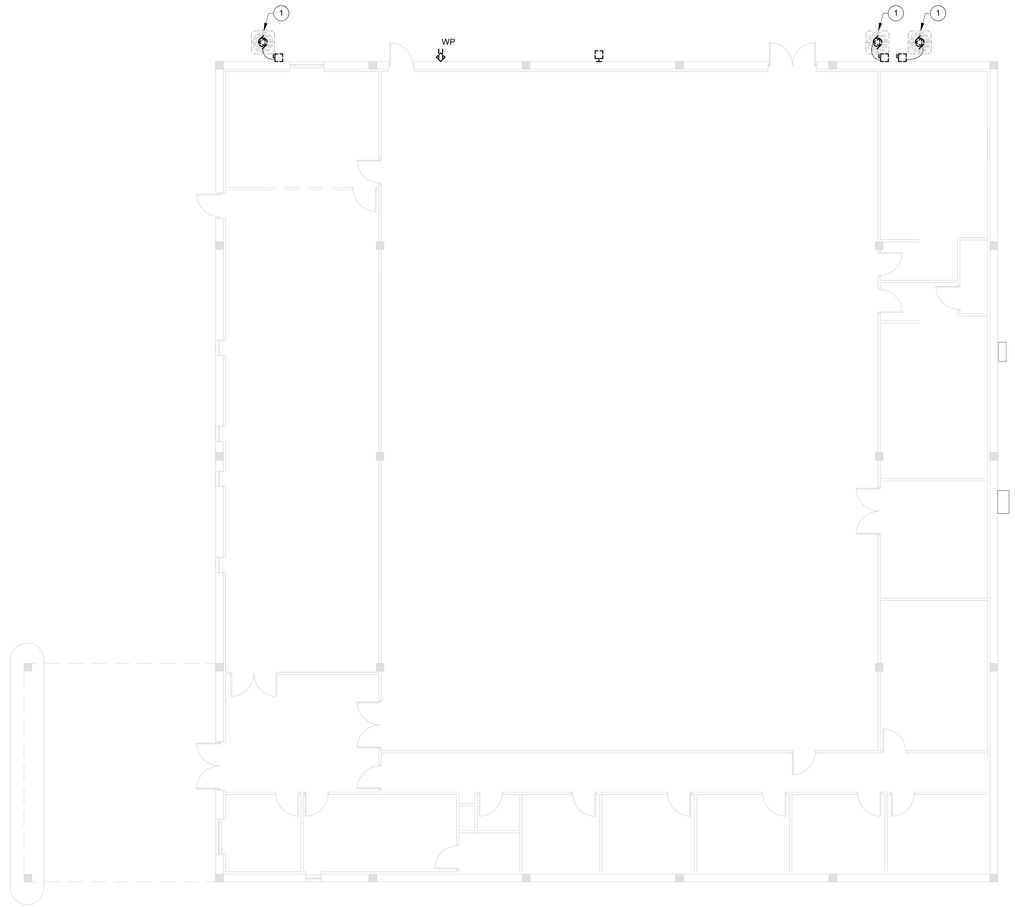
WORK TO REMAIN

GENERAL NOTES:

1. SEE E-001 FOR GENERAL NOTES.
2. REMOVAL OF ANY EXISTING EQUIPMENT AND RECEPTACLES MUST BE DONE BEFORE NEW CONSTRUCTION.

(#) PLAN NOTES:

1. REMOVE MECHANICAL EQUIPMENT, ALL ASSOCIATED WIRING AND DISCONNECT.



FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

D&A #24020

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DATE: 08/06/2024	JOB NO.: 24020

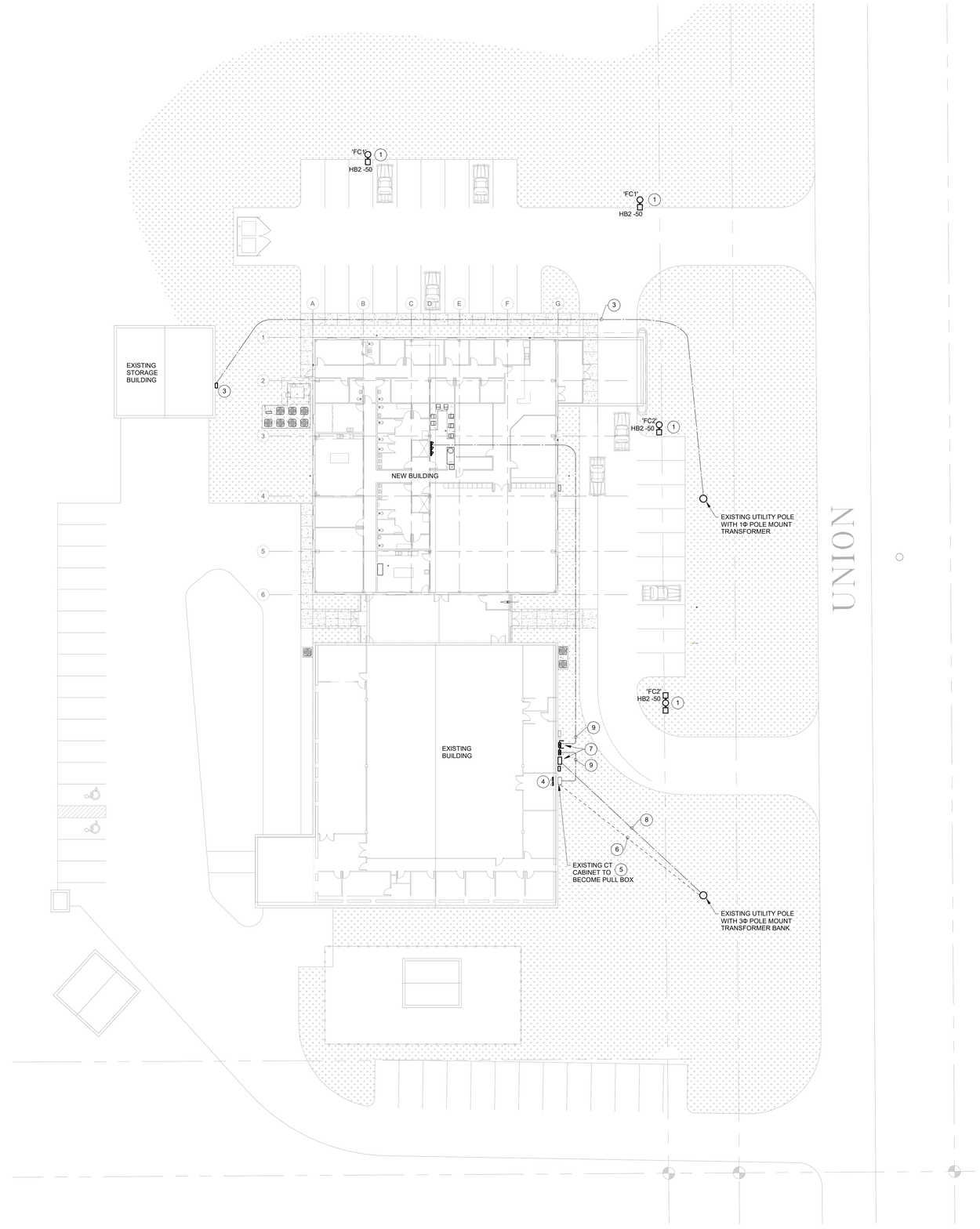
SHEET DESCRIPTION:

FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

SHEET NUMBER:

ED-201

PRINTED ON: 8/23/2024 12:22:32 PM



SITE PLAN - ELECTRICAL

SCALE: 1" = 20'-0"

NORTH

0 5 10 20 40 60 80

1 2 3 4

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E-001 FOR GENERAL NOTES.
2. SEE E-501 FOR RISER DIAGRAM.
3. COORDINATE ALL ELECTRICAL SERVICE WORK WITH DUKE ENERGY.

(#) PLAN NOTES:

1. 2#6, 1#8 GND IN 1" UNDERGROUND PVC CONDUIT. WIRE THROUGH LIGHTING CONTACTOR.
2. EXISTING UNDERGROUND SERVICE TO STORAGE BUILDING WILL BE IMPACTED BY NEW BUILDING. CONTRACTOR TO PROVIDE A NEW 4" UNDERGROUND PVC CONDUIT AND DUKE ENERGY SHALL REPLACE CONDUCTORS. COORDINATE ROUTING AND CONNECTIONS WITH DUKE ENERGY.
3. EXISTING ELECTRICAL METER TO REMAIN, BUT TO BE REFED.
4. EXISTING PANELS TO REMAIN. REMOVE N/G BOND AND SERVICE DISCONNECT LABELS. (WILL NO LONGER BE SERVICE DISCONNECT)
5. EXISTING ELECTRICAL SERVICE TO BE REMOVED AND EXISTING PANELS REFED. DUKE ENERGY TO REMOVE EXISTING METER. CONTRACTOR TO REMOVE METER BASE AND WIRING. DUKE ENERGY TO ABANDON CT CABINET AND IT SHALL BE USED AS A JUNCTION BOX TO REFEED EXISTING PANEL.
6. EXISTING UNDERGROUND SERVICE LATERAL TO BE DELETED. CONTRACTOR TO REMOVE WIRING AND VISIBLE PORTION OF CONDUIT AT POLE. UNDERGROUND CONDUIT TO BE ABANDONED IN PLACE.
7. NEW ELECTRICAL SERVICE EQUIPMENT.
8. NEW UNDERGROUND SERVICE LATERAL.
9. NEW UNDERGROUND FEEDERS.

D&A #24020

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Happiness Bag. Inc.
Center for Adaptive Recreation and Education

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER

08/23/2024

REVISIONS:

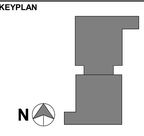
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY:	DESIGNED BY:
MGE	GSR
SCALE: REFER TO DRAWING	**CHECKED BY:** DEW
DATE: 08/06/2024	**JOB NO.:** 24020

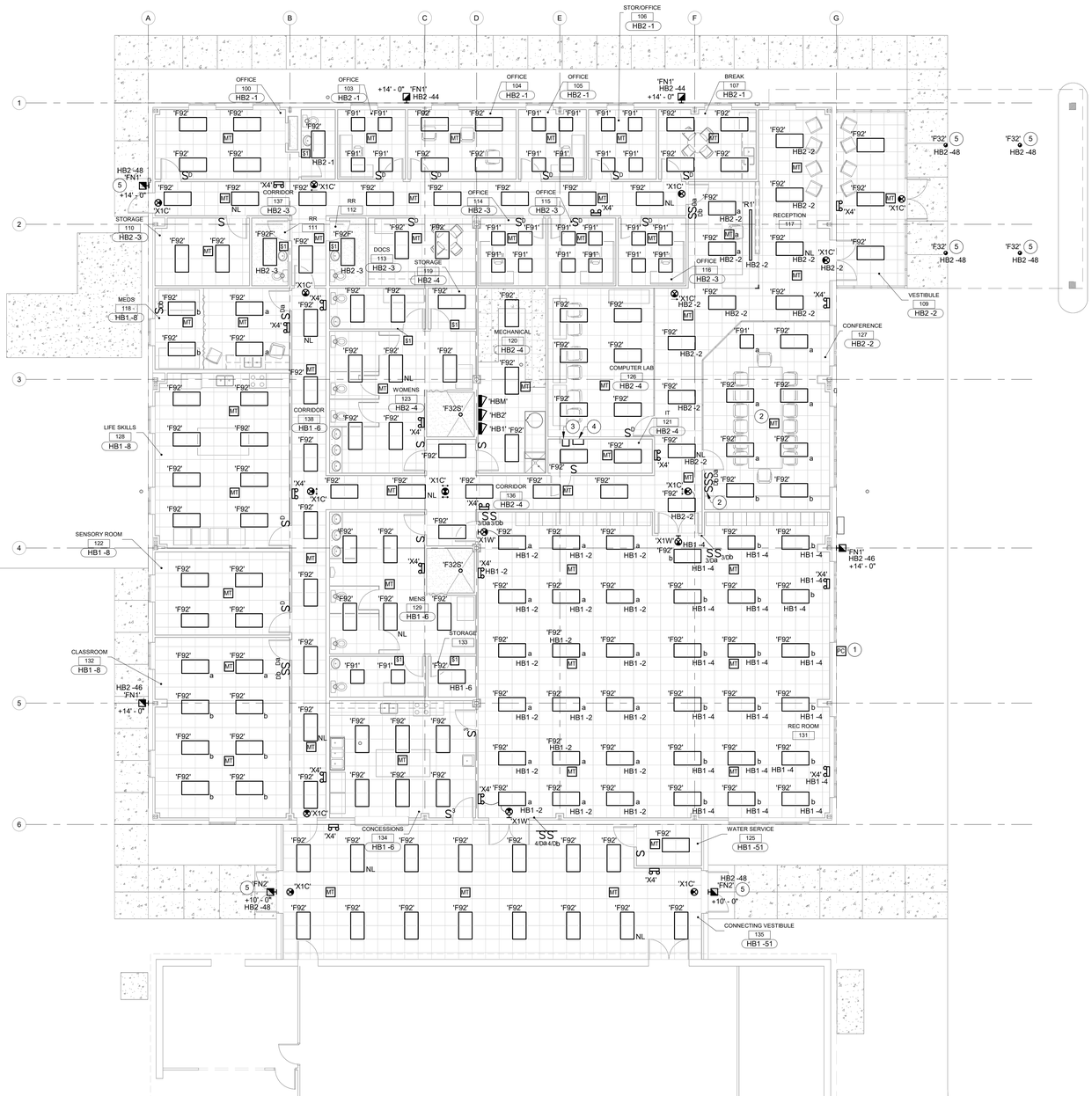
SHEET DESCRIPTION:

SITE PLAN - ELECTRICAL

SHEET NUMBER:

E-100

PRINTED ON: 8/23/2024 12:21:59 PM



FIRST FLOOR PLAN - LIGHTING

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E-001 FOR GENERAL NOTES.
2. ALL FIXTURE TYPE 'X4' TO BE MOUNTED +7'-6" AFF.

(#) PLAN NOTES:

1. PROVIDE PHOTOCELL SENSOR FOR EXTERIOR LIGHTING CONTROL. MOUNT 10'-0" AFF.
2. PROVIDE JUNCTION BOX AT THIS LOCATION ABOVE CEILING WITH WIRING FOR FUTURE PENDANT. PROVIDE BOX, WIRING AND BLANK FACE PLATE FOR LIGHTING CONTROLS FOR FUTURE PENDANT.
3. EXTERIOR LIGHTING CONTACTOR TO BE CONTROLLED THROUGH PHOTOCELL SENSOR. CONTACTS NORMALLY OPEN AND CLOSE WHEN NO DAYLIGHT DETECTED BY PHOTOCELL. PROVIDE HOA SWITCH IN COVER. REFER TO E-401 FOR DETAILS.
4. PROVIDE MYERS ILLUMINATOR LV 350W INVERTER OR EQUIVALENT FOR EXTERIOR EMERGENCY LIGHTING WITH FIELD SELECTABLE VOLTAGE AND WHITE ENCLOSURE.
5. WIRE LIGHT FIXTURE THROUGH INVERTER LOCATED IN IT 121.

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REVISIONS:

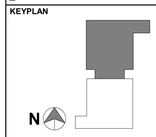
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY: MGE	DESIGNED BY: GSR
SCALE: REFER TO DRAWING	CHECKED BY: DEW
DATE: 08/06/2024	JOB NO.: 24020

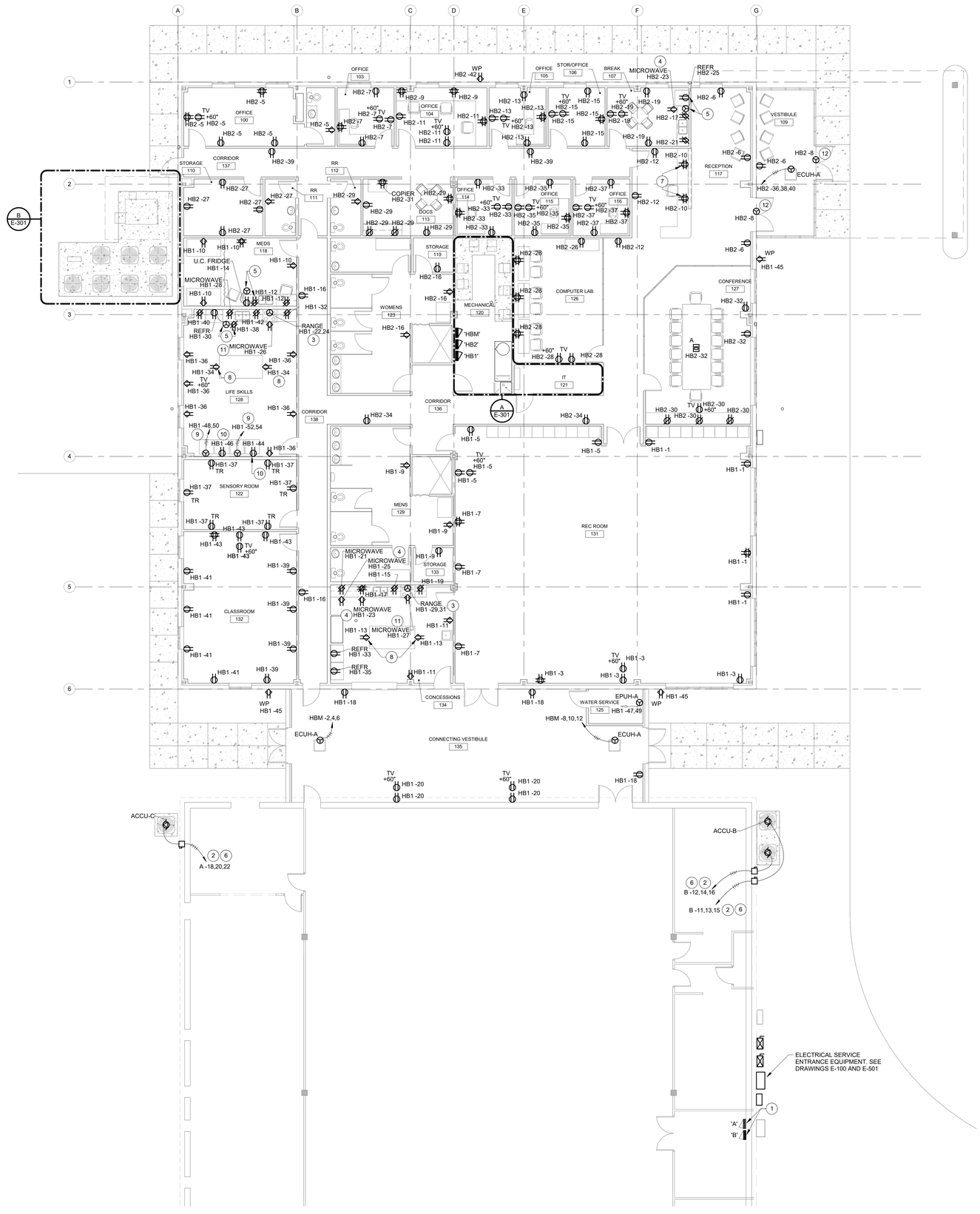
SHEET DESCRIPTION:

FIRST FLOOR PLAN - LIGHTING

SHEET NUMBER:

E-201

PRINTED ON: 8/23/2024 12:22:06 PM



FIRST FLOOR PLAN - POWER

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E-001 FOR GENERAL NOTES.
2. REMOVAL OF ANY EXISTING EQUIPMENT AND RECEPTACLES MUST BE DONE BEFORE NEW CONSTRUCTION.

(#) PLAN NOTES:

1. EXISTING SQUARE D PANELBOARD, TYPE 1 ENCLOSURE AND CATALOG NO. QOC342MS. VERIFY IN FIELD.
2. CONNECT TO EXISTING PANELBOARD IN EXISTING BUILDING. CONNECT TO EXISTING 40 AMP 2 POLE BREAKER.
3. PROVIDE NEMA 14-50R RECEPTACLE FOR RANGE. 3#8, 1#10 GND, 3/4" C.
4. RECEPTACLE TO BE INSTALLED 6 INCHES FROM TOP OF MICROWAVE SHELF OR CABINET FLOOR TO BOTTOM OF RECEPTACLE. COORDINATE EXACT LOCATION IN FIELD.
5. PROVIDE BLANK FACE GFCI ABOVE COUNTERTOP IN 2 GANG SETTING WITH ADJACENT COUNTERTOP GFCI RECEPTACLE. FEED REFRIGERATOR RECEPTACLE FROM LOAD SIDE OF BLANK FACE GFCI. PROVIDE WALL PLATES AND BOXES AS NEEDED. PROVIDE TAG ABOVE BLANK FACE GFCI DENOTING CONNECTION TO REFRIGERATOR.
6. EXTERNAL EXISTING WIRING. PROVIDE 60A, 3P, NEMA 3R FUSIBLE DISCONNECT SWITCH, FUSE AT 35A.
7. COORDINATE DEVICE LOCATION AT RECEPTION WITH ARCHITECT.
8. INSTALL DEVICE ON END OF CASEWORK. COORDINATE WITH ARCHITECT.
9. PROVIDE NEMA 14-30R RECEPTACLE FOR CLOTHES DRYER (3#10, 1#10 GND, 3/4"C.).
10. INSTALL DEVICE 36-INCH ABOVE FINISH FOR WASHER. COORDINATE WITH PLUMBING.
11. RECEPTACLE TO BE INSTALLED IN CABINET ABOVE RANGE FOR MICROWAVE. MOUNT 6 INCHES ABOVE CABINET FLOOR TOWARDS RIGHT CABINET WALL. COORDINATE EXACT LOCATION IN FIELD.
12. PROVIDE 120V CIRCUIT FOR DOOR OPERATORS AND DOOR CONTROLS.

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08/23/2024

REVISIONS:

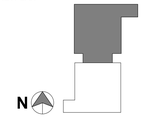
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY: MGE	DESIGNED BY: GSR
SCALE: REFER TO DRAWING	CHECKED BY: DEW
DATE: 08/06/2024	JOB NO.: 24020

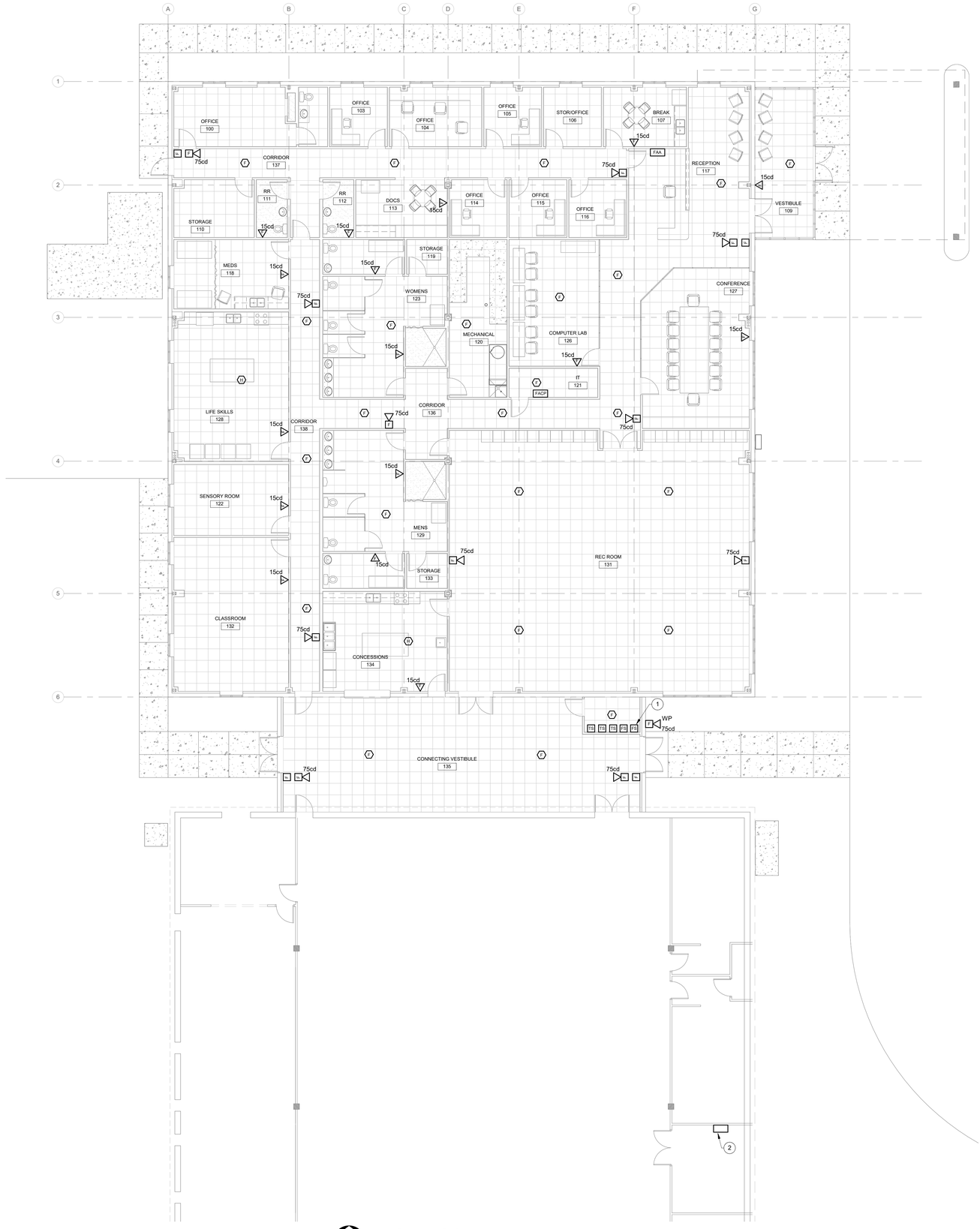
SHEET DESCRIPTION:

POWER FLOOR PLAN - POWER

SHEET NUMBER:

E-211

PRINTED ON: 8/23/2024 12:22:11 PM



FIRST FLOOR PLAN - FIRE ALARM

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET E001 FOR ADDITIONAL GENERAL NOTES.
2. COORDINATE EXACT LOCATION OF CEILING DEVICES WITH OTHER EQUIPMENT (I.E. LIGHTS, DIFFUSERS, ETC.).

(#) PLAN NOTES:

1. FUTURE SPRINKLER FLOW SWITCH FOR FUTURE USE.
2. MONITOR ALARM/TROUBLE STATUS OF EXISTING DSC POWER 832 PC 5010 COMBINATION SECURITY AND FIRE ALARM PANEL AND INTERCONNECT WITH NEW FACP. COORDINATE IN FIELD. IDEALLY, AN ALARM IN EITHER BUILDING WOULD ACTIVATE ALL NOTIFICATION DEVICES IN BOTH BUILDINGS, NEW AND EXISTING. (FYI - THE FUTURE GOAL IS TO PROVIDE NEW FIRE ALARM DEVICES IN THE EXISTING BUILDING AND CONNECT THEM DIRECTLY TO THE NEW BUILDING FACP SYSTEM SO THAT BOTH BUILDINGS ARE CONNECTED AS ONE SYSTEM.)

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08/23/2024

REVISIONS:

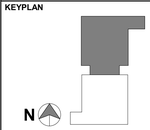
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY: MGE	DESIGNED BY: GSR
SCALE: REFER TO DRAWING	CHECKED BY: DEW
DATE: 08/06/2024	JOB NO.: 24020

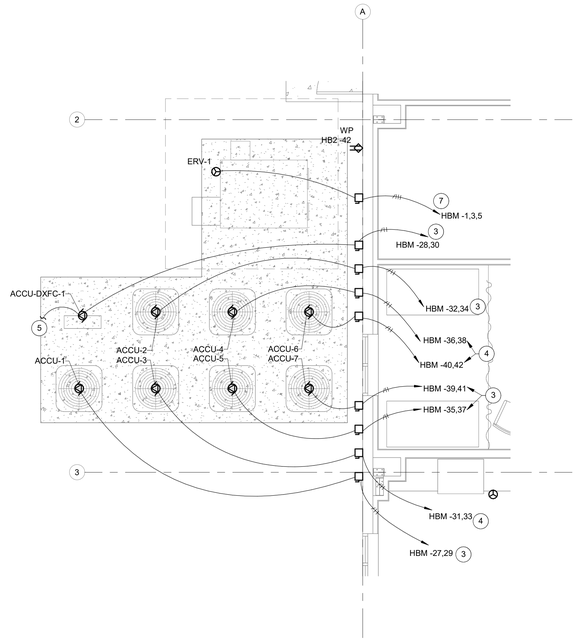
SHEET DESCRIPTION:

FLOOR PLAN - FIRE ALARM

SHEET NUMBER:

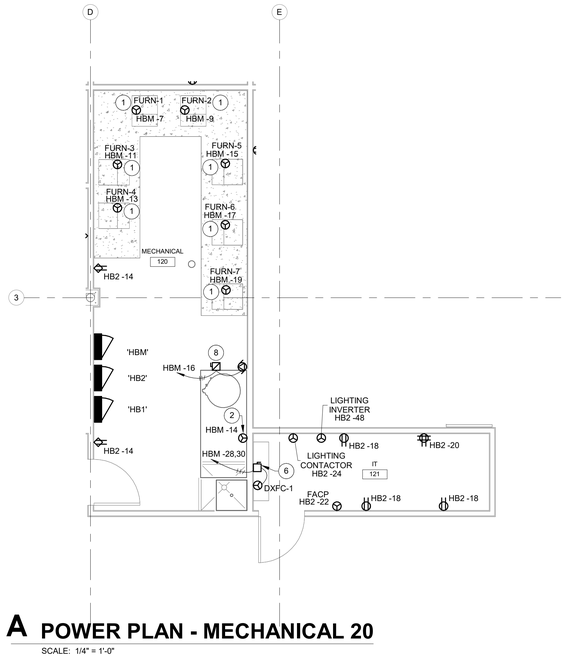
E-231

PRINTED ON: 8/23/2024 12:22:16 PM



B POWER PLAN - MECHANICAL (NORTH WEST WALL)

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



A POWER PLAN - MECHANICAL 20

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

0 1 2 3 4 8 12 16
1 2 3 4

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. SEE E-001 FOR GENERAL NOTES.

(#) PLAN NOTES:

1. PROVIDE LOCAL DISCONNECT AND DEDICATED CIRCUIT FOR FURNACE.
2. PROVIDE 120V DEDICATED CIRCUIT FOR WATER SOFTENER.
3. 2#10, 1#10 GND, 3/4" C. PROVIDE 30A, 2P, NEMA 3R DISCONNECT SWITCH.
4. 2#8, 1#10 GND, 3/4" C. PROVIDE 60A, 2P, NEMA 3R DISCONNECT SWITCH.
5. 2#10, 1#10 GND, 3/4" C. AND CONTROL WIRING TO INDOOR UNIT IN ROOM IT 24.
6. MINI-SPLIT AIR CONDITIONING INDOOR UNIT. POWER FROM OUTDOOR UNIT ON ROOF. 2#10, 1#10 GND, 3/4" C. PLUS CONTROL WIRING. PROVIDE 30, 2P, NON-FUSED NEMA 1 DISCONNECT SWITCH. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
7. 3#4, 1#8 GND, 1" C. ENERGY RECOVERY VENTILATOR. PROVIDE 100A NON-FUSED NEMA 1 DISCONNECT.
8. PROVIDE MANUAL MOTOR STARTER FOR CIRCULATION PUMP. WIRE THROUGH AQUASTAT FOR CONTROLS.

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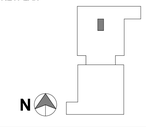
08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

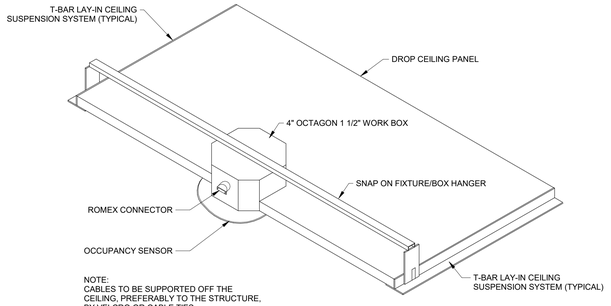


DRAWN BY: MGE	DESIGNED BY: GSR
SCALE: REFER TO DRAWING	CHECKED BY: DEW
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:
ENLARGED PLANS - ELECTRICAL

SHEET NUMBER:
E-301

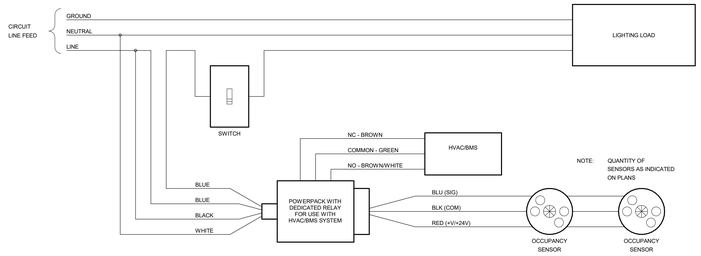
PRINTED ON: 8/23/2024 12:22:20 PM



NOTE:
CABLES TO BE SUPPORTED OFF THE CEILING, PREFERABLY TO THE STRUCTURE, BY VELCRO OR CABLE TIES.

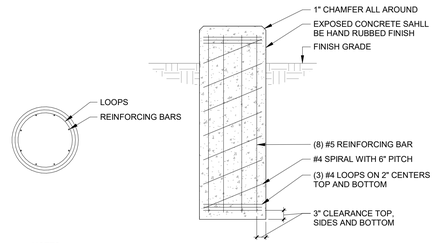
I TYPICAL OCCUPANCY SENSOR INSTALLATION DETAIL

SCALE: NONE



E TYPICAL SINGLE CIRCUIT, SENSORS WITH MANUAL SWITCHING

SCALE: NONE

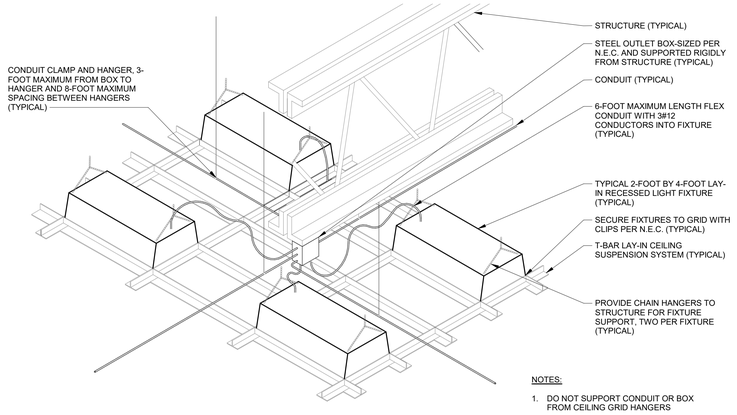


NOTES:

1. USE 4000 PSI 28 DAY STRENGTH CONCRETE FOR POLE BASE.
2. PLACE CONRETE THE SAME DAY BASE IS DRILLED.
3. USE SONOTUBE FORM ABOVE GRADE AND EXTEND TO 6" BELOW GRADE.
4. REFER TO "POLE BASE DETAIL" FOR DIMENSIONS.

A POLE BASE CONCRETE AND REINFORCING

SCALE: NONE

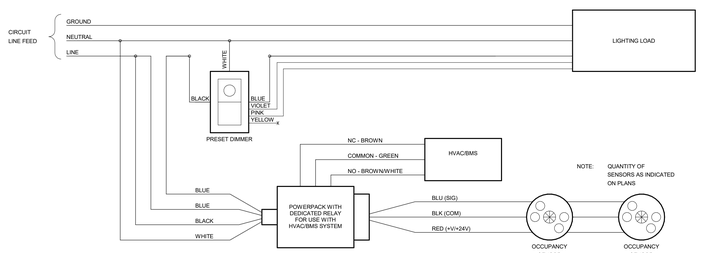


NOTES:

1. DO NOT SUPPORT CONDUIT OR BOX FROM CEILING GRID HANGERS

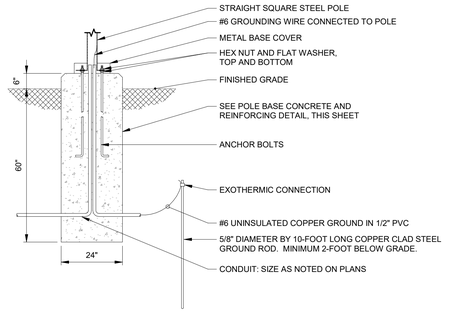
J TYPICAL RECESSED LIGHTING INSTALLATION

SCALE: NONE



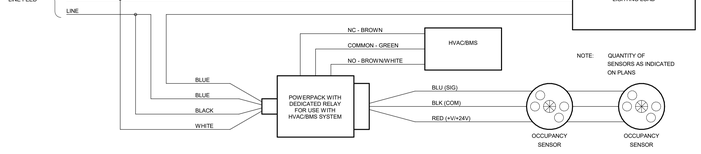
F TYPICAL SINGLE CIRCUIT, SENSORS WITH MANUAL DIMMING

SCALE: NONE



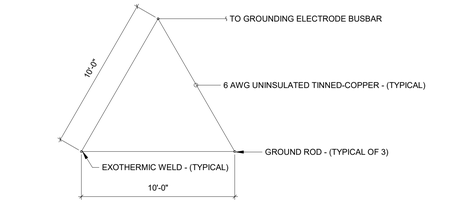
B PEDESTRIAN POLE UP TO 20-FOOT BASE DETAIL

SCALE: NONE



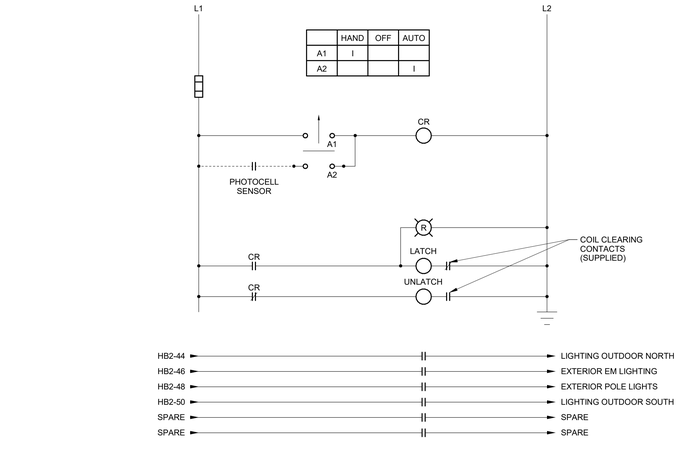
G TYPICAL SINGLE CIRCUIT, SENSORS WITHOUT MANUAL SWITCHING

SCALE: NONE



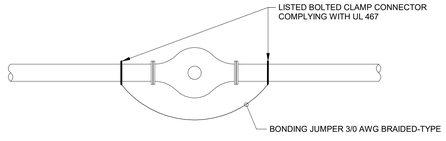
C TYPICAL GROUNDING TRIANGLE

SCALE: NONE



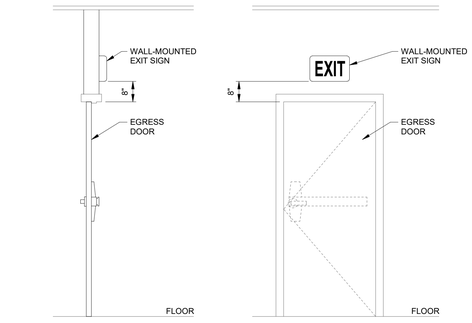
H EXTERIOR LIGHTING CONTACTOR

SCALE: NONE



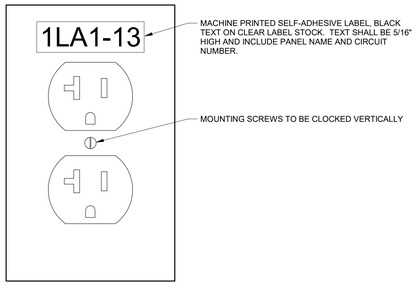
D TYPICAL BONDING JUMPER AT EACH WATER METER

SCALE: NONE



K WALL-MOUNT EXIT SIGN DETAIL

SCALE: NONE



L TYPICAL WIRING DEVICE LABEL

SCALE: NONE

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CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

DRAWN BY: MGE	DESIGNED BY: GSR
SCALE: REFER TO DRAWING	CHECKED BY: DEW
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:
DETAILS - ELECTRICAL

SHEET NUMBER:
E-401

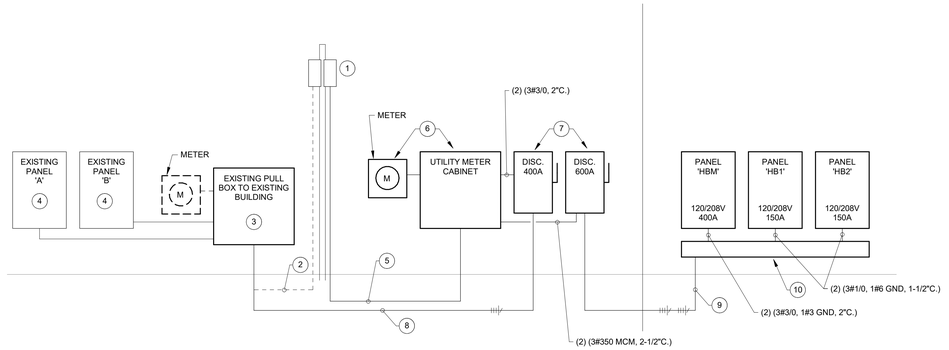
PRINTED ON: 8/23/2024 12:22:24 PM

GENERAL NOTES:

1. COORDINATE ALL WORK WITH DUKE ENERGY. GOAL IS TO MINIMIZE DURATION OF SERVICE OUTAGE (I.E. LIMIT TO WEEKEND OR 1/2 DAY)

(#) PLAN NOTES:

1. EXISTING DUKE ENERGY UTILITY POLE WITH 3Φ TRANSFORMER BANK. DUKE TO REPLACE/UPSIZE TRANSFORMERS.
2. EXISTING UNDERGROUND SERVICE LATERAL TO BE DELETED. REMOVE WIRING AND VISIBLE SECTION OF CONDUIT AT POLE. SALVAGE CONDUIT AT EXISTING CT CABINET FOR REUSE. REMAINDER OF UNDERGROUND CONDUIT TO BE ABANDONED.
3. EXISTING CT CABINET TO BE REUSED AS A JUNCTION BOX.
4. EXISTING PANELS IN EXISTING BUILDING TO REMAIN. RECONNECT TO NEW FEEDER. REMOVE N/G BOND AND SERVICE DISCONNECT LABELS.
5. PROVIDE (2) 4" UNDERGROUND PVC CONDUITS. DUKE ENERGY TO PROVIDE CONDUCTORS AND MAKE ALL CONNECTORS.
6. PROVIDE DUKE APPROVED CT CABINET AND METER BASE.
7. PROVIDE FUSED NEMA 3R SERVICE DISCONNECT SWITCHES. PROVIDE GROUNDING ELECTRODE.
8. PROVIDE 4#500 MCM, 1#3 GND IN 4" UNDERGROUND PVC CONDUIT TO OLD CT CABINET AND RECONNECT TO EXISTING PANEL FEEDS.
9. PROVIDE (2) 4" UNDERGROUND PVC CONDUIT EACH WITH 4#350 MCM, 1#1 GND (600A FEEDER).
10. PROVIDE A 12"x12" WIREWAY. PROVIDE POLARIS CONNECTORS AND TAP THE 600A FEEDER TO SERVE EACH PANEL.



A ELECTRICAL RISER DIAGRAM

SCALE: NONE

HBM — PANELBOARD SCHEDULE

LOCATION : MECHANICAL 120 | **SCCR (AMPS RMS...** 25,000 | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **MAIN:** MCB
MOUNTING: SURFACE | **NEMA:** 1 | **AMP:** 225 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1					7533 / 1333							2
3	ENERGY RECOVERY VENTILATOR ERV-1		70 A	3		7533 / 1333		3	20 A		ECUH-A CONNECT. VEST. 135	4
5							7533 / 1333					6
7	FURN-1 MECHANICAL 20		15 A	1	816 / 1333							8
9	FURN-2 MECHANICAL 20		15 A	1		816 / 1333		3	20 A		ECUH-A CONNECT. VEST. 135	10
11	FURN-3 MECHANICAL 20		15 A	1			1308 / 1333					12
13	FURN-4 MECHANICAL 20		15 A	1	1308 / 1000			1	20 A		WATER SOFTENER MECHANICAL 120	14
15	FURN-5 MECHANICAL 20		15 A	1		816 / 0		1	20 A		CIRCULATION PUMP MECHANICAL 120	16
17	FURN-6 MECHANICAL 20		15 A	1			1308 / 0	1	20 A		SPARE	18
19	FURN-7 MECHANICAL 20		15 A	1	816 / 0			2	50 A		SPARE	20
21	SPARE		15 A	1		0 / 0						22
23	SPARE		15 A	1			0 / 0	2	25 A		SPARE	24
25	SPARE		15 A	1	0 / 0							26
27	CONDENSING UNIT (ACCU-1) OUTDOOR		25 A	2		1436 / 2591		2	25 A		DXFC-1/ACCU-DXFC-1 IT 24	28
29							1436 / 2591					30
31	CONDENSING UNIT (ACCU-3) OUTDOOR		50 A	2	2496 / 1238			2	25 A		CONDENSING UNIT (ACCU-2) OUTDOOR	32
33						2496 / 1238						34
35	CONDENSING UNIT (ACCU-5) OUTDOOR		30 A	2			1519 / 2496	2	50 A		CONDENSING UNIT (ACCU-4) OUTDOOR	36
37					1519 / 2496							38
39	CONDENSING UNIT (ACCU-7) OUTDOOR		25 A	2		1238 / 2496						40
41							1238 / 2496	2	50 A		CONDENSING UNIT (ACCU-6) OUTDOOR	42

TOTALS :	21888 VA	23320 VA	24590 VA

TOTAL CONNECTED LOAD (VA) : 69804 VA | **TOTAL CONNECTED LOAD (AMPS) :** 194 A

REMARKS:
INTEGRAL SPD

NOTES:

HB2 — PANELBOARD SCHEDULE

LOCATION : MECHANICAL 120 | **SCCR (AMPS RMS...** 25,000 | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **MAIN:** MCB
MOUNTING: SURFACE | **NEMA:** 1 | **AMP:** 225 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	LIGHTING ROOM 100-107		20 A	1	944 / 907			1	20 A		LIGHTING CORRIDOR 109, 117, 127	2
3	LIGHTING ROOM 110-116, CORR. 137		20 A	1		969 / 1069		1	20 A		LIGHTING ROOM 120, 121, 123, 126	4
5	RECEPT OFFICE 100		20 A	1			1260 / 720	1	20 A		RECEPT RECEPTION 117, VEST. 109	6
7	RECEPT OFFICE 103		20 A	1	1080 / 1000			1	20 A		DOOR OPERATORS VESTIBULE 109	8
9	RECEPT OFFICE 104		20 A	1		720 / 720		1	20 A		RECEPT RECEPTION 117	10
11	RECEPT OFFICE 104		20 A	1			900 / 540	1	20 A		RECEPT RECEPTION 117	12
13	RECEPT OFFICE 105		20 A	1	1080 / 360			1	20 A		RECEPT MECHANICAL 120	14
15	RECEPT STOR/OFFICE 106		20 A	1		1080 / 540		1	20 A		RECEPT STORAGE 119, 123	16
17	RECEPT BREAK 107		20 A	1			180 / 540	1	20 A		RECEPT IT 121	18
19	RECEPT BREAK 107		20 A	1	720 / 180			1	20 A		RECEPT IT 121	20
21	RECEPT BREAK 107		20 A	1		180 / 1000		1	20 A		RECEPT IT 121	22
23	MICROWAVE BREAK 107		20 A	1			1000 / 500	1	20 A		RECEPT IT 121	24
25	REFRIGERATOR BREAK 107		20 A	1	1000 / 900			1	20 A		RECEPT COMPUTER LAB 126	26
27	RECEPT ROOM 110, 111		20 A	1		900 / 720		1	20 A		RECEPT COMPUTER LAB 126	28
29	RECEPT ROOM 112, 113		20 A	1			1260 / 720	1	20 A		RECEPT CONFERENCE 127	30
31	COPIER DOCS 113		20 A	1	1000 / 540			1	20 A		RECEPT CONFERENCE 127	32
33	RECEPT OFFICE 114		20 A	1		1080 / 360		1	20 A		RECEPT CORRIDOR 136	34
35	RECEPT OFFICE 115		20 A	1			1080 / 1333					36
37	RECEPT OFFICE 116		20 A	1	1080 / 1333			3	20 A		ECUH-A VEST. 109	38
39	RECEPT CORRIDOR 137		20 A	1		360 / 1333						40
41	SPARE		20 A	1			0 / 360	1	20 A		RECEPT EXTERIOR NORTH	42
43	SPARE		20 A	1	0 / 80			1	20 A		EXTERIOR LIGHTING NORTH	44
45	SPARE		20 A	1		0 / 80		1	20 A		EXTERIOR LIGHTING SOUTH	46
47	SPARE		20 A	1			0 / 486	1	20 A		EXTERIOR EM LIGHTING	48
49	SPARE		20 A	1	0 / 440			1	20 A		EXTERIOR LIGHT POLES	50
51	SPARE		20 A	1		0 / 0		1	20 A		SPARE	52
53	SPARE		20 A	1			0 / 0	1	20 A		SPARE	54

TOTALS :	12644 VA	11111 VA	10879 VA

TOTAL CONNECTED LOAD (VA) : 34635 VA | **TOTAL CONNECTED LOAD (AMPS) :** 96 A

REMARKS:
INTEGRAL SPD
26" WIDE ENCLOSED TRIM

NOTES:

HB1 — PANELBOARD SCHEDULE

LOCATION : MECHANICAL 120 | **SCCR (AMPS RMS...** 25,000 | **SERVICE :** 208Y/120V 3Φ 4-Wire+Ground | **MAIN:** MCB
MOUNTING: SURFACE | **NEMA:** 1 | **AMP:** 225 A

CKT	DESCRIPTION	NOTE	AMP	POLE	A	B	C	POLE	AMP	NOTE	DESCRIPTION	CKT
1	RECEPT REC ROOM 131		20 A	1	900 / 740			1	20 A		LIGHTING REC ROOM 24	2
3	RECEPT REC ROOM 131		20 A	1		900 / 735		1	20 A		LIGHTING REC ROOM 24	4
5	RECEPT REC ROOM 131		20 A	1			720 / 913	1	20 A		LIGHTING ROOM 129, 133, 134, 138	6
7	RECEPT REC ROOM 131		20 A	1	720 / 965			1	20 A		LIGHTING ROOM 116, 122, 126, 132	8
9	RECEPT MENS 129		20 A	1		540 / 720		1	20 A		RECEPT MEDS 118	10
11	RECEPT CONCESSIONS 134		20 A	1			360 / 360	1	20 A		RECEPT MEDS 118	12
13	RECEPT CONCESSIONS 134		20 A	1	360 / 500			1	20 A		U.C. FRIDGE MEDS 118	14
15	RECEPT CONCESSIONS 134		20 A	1		180 / 360		1	20 A		RECEPT CORRIDOR 138	16
17	RECEPT CONCESSIONS 134		20 A	1			360 / 540	1	20 A		RECEPT CONNECTING VESTIBULE 135	18
19	RECEPT CONCESSIONS 134		20 A	1	180 / 720			1	20 A		RECEPT CONNECTING VESTIBULE 135	20
21	MICROWAVE CONCESSIONS 134		20 A	1		1000 / 4000		2	50 A	G	RANGE LIFE SKILLS 128	22
23	MICROWAVE CONCESSIONS 134		20 A	1			1000 / 4000					24
25	MICROWAVE CONCESSIONS 134		20 A	1	1000 / 1000			1	20 A		MICROWAVE LIFE SKILLS 128	26
27	MICROWAVE CONCESSIONS 134		20 A	1		1000 / 1000		1	20 A		MICROWAVE LIFE SKILLS 128	28
29	RANGE CONCESSIONS 134	G	50 A	2			4000 / 180	1	20 A		REFR. LIFE SKILLS 128	30
31					4000 / 180			1	20 A		RECEPT LIFE SKILLS 128	32
33	REFR. 1 CONCESSIONS 134	G	20 A	1		1000 / 360		1	20 A		RECEPT LIFE SKILLS 128	34
35	REFR. 2 CONCESSIONS 134	G	20 A	1			1000 / 1080	1	20 A		RECEPT LIFE SKILLS 128	36
37	RECEPT SENSORY ROOM 122		20 A	1	1260 / 180			1	20 A		RECEPT LIFE SKILLS 128	38
39	RECEPT CLASSROOM 132		20 A	1		720 / 180		1	20 A		RECEPT LIFE SKILLS 128	40
41	RECEPT CLASSROOM 132		20 A	1			720 / 180	1	20 A		RECEPT LIFE SKILLS 128	42
43	RECEPT CLASSROOM 132		20 A	1	900 / 1500			1	20 A		WASHER LIFE SKILLS 128	44
45	RECEPT EXTERIOR S		20 A	1		540 / 1500		1	20 A		WASHER LIFE SKILLS 128	46
47	EPUH-A WATER SERVICE 125		20 A	2			1500 / 2500	2	20 A		DRYER LIFE SKILLS 128	48
49					1500 / 2500							50
51	LIGHTING CONNECT. VEST. 33, W.S. 35		20 A	1		660 / 2500		2	20 A		DRYER LIFE SKILLS 128	52
53	SPARE		20 A	1			0 / 2500					54

TOTALS :	19105 VA	17895 VA	21913 VA

TOTAL CONNECTED LOAD (VA) : 58913 VA | **TOTAL CONNECTED LOAD (AMPS) :** 164 A

REMARKS:
INTEGRAL SPD
26" WIDE ENCLOSED TRIM

NOTES:
G - PROVIDE GFCI TYPE CIRCUIT BREAKER

FLOOR BOX SCHEDULE

MARK (TAG)	CAPACITY	MANUFACTURER MODEL NUMBER	APPLICATION	CONSTRUCTION	COVER	FINISH	POWER DEVICES & PLATES	IT DEVICES & PLATES	CONDUITS
A	2-GANG	HUBBELL# PFBRG2	STANDARD	NON-METALLIC	(1) HUBBELL #S3825 OR #SA3825 (1) HUBBELL #S3826 OR #SA3826	ALUMINUM OR BRASS HUBBELL #SA3084W OR #SB3084W	(1) DUPLEX	(1) BLANK	(1) 3/4" POWER (2) 1" IT

NOTES:

1. NO CONDUIT LARGER THAN 1" SHALL BE INSTALLED IN FLOOR SLAB. ALL CONDUITS LARGER THAN 1" SHALL BE ROUTED BELOW THE FLOOR SLAB.
2. COORDINATE INSTALLATION OF FLOOR BOXES WITH GENERAL TRADES AND FLOOR CONSTRUCTION. IN SOME CASES, THE BOX IS DEEPER THAN THE CONCRETE SLAB.
3. ON-GRADE BOXES SHALL INCLUDE A FUSION-BONDED EPOXY PAINT FINISH TO PROTECT AGAINST CORROSION AND SHALL BE RATED FOR ON-GRADE USE.
4. COVER FINISH SHALL BE VERIFIED WITH ARCHITECT.
5. FLOOR BOXES SHALL BE UL 514A AND SCRUB WATER COMPLIANT.
6. COVERS SHALL ALLOW 180 DEGREE OPENING WITH TWO LARGE CABLE EGRESS DOORS.
7. PROVIDE NECESSARY DEVICE PLATES INSIDE BOX.
8. FLOOR BOXES SHALL BE HUBBELL "SYSTEM ONE" OR EQUAL BY WIREMOLD.
9. VERIFY EXACT LOCATION OF FLOOR BOXES WITH ARCHITECT PRIOR TO ROUGH-IN.
10. CONFIRM FLOOR TYPE AND FINISH PRIOR TO RELEASING ORDER.
11. COORDINATE WITH TELECOM PRIOR TO ORDERING IT DEVICES, PLATES AND COVERS

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	MOUNTING	WATTS PER FOOT	CRI	COLOR	LUMENS	VOLTS	MANUFACTURER(S)	MARK
F32	OPEN DOWNLIGHT, 6-INCH DIAMETER APERTURE, CLEAR SEMI-SPECULAR REFLECTOR, SELF FLANGED, 0-10V DIMMING TO 10-PERCENT, NON-IC RATED, WET LOCATION LISTED.	RECESSED	14.5W	80	3500K	2000	120-277V	ALPHABET NU6RD SERIES WILLIAMS 6DR LED SERIES GOTHAM EVO 6" SERIES PORTFOLIO LD6C SERIES	F32
F32S	SAME AS TYPE 'F32' EXCEPT NON-CONDUCTIVE, DEADFRONT CONSTRUCTION.	RECESSED	14.5W	80	3500K	2000	120-277V		F32S
F91	2 BY 2-FOOT FLAT PANEL, ACRYLIC LENS, 0-10V DIMMING TO 10-PERCENT, SELECTABLE LUMEN OUTPUT	RECESSED	32W	80	3500K	3200	120-277V	COLUMBIA CBT-LSCS SERIES LITHONIA CPX SERIES METALUX 22FP SERIES WILLIAMS BP SERIES	F91
F92	2 BY 4-FOOT FLAT PANEL, ACRYLIC LENS, 0-10V DIMMING TO 10-PERCENT, SELECTABLE LUMEN OUTPUT	RECESSED	40W	80	3500K	4000	120-277V	COLUMBIA CBT-LSCS SERIES LITHONIA CPX SERIES METALUX 24FP SERIES WILLIAMS BP SERIES	F92
F92F	SAME AS TYPE 'F92' EXCEPT PROVIDE A DRYWALL FLANGE.	RECESSED	40W	80	3500K	4000	120-277V		F92F
FC1	CAST ALUMINUM FIXTURE, POWDERCOATED FINISH, TYPE 3 WIDE DISTRIBUTION, NUMBER OF FIXTURE HEADS AS INDICATED, WET LOCATION LISTED, 20-FOOT TALL SQUARE NON-TAPERED 5" x 5" MIN, 7 GAUGE MIN, STEEL POLE, POWDERCOAT, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATATAG OF STANDARD FINISHES.	POLE	110W/HEAD	70	4000K	17000/HEAD	120-277V	HUBBELL AIRO SERIES LITHONIA RSX SERIES LUMARK PREVAIL SERIES LUMENCON LDS-LAL SERIES	FC1
FC2	SAME AS TYPE 'FC' BUT WITH TYPE 4 DISTRIBUTION.	POLE	110W/HEAD	70	4000K	17000/HEAD	120-277V		FC2
FN1	ARCHITECTURAL WALL PACK, WET LOCATION LISTED, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S CATALOG OF STANDARD COLORS, SWITCHABLE LUMENS, TYPE 4 DISTRIBUTION.	SURFACE WALL	40W	70	4000K	6000	120-277V	EXO WGH LED SERIES LUMARK AP WPM WALLPACK B SERIES LITHONIA TWX LED SERIES LUMENCON BLS-FTW SERIES	FN1
FN2	SAME AS TYPE 'FN1' BUT WITH DIFFERENT LUMEN OUTPUT.	SURFACE WALL	20W	70	4000K	3000	120-277V		FN2
R1	LINEAR CURVED PENDANT. INCLUDE $2000 MATERIAL ALLOWANCE FOR FIXTURE SELECTION. INCLUDE EXPECTED INSTALLATION AND LABOR COST IN BID.	SUSPENDED		80	3500K		120-277V	ALLOWANCE	R1
X1C	THERMOPLASTIC EXIT SIGN, WHITE HOUSING, SELF POWERED, SELF DIAGNOSTIC.	SURFACE CEILING	5W	80	GREEN	N/A	120-277V	DUAL-LITE SE SERIES SURE-LITES CX SERIES LITHONIA LE SERIES WILLIAMS EXIT LED SERIES	X1C
X1W	THERMOPLASTIC EXIT SIGN, WHITE HOUSING, SELF POWERED, SELF DIAGNOSTIC.	SURFACE WALL	5W	80	GREEN	N/A	120-277V	DUAL-LITE SE SERIES SURE-LITES CX SERIES LITHONIA LE SERIES WILLIAMS EXIT LED SERIES	X1W
X4	EMERGENCY LIGHTING UNIT, 90-MINUTE EMERGENCY CAPACITY, DAMP LOCATION LISTED, SELF DIAGNOSTIC.	SURFACE WALL	5W	80	WHITE	N/A	120-277V	DUAL-LITE EV SERIES SURE-LITES SEL25 SERIES LITHONIA ELM2 SERIES WILLIAMS EMER/LED SERIES	X4

D&A #24020

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Happiness Bag, Inc.
Center for Adaptive Recreation and Education

CERTIFIED BY:

TIMOTHY E. HILL REGISTERED No. PE19800083 STATE OF INDIANA PROFESSIONAL ENGINEER
08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

DRAWN BY:	DESIGNED BY:
MGE	GSR
SCALE: REFER TO DRAWING	**CHECKED BY:** DEW
DATE: 08/06/2024	**JOB NO.:** 24020

SHEET DESCRIPTION:
RISER DIAGRAM - ELECTRICAL

SHEET NUMBER:
E-501

PRINTED ON: 8/23/2024 12:22:29 PM

WET SPRINKLER SYSTEM DESIGN

SPRINKLER ZONE COVERAGE: 12,120 SF
LIGHT HAZARD AREA
0.10 GPM/1500 SF MOST REMOTE AREA
ORDINARY HAZARD GPI AREA
0.15 GPM/ 1500 SF MOST REMOTE AREA

RENOVATION LEGEND:

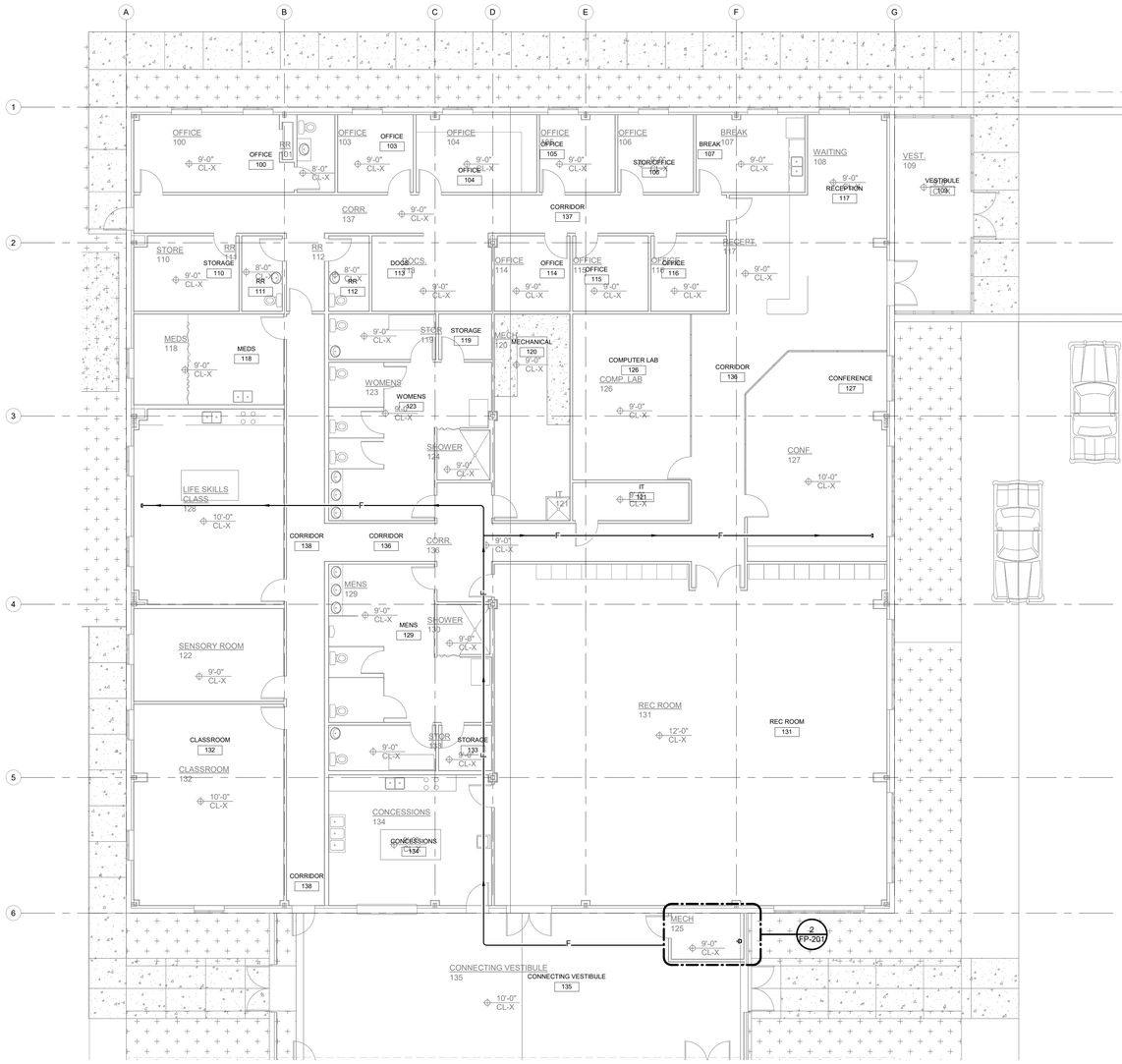
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. THESE NOTES APPLY TO ALL 'FP' SERIES DRAWINGS.
2. REFER TO SHEET PM-001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CORE DRILLING AND CUTTING HOLES THRU WALLS AND FLOORS AS REQUIRED TO INSTALL WORK, WHETHER SHOWN OR NOT.
4. ALL PENETRATIONS THRU RATED CONSTRUCTION TO BE FIRE STOPPED. REFER TO LIFE SAFETY PLANS.
5. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTACT ENGINEER WITH CONFLICTS OR DISCREPANCIES.
6. SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED, FULLY SUPERVISED, AND INSTALLED ACCORDING TO NFPA 13.
7. CONTRACTOR SHALL OBTAIN FLOW TEST INFORMATION PRIOR TO DESIGN AND HYDRAULIC CALCULATION OF SPRINKLER SYSTEM.
8. ALL SPRINKLER SYSTEM ITEMS REQUIRED BY CODE SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR WHETHER SHOWN ON THE DRAWINGS AND SPECIFICATIONS OR NOT.
9. ALL FIRE PROTECTION SYSTEMS TO BE INSTALLED TO MEET THE REQUIREMENTS OF THE INDIANA FIRE CODE, 2014; THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 13, 2010; THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 14; AND INDIANA AMENDMENTS (675 IAC-28-1-5).
10. PIPE ROUTINGS INDICATED ON DRAWINGS ARE DIAGRAMMATIC AND ARE A SUGGESTED METHOD FOR DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION, LAYOUT, CODE COMPLIANCE, AND DESIGN.
11. PROVIDE UPRIGHT SPRINKLER HEADS IN UNFINISHED SPACES (I.E. THOSE WITH EXPOSED STRUCTURE). CONCEALED HEADS IN FINISHED SPACES (I.E. THOSE WITH LAY-IN, DRYWALL, OR DECORATIVE CEILINGS). SIDEWALL HEADS WHERE IMPRACTICAL TO INSTALLED CONCEALED OR UPRIGHT TYPE, OR AS INDICATED OTHERWISE ON THE DRAWINGS.
12. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION OF CEILING MOUNTED ITEMS.
13. ALL NEW WORK IS DRAWN DARK. ALL WORK DRAWN LIGHT AND FOLLOWED BY (E.) IS EXISTING.

(#) PLAN NOTES:

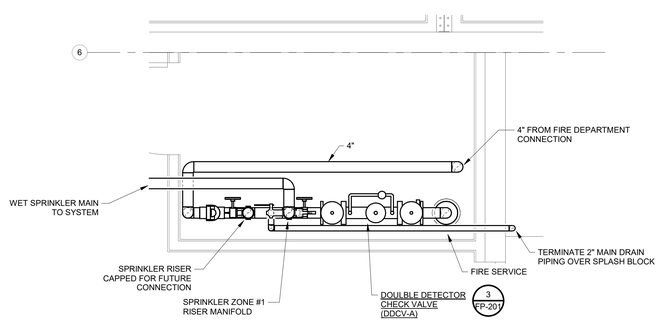
1. PLAN NOTE #1.



NORTH

FLOOR PLAN - FIRE PROTECTION

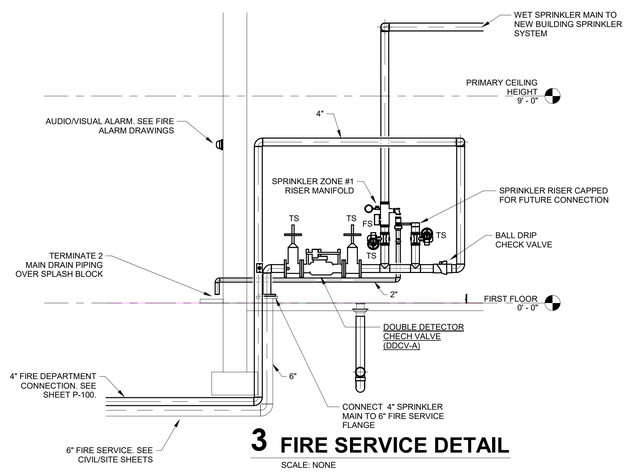
SCALE: 1/8" = 1'-0"



NORTH

ENLARGED WATER ROOM - FIRE PROTECTION

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



3 FIRE SERVICE DETAIL

SCALE: NONE

0 2 4 6 8 16 24 32
1 2 3 4

UNION

D&A #24020

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Happiness Bag, Inc.
Center for Adaptive Recreation and Education

CERTIFIED BY:

JOSEPH C. BECKER REGISTERED No. 10505141 STATE OF INDIANA PROFESSIONAL ENGINEER

08/23/2024

REVISIONS:

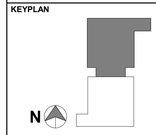
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY: AMB	DESIGNED BY: DED
SCALE: REFER TO DRAWING	CHECKED BY: DED
DATE: 08/06/2024	JOB NO.: 24020

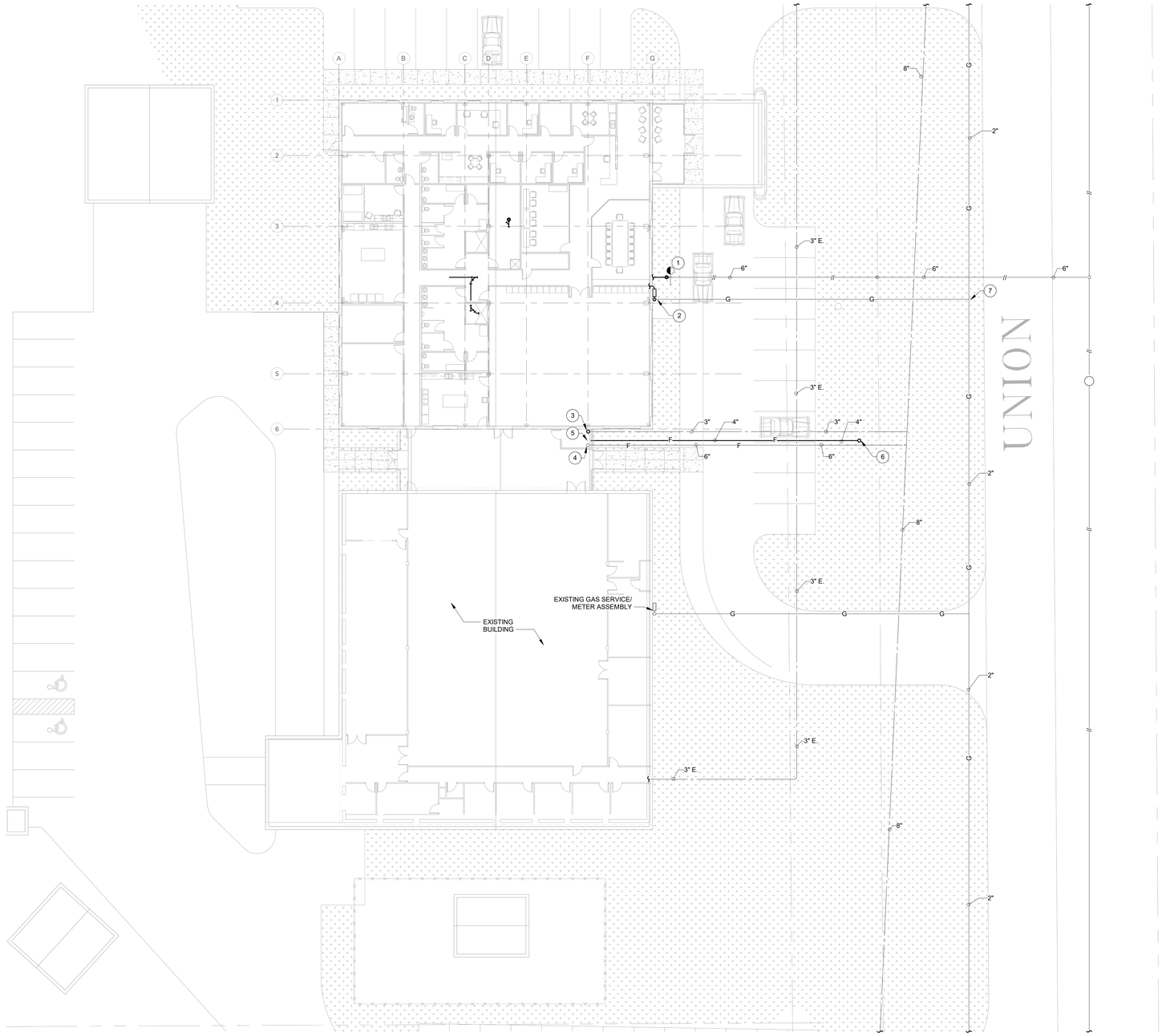
SHEET DESCRIPTION:

OVERALL FLOOR PLAN - FIRE PROTECTION

SHEET NUMBER:

FP-201

PRINTED ON: 8/23/2024 12:38:16 PM



SITE PLAN - PLUMBING

SCALE: 1/16" = 1'-0"

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.
2. DOMESTIC WATER, FIRE SERVICE, AND SANITARY WASTE SHOWN FOR REFERENCE ONLY. REFER TO SITE/CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
3. COORDINATE GAS SERVICE/METER SET WITH CENTER POINT ENERGY.

GAS UILITY CONTACT INFORMATION
CENTERPOINT ENERGY
KIMBERLY BURTON-KELLY
KIM.KELLY@CENTERPOINTENERGY.COM

(#) PLAN NOTES:

1. CONNECT 4" BUILDING SANITARY SEWER TO 6" SITE/CIVIL SANITARY SEWER. REFER TO SITE/CIVIL DRAWINGS.
2. GAS SERVICE/ METER ASSEMBLY. REFER TO DRAWING P-201.
3. 3" DOMESTIC WATER SERVICE. REFER TO SITE/CIVIL DRAWINGS.
4. 6" FIRE SERVICE. REFER TO SITE/CIVIL DRAWINGS.
5. 4" FIRE DEPARTMENT CONNECTION PIPING UP. REFER TO DRAWING FP-201.
6. 5" STORZ FIRE DEPARTMENT CONNECTION. REFER DRAWING FP-201.
7. CONNECT NEW GAS SERVICE TO EXISTING GAS MAIN. SERVICE TO BE SIZED FOR 1,200,000 BTUH. COORDINATE GAS SERVICE & CONNECTION WITH CENTER POINT ENERGY.

D&A #24020

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Center for Adaptive Recreation and Education

CERTIFIED BY:

JOSEPH C. BECKER REGISTERED No. 10505141 STATE OF INDIANA PROFESSIONAL ENGINEER

08/23/2024

REVISIONS:

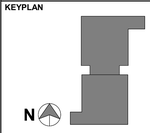
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY: Author	DESIGNED BY: Designer
SCALE: REFER TO DRAWING	CHECKED BY: Checker
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:

SITE PLAN - PLUMBING

SHEET NUMBER:

P-100

PRINTED ON: 8/23/2024 12:38:17 PM

RENOVATION LEGEND:

WORK TO BE INSTALLED

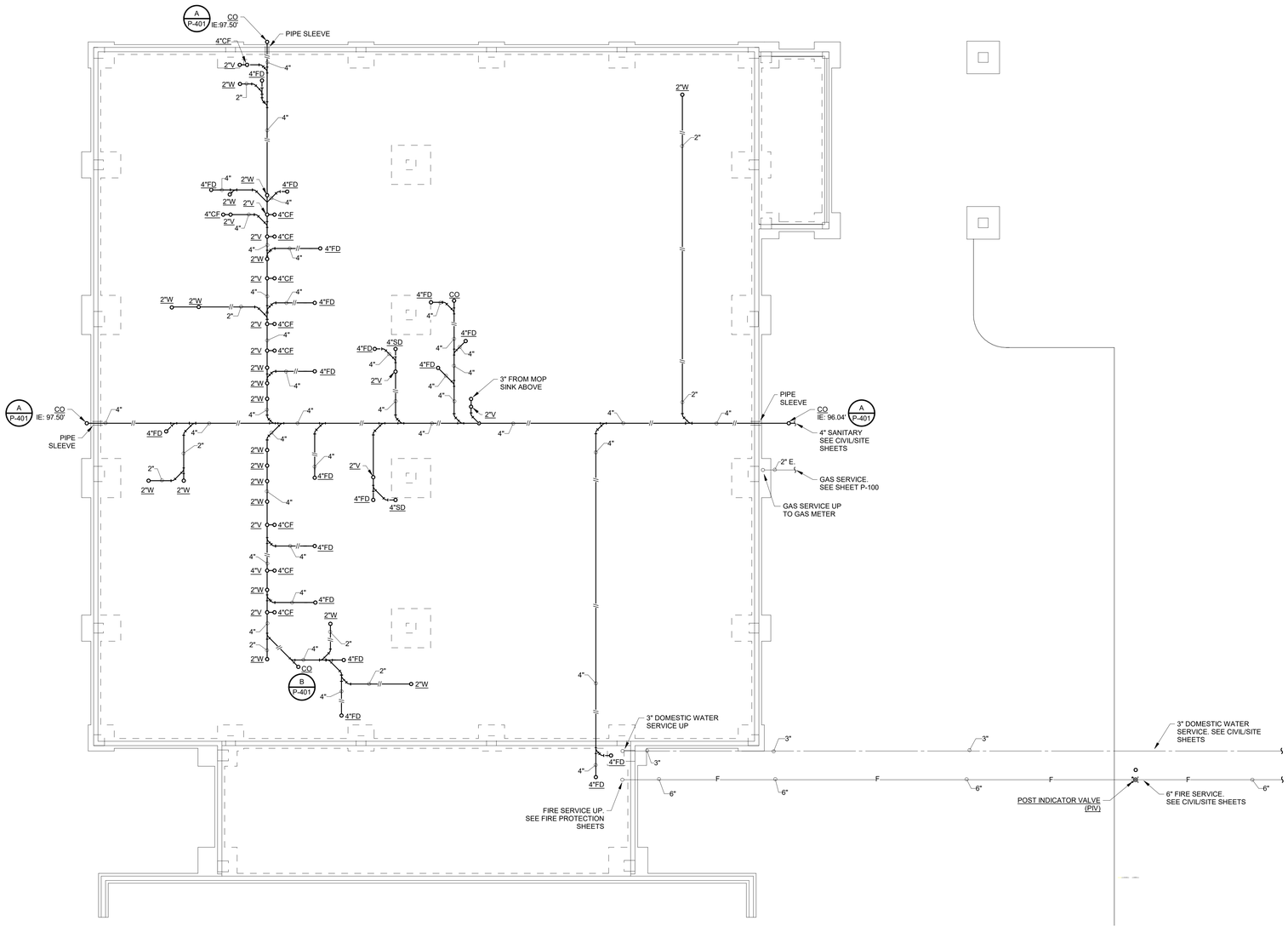
WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.
2. SPRINKLER / FIRE SERVICE PIPING SHOWN FOR REFERENCE ONLY. SEE FIRE PROTECTION SHEET.

(#) PLAN NOTES:

1. PLAN NOTE #1.



UNDERSLAB PLAN - PLUMBING

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

F.F.E.: 100.00'

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

D&A #24020

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08/23/2024

REVISIONS:

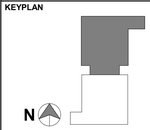
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY: TJG	DESIGNED BY: TJG
SCALE: REFER TO DRAWING	CHECKED BY: DED
DATE: 08/06/2024	JOB NO.: 24020

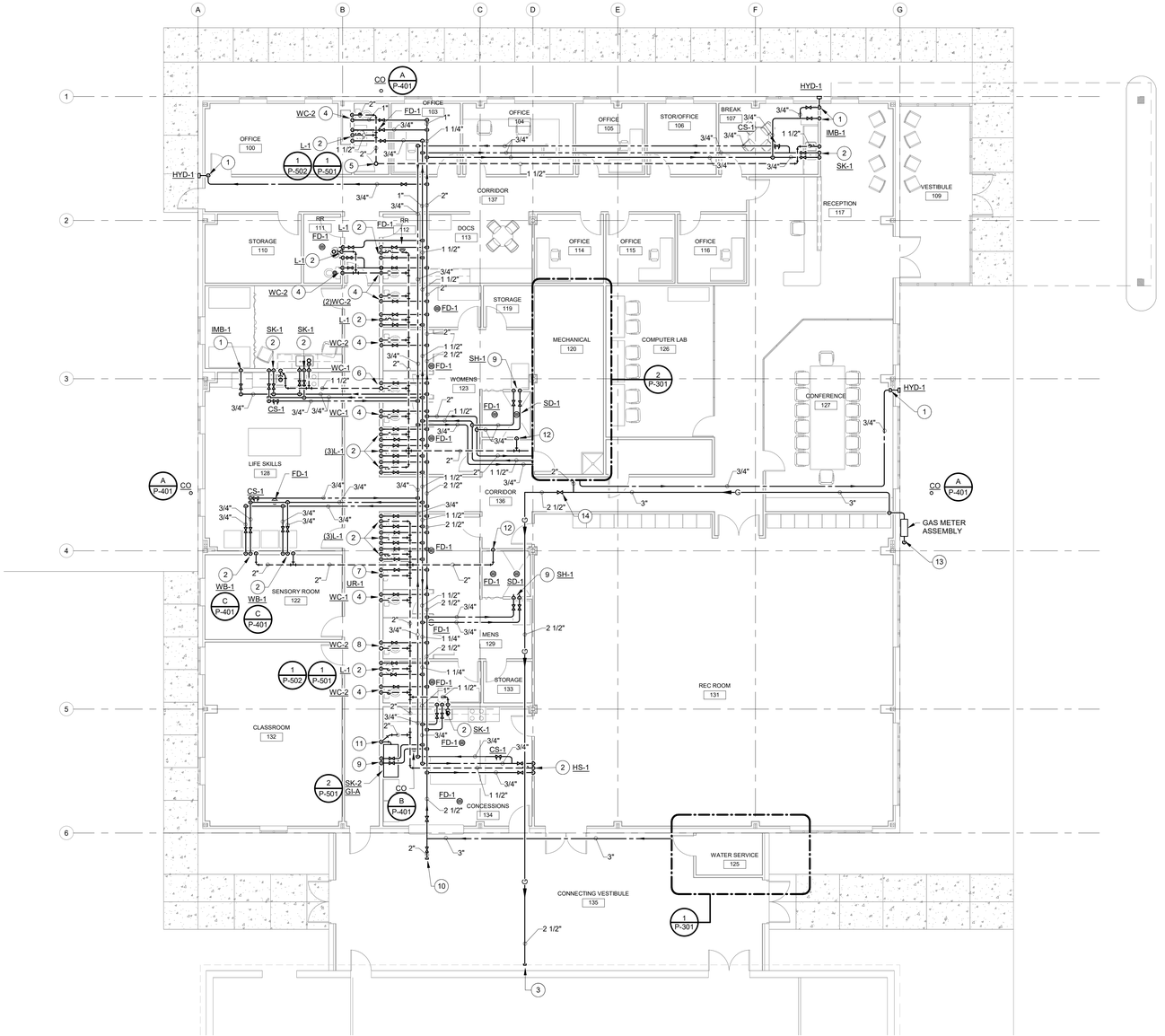
SHEET DESCRIPTION:

UNDERSLAB PLAN - PLUMBING

SHEET NUMBER:

P-101

PRINTED ON: 8/23/2024 12:38:18 PM



FIRST FLOOR PLAN - PLUMBING

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

NORTH

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. 3/4" COLD WATER DOWN.
2. 3/4" HOT AND 3/4" COLD WATER DOWN. 1 1/2" WASTE DOWN. 1 1/2" VENT UP.
3. 2 1/2" GAS PIPING CAPPED FOR FUTURE CONNECTION TO EXISTING BUILDING.
4. 3/4" COLD WATER DOWN. 2" VENT FROM BELOW.
5. 2" VENT UP. 3" VENT THRU ROOF.
6. 3/4" COLD WATER DOWN. 2" VENT FROM BELOW. 2" VENT UP. 3" VENT THRU ROOF.
7. 3/4" COLD WATER DOWN. 1 1/2" WASTE DOWN. 1 1/2" VENT UP.
8. 3/4" COLD WATER DOWN. 4" VENT FROM BELOW. 4" VENT UP. 4" VENT THRU ROOF.
9. 3/4" HOT AND 3/4" COLD WATER DOWN.
10. 2" COLD WATER CAPPED FOR FUTURE CONNECTION.
11. 2" WASTE DOWN. 2" VENT UP.
12. 2" VENT FROM BELOW.
13. GAS METER ASSEMBLY. GAS METER SIZED FOR1,200,000 BTUH. PRESSURE REDUCING VALVE SIZED FOR 1,200,000 BTUH WITH AN OUTLET PRESSURE OF 10"WC.
14. 2 1/2" GAS SHUT OFF VALVE CLOSED FOR FUTURE USE.

0 2 4 6 8 16 24 32
1 2 3 4

D&A #24020

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Happiness Bag, Inc.
Center for Adaptive Recreation and Education

CERTIFIED BY:

JOSEPH C. BECKER REGISTERED No. 10505141 STATE OF INDIANA PROFESSIONAL ENGINEER

08/23/2024

REVISIONS:

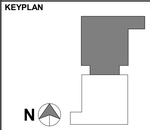
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY: TJG	DESIGNED BY: TJG
SCALE: REFER TO DRAWING	CHECKED BY: DED
DATE: 08/06/2024	JOB NO.: 24020

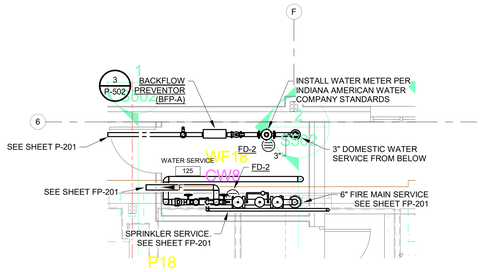
SHEET DESCRIPTION:

FLOOR PLAN - PLUMBING

SHEET NUMBER:

P-201

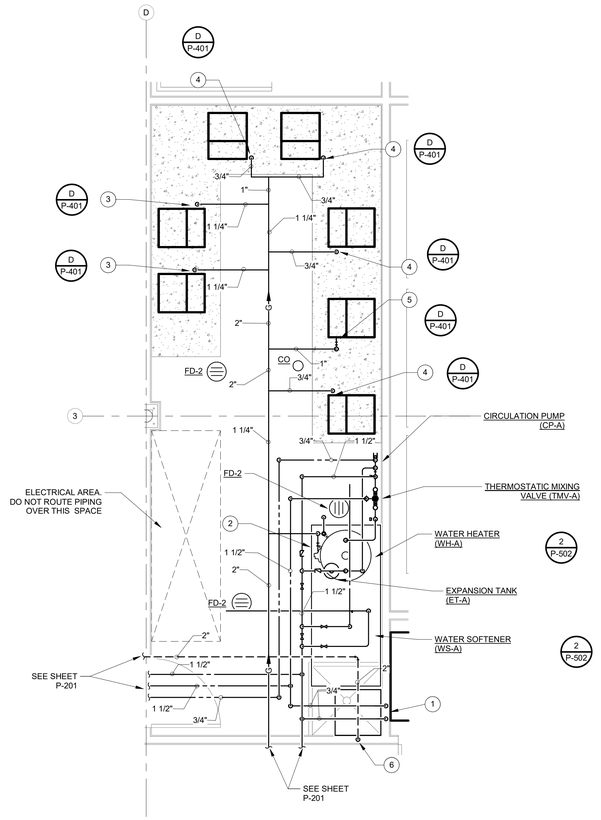
PRINTED ON: 8/23/2024 12:38:19 PM



ENLARGED WATER ROOM - PLUMBING

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

NORTH



ENLARGED MECHANICAL ROOM - PLUMBING

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

NORTH

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. REFER TO SHEET PM001 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. 3/4" HOT AND COLD WATER DOWN.
2. 1 1/4" GAS DOWN TO WATER HEATER. CONNECT 1 1/4" GAS TO WATER HEATER WITH SHUT-OFF VALVE, UNION, AND DIRT LEG.
3. 1 1/4" GAS DOWN TO FURNACE. CONNECT 1 1/4" GAS TO FURNACE WITH SHUT-OFF VALVE, UNION, AND DIRT LEG.
4. 3/4" GAS DOWN TO FURNACE. CONNECT 3/4" GAS TO FURNACE WITH SHUT-OFF VALVE, UNION, AND DIRT LEG.
5. 1" GAS DOWN TO FURNACE. CONNECT 1" GAS TO FURNACE WITH SHUT-OFF VALVE, UNION, AND DIRT LEG.
6. 2" VENT FROM BELOW.

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CERTIFIED BY:

JOSEPH C. BECKER REGISTERED No. 10505141 STATE OF INDIANA PROFESSIONAL ENGINEER

08/23/2024

REVISIONS:

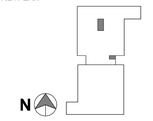
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY: TJG	DESIGNED BY: TJG
SCALE: REFER TO DRAWING	CHECKED BY: DED
DATE: 08/06/2024	JOB NO.: 24020

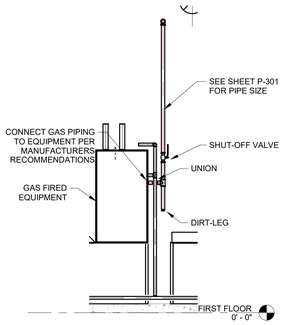
SHEET DESCRIPTION:

ENLARGED PLAN - PLUMBING

SHEET NUMBER:

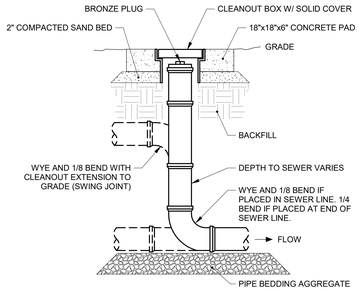
P-301

PRINTED ON: 8/23/2024 12:38:20 PM



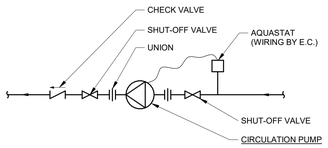
D GAS CONNECTION DETAIL

SCALE: NONE



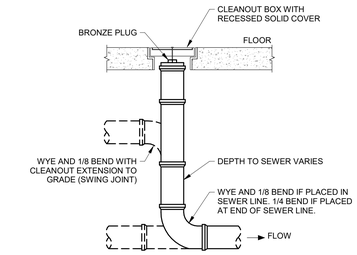
A EXTERIOR CLEANOUT

SCALE: NONE



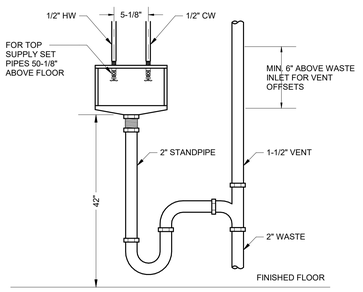
E CIRCULATION PUMP

SCALE: NONE



B INTERIOR CLEANOUT

SCALE: NONE



C WASHER BOX DETAIL

SCALE: NONE

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08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

DRAWN BY: AMB	DESIGNED BY: DED
SCALE: REFER TO DRAWING	CHECKED BY: DED
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:

DETAILS - PLUMBING

SHEET NUMBER:

P-401

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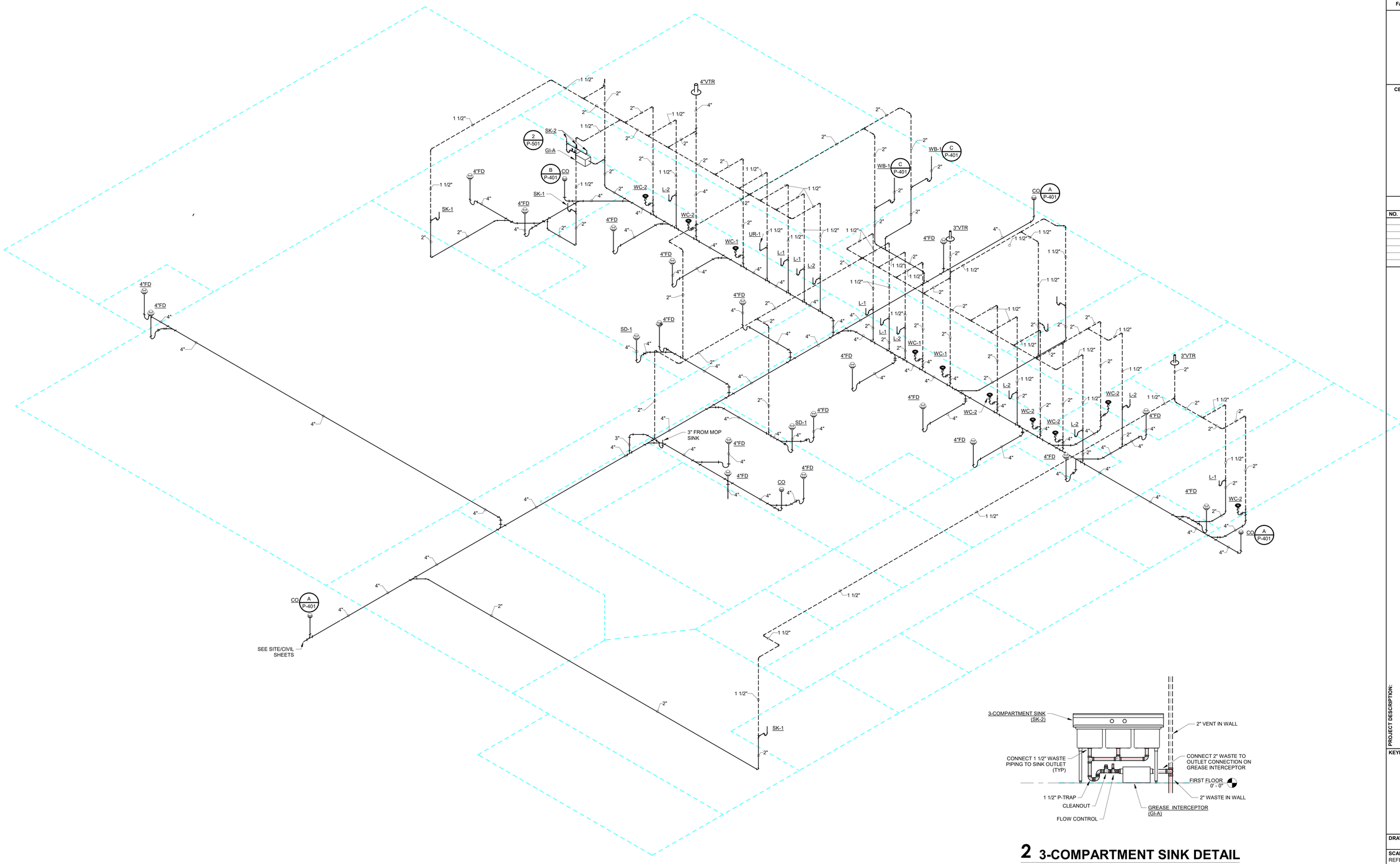

1 WASTE AND VENT DIAGRAM

SCALE: NONE

2 3-COMPARTMENT SINK DETAIL

SCALE: NONE

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REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

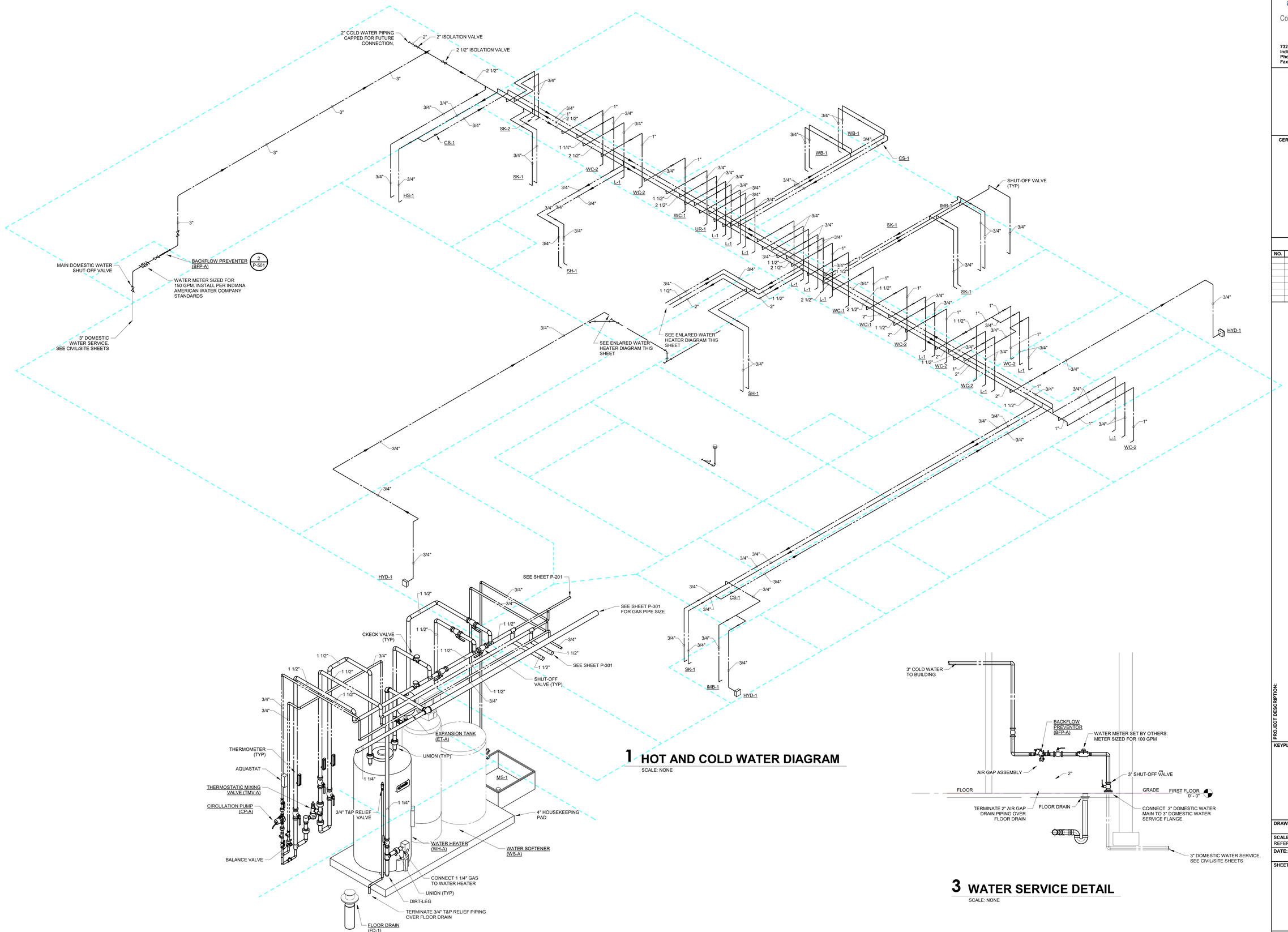
DRAWN BY: AMB	DESIGNED BY: DED
SCALE: REFER TO DRAWING	CHECKED BY: DED
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:

ISOMETRICS - PLUMBING

SHEET NUMBER:

P-501



1 HOT AND COLD WATER DIAGRAM
SCALE: NONE

2 WATER HEATER DETAIL
SCALE: NONE

3 WATER SERVICE DETAIL
SCALE: NONE

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JOSEPH C. BECKER REGISTERED No. 10505141 STATE OF INDIANA PROFESSIONAL ENGINEER

08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

DRAWN BY: Author	DESIGNED BY: Designer
SCALE: REFER TO DRAWING	CHECKED BY: Checker
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:
ISOMETRICS - PLUMBING

SHEET NUMBER:
P-502

PRINTED ON: 8/23/2024 12:38:25 PM

PLUMBING EQUIPMENT SCHEDULE

MARK NO.	SPECIFICATION NAME	MANUFACTURER & MODEL NO.	ELECTRICAL DATA			GAS LOAD (BTU)	CAPACITY	REMARKS
			LOAD	VOLTS	PHASE			
WH-A	GAS FIRED WATER HEATER	A. O. SMITH #BT-80	-	-	-	75,100	74 GALLON STORAGE	-
TMV-A	THERMOSTATIC MIXING VALVE	LAWLER #801/86208	-	-	-	-	25GPM @ 10 PSI DROP	-
CP-A	CIRCULATION PUMP	TACO #0011-F4	1/8	115	1 PH	-	2.0GPM @ 25' TDH	AQUASTAT SET POINTS ON: 110°F OFF: 117°F
ET-1	EXPANSION TANK	THERM-X-TROL #ST-12-C	-	-	-	-	TANK VOLUME = 6.4 GALLONS	-
WS-1	WATER SOFTENER	AQUA SYSTEM GEN II 1000 - 1 1/2"	-	120	1 PH	-	300,000 GRAINS @ 15LB/CF 10CF OF MEDIA	-
BFP-A	REDUCED PRESSURE BACKFLOW PREVENTER	ZURN #975XL3-S-2"	-	-	-	-	100 GPM @ 12 PSI DROP	AIR GAP #AG-5
GI-A	GREASE INTERCEPTOR	ZURN #Z1170 - 100	-	-	-	-	4.0 GPM FLOW RATE CAPACITY: 3 GAL WATER 8 LBS OF GREASE	FLOOR MOUNTED UNDER 3-COMPARTMENT SINK

FIXTURE ROUGH-IN SCHEDULE & MOUNTING HEIGHTS

MARK NO.	FIXTURE DESCRIPTION	CW	HW	TRAP	W	V	MOUNTING HEIGHTS
WC-1	WATER CLOSET - FLOOR MOUNTED, FLUSH VALVE	1"	-	INTEGRAL	4"	2"	15" TO SEAT
WC-2	WATER CLOSET - FLOOR MOUNTED, FLUSH VALVE, ADA	1"	-	INTEGRAL	4"	2"	17" TO SEAT
UR-1	URINAL - WALL HUNG, FLUSH VALVE, ADA	3/4"	-	INTEGRAL	2"	1-1/2"	15" TO RIM
L-1	LAVATORY - UNDERCOUNTER COUNTER	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	-
HS-1	HAND SINK - WALL MOUNTED - ST. ST.	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	34" TO TOP OF DECK
SH-1	SHOWER	1/2"	1/2"	-	-	-	40" TO SHOWER VALVE. 78" TO SHOWER HEAD
MS-1	MOP SERVICE BASIN	3/4"	3/4"	3"	1-1/2"	1-1/2"	36" TO FAUCET
HYD-1	WALL HYDRANT - NON FREEZE	1/2"	-	-	-	-	24" ABOVE FINISH GRADE
SK-1	KITCHEN SINK - UNDERCOUNTER	3/4"	3/4"	2"	2"	1-1/2"	-
SK-2	3-COMPARTMENT SINK	3/4"	3/4"	2"	2"	1-1/2"	-
IMB-1	ICE MAKER BOX	1/2"	-	-	-	-	24" ABOVE FINISH GRADE
WB-1	WASHER BOX	3/4"	3/4"	2"	2"	1-1/2"	48" AFF TO CENTER OF BOX

WATER HAMMER ARRESTER SCHEDULE

TYPE	I.P.S.	F.U. RATING	J.R. SMITH NO.	WADE NO.	ZURN NO.	REMARKS
A	3/4"	1 - 11	5005	W-5	100	P.D.I. CERTIFIED
B	1"	12 - 32	5010	W-10	200	P.D.I. CERTIFIED
C	1"	33 - 60	5020	W-20	300	P.D.I. CERTIFIED
D	1"	61 - 113	5030	W-50	400	P.D.I. CERTIFIED

CIRCUIT SETTER SCHEDULE

MARK NO.	FLOW RATE (GPM)	QUANTITY	SUBTOTAL
CS-1	0.5	4	2.0
CS-2	1.0	1	1.0
CS-3	1.5	1	1.0
		TOTAL	4.0

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08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

DRAWN BY: AMB	DESIGNED BY: DED
SCALE: REFER TO DRAWING	CHECKED BY: DED
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:
SCHEDULES - PLUMBING

SHEET NUMBER:
P-601

PRINTED ON: 8/23/2024 12:38:25 PM

DEFINITIONS/ACRONYMS

1. INSTALL – TO SUPPLY ALL LABOR, TOOLS AND INCIDENTAL MATERIALS NECESSARY TO HANDLE, STORE, MOUNT, TERMINATE, PROGRAM, CONFIGURE AND ADJUST PRODUCT AS NECESSARY TO FULFILL PROJECT REQUIREMENTS.
2. FURNISH – TO SUPPLY THE SPECIFIED LABOR OR SPECIFIED PRODUCT, INCLUDING ALL ASSOCIATED SHIPPING, STORAGE, AND WARRANTY EXPENSES.
3. PROVIDE – TO FURNISH AND INSTALL, INCLUDING ALL NECESSARY ACCESSORIES, MISCELLANEOUS MATERIALS, AND LABOR NECESSARY TO RENDER THE RESPECTIVE SYSTEM FULLY OPERATIONAL.
4. WORK – ANY AND ALL LABOR, MATERIALS, ACCESSORIES, SERVICES, ETC. NECESSARY TO FULFILL PROJECT REQUIREMENTS.
5. PRIMARY BONDING BUSBAR: A BUSBAR PLACED IN A CONVENIENT AND ACCESSIBLE LOCATION AND BONDED, BY MEANS OF THE TELECOMMUNICATIONS BONDING CONDUCTOR, TO THE BUILDINGS SERVICE EQUIPMENT (POWER) GROUND (FORMERLY KNOWN AS THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR).
6. SECONDARY BONDING BUSBAR: A COMMON POINT OF CONNECTION FOR TELECOMMUNICATIONS SYSTEM AND EQUIPMENT BONDING TO GROUND AND LOCATED IN THE TELECOM ROOM (FORMERLY KNOWN AS THE TELECOMMUNICATIONS GROUNDING BUSBAR).
7. PRIMARY PATHWAYS ARE THOSE SUPPORTING THE CABLE INFRASTRUCTURE FROM THE EQUIPMENT ROOMS / TELECOMMUNICATIONS ROOMS / TELECOMMUNICATIONS ENCLOSURES THROUGH THE CORRIDORS, TUNNELS AND CHASES TO THE SECONDARY PATHWAYS.
8. SECONDARY PATHWAYS ARE THROSE SUPPORTING THE CABLING INFRASTRUCTURE FROM THE PRIMARY PATHWAYS TO THE TELECOMMUNICATIONS OUTLETS.
9. AHJ – AUTHORITY HAVING JURISDICTION
10. BAS – BUILDING AUTOMATION SYSTEMS
11. DAS – DISTRIBUTED ANTENNA SYSTEM
12. DISPLAY - A DEVICE THAT SHOWS IMAGES, TEXT, OR OTHER CONTENT BY CONVERTING ANALOG OR DIGITAL SIGNALS INTO VISIBLE FORM.
13. EAC – ELECTRONIC ACCESS CONTROL
14. EF – ENTRANCE FACILITY
15. EO – EQUIPMENT OUTLET
16. ER – MAIN TELECOMMUNICATIONS EQUIPMENT ROOM
17. FACP – FIRE ALARM CONTROL PANEL
18. HC – HORIZONTAL CROSS-CONNECT
19. HDMI – HIGH-DEFINITION MULTIMEDIA INTERFACE
20. HDPE – HIGH DENSITY POLYETHYLENE
21. IC – INTERMEDIATE CROSS-CONNECT
22. IDC – INSULATION DISPLACEMENT CONNECTOR
23. IDS – INTRUSION DETECTION SYSTEM
24. IOT – INTERNET OF THINGS
25. IP – INTERNET PROTOCOL
26. LAN – LOCAL AREA NETWORK
27. LEC – LOCAL EXCHANGE CARRIER
28. MC – MAIN CROSS-CONNECT
29. MH – MAINTENANCE HOLE
30. MPTL - MODULAR PLUG TERMINATED LINK
31. OSP – OUTSIDE PLANT
32. PBB – PRIMARY BONDING BUSBAR
33. RF – RADIO FREQUENCY
34. RFID – RADIO FREQUENCY IDENTIFICATION
35. SBB – SECONDARY BONDING BUSBAR
36. SSID – SERVICE SET IDENTIFIER
37. STP – SHIELDED TWISTED PAIR
38. SO – SERVICE OUTLET
39. TCP – TRANSMISSION CONTROL PROTOCOL
40. TE – TELECOMMUNICATIONS ENCLOSURE
41. TO – TELECOMMUNICATIONS OUTLET
42. TR – TELECOMMUNICATIONS ROOM
43. UTP – UNSHIELDED TWISTED PAIR
44. UON – UNLESS OTHERWISE NOTED
45. VSS – VIDEO SURVEILLANCE SYSTEM
46. WAN – WIDE AREA NETWORK
47. WAP – WIRELESS ACCESS POINT
48. WLAN – WIRELESS LOCAL AREA NETWORK

TELECOMMUNICATIONS DEVICES

- X — STANDARD TELECOM OUTLET: DATA. X = QUANTITY OF HORIZONTAL UTP CABLES PROVIDED TO TELECOM. ROOM (PROVIDE TWO DATA CABLES WITHOUT SUBSCRIPT). CABLE IS OWNER PROVIDED.
- LI — STANDARD TELECOM OUTLET WITH LOCAL A/V INPUT. PROVIDE TWO HORIZONTAL UTP CABLES TO TELECOM. ROOM IN ADDITION, PROVIDE (1) HDMI TO PROJECTOR/TV. CABLE IS OWNER PROVIDED.
- BAS — DATA OUTLET: BUILDING AUTOMATION SYSTEMS. PROVIDE TWO HORIZONTAL UTP CABLES TO TELECOM. ROOM, UON. VERIFY LOCATION. CONNECT AS COORDINATED WITH MECHANICAL CONTRACTOR. CABLE IS OWNER PROVIDED.
- FACP — FIRE ALARM CONTROL PANEL. PROVIDE TWO HORIZONTAL UTP CABLES TO TELECOM. ROOM, UON. CONNECT TO FACP AS COORDINATED WITH FIRE ALARM CONTRACTOR. CABLE IS OWNER PROVIDED.
- FLOOR BOX. SPECIFIED IN DIVISION 26.
- TV TV — TELEVISION SET. PROVIDE TWO HORIZONTAL UTP CABLES TO TELECOM. ROOM AND IN ADDITION, PROVIDE (1) HDMI TO LOCAL A/V INPUT OUTLET UON. TV IS PROVIDED BY OTHERS. CABLE IS OWNER PROVIDED.
- WIRELESS ACCESS POINT (WAP). PROVIDE TWO HORIZONTAL UTP CABLES TO TELECOM. ROOM , UON. WAP IS PROVIDED BY OTHERS. CABLE IS OWNER PROVIDED.
- C X C X — VIDEO SURVEILLANCE CAMERA. PROVIDE ONE HORIZONTAL UTP CABLE TO TELECOM. ROOM, UON. PROVIDE CAMERA MOUNTING HARDWARE. PROVIDE CAMERA COMPLETE. X = CAMERA TYPE / VIEW.
- ID ID — INTRUSION DETECTION SENSOR. PROVIDE COMPLETE. TYPICAL +96"AFF.
- K — INTRUSION DETECTION KEYPAD. PROVIDE COMPLETE. TYPICAL +48" AFF.
- VP — VIDEO PHONE ENTRY STATION. PROVIDE COMPLETE. TYPICAL +48" AFF.
- VM — VIDEO PHONE MASTER STATION. PROVIDE COMPLETE.
- XX — OPTICAL FIBER CABLE. PROVIDE COMPLETE. XX = FIBER STRAND QUANTITY.
- TELECOM TERMINATION AND CROSS CONNECT.
- XXX — DOOR NUMBER. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

NOTES:

1. SEE DETAILS FOR MORE WORK REQUIREMENTS.
2. COORDINATE WITH ALL 'E'- SERIES DRAWINGS.

GENERAL NOTES - DEMOLITION:

1. THE CONTRACT DOCUMENTS DO NOT PROPOSE TO SHOW ALL SYSTEMS, MATERIALS, OR EQUIPMENT EXISTING ON THE PROJECT THAT WILL REQUIRE DEMOLITION. DEMOLITION DRAWINGS ARE BASED ON PARTIAL FIELD OBSERVATION. REPORT DISCREPANCIES TO THE CONSULTANT BEFORE DISTURBING EXISTING INSTALLATION.
2. REMOVE ALL ABANDONED CABLING AS DEFINED BY THE NEC.
3. PROVIDE DEMOLITION REQUIRED FOR REMOVAL OF SYSTEMS AND EQUIPMENT MADE OBSOLETE BY THIS PROJECT AND PAST PROJECTS.
4. IDENTIFY ITEMS TO BE SALVAGED WITH THE OWNER. PROVIDE NON-DESTRUCTIVE REMOVAL OF SYSTEMS, MATERIALS, AND EQUIPMENT FOR REUSE OR SALVAGE AS REQUIRED.
5. REMOVAL ALL COMMUNICATIONS DEBRIS FROM SITE AND LEGALLY DISPOSE OF IT.
6. RELOCATE EXISTING EQUIPMENT TO ACCOMMODATE CONSTRUCTION.
7. CONTRACTOR UNDERSTANDS THAT ADJACENT AREAS NEED TO REMAIN IN OPERATION AND THAT SERVICES TO THESE AREAS NEED TO BE MAINTAINED.
8. PROTECT EXISTING EQUIPMENT AND INSTALLATIONS INDICATED TO REMAIN. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TELEPHONE, DATA, CENTRAL SOUND, SECURITY, AND ALARM SYSTEM SERVICES IN ALL EXISTING AREAS FOR DURATION OF PROJECT. CONTRACTOR SHALL COLLABORATE WITH OWNER'S TECHNOLOGY PERSONNEL AS NECESSARY AND PROVIDE TEMPORARY WIRING, CROSS-CONNECTS, TERMINATION DEVICES, AND LABOR TO MAINTAIN OPERATION ACCEPTABLE TO THE OWNER.
10. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO KEEP DIRT, DUST, NOISE, AND OTHER PARTICLES FROM BEING TRANSFERRED TO ADJACENT AREAS.
11. CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR REMOVAL OR RELOCATION OF EXISTING INSTALLATIONS.
12. REMOVE ABANDONED CABLING AFTER OWNER'S SYSTEMS ARE CUT OVER TO THE NEW CABLING SYSTEM.
13. REMOVE, STORE, PROTECT, CLEAN, REINSTALL, RECONNECT, AND MAKE OPERATION COMPONENTS INDICATED FOR RELOCATION/REINSTALLATION.
14. REMOVE DIRT, DUST, DEBRIS, UNSALVAGEABLE AND NON-REUSABLE ITEMS, AND THE LIKE FROM THE PROJECT SITE DAILY. REFUSE SHALL NOT BE ALLOWED TO BLOCK, OR OTHERWISE IMPAIR, CIRCULATION IN CORRIDORS, STAIRS, SIDEWALKS, OR OTHER TRAFFIC AREAS.
15. WHERE A DEVICE IS REMOVED FROM A WALL OR CEILING THAT IS TO REMAIN, PROVIDE A NEW BLANK COVERPLATE ON EXISTING DEVICE BOX. REMOVE ALL SURFACE RACEWAYS AND BOXES.

GENERAL NOTES - INSTALLATION:

1. NOTHING SET FORTH IN THESE DRAWINGS SHALL RELEASE ANY CONTRACTOR FROM HIS RESPONSIBILITY TO PROVIDE APPROPRIATE QUANTITIES, FIELD MEASUREMENTS, DIMENSIONAL STABILITY, INSTALLATION, ANCHORAGE, AND COORDINATION WITH OTHER TRADES; OR RELEASE HIM FROM HIS RESPONSIBILITY TO IDENTIFY AND RESOLVE DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, OR FREE HIM OF HIS RESPONSIBILITY TO ALERT DESIGNER TO ERRORS OR OMISSIONS.
2. CONTRACTOR SHALL UTILIZE THESE DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS TO DETERMINE THE FULL SCOPE, INTENT, AND REQUIREMENTS OF THE PROJECT. SPECIFICATIONS AND DRAWINGS ARE INTENDED TO BE COMPLEMENTARY, NOT MUTUALLY EXCLUSIVE.
3. EACH CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING APPLICABLE CONDITIONS.
4. THOROUGHLY CLEAN AND DISPOSE OF TRASH AT THE END OF EACH WORK DAY. OWNER'S FACILITIES SHALL NOT BE USED FOR WASTE DISPOSAL.
5. PROVIDE DUST PROTECTION FOR FINISHED WORK. SEAL EQUIPMENT BY PROVIDING DUST-PROOF BARRIERS AS REQUIRED. PROVIDE DUST PROTECTION WHEN WORKING IN EXISTING FACILITIES. SEAL OFF ALL WORK AREAS FROM REMAINDER OF THE EXISTING FACILITY TO RETAIN ALL CONSTRUCTION DIRT AND DUST. SEAL EXISTING DOORS WITH TAPE AND PROVIDE DUST-PROOF BARRIERS AS REQUIRED.
6. SEQUENCE ALL WORK TO PROVIDE FOR THE OWNER'S CONTINUED USE OF THE FACILITY.
7. PROTECT ALL SURFACES AND FINISHES OF THE FACILITY. DAMAGED SURFACES OR FINISHES RESULTING FROM THE PERFORMANCE OF THE WORK OR NEGLIGENCE SHALL BE REPAIRED BY THE RESPONSIBLE CONTRACTOR AT NO COST TO THE OWNER. FINISHES AND SURFACES SHALL BE MADE TO MATCH THE EXISTING FINISHES OR SURFACES TO THE SATISFACTION OF THE OWNER AND ARCHITECT/CONSTRUCTION MANAGER.
8. NOTIFY PAINTING CONTRACTOR AND GENERAL CONTRACTOR/CONSTRUCTION MANAGER THAT TELECOMMUNICATIONS CABLING CANNOT BE PAINTED. PROTECT ALL CABLES DURING PAINTING. REPLACE ALL CABLES THAT ARE PAINTED.
9. CONDUIT RUNS SHALL HAVE NO MORE THAN 180 DEGREES OF BENDS WITHOUT AN APPROPRIATE PULL BOX. PROVIDE PULL BOXES AS FOLLOWS:
   A. EVERY 180 DEGREES OF CONDUIT BEND
   B. EVERY 100 FEET OF CONDUIT PATH
10. ALL PULL BOXES AND JUNCTION BOXES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
11. PROVIDE PATHWAYS FOR ALL TELECOMMUNICATIONS WORK. PATHWAY SHALL BE CLOSELY REVIEWED AND COORDINATED PRIOR TO INSTALLATION.
12. PROVIDE COVER PLATES FOR ALL DEVICE, JUNCTION, AND PULL BOXES. COORDINATE MATERIAL AND FINISH OF ALL BLANK PLATES.
13. WHERE DEVICE CONDUITS ARE SPECIFIED TO ABOVE ACCESSIBLE CEILING, THIS SHALL MEAN THAT CONDUITS SHALL BE STUBBED OUT INTO AN ACCESSIBLE CONCEALED CEILING CAVITY.
14. PROVIDE PULL STRINGS IN ALL CONDUITS .
15. DEVICE ROUGH-IN BOXES SHALL BE INSTALLED FLUSH IN WALLS AND CEILINGS. PATHWAYS SHALL BE INSTALLED CONCEALED.
16. CABLING CANNOT BE EXPOSED TO PUBLIC VIEW. WHERE CABLING CANNOT BE CONCEALED INSIDE A WALL CAVITY OR CONCEALED IN AN ACCESSIBLE CEILING CAVITY, PROVIDE CABLING IN CONDUIT AS SPECIFIED SPACE. IN ADDITION, WHERE CEILING MOUNTED DEVICES ARE SHOWN IN A SPACE WITH NO CONCEALED ACCESSIBLE CEILING SPACE, PROVIDE SURFACE MOUNT BOX AND CONDUIT AS INDICATED.
17. PROVIDE SLEEVED WALL/FLOOR PENETRATIONS AND FIRE STOPPING REQUIRED FOR CABLING.
18. PROVIDE BUSHINGS AT EACH END OF THE CONDUIT; AT EACH PULL/JUNCTION/DEVICE BOX; ON CONDUIT STUBS; AND AT EACH LOCATION WHERE PULLING CABLE THROUGH THE CONDUIT MAY CAUSE THE CABLE TO RUB AGAINST THE END OF A CONDUIT OR ITS END FITTING.
19. DEVICES TO BE INSTALLED AT CASEWORK LOCATIONS SHALL BE CLOSELY COORDINATED WITH THE CASEWORK TO ENSURE FUNCTIONAL CONNECTIVITY. COORDINATE WITH THE ARCHITECT AND THE EQUIPMENT AND CASEWORK DRAWINGS.
20. DEVICES DESIGNATED AS COUNTER HEIGHT SHALL BE CLOSELY COORDINATED IN THE FIELD WITH ARCHITECT, CASEWORK AND FURNITURE VENDORS PRIOR TO ROUGH-IN.
21. ROUGH-IN SHALL BE CLOSELY COORDINATED IN THE FIELD TO COMPLEMENT THE INTENDED FURNITURE PLAN AND SAFE AND EFFICIENT CONNECTIVITY OF COMMUNICATION TECHNOLOGY EQUIPMENT.
22. TELECOMMUNICATIONS OUTLETS ARE INTENDED TO HAVE ADJACENT POWER OUTLETS TO SERVE THE SAME EQUIPMENT. CONTRACTOR SHALL COORDINATE THESE DEVICES TO BE LOCATED ADJACENT AND AT THE SAME HEIGHT.
23. TELECOMMUNICATIONS OUTLETS MOUNTING HEIGHTS SHALL BE CONSISTENT WITH THE ELECTRICAL OUTLET MOUNTING HEIGHTS FOR THE FACILITY (NEW OR EXISTING) UNLESS OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEEK THE DIRECTION OF THE DESIGNER SHOULD DISCREPANCIES BE FOUND WITHIN THE DRAWINGS, SPECIFICATIONS AND/OR ACTUAL FIELD CONDITIONS.
24. LABEL ALL CONDUITS STUBBED INTO THE CEILING CAVITY WITH AN INDELIBLE MARKER INDICATING THE CONDUIT'S INTENDED USE. LABEL WITHIN 6 INCHES OF THE CONDUIT BUSHING. BELOW ARE EXAMPLES OF LABELS TO BE USED. "CAMERA," "ICOM," "DOOR," "SPKR," "MIC," "CLOCK," "VOL," "PANEL," "WAP," "DATA," "PHONE," "COM," "RF," "VP," "INPUT," ETC.
25. PROVIDE WEATHERPROOF OUTLET IN ALL HARSH ENVIRONMENTS (I.E. OUTDOORS, POOLS, MECHANICAL ROOMS,ETC.).
26. PROVIDE HORIZONTAL CABLE AS SPECIFIED FOR HVAC CONTROL PANELS, FIRE ALARM CONTROL PANELS, AND ELEVATORS WHERE APPLICABLE. SEE ELECTRICAL AND MECHANICAL DOCUMENTS FOR LOCATIONS.
27. PROVIDE WORK SHOWN ON T-SERIES DRAWINGS AS SPECIFIED IN DIVISIONS 27 AND 28.

D&A #24020

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Happiness Bag, Inc.
Center for Adaptive Recreation and Education

CERTIFIED BY:
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
James A Darnell
BICSI ID # 101926
EXPIRES 12-31-27
RCDD
08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

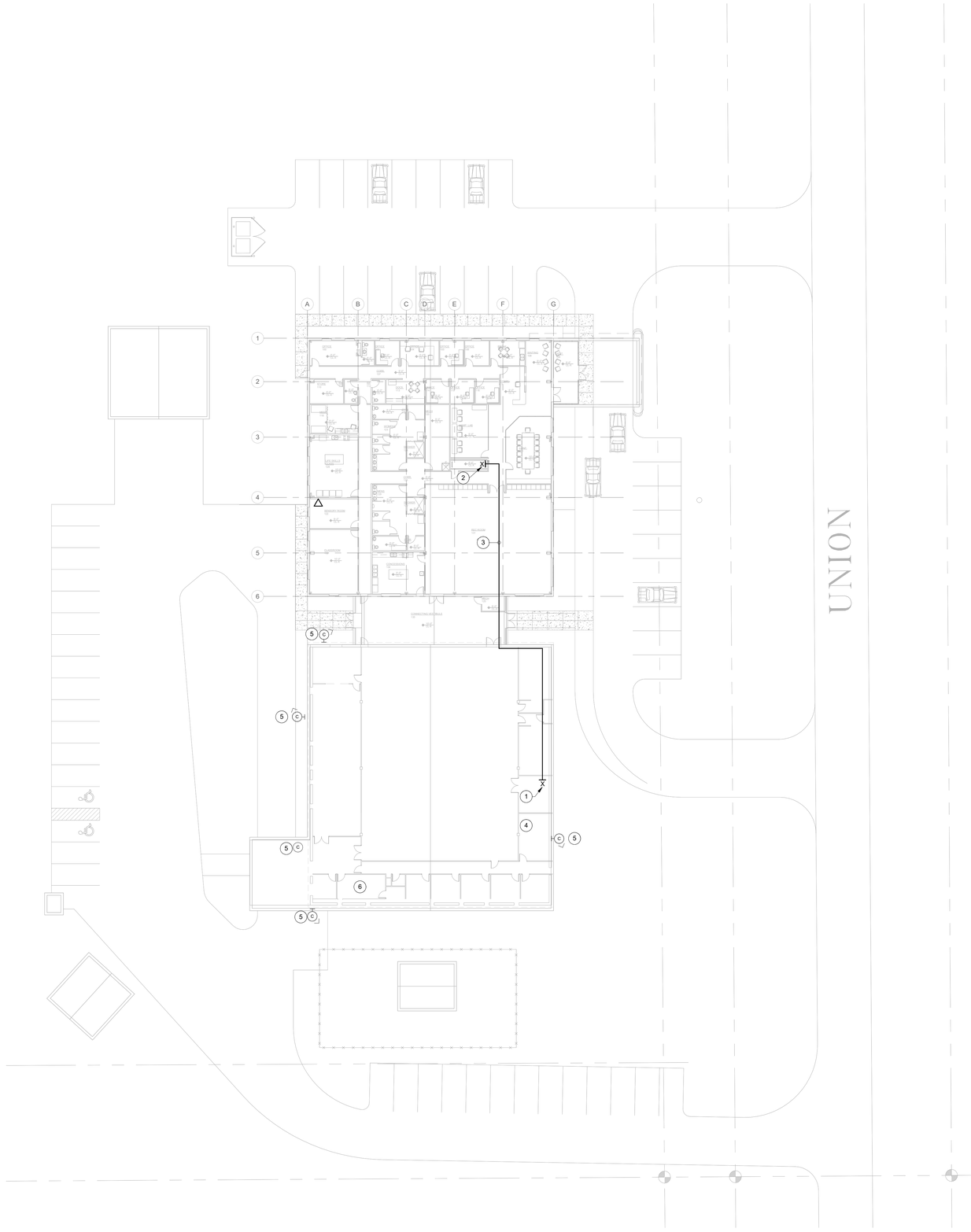
KEYPLAN

DRAWN BY: VH	DESIGNED BY: JD
SCALE: REFER TO DRAWING	CHECKED BY: JD
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:
SYMBOLS, ABBREVIATIONS, & GENERAL NOTES - TELECOM.

SHEET NUMBER:
T-001

PRINTED ON: 8/23/2024 12:42:56 PM



SITE PLAN - TELECOM

SCALE: 1" = 20'-0"

NORTH

0 5 10 20 40 60 80

1 2 3 4

RENOVATION LEGEND:

WORK TO BE INSTALLED

WORK TO REMAIN

GENERAL NOTES:

1. REFER TO DRAWING T001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO DRAWING T405 FOR INSTALLATION DETAILS.
3. THE LOCATION AND ROUTING OF ALL UNDERGROUND CONDUITS SHOWN ON THE DRAWINGS ARE INTENDED AS CONCEPTUAL ONLY AND ARE ANTICIPATED TO VARY DEPENDING UPON ACTUAL FIELD CONDITIONS. THE EXACT LOCATION AND ROUTING OF UNDERGROUND CONDUITS SHALL BE DETERMINED BY THE CONTRACTOR FOLLOWING THE INTENT OF THE DRAWINGS AS GENERAL GUIDELINE ONLY AND SHALL BE APPROVED BY THE OWNER'S FIELD REPRESENTATIVE. PRIOR TO BEGINNING THE INSTALLATION OF UNDERGROUND CONDUITS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESEARCH, LOCATE, AND MARK ANY EXISTING UNDERGROUND UTILITIES THAT MAY INTERFERE WITH THE INSTALLATION OF NEW UNDERGROUND CONDUIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR FACILITIES. ANY DAMAGE TO EXISTING UTILITIES OR FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AS APPROVED BY THE ENGINEER. CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION. LOCATE, IDENTIFY, MARK, AND AVOID ALL EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESEARCH AND IDENTIFY ALL UTILITY COMPANIES WHOSE UTILITIES AND FACILITIES MAY BE AFFECTED BY THIS PROJECT.

(#) PLAN NOTES:

1. EXISTING TELECOM AND SECURITY ENTRANCE FACILITY AND NETWORK EQUIPMENT (MDF) TO REMAIN.
2. NEW TELECOM ROOM.
3. PROVIDE NEW BACKBONE CABLING AS SPECIFIED.
4. RELOCATE EXISTING VIDEO SURVEILLANCE NVR TO MDF AND CONNECT TO EXISTING NETWORK. RE-LOCATE EXISTING VIDEO SURVEILLANCE CAMERA CABLING AND RE-CONNECT COMPLETE.
5. EXISTING CAMERA TO REMAIN.
6. REMOVE EXISTING IDS KEYPAD. NEW AND EXISTING IDS SENSORS SHALL BE CONTROLLED FROM NEW IDS KEYPAD LOCATED IN NEW RECEPTION 117 AREA.

D&A #24020

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08/23/2024

REVISIONS:

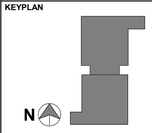
NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN



DRAWN BY: VH	DESIGNED BY: JD
SCALE: REFER TO DRAWING	CHECKED BY: JD
DATE: 08/06/2024	JOB NO.: 24020

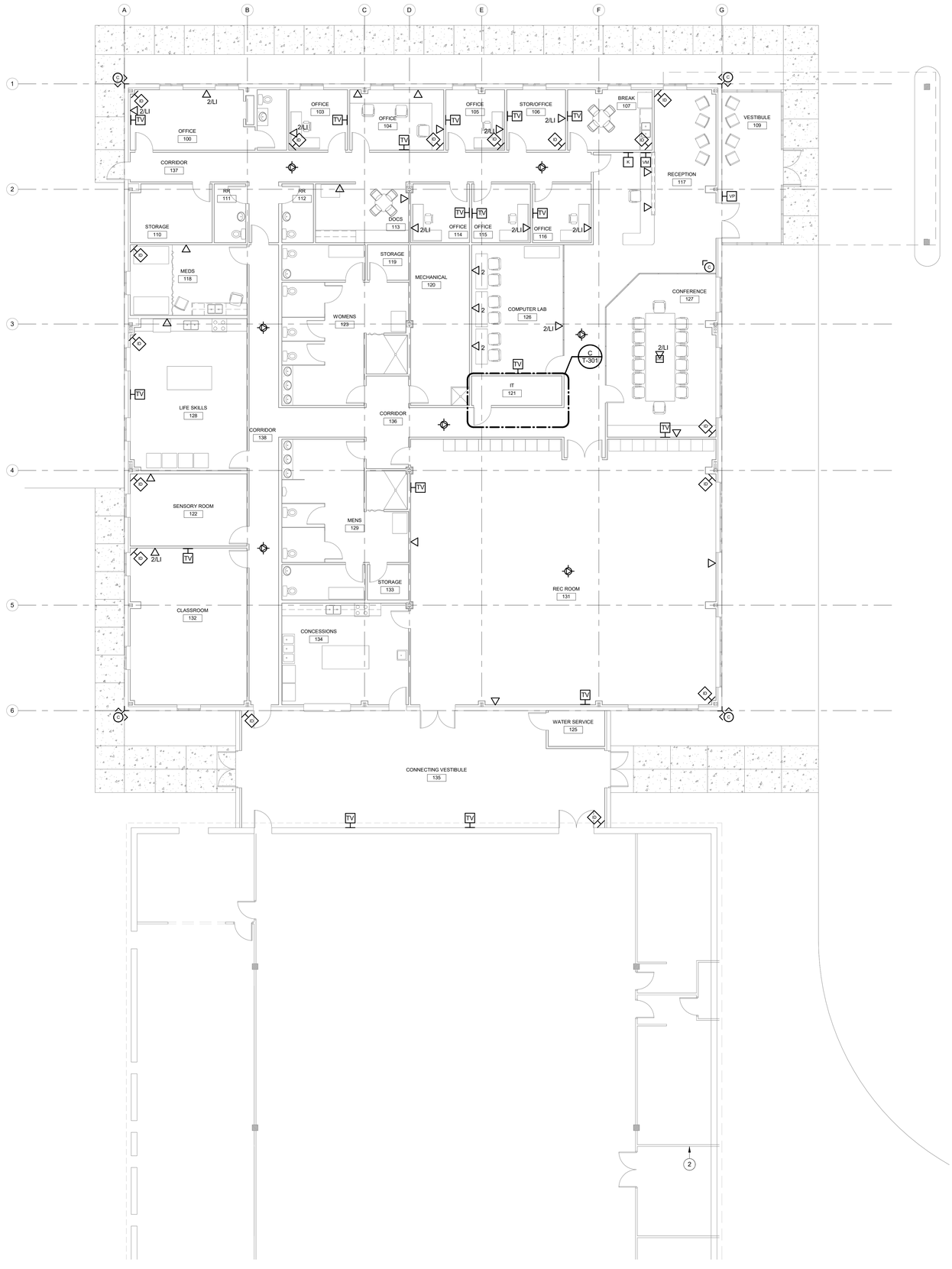
SHEET DESCRIPTION:

SITE PLAN - TELECOM.

SHEET NUMBER:

T-100

PRINTED ON: 8/23/2024 12:43:00 PM



RENOVATION LEGEND:

WORK TO BE INSTALLED

WORK TO REMAIN

GENERAL NOTES:

1. REFER TO DRAWING T001 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES:

1. EXISTING TELECOM AND SECURITY ENTRANCE FACILITY AND NETWORK EQUIPMENT TO REMAIN.
2. EXISTING DSC 832 CONTROL PANEL IS LOCATED APPROXIMATELY HERE. PROVIDE CABLING AND COMPLETE INTEGRATION WITH NEW IDS CONTROL PANEL LOCATED IN IT 121.

FIRST FLOOR PLAN - TELECOM

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

NORTH

0 2 4 6 8 16 24 32

1 2 3 4

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BICSI ID # 101926
EXPIRES 12-31-27
RCDD

08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:

HAPPINESS BAG
NEW FACILITIES

3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

N

DRAWN BY: VH	DESIGNED BY: JD
SCALE: REFER TO DRAWING	CHECKED BY: JD
DATE: 08/06/2024	JOB NO.: 24020

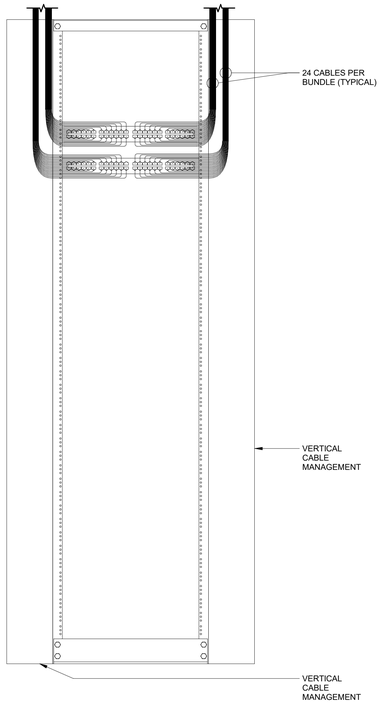
SHEET DESCRIPTION:

FIRST FLOOR PLAN - TELECOM.

SHEET NUMBER:

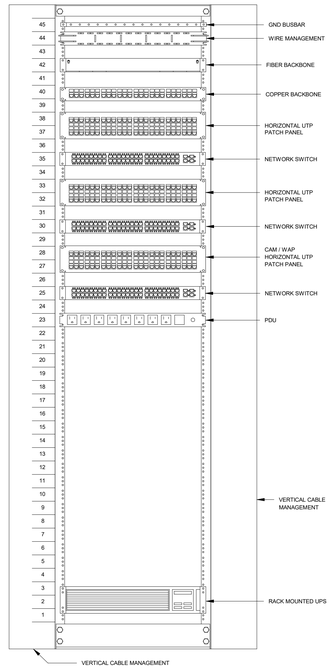
T-201

PRINTED ON: 8/23/2024 12:43:05 PM



B RACK WIRE ROUTING DIAGRAM (TYPICAL)

SCALE: NONE



A SINGLE RACK ELEVATION

SCALE: NONE

RENOVATION LEGEND:

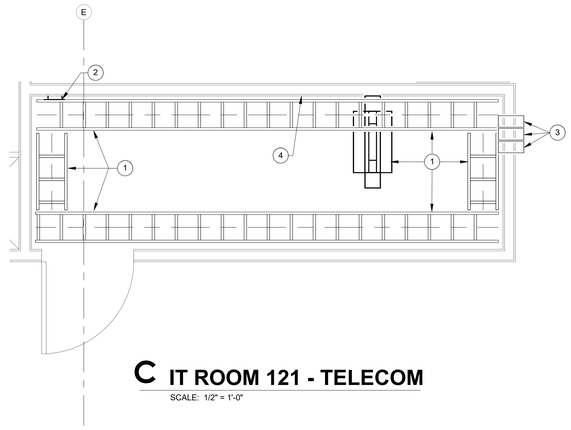
- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES:

1. REFER TO DRAWING T001 FOR ADDITIONAL GENERAL NOTES.

(#) PLAN NOTES - APPLIES TO THIS SHEET ONLY:

1. PROVIDE EQUIPMENT RACK AND LADDER RACK AS SPECIFIED. SEE DRAWING T-400 SERIES.
2. PROVIDE TELECOM BONDING BUSBAR AS SPECIFIED AT +18" AFF.
3. PROVIDE 4 INCH SLEEVED WALL PENETRATIONS ABOVE LADDER RACK FOR TELECOM CABLING.
4. LOCATE INTRUSION DETECTION CONTROL PANEL APPROXIMATELY HERE.



C IT ROOM 121 - TELECOM

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

D&A #24020

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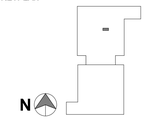
Bicsi
James A Darnell
BICSI ID # 101926
EXPIRES 12-31-27
RCDD
08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

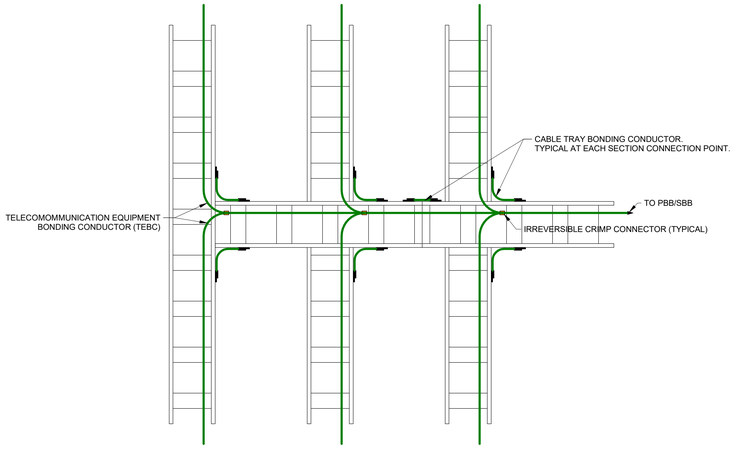


DRAWN BY:	DESIGNED BY:
VH	JD
SCALE: REFER TO DRAWING	**CHECKED BY:** JD
DATE: 08/06/2024	**JOB NO.:** 24020

SHEET DESCRIPTION:
ENLARGED PLANS - TELECOM.

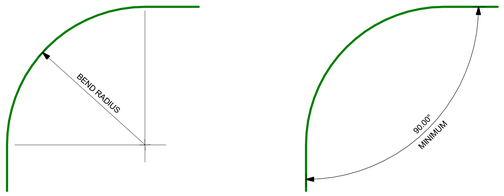
SHEET NUMBER:
T-301

PRINTED ON: 8/23/2024 12:43:09 PM



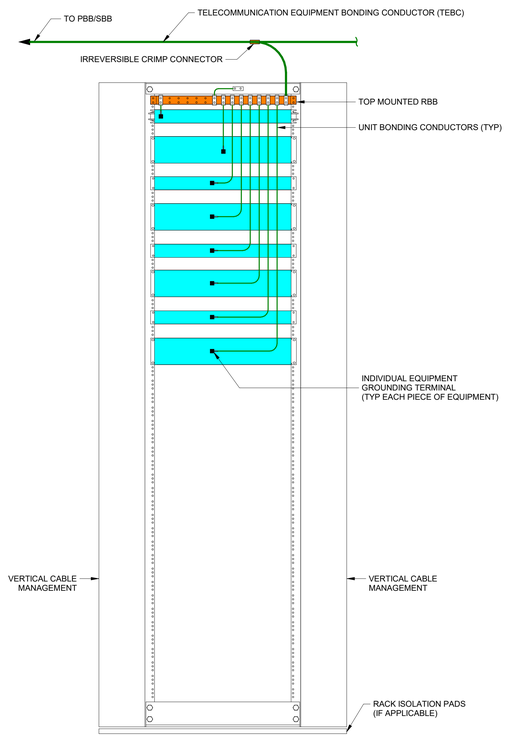
F TEBC ROUTED ON CABLE TRAY

SCALE: NONE



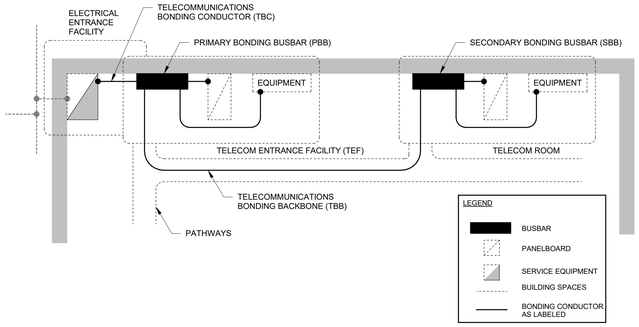
G ILLUSTRATION OF BEND RADIUS AND INCLUDED ANGLE

SCALE: NONE



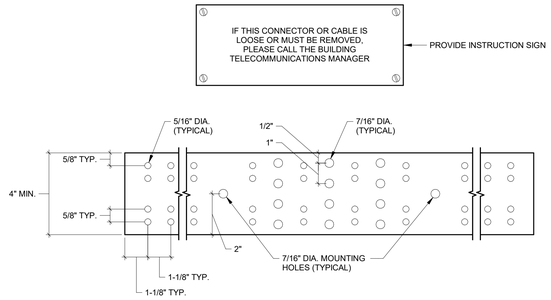
H RACK ELEVATION TELECOM GROUNDING

SCALE: NONE



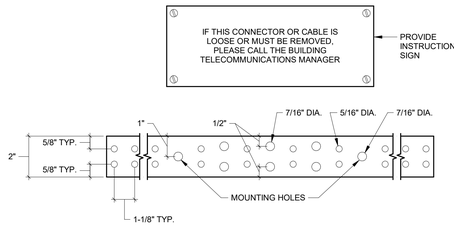
E ILLUSTRATIVE EXAMPLE OF A SINGLE-STORY LARGE BUILDING

SCALE: NONE



A TYPICAL PRIMARY BONDING BUSBAR (PBB)

SCALE: NONE



B TYPICAL SECONDARY BONDING BUSBAR (SBB)

SCALE: NONE

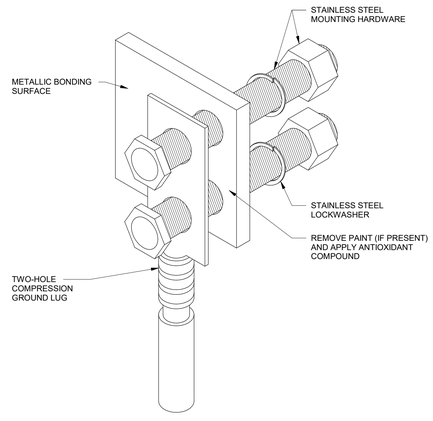
MAXIMUM TMGBB (PBB) TO TGBB (SBB) LENGTH (L) FEET (METERS)	CONDUCTOR CROSS-SECTIONAL AREA (MINIMUM)	
	NOMINAL AWG CONDUCTOR	NOMINAL INT'L CONDUCTOR (mm2)
L ≤ 13ft (4m)	6	16
14 < L ≤ 20ft (4 - 6m)	4	25
21 < L ≤ 26ft (6 - 8m)	3	35
26 < L ≤ 33ft (8 - 10m)	2	35
34 < L ≤ 41ft (10 - 13m)	1	50
42 < L ≤ 52ft (13 - 16m)	1/0	60
53 < L ≤ 66ft (16 - 20m)	2/0	70
67 < L ≤ 84ft (20 - 26m)	3/0	95
85 < L ≤ 105ft (26 - 32m)	4/0	120
106 < L ≤ 125ft (32 - 38m)	250 kcmil	150
126 < L ≤ 150ft (38 - 46m)	300 kcmil	150
151 < L ≤ 175ft (46 - 53m)	350 kcmil	185
176 < L ≤ 250ft (53 - 76m)	500 kcmil	250
251 < L ≤ 300ft (76 - 91m)	600 kcmil	300
GREATER THAN 301ft (91m)	750 kcmil	400

NOTES:

FOR LENGTHS IN EXCESS OF THOSE SHOWN ABOVE, CALCULATE THE CONDUCTOR CROSS-SECTIONAL AREA AS 2kcmil/ft or 3.3mm2/m

C BONDING CONDUCTOR CHART

SCALE: NONE



D LUG INSTALLATION CONFIGURATION

SCALE: NONE

TELECOM DETAIL NOTES:

1. START NOTES HERE:

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EXPIRES 12-31-27
RCDD
08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

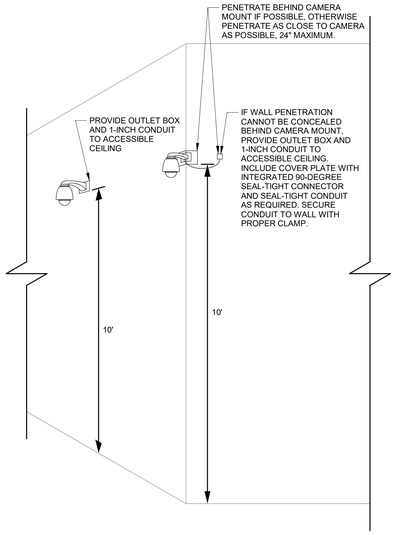
KEYPLAN

DRAWN BY: VH	DESIGNED BY: JD
SCALE: REFER TO DRAWING	CHECKED BY: JD
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:
DETAILS - TELECOM. BONDING AND GROUNDING

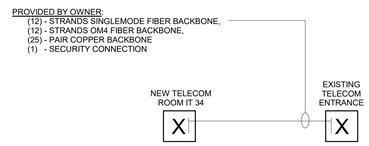
SHEET NUMBER:
T-401

PRINTED ON: 8/23/2024 12:43:15 PM



N TYPICAL EXTERIOR CAMERA MOUNTING DETAIL

SCALE: NONE

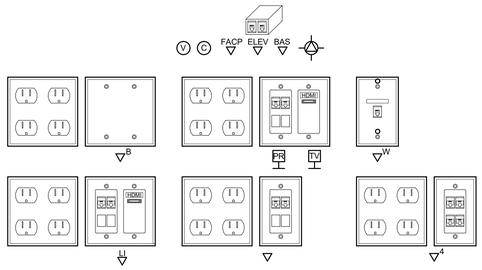


J TELECOMMUNICATIONS BACKBONE DIAGRAM

SCALE: NONE

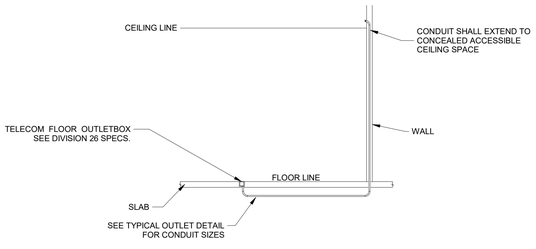
TELECOMMUNICATIONS OUTLET NOTES: (THIS DETAIL)

1. WHERE POWER / COMMUNICATIONS MULTI-COMPARTMENT SURFACE RACEWAY IS INSTALLED, SUBSTITUTE (2) 4 PORT JACK FRAMES AND STANDARD "ELECTRICAL OUTLET" FACEPLATE(S) IN PLACE OF THE DOUBLE GANG FACEPLATES SHOWN ON THIS DRAWING. PROVIDE ADDITIONAL FACEPLATES TO FULFILL THE OUTLET PORT REQUIREMENT. OUTLET LOCATIONS REQUIRING 4 OR FEWER PORTS PROVIDE A SINGLE 4 PORT JACK FRAME AND FACEPLATE.
2. WHERE CEILING-MOUNTED DEVICE IS LOCATED IN A SPACE WHERE NO ACCESSIBLE CONCEALED CEILING SPACE IS PRESENT, PROVIDE CONDUIT AND OUTLET BOX AS SPECIFIED TO SUPPORT DEVICE.



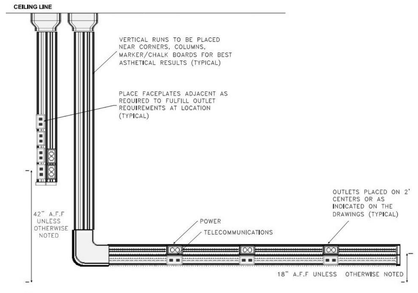
K FACEPLATE DETAILS

SCALE: NONE



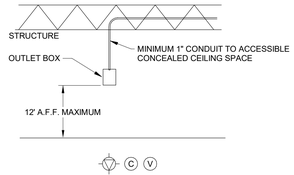
O TYPICAL TELECOM FLOOR BOX OUTLET

SCALE: NONE



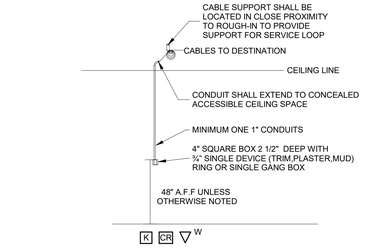
L TYPICAL SURFACE RACEWAY

SCALE: NONE



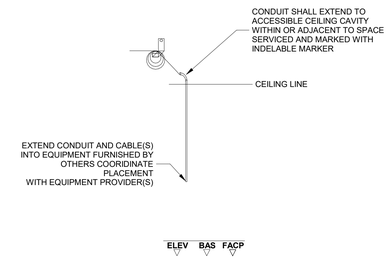
M TYPICAL OPEN CEILING MOUNTING

SCALE: NONE



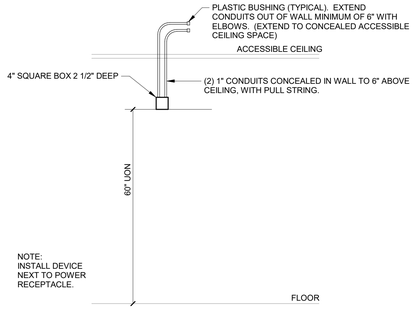
E TYPICAL WALL OUTLET DEVICE ROUGH-IN

SCALE: NONE



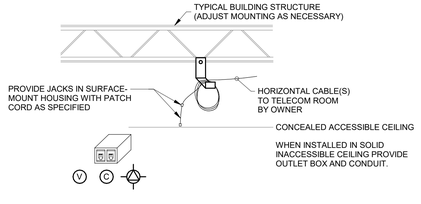
F TYPICAL OUTLET DEVICE ROUGH-IN

SCALE: NONE



G TV OUTLET ROUGH-IN

SCALE: NONE

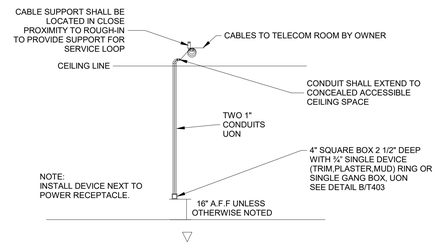


H TYPICAL CEILING MOUNTED ROUGH-IN (ACCESSIBLE CEILING)

SCALE: NONE

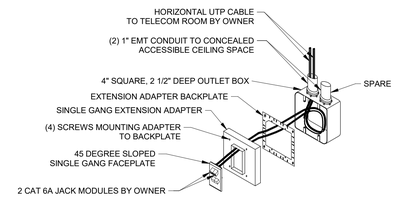
TELECOM DETAIL NOTES:

1. START NOTES HERE:



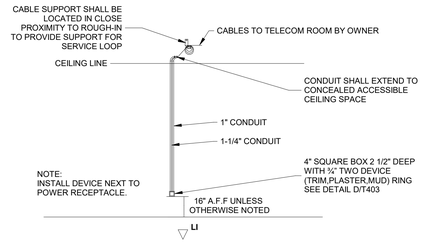
A TYPICAL OUTLET DEVICE ROUGH-IN

SCALE: NONE



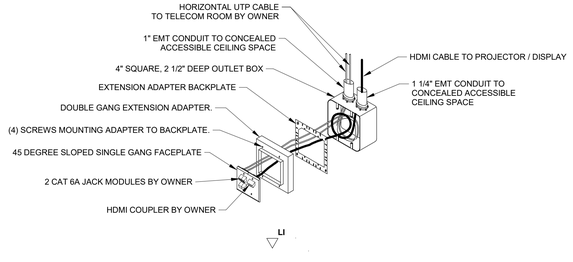
B TYPICAL TELECOM OUTLET BOX

SCALE: NONE



C TYPICAL LI OUTLET DEVICE ROUGH-IN

SCALE: NONE



D TYPICAL LI TELECOM OUTLET

SCALE: NONE

D&A #24020
R.E. Dimond and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

Happiness Bag, Inc.
Center for Adaptive Recreation and Education

CERTIFIED BY:
REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
James A Darnell
BICSI ID # 101926
EXPIRES 12-31-27
RCDD
08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

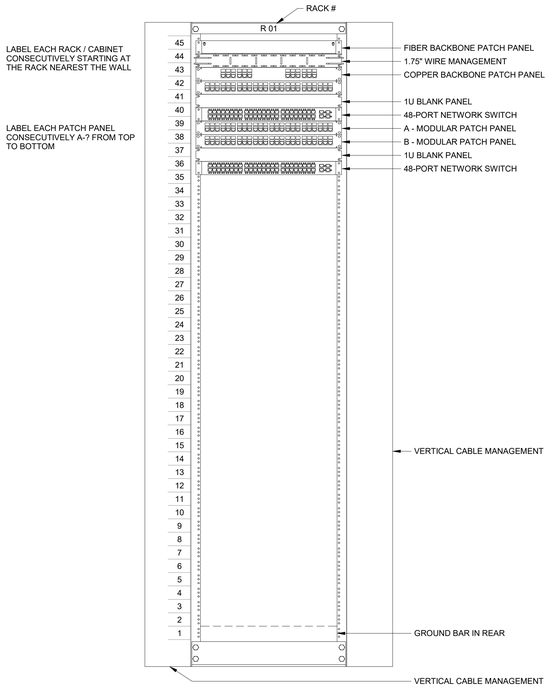
KEYPLAN

DRAWN BY: VH	DESIGNED BY: JD
SCALE: REFER TO DRAWING	CHECKED BY: JD
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:
DETAILS - TELECOM. BACKBONE AND ROUGH-INS

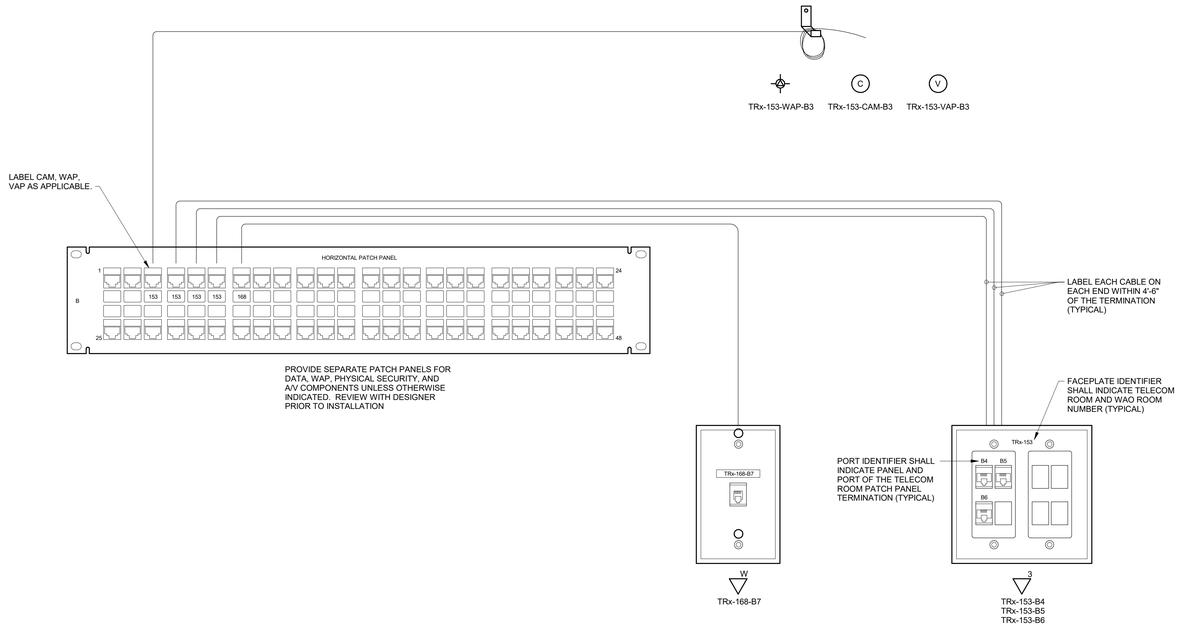
SHEET NUMBER:
T-402

PRINTED ON: 8/23/2024 12:43:20 PM



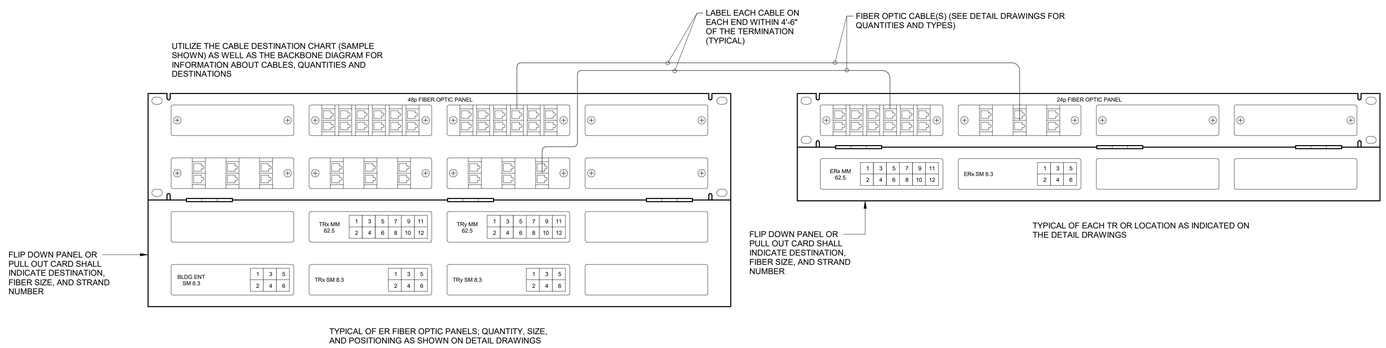
C ER/TR RACK/CABINET IDENTIFICATION

SCALE: NONE



A HORIZONTAL AND LOCAL INPUT TERMINATION AND LABELING

SCALE: NONE



TYPICAL OF ER FIBER OPTIC PANELS; QUANTITY, SIZE, AND POSITIONING AS SHOWN ON DETAIL DRAWINGS

B FIBER OPTIC BACKBONE TERMINATION AND LABELING

SCALE: NONE

TELECOM DETAIL NOTES:

1. START NOTES HERE:

D&A #24020
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Phone: (317) 634-4672
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EXPIRES 12-31-27
RCDD
08/23/2024

REVISIONS:

NO.	DESCRIPTION	DATE

PROJECT DESCRIPTION:
HAPPINESS BAG
NEW FACILITIES
3833 UNION RD
TERRE HAUTE, IN 47802

KEYPLAN

DRAWN BY: VH	DESIGNED BY: JD
SCALE: REFER TO DRAWING	CHECKED BY: JD
DATE: 08/06/2024	JOB NO.: 24020

SHEET DESCRIPTION:
IDENTIFICATION DETAILS - TELECOM.

SHEET NUMBER:
T-403

PRINTED ON: 8/23/2024 12:43:28 PM