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CHILDREN'S AREA ADDITION

138 E. MAIN STREET, BRADFORD, OH 45308

SHP

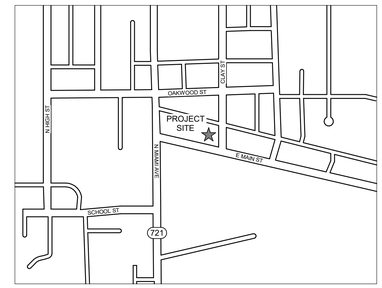
EARLY SITE PACKAGE

SHP - ARCHITECT
311 Elm Street, Suite 600, Cincinnati, OH 45202
PHONE: (513) 381-2112

SCHAEFER - STRUCTURAL ENGINEER
537 East Pete Rose Way, Suite 400, Cincinnati, OH 45202
PHONE: (513) 542-3300

SHP - PME ENGINEER
312 Elm Street, Suite 600, Cincinnati, OH 45202
PHONE: (513) 381-2112

THE KLEINGERS GROUP - CIVIL ENGINEER
6219 Centre Park Drive, West Chester, OH 45069
PHONE: (513) 779-7851



VICINITY MAP

SYMBOLS & LEGENDS

WORK POINT ELEVATION
DETAIL NUMBER / SHEET NUMBER WHERE SHOWN
INTERIOR ELEVATION NUMBER / SHEET NUMBER WHERE SHOWN
EXTERIOR ELEVATION NUMBER / SHEET NUMBER WHERE SHOWN
SECTION NUMBER / SHEET NUMBER WHERE SHOWN
SECTION NUMBER / SHEET NUMBER WHERE SHOWN
WINDOW TYPE (A, B, C, ETC.) OR LOUVER TYPE (L1, L2, L3, ETC.)
STOREFRONT TYPE (S1, S2, S3, ETC.) OR CURTAINWALL TYPE (C1, C2, C3, ETC.)
PARTITION TYPE
CONTROL JOINT (MASONRY)
CONTROL JOINT (GYPSUM BOARD)
EXPANSION JOINT
COLUMN CENTERLINE
KEYNOTE
VISUAL DISPLAY BOARD
TV SIZE AND MOUNTING HEIGHT
DOOR NUMBER
CORNER GUARD
PENCIL SHARPENER
SIGN
TOILET BATH ACCESSORY

BD	BOARD
BN	BULLNOSE
CFMF	COLD-FORMED METAL FRAMING
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
DEFS	DIRECT-APPLIED EXTERIOR FINISH SYSTEM
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
FE	FIRE EXTINGUISHER MOUNTED W/ WALL BRACKET
FEC	FIRE EXTINGUISHER IN CABINET
FT	FOOT OR FEET
GA	GAUGE
GYP BD	GYPSUM BOARD
HR	HOUR
HT	HEIGHT
LGMF	LIGHT GAUGE METAL FRAMING
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE HAND
R	RADIUS
RD	ROOF DRAIN
RO	ROUGH OPENING
SIM	SIMILAR
SRD	SECONDARY ROOF DRAIN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WD	WOOD

CMU
BRICK
CMU - SOLID
DRAINAGE FILL
CAST STONE
GROUT FILL
EARTH
GYPSUM BOARD
CONTINUOUS WOOD BLOCKING
RIGID INSULATION
BLANKET INSULATION
FINISH WOOD

SHEET INDEX

GENERAL

G001	TITLE SHEET

CIVIL

C100	GENERAL NOTES & DETAILS
C110	SURVEY BASEMAP
C111	EXISTING CONDITIONS
C120	DEMOLITION PLAN
C130	LOCATION PLAN
C140	UTILITY PLAN
C141	STORM PROFILES
C150	GRADING & EROSION CONTROL PLAN
C160	EROSION CONTROL NOTES
C161	EROSION CONTROL DETAILS

STRUCTURAL

S001	GENERAL NOTES
S003	SPECIAL INSPECTIONS
S101	FOUNDATION PLAN
S201	TYPICAL FOUNDATION DETAILS & SECTIONS

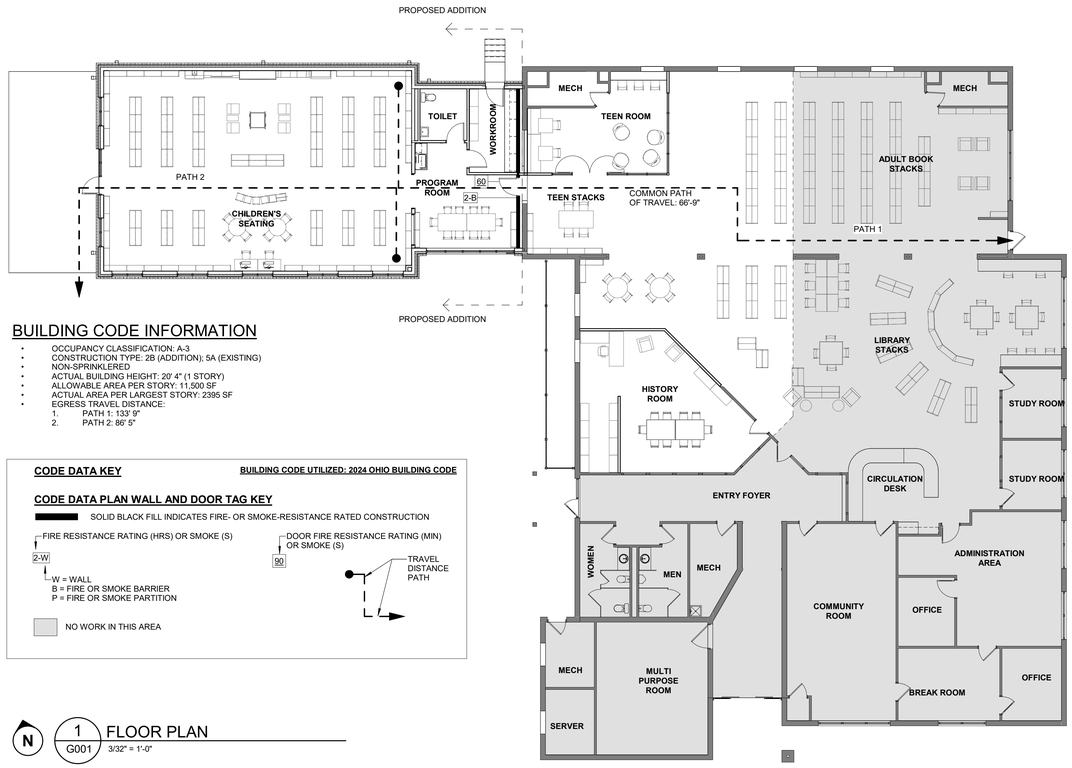
PLUMBING

P501	PLUMBING SITE PLAN

ELECTRICAL

E701	ELECTRICAL SITE PLAN

CODE PLAN



BUILDING CODE INFORMATION

- OCCUPANCY CLASSIFICATION: A-3
- CONSTRUCTION TYPE: 2B (ADDITION); 5A (EXISTING)
- NON-SPRINKLERED
- ACTUAL BUILDING HEIGHT: 20' 4" (1 STORY)
- ALLOWABLE AREA PER STORY: 11,500 SF
- ACTUAL AREA PER LARGEST STORY: 2395 SF
- EGRESS TRAVEL DISTANCE:
  1. PATH 1: 133' 9"
  2. PATH 2: 86' 5"

CODE DATA KEY — **BUILDING CODE UTILIZED: 2024 OHIO BUILDING CODE**

CODE DATA PLAN WALL AND DOOR TAG KEY

SOLID BLACK FILL INDICATES FIRE- OR SMOKE-RESISTANCE RATED CONSTRUCTION

FIRE RESISTANCE RATING (HRS) OR SMOKE (S) — 2-W
W = WALL
B = FIRE OR SMOKE BARRIER
P = FIRE OR SMOKE PARTITION

DOOR FIRE RESISTANCE RATING (MIN) OR SMOKE (S) — 90

TRAVEL DISTANCE PATH

NO WORK IN THIS AREA

N

1 / G001 FLOOR PLAN
3/32" = 1'-0"

0'-1" REFERENCE LINE

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STATE OF OHIO — Allison Emma McKenzie 0914857 — REGISTERED ARCHITECT
Allison Emma McKenzie, Lic# 0914857
Expiration Date 12/31/2027

SHP
311 ELM STREET, SUITE 600
CINCINNATI, OH 45202 513.381.2112

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ISSUANCES

1	08-25-26	DESIGN DEVELOPMENT
2	09-14-26	EARLY SITE PACKAGE

TITLE SHEET

COMM NO. 2026032.01

G001

C:\Users\rocallaghan\Documents_LFile\2026032.01 Bradford PL - Childrens Room Add and Reno_rocallaghan9DDVL.rvt
9/14/2026 6:06:42 PM

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GENERAL NOTES

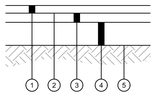
1. THE VILLAGE OF BRADFORD, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE VILLAGE OF BRADFORD REQUIREMENTS, THE VILLAGE OF BRADFORD REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (8-1-1 OR 1-800-362-2764) 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
3. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
4. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.
6. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR EXPENSES INCURRED DUE TO SOIL CONDITIONS, GROUNDWATER, AND/OR ROCK EXCAVATION, ALL OF THESE ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
7. THE COST OF ALL DEWATERING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
8. THE DIRECT OR INDIRECT DISCHARGE OR PUMPING OF UNFILTERED SEDIMENT-LADEN WATER INTO THE STORM DRAINAGE SYSTEM OR WATERCOURSE IS ILLEGAL AND PROHIBITED.
9. ANY WELL, WELL POINT, PIT, OR OTHER DEVICE INSTALLED FOR THE PURPOSE OF LOWERING THE GROUND WATER TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR IN ACCORDANCE WITH THE PROVISIONS OF THIS PLAN AS DIRECTED BY THE DIRECTOR OF PUBLIC UTILITIES OR HIS REPRESENTATIVE.
10. ANY CONTRACTOR INSTALLING ANY WELL, WELL POINT, PIT, OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUND WATER FROM AN AQUIFER SHALL COMPLETE AND FILE A WELL LOG AND DRILLING REPORT FORM WITH THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR), DIVISION OF WATER, WITHIN 30 DAYS OF THE WELL COMPLETION IN ACCORDANCE WITH THE OHIO REVISED CODE SECTION 1521.01 AND 1521.05 IN ADDITION, ANY SUCH FACILITY IS COMPLETED IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. FOR COPIES OF THE NECESSARY WELL LOG, DRILLING REPORT, OR REGISTRATION FORMS, PLEASE CONTACT: OHIO DEPARTMENT OF NATURAL RESOURCES, 2045 MORSE ROAD, COLUMBUS, OHIO 43229, 614-265-6576.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO THE ODNR FOR THE REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICE USED IN CONSTRUCTION OF THIS PROJECT.
12. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR FACE OF CURB, UNLESS OTHERWISE NOTED.
13. ALL SITE SIGNAGE, STRIPING COLOR AND WIDTH SHALL BE PER THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. ALL EXISTING PAVEMENTS, WALKS, CURBS, ETC. SHALL BE FULL DEPTH SAWCUT BEFORE REMOVAL, IF, DURING CONSTRUCTION, THE PAVEMENT, WALKWAY, CURB, ETC, IS DAMAGED BEYOND THE ORIGINAL SAWCUT, THE DAMAGED AREA SHALL BE RECUT TO NEAT LINES AS DIRECTED BY THE ENGINEER, PAYMENT FOR SAWCUTTING SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
15. THE CONTRACTOR SHALL FULL DEPTH SAWCUT EXISTING PAVEMENT TO PROVIDE A SMOOTH VERTICAL FULL DEPTH BUTT JOINT BETWEEN THE EXISTING PAVEMENT OR CURB AND THE PROPOSED PAVEMENT. CONTRACTOR SHALL LOCATE SOUND PAVEMENT EDGE AND CUT AND TRIM PAVEMENT TO A NEAT LINE, INCLUDE THE COST OF PAVEMENT REMOVAL AND DISPOSAL IN THE PRICE BID FOR THE PROJECT.

GRADING NOTES

1. CONTRACTOR TO REMOVE TREES AND CLEAR AREAS AS NECESSARY TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
2. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
3. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
4. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING & STRIPPING UNSUITABLE MATERIAL FROM PAD SITE. THEN PLACE & COMPACT BACKFILL MATERIAL AT GEOTECHNICAL ENGINEER'S AND ARCHITECT'S RECOMMENDATIONS. ALL BACKFILL MATERIAL MUST BE ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.
5. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK ON SITE BY IMPORTING/EXPORTING DIRT AS NECESSARY.
7. CONTRACTOR SHALL IMPLEMENT ALL SOIL AND EROSION CONTROL PRACTICES REQUIRED BY VILLAGE OF BRADFORD AND THE OHIO EPA.
8. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED, USE ODOT ITEM 659.
9. CONTRACTOR TO LAYOUT BUILDING BASED ON ARCHITECTURAL/FOUNDATION PLANS. SITE PLAN IS FOR CONCEPTUAL PURPOSES ONLY.

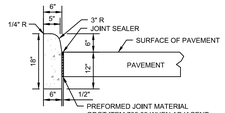
UTILITY NOTES

1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING, THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN. STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRATUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION, PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED, AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY.
6. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
7. ALL CATCH BASINS PLACED WITHIN THE PAVEMENT SHALL HAVE HEAVY DUTY FRAMES AND GRATES, CATCH BASINS WITHIN AN ACCESSIBLE ROUTE SHALL CONFORM TO ADA REQUIREMENTS.
8. ADJUST ALL EXISTING CASTINGS AND CLEANOUTS WITHIN PROJECT AREA TO GRADE AS REQUIRED.
9. ALL CATCH BASINS WITH DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS, STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
10. ALL STORM AND SANITARY SEWER MANHOLES WITH A DEPTH GREATER THAN 6' SHALL BE PROVIDED WITH STEPS. STEPS SHALL MEET THE REQUIREMENTS OF ODOT ITEM 611.
11. DISTANCES SHOWN FOR BOTH SANITARY AND STORM SEWER PIPES ARE MEASURED FROM CENTER OF STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR STORM AND SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
12. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AS BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.
13. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER. EROSION CONTROL MEASURES MUST PROVIDE PROTECTION UNTIL COMPLETION OF THE PROJECT AND VEGETATIVE STABILIZATION.
14. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTIONS ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
15. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
16. SITE CONTRACTOR SHALL PICK UP ALL UTILITIES, WITH THE EXCEPTION OF DOWNSPOUTS, 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER.
17. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.
18. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.43, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611, ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (N=0.013) OR LESS.
19. ALL CATCH BASINS IN THE PAVEMENT ARE TO HAVE 4, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED. ALL CATCH BASINS IN THE CURB ARE TO HAVE 2, 4" PERFORATED UNDERDRAINS EXTENDING 10 LF FROM THE CATCH BASIN IN THE UPHILL DIRECTION AND CAPPED.
20. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER. ALL ROOF DRAINS ARE TO BE 8" UNLESS OTHERWISE NOTED.
21. ALL YARD DRAINS SHALL BE ONE OF THE FOLLOWING: NYLOPLAST-ADS DRAIN BASIN, NDS DURACAST FABRICATED PVC CATCH BASIN, AGRI-DRAIN CATCH BASIN, OR APPROVED EQUAL.
22. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
23. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
24. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.

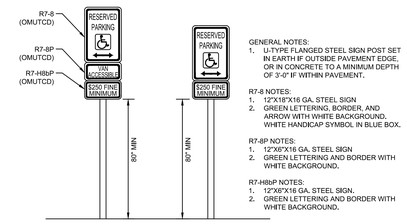


1. 1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2. ODOT ITEM 407 TACK COAT, APPLY IF TIME BETWEEN ASPHALT LIFTS EXCEEDS 30 DAYS
3. 2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. 8" ODOT ITEM 304 AGGREGATE BASE
5. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT

STANDARD DUTY ASPHALT PAVEMENT DETAIL
1 C100 N.T.S.



BARRIER CURB DETAIL
2 C100 N.T.S.



GENERAL NOTES:
1. U-TYPE FLANGED STEEL SIGN POST SET IN EARTH IF OUTSIDE PAVEMENT EDGE, OR IN CONCRETE TO A MINIMUM DEPTH OF 3'-0" IF WITHIN PAVEMENT.

R7-8 NOTES:
1. 12"X18"X16 GA. STEEL SIGN
2. GREEN LETTERING, BORDER, AND ARROW WITH WHITE BACKGROUND, WHITE HANDICAP SYMBOL IN BLUE BOX.

R7-8P NOTES:
1. 12"X9"X16 GA. STEEL SIGN
2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

R7-H8bP NOTES:
1. 12"X9"X16 GA. STEEL SIGN.
2. GREEN LETTERING AND BORDER WITH WHITE BACKGROUND.

NOTE:
1. ONE ACCESSIBLE PARKING SPACE FOR EVERY SIX OR FRACTION THERE OF SHALL BE DESIGNATED AS "VAN ACCESSIBLE". LOCATION AS NOTED ON THE DRAWINGS.
2. ONE SIGN TO BE INSTALLED AT EACH ACCESSIBLE PARKING SPACE

ACCESSIBLE PARKING SIGN DETAIL
3 C100 NTS

NOTES:

GENERAL

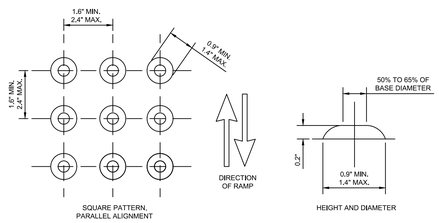
1. DETECTABLE WARNINGS ARE A DISTINCTIVE SURFACE PATTERN OF TRUNCATED DOMES WHICH ARE DETECTABLE BY CANE OR UNDERFOOT TO ALERT PEOPLE WITH VISION IMPAIRMENTS OF THEIR APPROACH TO STREETS AND HAZARDOUS DROP-OFFS.

PLACEMENT

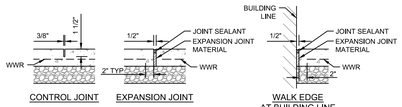
2. DETECTABLE WARNINGS ARE TO BE INSTALLED AT ANY LOCATION WHERE PEDESTRIANS MIGHT CROSS PATHS WITH VEHICULAR TRAFFIC LANES, SUCH AS THE BASE OF CURB RAMPS OR AT BLENDED CURBS. A 24" STRIP OF DOMES IS TO BE INSTALLED FOR THE FULL WIDTH OF THE RAMP OR WALK.
3. THE DEPTH OF CONCRETE UNDERNEATH DETECTABLE WARNING PRODUCTS SHALL BE A MINIMUM OF 4".

PRODUCTS & COLORS

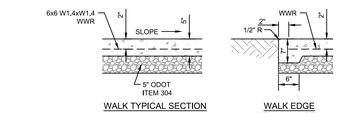
4. COLOR OF THE DETECTABLE WARNINGS SHOULD CONTRAST WITH SURROUNDING CONCRETE WALK AND RAMP. BLACK IS NOT AN ACCEPTABLE COLOR. APPROVED PRODUCTS AND GUIDANCE ON COLOR MAY BE FOUND ON THE ODOT OFFICE OF ROADWAY ENGINEERING SERVICE'S DETECTABLE WARNINGS APPROVED LIST. INSTALL PRODUCTS AS PER MANUFACTURER'S PRINTED INSTRUCTIONS.



DETECTABLE WARNINGS DETAIL
4 C100 N.T.S.



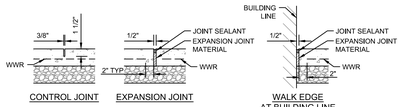
CONTROL JOINT EXPANSION JOINT WALK EDGE AT BUILDING LINE



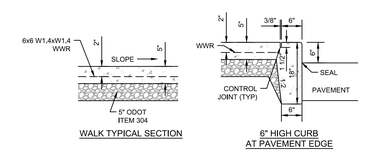
WALK TYPICAL SECTION WALK EDGE AT LAWN AREA

NOTES:
1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT, EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.
2. INSTALL CONTROL JOINTS AT 6' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND TOOLED, SAWED JOINTS ARE NOT PERMITTED.
3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

EXTERIOR CONCRETE SLAB WALK DETAIL
5 C100 N.T.S.



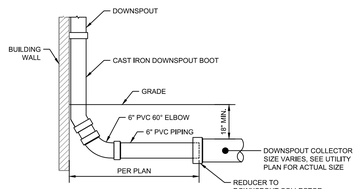
CONTROL JOINT EXPANSION JOINT WALK EDGE AT BUILDING LINE



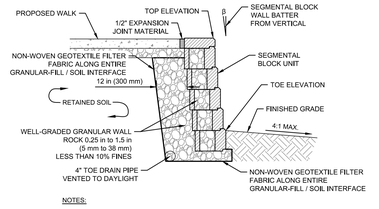
WALK TYPICAL SECTION 6" HIGH CURB AT PAVEMENT EDGE

NOTES:
1. INSTALL EXPANSION JOINTS AT 30' OC MAXIMUM AND WHERE SLAB ABUTS STRUCTURES, WHERE NEW WALK ABUTS ADJOINING WALK, SAWCUT EXISTING WALK TO NEAREST JOINT AND INSTALL EXPANSION JOINT, EXPANSION JOINTS SHALL BE 1/2" WIDE BY DEPTH OF SLAB. SEAL ALL EXPANSION JOINTS.
2. INSTALL CONTROL JOINTS AT 6' OC MAXIMUM. CONTROL JOINTS SHALL BE 3/8" WIDE BY 1 1/2" DEEP AND TOOLED, SAWED JOINTS ARE NOT PERMITTED.
3. WALK SHALL HAVE A MINIMUM CROSS SLOPE OF 1.00%, MAXIMUM CROSS SLOPE OF 2.00%.
4. WATER AND UTILITY BOXES IN THE WALK AREA SHALL BE ADJUSTED FLUSH WITH THE FINAL SURFACE.
5. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL AT ALL BUILDING DOORS.
6. JOINTING PLANS MUST BE SUBMITTED FOR APPROVAL.

EXTERIOR CONCRETE SLAB WALK WITH INTEGRAL CURB DETAIL
6 C100 N.T.S.

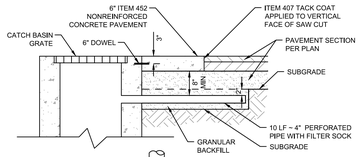


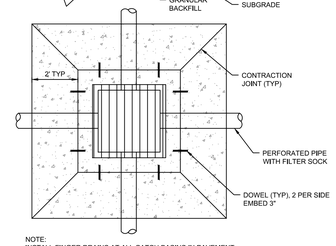
DOWNSPOUT BOOT DETAIL
7 C100 N.T.S.



NOTES:
1. SUBMIT SAMPLES OF WALL AND CAP UNITS FOR ARCHITECT'S APPROVAL.
2. CONSTRUCT FIELD MOCK-UP PRIOR TO INSTALLATION FOR ARCHITECT'S APPROVAL AS SPECIFIED.
3. CONSTRUCT WALLS PER MANUFACTURER'S SPECIFICATIONS.
4. SEE SHEET C150 FOR WALL GRADES.

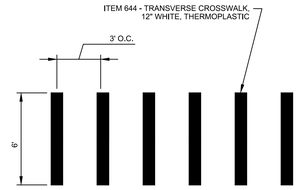
SEGMENTAL RETAINING WALL DETAIL
8 C100 N.T.S.





NOTE:
INSTALL FINGER DRAINS AT ALL CATCH BASINS IN PAVEMENT

FINGER DRAIN AND CATCH BASIN CONCRETE APRON DETAIL
9 C100 N.T.S.



CROSWALK DETAIL
10 C100 N.T.S.

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GENERAL NOTES & DETAILS

DATE 09-14-26

COMM NO. 2026032.01

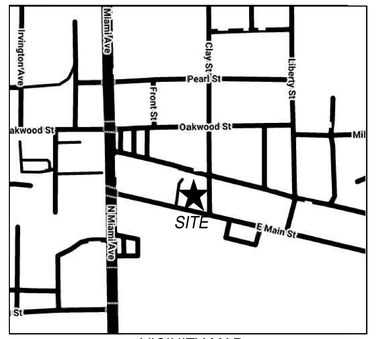
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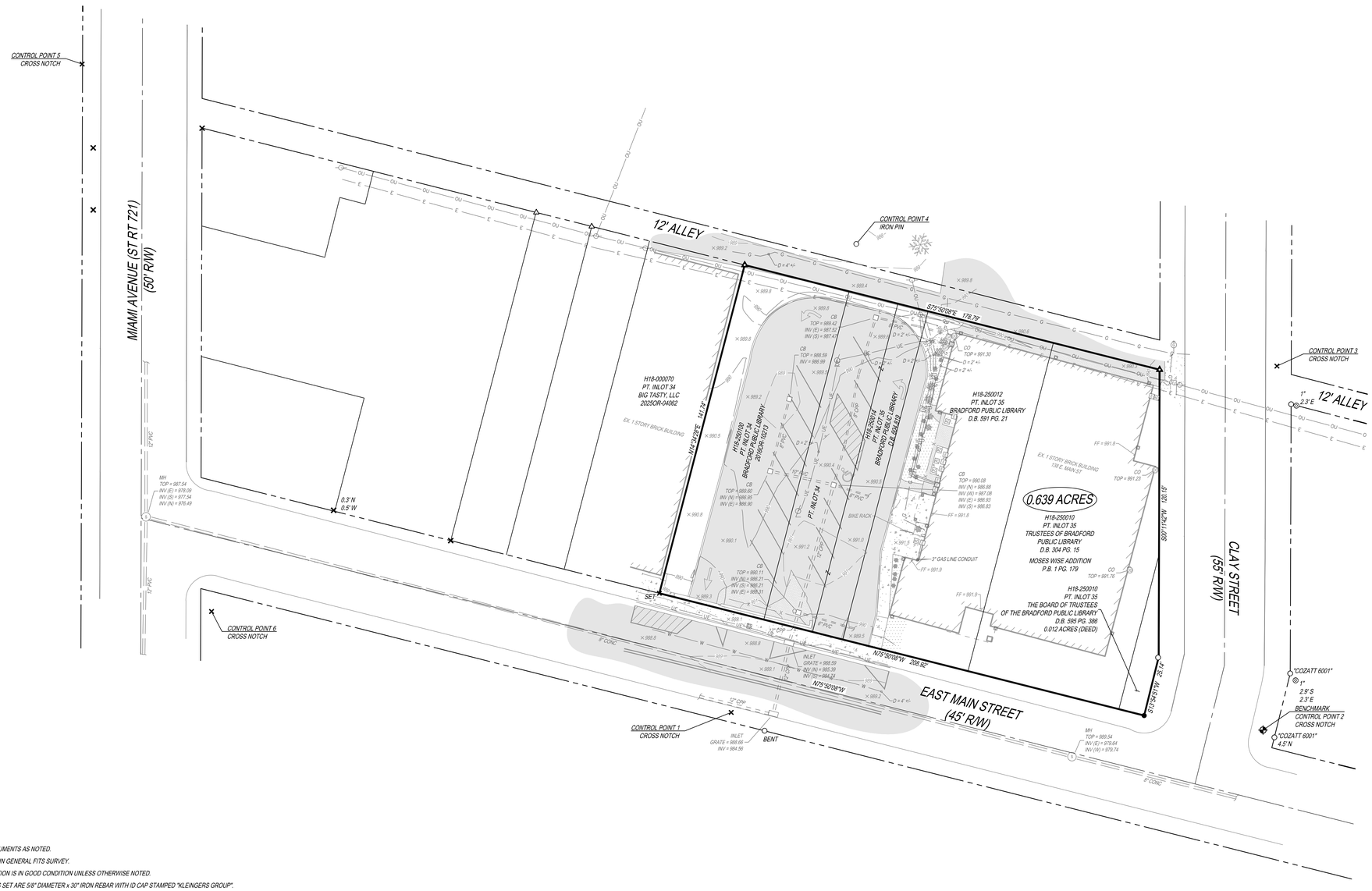
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SITE CONTROL			
POINT #	NORTHING	EASTING	DESCRIPTION
CONTROL POINT 1	782,312.02	1,428,850.00	TRAV CN
CONTROL POINT 3	782,456.76	1,429,078.04	TRAV CN
CONTROL POINT 4	782,507.82	1,428,902.27	TRAV IP
CONTROL POINT 5	782,582.98	1,428,578.84	TRAV CN
CONTROL POINT 6	782,354.22	1,428,632.89	TRAV CN

SITE CONTROL & BENCHMARK				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
CONTROL POINT 2	782,304.64	1,429,072.22	990.44	TRAV CN



VICINITY MAP
N.T.S



LEGEND:

- BENCHMARK
- 5/8" IRON PIN FOUND (UNLESS NOTED OTHERWISE)
- 5/8" IRON PIN SET (KLEINGERS GROUP)
- MAG NAIL FOUND
- MAG NAIL SET
- CROSS NOTCH FOUND (UNLESS NOTED OTHERWISE)
- IRON PIPE FOUND (SIZE AS NOTED)
- SANITARY MANHOLE
- CLEANOUT
- CATCH BASIN
- INLET
- DOWNSPOUT
- ELECTRIC BOX
- ELECTRIC METER
- A/C UNIT
- LIGHT POLE
- UTILITY POLE
- LAMP POST
- GAS METER
- GAS VALVE
- GUARD POST
- SINGLE POST SIGN
- HANDICAP
- FENCE LINE
- WATER LINE
- GAS LINE
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- OVERHEAD ELECTRIC
- OVERHEAD UTILITIES
- STORM SEWER
- SANITARY SEWER
- BUSH
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPE

NOTES:

1. SOURCE DOCUMENTS AS NOTED.
2. OCCUPATION IN GENERAL FITS SURVEY.
3. MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE NOTED.
4. ALL IRON PINS SET ARE 5/8" DIAMETER x 30" IRON REBAR WITH ID CAP STAMPED "KLEINGERS GROUP".
5. DISTANCE UNITS ARE BASED ON THE US SURVEY FOOT DEFINITION (1" = 1200/3937 METERS).
6. BEARINGS SHOWN HEREON ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, AND NORTH AMERICAN DATUM OF 1983 (2011) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATION "SIDN & OHDR" WITH A BEARING OF N75°50'08"W AS SHOWN ALONG THE CENTERLINE OF EAST MAIN STREET.
7. PROJECT COORDINATES ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM AND HAVE BEEN SCALED TO GROUND BY USING A PROJECT ADJUSTMENT FACTOR OF 1.000021164654 APPLIED AT A BASE POINT OF N: 782,304.64 E:1,429,072.22. GRID AND GROUND COORDINATES ARE IDENTICAL AT THE BASE POINT.
8. ALL ELEVATIONS ARE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AS ESTABLISHED FROM A GPS SURVEY ORIGINATING ON ODOT CORS STATIONS "SIDN & OHDR" USING GEOID CONUS 18.
9. SITE BENCHMARK AS SHOWN HEREON.
10. DEPTHS LISTED FOR ANY UTILITY LINES HEREON ARE APPROXIMATIONS ONLY AND MAY NOT REPRESENT ACTUAL DEPTHS OF LINES. DEPTHS WERE PROVIDED BY A PRIVATE UTILITY LOCATING COMPANY UTILIZING SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL C. THERE ARE MANY FACTORS THAT CAN COMPLICATE THE ACQUISITION OF THESE DEPTHS INCLUDING BUT NOT LIMITED TO SOIL TYPES, SOIL COMPACTION, EQUIPMENT USED TO PROVIDE DEPTHS, AND TYPE OF PIPE AND/OR UTILITY IN THE GROUND. FOR A MORE ACCURATE DEPTH OF ANY UTILITY LINES, IT MAY BE NECESSARY TO INCORPORATE SUBSURFACE UTILITY ENGINEERING QUALITY LEVEL A (EXPOSURE OF UTILITY LINES) VIA VACUUM EXCAVATION OR OTHER CONSTRUCTION MEANS. THE KLEINGERS GROUP MAKES NO GUARANTEES OF THESE DEPTHS LISTED HERE ON.

STATE OF OHIO
ADAM
IGEL
S-8952
REGISTERED
PROFESSIONAL SURVEYOR

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAT OF SURVEY WAS PREPARED UNDER MY DIRECTION AND IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE CHAPTER 4733-37 "MINIMUM STANDARDS FOR BOUNDARY SURVEYS". ALL MONUMENTATION HAS BEEN SET AS SHOWN.

Adam R Igel 9/10/2026

ADAM R. IGEL — DATE
OHIO PROFESSIONAL SURVEYOR NO. 8952

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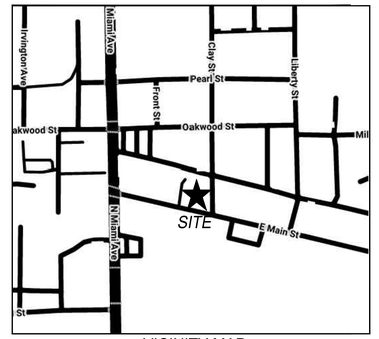
SURVEY BASEMAP

DATE 09-14-26

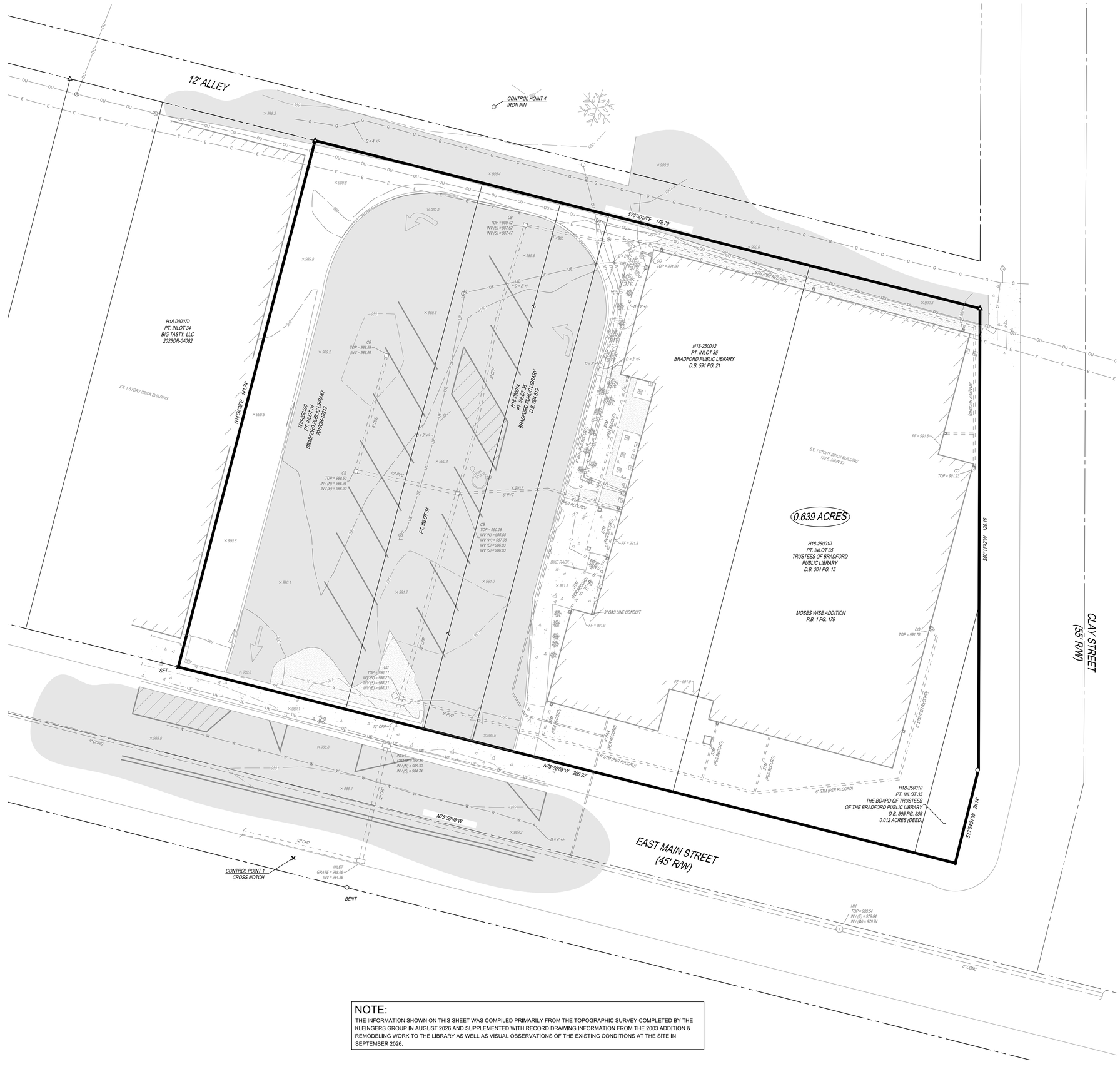
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VICINITY MAP
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LEGEND:

- BENCHMARK
- 5/8" IRON PIN FOUND (UNLESS NOTED OTHERWISE)
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- MAG NAIL SET
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- SANITARY SEWER
- BUSH
- ASPHALT
- CONCRETE
- GRAVEL
- LANDSCAPE

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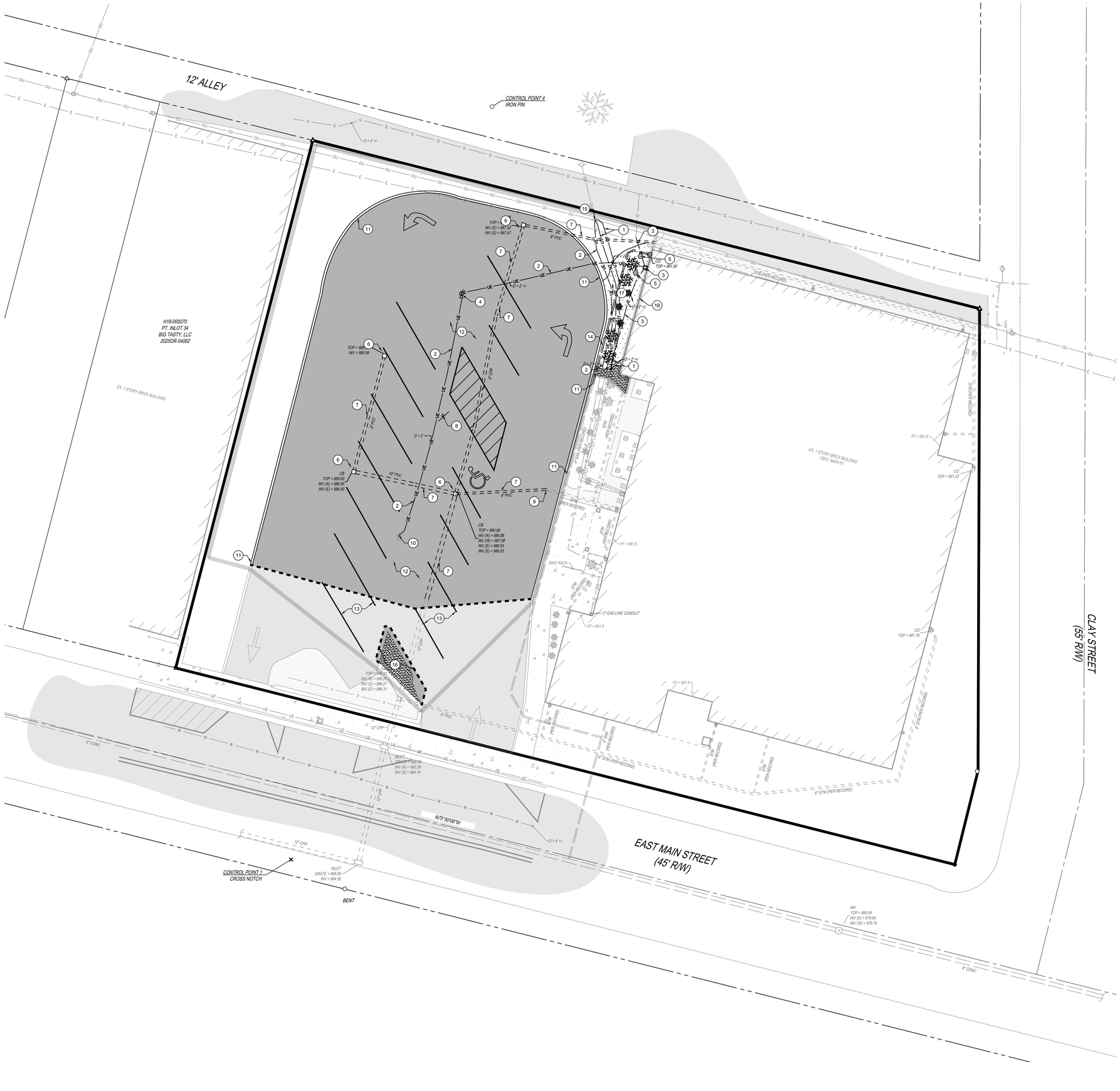
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DEMOLITION LEGEND

- REMOVE GRAVEL
- REMOVE LANDSCAPE BED
- REMOVE ASPHALT PAVEMENT
- SAWCUT LINE
- DEMOLITION LIMITS

DEMOLITION PLAN GENERAL NOTES

1. ALL BOLD ITEMS WITHIN THE DEMOLITION LIMITS TO BE REMOVED.

DEMOLITION PLAN KEY NOTES

1. REMOVE UNDERGROUND TELECOM LINES. REFER TO TECHNOLOGY PLANS FOR DETAILS.
2. REMOVE UNDERGROUND ELECTRIC LINES. REFER TO ELECTRIC PLANS FOR DETAILS.
3. REMOVE GAS LINE AND GAS METER. REFER TO MEP PLANS FOR DETAILS.
4. REMOVE LIGHT POLE
5. REMOVE BOLLARDS
6. REMOVE CATCH BASIN
7. REMOVE STORM PIPING
8. REMOVE SIGN
9. REMOVE 6" STORM PIPE TO EXTENTS INDICATED. REFER TO UTILITY PLAN FOR RECONNECTION TO PROPOSED STORM SYSTEM.
10. LIGHT POLE TO REMAIN, PROTECT DURING CONSTRUCTION.
11. REMOVE CURB TO EXTENTS INDICATED
12. SALVAGE (11) WHEEL STOPS FOR USE IN FINAL CONDITION
13. REMOVE STRIPING ON ASPHALT THAT IS TO REMAIN
14. REMOVE SANITARY TO EXTENTS INDICATED. REFER TO PLUMBING PLAN FOR DETAILS.
15. UTILITY POLE TO BE RELOCATED BY OTHERS
16. SAWCUT ASPHALT TO CREATE CLEAN EDGE AND REMOVE EXISTING GRAVEL FOR PROPOSED ASPHALT PAVEMENT WORK.
17. REMOVE LANDSCAPING NECESSARY FOR PROPOSED WORK
18. REFER TO ARCHITECTURAL DEMO PLAN FOR DEMOLITION WORK OF THE EXISTING BUILDING.

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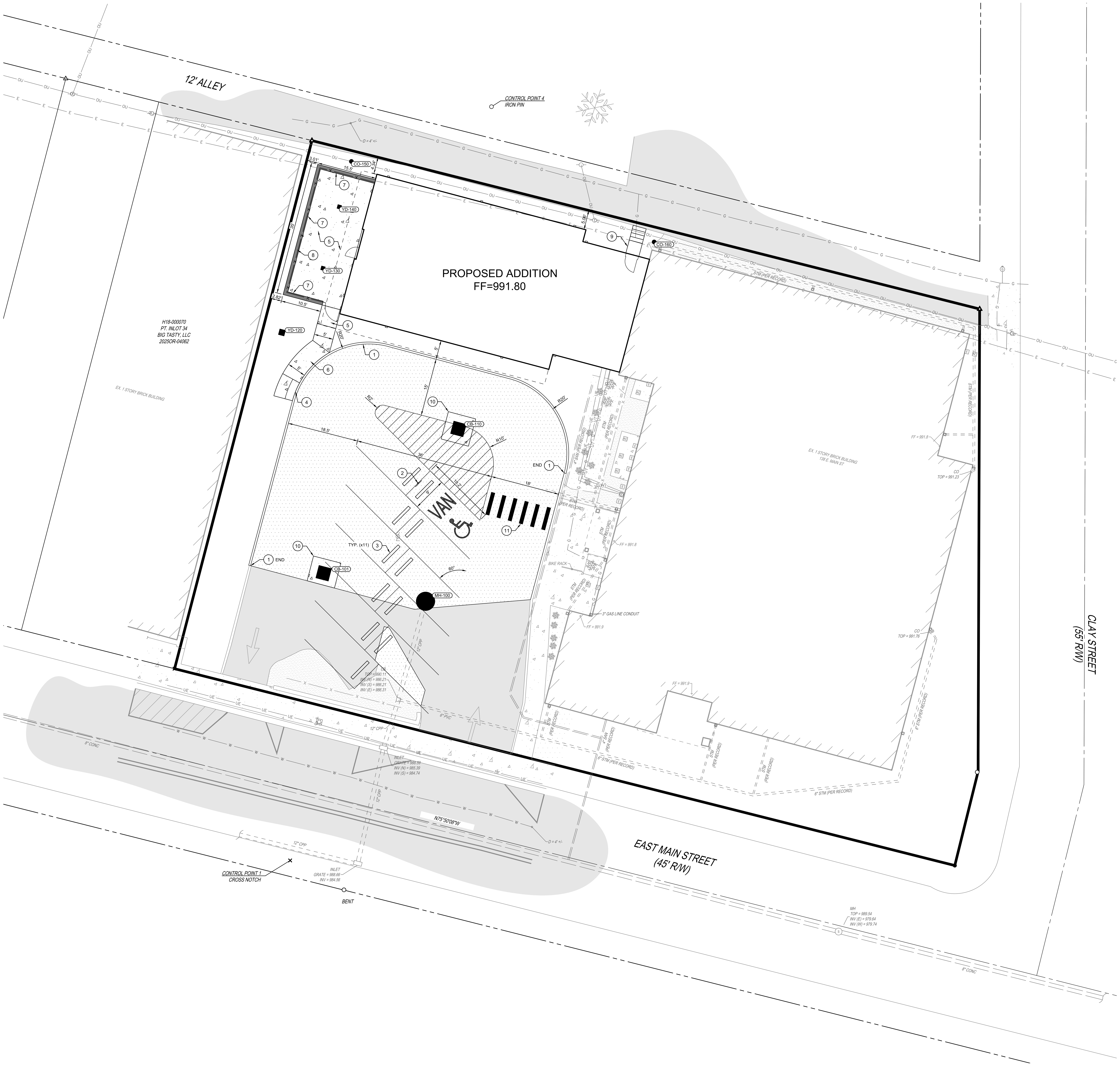
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DEMOLITION PLAN

DATE 09-14-26

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PROPOSED LEGEND

- CATCH BASIN
- CURB INLET
- YARD DRAIN
- HEADWALL
- MANHOLE
- STORM SEWER CLEANOUT
- DOWNSPOUT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- FIRE HYDRANT
- WATER VALVE
- POST INDICATOR VALVE
- FIRE DEPARTMENT CONNECTION
- STANDARD DUTY ASPHALT PAVEMENT, DETAIL 1/C100
- CONCRETE WALK, DETAILS 5-6/C100

LOCATION PLAN GENERAL NOTES

A. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT AND/OR BACK OF CURB UNLESS OTHERWISE NOTED

B. ALL STANDARD PARKING SPACES ARE TO BE 9'x18.2' ANGLED 60° UNLESS OTHERWISE NOTED

C. PARKING LOT STRIPING SHALL BE 4" WIDE HIGHWAY-TYPE APPLIED IN ACCORDANCE WITH THE PLAN

LOCATION PLAN KEY NOTES

1. BARRIER CURB PER DETAIL 2/C100
2. ACCESSIBLE PARKING SIGN PER DETAIL 3/C100
3. SALVAGED WHEEL STOPS
4. DETECTABLE WARNING PER DETAIL 4/C100
5. CONCRETE WALK PER DETAIL 5/C100
6. INTEGRAL CURB & WALK PER DETAIL 6/C100. RAMP SIDEWALK DOWN FROM 6" CURB REVEAL TO FLUSH. REFER TO GRADING PLAN FOR ELEVATIONS.
7. RETAINING WALL PER DETAIL 8/C100. REFER TO GRADING PLAN FOR ELEVATIONS.
8. FENCE/RAILING ALONG PERIMETER OF CONCRETE PATIO. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
9. EXTERIOR LANDING AND STEPS, REFER TO ARCHITECTURAL PLAN FOR DETAILS.
10. CATCH BASIN CONCRETE APRON PER DETAIL 9/C100
11. CROSSWALK PER DETAIL 10/C100

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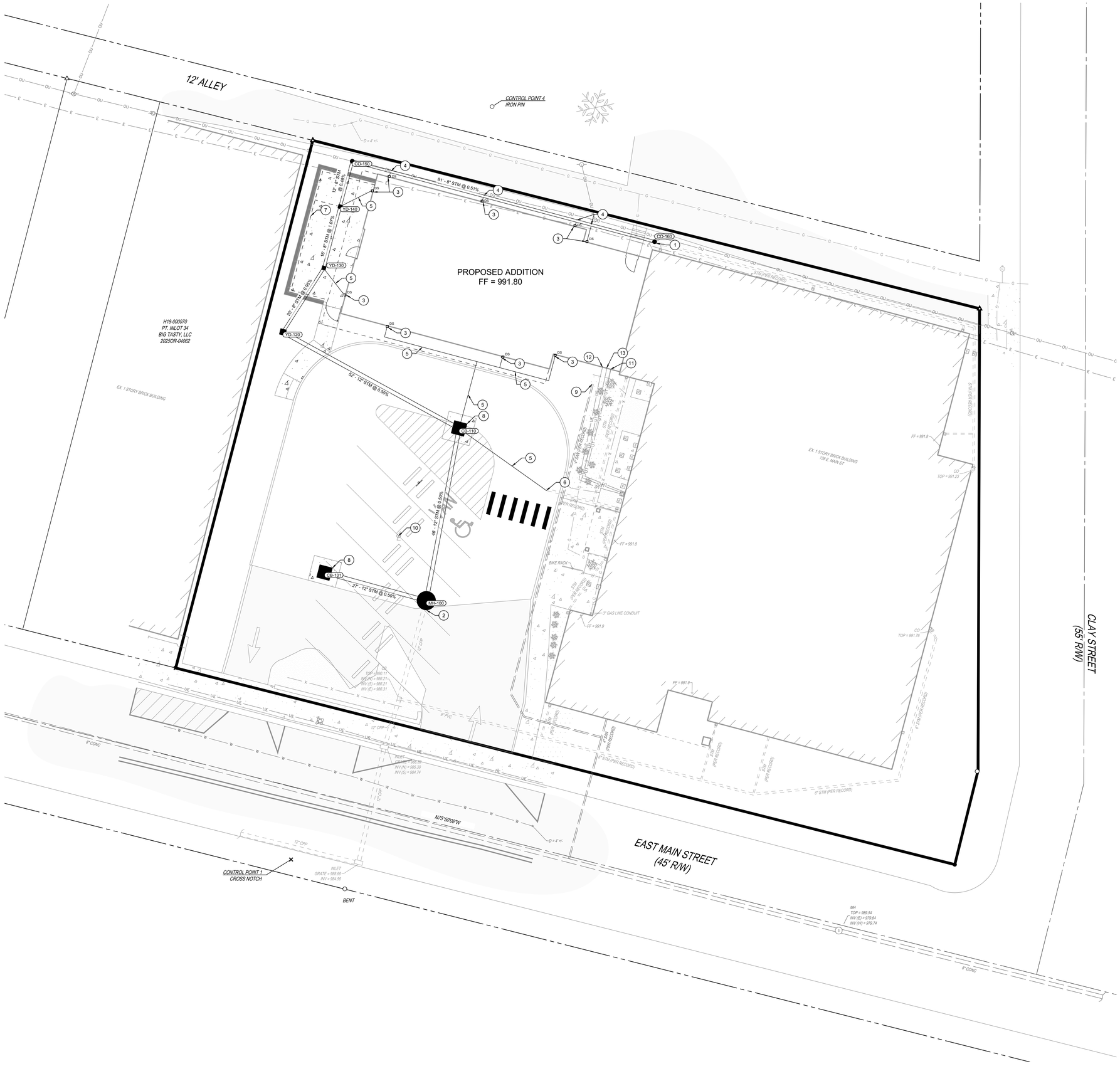
LOCATION PLAN

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UTILITY PLAN LEGEND

- STM — STORM SEWER PIPE
- 100 — CATCH BASIN
- 100 — YARD DRAIN
- 100 — MANHOLE
- DS — DOWNSPOUT

UTILITY PLAN KEY NOTES

1. CONNECT EXISTING DOWNSPOUT COLLECTOR TO PROPOSED DOWNSPOUT COLLECTOR PIPE.
2. CONNECT EXISTING STORM PIPE INTO NEW MANHOLE.
3. DOWNSPOUT BOOT PER DETAIL 7/C100
4. BLIND-TIE DOWNSPOUT INTO STORM PIPE
5. 8" DOWNSPOUT COLLECTOR, MINIMUM 18" COVER AND 1.0% SLOPE.
6. TIE EXISTING DOWNSPOUT COLLECTOR PIPE INTO PROPOSED COLLECTOR PIPE.
7. 4" WALL UNDERDRAIN PER DETAIL 8/C100 CONNECTING TO YARD DRAIN 140
8. FINGER DRAINS AND CATCH BASIN CONCRETE APRON PER DETAIL 9/C100
9. REFER TO PLUMBING PLAN FOR SANITARY CONNECTION TO PROPOSED ADDITION
10. REFER TO ELECTRIC PLAN FOR RE-FEEDING CONDUIT TO EXISTING LIGHT POLE
11. REFER TO PLUMBING PLAN FOR GAS CONNECTION TO PROPOSED ADDITION
12. REFER TO ELECTRIC PLAN FOR ELECTRIC CONDUIT CONNECTION TO PROPOSED ADDITION
13. REFER TO TECHNOLOGY PLAN FOR TELECOM CONDUIT CONNECTION TO PROPOSED ADDITION

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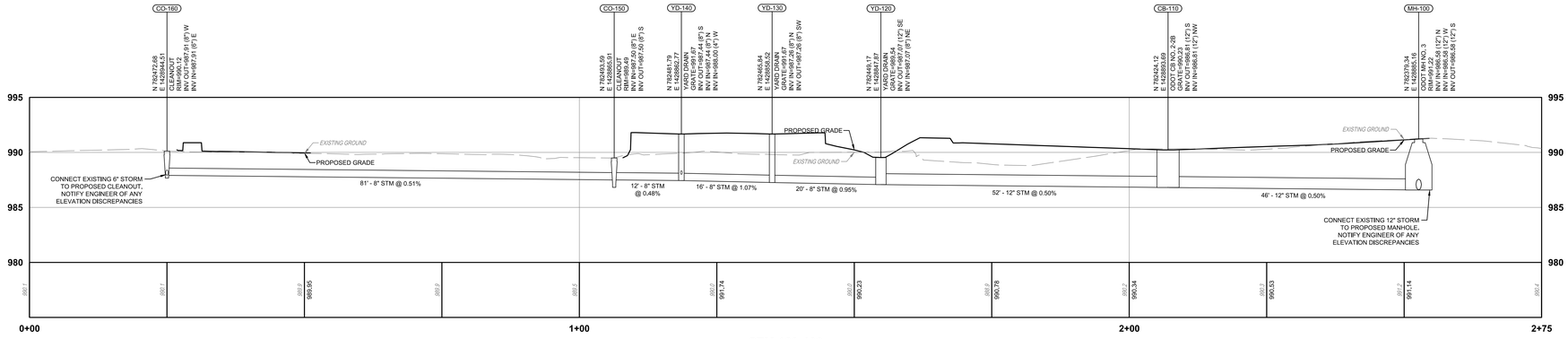
2"= REFERENCE LINE

UTILITY PLAN

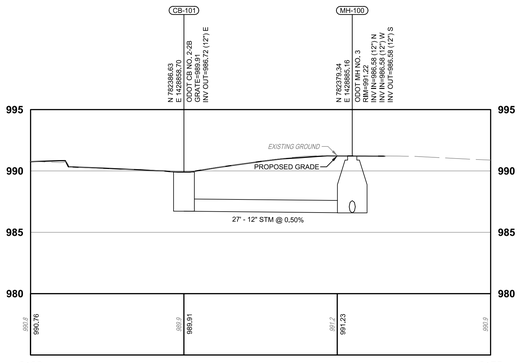
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STORM PROFILES

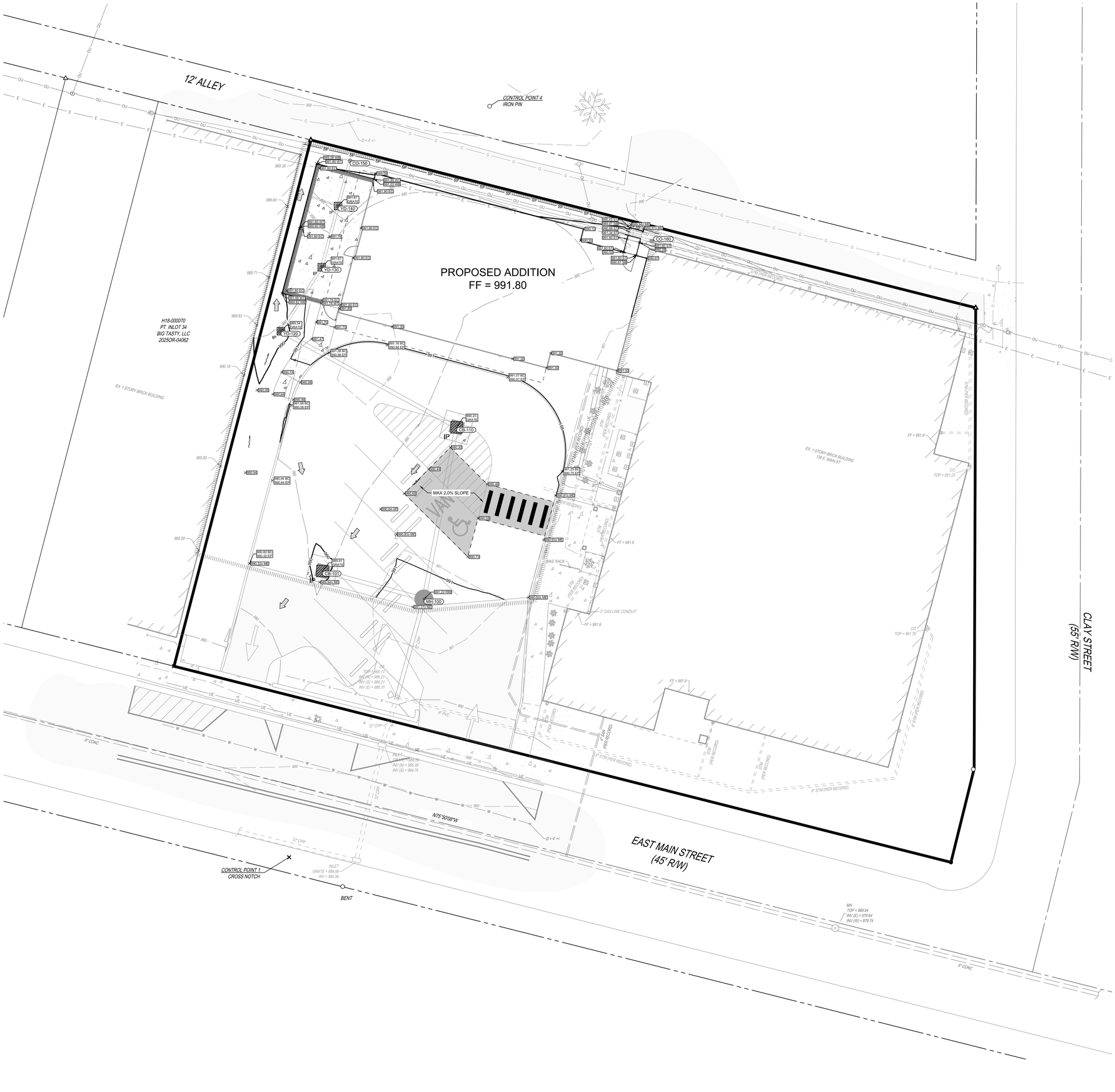
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GRADING LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED SWALE
- 100-YEAR FLOOD ROUTE

SPOT ELEVATION LEGEND

- FINISHED GRADE ELEVATION
- BACK OF CURB ELEVATION
- EDGE OF CONCRETE ELEVATION
- EDGE OF PAVEMENT ELEVATION
- EDGE OF GRAVEL ELEVATION
- BOTTOM OF STAIR ELEVATION
- TOP OF STAIR ELEVATION
- FINISHED GRADE AT WALL BOTTOM
- FINISHED GRADE AT WALL TOP
- MANHOLE / CLEANOUT RIM ELEVATION
- STORM INLET TOP OF CASTING ELEVATION
- CATCH BASIN GRATE ELEVATION

PROPOSED EROSION CONTROL LEGEND

- INLET PROTECTION, DETAIL 3/C100
- SILT FENCE, DETAIL 4/C100
- CONCRETE WASHOUT, DETAIL 1/C160
- CONSTRUCTION ENTRANCE, DETAIL 2/C100
- LIMITS OF DISTURBANCE

0 5 10 20

"1" REFERENCE LINE

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GRADING & EROSION CONTROL PLAN

DATE 09-14-26

COMM NO. 2026032.01

C150

PROJECT DATA

PROJECT DESCRIPTION
PROPOSED ADDITION AND RENOVATION TO THE EXISTING BRADFORD PUBLIC LIBRARY, INCLUDING SITE WORK RELATED TO THE PARKING LOT AND UTILITIES.

LATITUDE:	N 40.132420°
LONGITUDE:	W 84.429881°
ESTIMATED CONSTRUCTION DATES:	FALL 2026 - SPRING 2027
TOTAL SITE AREA:	0.639 ACRES
TOTAL DISTURBED AREA:	0.229 ACRES
EXISTING IMPERVIOUS AREA:	0.170 ACRES
PROPOSED IMPERVIOUS AREA:	0.177ACRES
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:	0.177 ACRES
INCREASE IN IMPERVIOUS AREA:	4%
PRE-CONSTRUCTION RUNOFF COEFFICIENT :	C=0.75
POST-CONSTRUCTION RUNOFF COEFFICIENT:	C=0.76
IMMEDIATE RECEIVING WATER/MS4:	BRADFORD STORM SEWERS
ULTIMATE RECEIVING STREAM:	BALLINGER RUN
EXISTING LAND USE:	BRADFORD PUBLIC LIBRARY
SOILS:	CrA - CROSBY SILT LOAM

CONSTRUCTION SEQUENCE

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

A) INSTALL EROSION CONTROL ITEMS.
B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.
C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION.
D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.
E) AS PIPE INSTALLATION PROGRESSES, REPAIR OF THE ROADWAY WILL PROCEED BEHIND IT.
F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION REGULATIONS INCLUDING:

1. SEEDING
2. DITCH MATTING
3. INLET PROTECTION
4. MULCHING
5. WATERING

EMERGENCY ACTION & SPILL PREVENTION PLAN

THE SCOPE OF WORK COVERED BY THIS PLAN INCLUDES EMERGENCY RESPONSE TO SPILLS, CONTAINMENT OF SPILLED LIQUIDS, EMERGENCY NOTIFICATION NUMBERS, AND SOIL EXCAVATION FOR SPILL CLEAN-UP.

IN THE EVENT OF A SPILL EVENT THE EMPLOYEE SHALL ASSESS THE SPILL AND IMMEDIATELY NOTIFY THE SAFETY OFFICER AND SUPERVISOR IN CHARGE, OR OTHER INDIVIDUALS AS LISTED BELOW.

TITLE	NAME	PHONE NUMBER
SITE SUPERINTENDENT		
PROJECT ENGINEER		

IMMEDIATELY AFTER NOTIFICATION, THE EMPLOYEE WILL BE DIRECTED BY THE SAFETY OFFICER, OR RESPONSIBLE PARTY TO START CONTAINMENT PROCEDURES TO PREVENT THE MATERIAL FROM REACHING THE STORM SEWERS, DRAINAGE DITCH, AND OTHER OUTLETS USING THE FOLLOWING ACTIONS OR ANY OTHER MEANS NECESSARY WITHOUT COMPROMISING WORKER SAFETY:

1) CLEAR PERSONNEL FROM THE SPILL AREA AND ROPE OFF AREA.
2) STOP THE SPILL.
3) USE SORBENT MATERIALS, PLUG PUTTY, OR HOLE PUTTY AS NECESSARY TO CONTROL THE SPILL AT THE SOURCE.
4) CONSTRUCT A TEMPORARY CONTAINMENT DIKE OF SORBENT MATERIALS OR DIRT TO CONTAIN SPILL.

SPILL KITS WILL BE LOCATED ON THE PROJECT AS DESIGNATED ON THE SWPPP PLAN.

UPON COMPLETION OF CONTAINMENT OPERATIONS, PROPER CLEAN-UP PROCEDURES WILL BE IMPLEMENTED IN ACCORDANCE WITH REGULATORY PROCEDURES.

IF THE SPILL EXCEEDS 25 GALLONS, THE FOLLOWING ORGANIZATIONS SHALL BE CONTACTED WITHIN 30 MINUTES OF THE INCIDENT:

EMERGENCY CONTACTS:

OHIO EPA EMERGENCY RESPONSE CENTER 800-282-9378 (24-HOUR PHONE NO.)

_____ _____

_____ _____

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH REVISIONS IN APRIL 2018 AND IN APRIL 2023. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS.

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OEPA "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000006. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

1) MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN.
2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
3) SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYNTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT WITH WATERS OF THE STATE.
4) WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

TEMPORARY SEEDING & MULCHING FOR EROSION CONTROL

SEED TYPE	PER 1,000 SQ FT	PER ACRE
PERENNIAL RYEGRASS PERENNIAL RYEGRASS ANNUAL RYEGRASS	1 POUND 1 POUND 1 POUND	40 POUNDS 40 POUNDS 40 POUNDS
SMALL GRAIN STRAW	90 POUNDS	2 TONS
FERTILIZER	6 POUNDS OF 10-10-10 OR 12-12-12	250 POUNDS OF 10-10-10 OR 12-12-12

NOTE: OTHER APPROVED SPECIES MAY BE SUBSTITUTED

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING			*	●	*	*	*	*	●	●		
DORMANT SEEDING	●	●	●							●	●	●
TEMPORARY SEEDING			●	●	●	*	*	*	●	●		
SODDING			**	**	**	**	**	**	**			
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●

* IRRIGATION NEEDED
** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY "QUALIFIED INSPECTION PERSONNEL" ASSIGNED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED, AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

1. THE INSPECTION DATE;
2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
3. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
6. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
7. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
8. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.07.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

1. VEGETATIVE COVER AND/MULCH - APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
2. WATERING - SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
3. SPRAY-ON ADHESIVES - APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE (GAL/AC)
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

SPILL PREVENTION

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO THE OHIO EPA'S HOTLINE.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDF).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE WASH WATER/WASH OUTS

CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.

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STATE OF OHIO
ADAM BERNARD STEPHENS
72970
PROFESSIONAL ENGINEER

SHP
312 PLUM STREET, SUITE 700
CINCINNATI, OH 45202 - 513.381.2112

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EROSION CONTROL NOTES

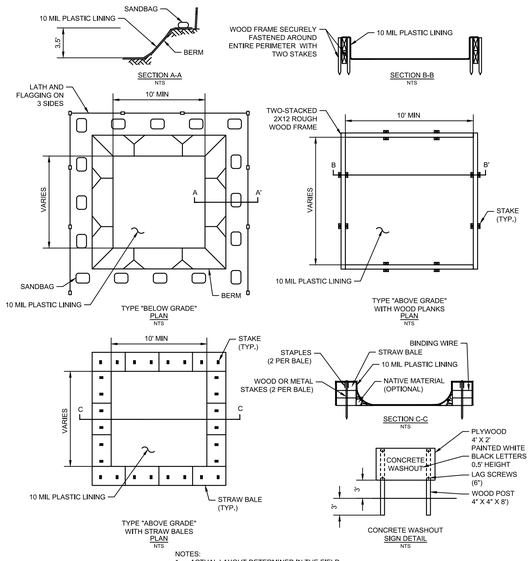
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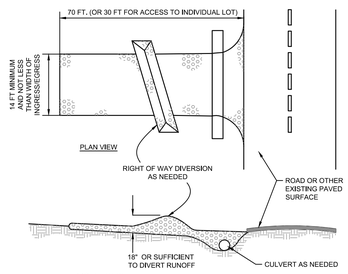
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NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

1 C161 CONCRETE WASHOUT DETAIL
N.T.S.



PROFILE VIEW

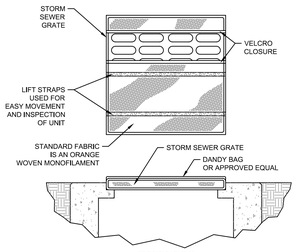
NOTES

1. STONE SIZE - ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH - THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE - A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE ARE PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	80 LBS
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM BURST STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS< 0.6MM
PERMITTIVITY	$1X10^{-7}$ CM/SEC

6. TIMING - THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEED ED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVE IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
11. REMOVAL - THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

2 C-161 CONSTRUCTION ENTRANCE DETAIL
N.T.S.



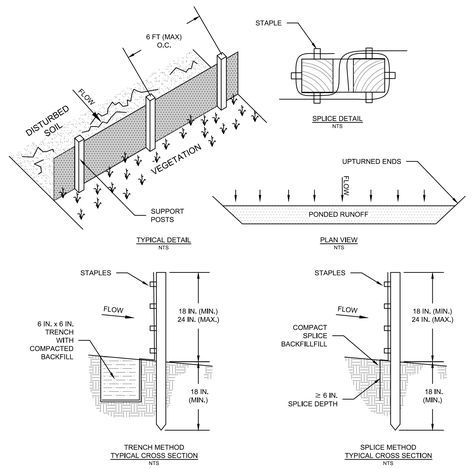
SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1,62 (365) X 0,89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0,40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0,51 (115) X 0,33 (75)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0,425 (40)
FLOW RATE	ASTM D 4491	l/MIN/M²(GAL/MIN/FT²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC⁻¹	2,1

INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END, IF USING OPTIONAL OIL ABSORBENTS: PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT, ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE, HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE). PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS: REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

3 C161 DANDY BAG DETAIL
N.T.S.



SCOPE

FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR CONSTRUCTING SILT FENCE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND THESE SPECIFICATIONS. SILT FENCE SHALL BE INSTALLED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

MATERIALS

1. SUPPORT POSTS SHALL BE 2-INCH BY 2-INCH WOOD POSTS OF SOUND QUALITY OR EQUIVALENT.
2. GEOTEXTILE FABRIC SHALL MEET THE MINIMUM CRITERIA LISTED IN TABLE BELOW:

FABRIC PROPERTIES	VALUES	TEST METHOD
PERMITTIVITY	≥ 0.05 SEC⁻¹	ASTM D 4491
APPARENT OPENING SIZE	<0.6 MM (30 SIEVE)	ASTM D 4751
MINIMUM GRAB TENSILE STRENGTH	90 LB.	ASTM D 4632
MINIMUM TEAR STRENGTH	60 LB.	ASTM D 4533
MINIMUM PUNCTURE STRENGTH	325 LB.	ASTM D 6241
UV STABILITY	70% AFTER 500 HRS	ASTM D 4355

INSTALLATION

1. THE ABOVE-GROUND HEIGHT OF THE SILT FENCE SHOULD BE 18 INCHES, BUT NO MORE THAN 24 INCHES. A HIGHER SILT FENCE MAY NOT WITHSTAND THE WEIGHT OF WATER AND SEDIMENT BEHIND IT AND IS NOT RECOMMENDED.
2. SUPPORT POSTS SHALL BE PLACED ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AT A MAXIMUM SPACING OF 6 FEET (10 FEET FOR WIRE-SUPPORTED SILT FENCE) AND DRIVEN A MINIMUM OF 18 INCHES INTO THE SOIL OR ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE SILT FENCE WHERE BEDROCK OR BURIED UTILITIES PREVENT AN 18-INCH GROUND PENETRATION.
3. FASTEN THE GEOTEXTILE TO THE UPSLOPE SIDE OF POSTS WITH A MINIMUM OF FOUR STAPLES PER POST, SUCH THAT IT REMAINS SECURE AND TAUT BUT DOES NOT RIP.
4. THE BOTTOM 8 TO 12 INCHES OF GEOTEXTILE SHALL BE BURIED IN A "J" CONFIGURATION IN A TRENCH A MINIMUM OF 6 INCHES WIDE AND 6 INCHES DEEP OR SLICED 8 TO 12 INCHES DEEP. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. COMPACT SOIL ON BOTH SIDES OF THE FABRIC, OFFSETTING THE TRENCH 6 INCHES UPSTREAM FROM THE SILT FENCE IS RECOMMENDED TO IMPROVE THE STABILITY OF THE SUPPORT STAKES.
5. INSTALL SILT FENCE IN CONTINUOUS SEGMENTS WITH UPTURNED ENDS. WHERE NECESSARY, SPLICES SHALL BE MADE BY OVERLAPPING GEOTEXTILE MATERIALS AROUND SUPPORT POSTS TO PROVIDE A SECURE AND SEAMLESS JOINT.

MAINTENANCE AND REMOVAL

1. INSPECT SILT FENCE AFTER EACH 0.50-INCH OR GREATER RAIN EVENT AND AT LEAST DAILY DURING MULTI-DAY RAIN EVENTS. INSPECTIONS DURING RAIN EVENTS WILL AID IN EVALUATING PERFORMANCE. IF BYPASS OCCURS DURING 0.50 INCHES OF RAIN OR LESS, CHANGE THE LAYOUT OR REPLACE THE SILT FENCE WITH A SEDIMENT TRAP AS NECESSARY.
2. SILT FENCE THAT DOES NOT DEWATER IN 48 HOURS OR LESS IS CLOGGED AND NEEDS TO BE REPLACED.
3. REMOVE SEDIMENT WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE. IF SEDIMENT ACCUMULATES BEYOND THIS LEVEL, THE FABRIC WILL LIKELY BE CLOGGED AND NEED TO BE REPLACED.
4. REPAIR DAMAGED SILT FENCE UPON DISCOVERY.

4 C-161 SILT FENCE DETAIL
N.T.S.

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STATE OF OHIO
ADAM BERNARD PAUL
7/29/2026
REGISTERED PROFESSIONAL ENGINEER

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DATE 09-14-26

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GOVERNING CODE

2024 OHIO BUILDING CODE (REFERENCES IBC 2021 ASCE 7-16)

DESIGN LOADS

1. CFS TRUSS FRAMED ROOF LOAD.

A.	MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD ((P_f OR P_m)	20 PSF*
B.	ROOF MEMBRANE & INSULATION	3 PSF
D.	METAL DECK	2 PSF
E.	JOIST FRAMING LOAD	3 PSF
F.	CEILING	3 PSF
G.	SPRINKLERS	3 PSF
H.	DUCTS, LIGHTS, MISC. MECHANICAL	4 PSF
	TOTAL LOADS ON TRUSSES	38 PSF MIN

*FLAT ROOF SNOW LOAD, P_F = 14 PSF
GROUND SNOW, P_g = 20 PSF
SNOW LOAD IMPORTANCE FACTOR, I_S = 1.0
SNOW EXPOSURE FACTOR, C_e = 1.0
SNOW LOAD THERMAL FACTOR, C_t = 1.0
MINIMUM SNOW LOAD, P_m = 20 PSF

SEE SNOW DRIFT PLAN FOR DRIFT LOADS (P_d). SPECIFIED DRIFT LOADS (P_d) SHALL BE COMBINED WITH FLAT ROOF SNOW LOAD (P_f) OR SLOPED ROOF SNOW LOAD (P_s) FOR TOTAL SNOW LOADING AT DRIFT CONDITIONS

2. WIND LOAD (PER ASCE 7):

   A. BASIC DESIGN WIND SPEED, V= 107 MPH
   B. ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} = 83 MPH
   C. RISK CATEGORY = II
   D. WIND EXPOSURE = C (ALL WIND DIRECTIONS)
   E. INTERNAL PRESSURE COEFFICIENT, GCpi = +0.18, -0.18
   F. DESIGN PRESSURES FOR EXTERIOR COMPONENT AND CLADDING ITEMS NOT SPECIFICALLY DESIGNED BY THE ENGINEER OF RECORD: SEE TYPICAL COMPONENT AND CLADDING WIND PRESSURE TABLE SPECIALTY ENGINEER SHALL DETERMINE WIND LOADS UNDER GOVERNING BUILDING CODE, AND BASED ON WIND LOAD PARAMETERS DEFINED ABOVE.

3. SEISMIC LOAD

A.	SEISMIC RISK CATEGORY	= II
B.	SEISMIC IMPORTANCE FACTOR, I_e	= 1.0
C.	MAPPED SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIOD, S_S	= 0.214
D.	MAPPED SPECTRAL RESPONSE ACCELERATION FACTOR AT 1 SECOND PERIOD, S_1	= 0.075
E.	SITE CLASS	= D
F.	DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIODS, S_{DS}	= 0.228
G.	DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT 1 SECOND PERIOD, S_{D1}	= 0.119
H.	SEISMIC DESIGN CATEGORY	= B
I.	BASIC SEISMIC FORCE RESISTING SYSTEM	= LIGHT FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING.
J.	RESPONSE MODIFICATION COEFFICIENT, R	= 4
K.	SEISMIC RESPONSE COEFFICIENT, C_S	= 0.057
L.	DESIGN BASE SHEAR	= 5.8 KIP
M.	ANALYSIS PROCEDURE USED	= ELFP

4. CONCENTRATED LOADS: 2000 POUNDS OVER 2.5 FEET SQUARE

5. SPECIAL LOADS:

   A. INTERIOR WALLS AND PARTITIONS THAT EXCEED 6 FEET IN HEIGHT: 5 PSF HORIZONTAL LIVE LOAD.

   B. HANDRAILS AND GUARDRAILS:
      i. TOP RAIL: 200 POUND CONCENTRATED LOAD AT ANY POINT IN ANY DIRECTION OR 5O PLF UNIFORM LOAD APPLIED IN ANY DIRECTION.
      ii. INTERMEDIATE RAILS, BALUSTERS, AND PANEL FILLERS: HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA NOT TO EXCEED 1 SQUARE FT., INCLUDING OPENINGS AND SPACE BETWEEN RAILS.

CONSTRUCTION AND SAFETY

1. DOMESTIC STEEL USE REQUIREMENTS AS SPECIFIED IN SECTION 153.011 OF THE REVISED CODE APPLY TO THIS PROJECT. COPIES OF SECTION 153.011 OF THE REVISED CODE CAN BE OBTAINED FROM ANY OF THE OFFICES OF THE OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES. THE FIRST SHEET OF STEEL SHOP DRAWINGS SHALL BEAR A SIGNED CERTIFICATION BY THE FABRICATOR INDICATING THAT NO FOREIGN STEEL IS BEING USED. THE FIRST SHEET OF STEEL SHOP DRAWINGS SHALL ALSO BEAR A SIGNED CERTIFICATION BY THE CONTRACTOR AND FABRICATOR INDICATING THAT NO FOREIGN STEEL IS BEING USED.

2. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.

3. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.

4. 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 IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS/HER OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

5. PRIOR TO COMMENCEMENT OF STEEL ERECTION, CONTRACTOR MUST PROVIDE THE STEEL ERECTOR WRITTEN NOTIFICATION THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION.

6. ANCHOR RODS AND FOUNDATION DOWELS SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

7. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCY BE FOUND, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF THE CONDITION.

8. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.

LATERAL LOAD RESISTING SYSTEM

1. THE LATERAL LOAD RESISTING SYSTEM CONSISTS OF THE FOLLOWING ELEMENTS:

   A. METAL ROOF DECK DIAPHRAGM THROUGHOUT

   B. LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING AROUND THE PERIMETER OF THE ADDITION.

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS DESCRIBED IN THE GEOTECHNICAL ENGINEER'S REPORT BY PSI INC, DATED SEPTEMBER 2, 2026. THE GEOTECHNICAL ENGINEER'S REPORT IS AVAILABLE UPON REQUEST.

   A. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 3500 PSF BELOW STRIP FOOTINGS AND 3500 PSF BELOW ISOLATED COLUMN FOOTINGS.

2. ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.

3. CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.

4. FILL MATERIALS: ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER, INCLUDING THE SUITABILITY OF ALL EXCAVATED ON-SITE SOILS FOR RE-USE. MATERIAL SHALL NOT BE PLACED ON FROZEN GROUND.

   A. CONTROLLED LOW STRENGTH MATERIAL (CLSM): SELF LEVELING AND SELF COMPACTING CEMENTITIOUS MATERIAL WITH AN UNCONFINED COMPRESSIVE STRENGTH BETWEEN 50 PSI] AND 150 PSI.

   B. WELL GRADED GRANULAR MATERIAL: WELL GRADED MIXTURE OF CRUSHED GRAVEL, CRUSHED STONE, AND SAND PER ASTM D2940 WITH AT LEAST 95 PERCENT PASSING A 1 ½" SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 SIEVE OR ODOT 304.

   C. FREE DRAINING GRANULAR FILL: NARROWLY GRADED MIXTURE OF CRUSHED STONE PER ASTM D448 WITH COARSE AGGREGATE GRADING SIZE 67 WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NO MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE OR AASHTO NO 57 — CRUSHED AGGREGATE.

   D. IMPERVIOUS FILL: LEAN CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE.

5. FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR CLSM UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS

6. FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL AND FOUNDATION CONCRETE. PROVIDE ENGINEERED FILL BENEATH FOOTINGS EXTENDING ON A 2:1 SLOPE FROM THE BOTTOM EDGES OF THE FOOTING DOWN TO 24" BELOW BEARING ELEVATION

7. FROST DEPTH IS 42 INCHES BELOW GRADE. BOTTOM OF FOOTINGS, MAT FOUNDATIONS AND GRADE BEAMS THAT ARE NOT PART OF AN INSULATED FROST PROTECTED FOUNDATION SYSTEM AND ARE NOT WITHIN CONDITIONED SPACE MUST BE BELOW SPECIFIED MINIMUM FROST DEPTH AS MEASURED FROM EXTERIOR GRADE. MAINTAIN SPECIFIED T/FDN ELEVATIONS AND THICKEN FOOTING OR PLACE ON CLSM AS REQUIRED.

8. FOUNDATIONS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL

9. BACKFILL AGAINST WALLS:

   A. INTERIOR FACE OF BASEMENT WALLS OR SHALLOW FOUNDATIONS WALLS:
      i. CLSM OR IMPERVIOUS FILL (COMPACTED IN 8" LIFTS TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 3% OPTIMUM MOISTURE CONTENT). OR
      ii. WELL GRADED GRANULAR MATERIAL (COMPACTED IN 8" LIFTS TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 2% OPTIMUM MOISTURE CONTENT); AT THE BOTTOM OF THE GRANULAR BACKFILL PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAIN PIPE. PROVIDE A POSITIVE SLOPE TO DAYLIGHT OR TO SUMP

   B. EXTERIOR FACE OF SHALLOW FOUNDATION WALLS:
      i. CLSM OR IMPERVIOUS FILL (COMPACTED IN 8" LIFTS TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 3% OPTIMUM MOISTURE CONTENT). OR
      ii. WELL GRADED GRANULAR MATERIAL (COMPACTED IN 8" LIFTS TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN +/- 2% OPTIMUM MOISTURE CONTENT); AT THE BOTTOM OF THE GRANULAR BACKFILL PLACE A 4" DIAMETER PERFORATED FOUNDATION DRAIN PIPE. PROVIDE A POSITIVE SLOPE TO DAYLIGHT OR TO SUMP

10. ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 2% OPTIMUM MOISTURE CONTENT.

11. FILL BELOW FLOOR SLABS:

    A. SUBGRADE: PROOF ROLL TOP 24" OF SUBGRADE BELOW INTERIOR SLAB TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 3% OPTIMUM MOISTURE CONTENT PRIOR TO PLACEMENT OF BASE COURSE.

    B. BASE COURSE: 6" OF WELL GRADED GRANULAR MATERIAL BELOW FLOOR SLAB COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 2% OPTIMUM MOISTURE CONTENT COMPACTED FREE DRAINING GRANULAR FILL CAPILLARY BREAK.

12. FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED PRIOR TO FOOTING CONSTRUCTION.

    A. BACKFILL TRENCHES UNDER FOOTINGS AND WITHIN 18 INCHES OF BOTTOM OF FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.

    B. BACKFILL TRENCHES EXCAVATED UNDER FOOTINGS AND MORE THAN 18 INCHES BELOW BOTTOM OF FOOTINGS WITH CLSM OR OTHER FILL MATERIAL APPROVED BY GEOTECHNICAL ENGINEER.

13. FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED AFTER FOOTING CONSTRUCTION.

    A. BACKFILL TRENCHES EXCAVATED UNDER EXISTING FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.

14. SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED IMPERVIOUS FILL OR CLSM TO CREATE A DAM TO PREVENT ENTRY OF WATER.

15. FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION

16. EXCAVATIONS:

    A. EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS SHALL BE PERMITTED WITHOUT ANY SPECIAL MEASURES AS LONG AS THE BOTTOM NEAR EDGE OF THE EXCAVATION IS ABOVE A LINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION.

    B. EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS WITH THE BOTTOM NEAR EDGE OF THE EXCAVATION BELOW A LINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION SHALL BE MADE ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE PROJECT GEOTECHNICAL ENGINEER. SUCH EXCAVATIONS MAY REQUIRE SPECIAL TEMPORARY EXCAVATION BRACING OR UNDERPINNING OF EXISTING FOUNDATIONS, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF ITS SELECTED MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES. CONTRACTOR SHALL SUBMIT TEMPORARY EXCAVATION BRACING AND UNDERPINNING DETAILS PRIOR TO EXCAVATION. CONTRACTOR SHALL PERFORM THESE EXCAVATIONS WITH CAUTION SO AS NOT TO UNDERMINE ANY EXISTING STRUCTURE FOUNDATIONS, AND EXCAVATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

17. UTILITY TRENCHES PARALLEL TO FOOTINGS AND WITH PIPES BELOW THE BOTTOM OF FOOTING ELEVATION MUST BE LOCATED SO THAT THE SLOPE BETWEEN THE PIPE INVERT ELEVATION AND THE NEAREST BOTTOM CORNER OF THE FOOTING IS A MINIMUM OF 2 HORIZONTAL TO 1 VERTICAL.

CONCRETE REINFORCING

1. MATERIALS

   A. DEFORMED BARS: ASTM A615, OR ASTM A706, GRADE 60.
      i. ASTM A706 DEFORMED BARS ARE REQUIRED FOR ALL WELDED REINFORCING BARS.

   B. WELDED WIRE REINFORCEMENT: ASTM A1064, FLAT SHEETS ONLY.

2. REINFORCING DEVELOPMENT AND LAP SPLICES (UNLESS OTHERWISE NOTED)

   A. WELDED WIRE REINFORCEMENT: LAP WELDED WIRE REINFORCEMENT MINIMUM 1 FULL SPACE PLUS 2".

   B. DEFORMED BAR DEVELOPMENT LENGTHS (Ld):
      i. HORIZONTAL BARS #6 AND SMALLER WITH MORE THAN 12" OF CONCRETE BELOW — 57 BAR DIAMETERS
      ii. HORIZONTAL BARS #6 AND SMALLER WITH LESS THAN 12" OF CONCRETE BELOW — 44 BAR DIAMETERS
      iii. HORIZONTAL BARS #7 AND LARGER WITH MORE THAN 12" OF CONCRETE BELOW — 72 BAR DIAMETERS
      iv. HORIZONTAL BARS #7 AND LARGER WITH LESS THAN 12" OF CONCRETE BELOW AND ALL OTHER BARS — 55 BAR DIAMETERS

   C. DEFORMED BAR HOOKED DEVELOPMENT LENGTHS (Ldh): 22 BAR DIAMETERS

   D. DEFORMED BAR LAP SPLICE LENGTHS (Ls):
      i. HORIZONTAL BARS #6 AND SMALLER WITH MORE THAN 12" OF CONCRETE BELOW — 74 BAR DIAMETERS
      ii. HORIZONTAL BARS #6 AND SMALLER WITH LESS THAN 12" OF CONCRETE BELOW — 57 BAR DIAMETERS
      iii. HORIZONTAL BARS #7 AND LARGER WITH MORE THAN 12" OF CONCRETE BELOW — 93 BAR DIAMETERS
      iv. HORIZONTAL BARS #7 AND LARGER WITH LESS THAN 12" OF CONCRETE BELOW AND ALL OTHER BARS — 72 BAR DIAMETERS

   E. SEE REINFORCING BAR DEVELOPMENT TABLES FOR REQUIRED DEVELOPMENT AND LAP SPLICE LENGTHS.

3. DETAILING REQUIREMENTS

   A. AT SLAB AND WALL OPENING CORNERS AND REENTRANT CORNERS, PROVIDE (1) #5 BAR IN EACH FACE PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 2'-0" PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL WALL STEEL EXCEEDS THIS MINIMUM REQUIREMENT.

   B. REINFORCE ALL INTERIOR SLABS ON GROUND WITH 6 X 6 - W2.9 X W2.9 (42#) WELDED WIRE REINFORCEMENT. LOCATE WELDED WIRE REINFORCEMENT 2" CLEAR BELOW TOP OF SLAB.

   C. SEE PLAN FOR INTERIOR SLAB ON GROUND REINFORCEMENT. LOCATE REINFORCEMENT 2" CLEAR BELOW TOP OF SLAB.

   D. REINFORCE ALL SLABS SUPPORTED ON METAL DECK WITH 6 X 6 - W1.4 X W1.4 (21#) WELDED WIRE REINFORCEMENT. LOCATE WELDED WIRE REINFORCEMENT AT CENTER OF DEPTH OF CONCRETE THICKNESS ABOVE METAL DECK UNLESS NOTED OTHERWISE.

4. PERFORMANCE

   A. COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR PLACING AND SUPPORTING REINFORCEMENT.

   B. REINFORCING BARS SHALL HAVE CLEAR COVER AS INDICATED ON THE DRAWINGS. WHERE NOT INDICATED, PROVIDE MINIMUM CLEAR COVER PER ACI 301-20.

   C. REINFORCING BARS SHALL BE FREE OF DIRT AND FORM RELEASE AGENTS.

5. SUBMITTALS

   A. SHOP DRAWINGS FOR REINFORCING STEEL (COMPLY WITH ACI SP-66):

CAST-IN-PLACE CONCRETE

1. CONCRETE MIXTURES: REFER TO CONCRETE MIXTURE REQUIREMENTS TABLE ON S003 FOR CONCRETE MIX INFORMATION.

2. CONCRETE MATERIALS:

   A. CEMENTITIOUS MATERIALS
      i. PORTLAND CEMENT: ASTM C150, TYPE I.
      ii. BLENDED HYDRAULIC CEMENT: ASTM C595, TYPE IL, PORTLAND LIMESTONE CEMENT
      iii. FLY ASH: ASTM C618, CLASS F OR C. FLY ASH SHALL NOT EXCEED 25% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
      iv. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989, GRADE 100 OR 120. COMBINATION SLAG AND FLY ASH SHALL NOT EXCEED 50% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
      v. SILICA FUME: ASTM C1240 AMORPHOUS SILICA. SILICA FUME SHALL NOT EXCEED 10% OF TOTAL CEMENTITIOUS

   B. AGGREGATES:
      i. NORMAL WEIGHT AGGREGATES: ASTM C33, COARSE GRADED.
      ii. LIGHTWEIGHT AGGREGATES: ASTM C330.

   C. ADMIXTURES: ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
      i. WATER REDUCING ADMIXTURE: ASTM C494.
      ii. PLASTICIZING ADMIXTURE: ASTM C1017.
      iii. AIR ENTRAINING ADMIXTURE: ASTM C260.
      iv. CORROSION INHIBITOR: NON-SET-ACCELERATING - CORTEC MCI 2005NS

   D. WATER: ASTM C94 AND POTABLE

3. DETAILING REQUIREMENTS

   A. CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS; 24" O.C. FOR PARALLEL SURFACES AND AT CENTERLINE OF MASONRY FOR PERPENDICULAR WALLS. USE DUR-O-WAL OR WIREBOND DOVETAIL SLOTS.

   B. FINISH OF CONCRETE HANDICAP RAMPS TO CONFORM WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).

   C. CONTRACTION JOINTS IN SLABS ON GROUND SHALL NOT EXCEED A LENGTH TO WIDTH RATIO OF 1.5:1. SEE PLAN FOR MAXIMUM JOINT SPACING.

   D. CONSTRUCTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTRACTION JOINT LOCATION. SEE DRAWINGS FOR TYPICAL DETAILS.

   E. FILL CONTRACTION AND CONSTRUCTION JOINTS IN TRAFFIC AREAS WITH SEMI-RIGID EPOXY JOINT FILLER WITH A DUROMETER SHORE A-SCALE HARDNESS NUMBER OF APPROXIMATELY 80. FILL CONTRACTION AND CONSTRUCTION JOINTS IN NON-TRAFFIC AREAS WITH ELASTOMERIC SEALANT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

   F. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.

   G. WHERE BRITTLE FLOOR FINISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE CONTRACTION JOINT LOCATIONS WITH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.

   H. PROVIDE CONTRACTION/CONSTRUCTION JOINTS IN CONCRETE WALLS AT A MAXIMUM SPACING OF TWICE THE HEIGHT OF THE WALL ABOVE THE TOP OF FOOTING. MAXIMUM JOINT SPACING SHALL NOT EXCEED 24 FT. CONTRACTION JOINTS SHALL HAVE A 1-1/2" DEEP BY 3/4" WIDE TAPERED REVEAL EACH SIDE OF THE WALL. AT CONTRACTION JOINTS, EVERY OTHER HORIZONTAL BAR SHALL BE CUT BACK 1-1/2" FROM THE CONTRACTION JOINT. CONSTRUCTION JOINTS SHALL BE FORMED SIMILAR TO CONTRACTION JOINTS. AT CONSTRUCTION JOINTS, ALL HORIZONTAL STEEL SHALL BE DISCONTINUOUS AND A DOWEL BAR OF SIZE AND SPACING TO MATCH THE HORIZONTAL REINFORCING SHALL BE EMBEDDED A MINIMUM OF 40 BAR DIAMETERS EACH SIDE OF THE CONSTRUCTION JOINT. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL JOINT TREATMENT.

   I. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

   J. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER GRANULAR BASE.

4. CONCRETE PLACEMENT

   A. DO NOT BACKFILL AGAINST BASEMENT FOUNDATION WALLS UNTIL ADJACENT FLOOR STRUCTURE AND CONCRETE/DECKING IS IN PLACE TO BRACE THE TOP OF THE WALL.

   B. DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL CONCRETE STRENGTH HAS REACHED 0.75 f'c AND A MINIMUM OF 7 DAYS.

   C. ROUGHENED SURFACES, WHERE INDICATED, SHALL EITHER BE:
      i. ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4" AND BE CLEAN AND FREE OF LAITANCE.:
      ii. FORMED BY EXPANDED METAL LEAVE-IN-PLACE MESH. SUBMIT PRODUCT INFORMATION FOR APPROVAL.

5. PERFORMANCE

   A. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1-90 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 306R-16 "GUIDE TO COLD WEATHER CONCRETING".

   B. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305.1-14 "SPECIFICATION FOR HOT WEATHER CONCRETING" AND ACI 305R-10 "GUIDE TO HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND SPEED SHALL BE ENTERED INTO NOMOGRAPH FIGURE 4.2 IN ACI 305R-10 TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE REQUIRED.

   C. TOLERANCES: CONFORM TO ACI 117-10

   D. IF CONCRETE ARRIVES AT THE POINT OF DELIVERY WITH A SLUMP BELOW THAT WHICH WILL RESULT IN THE SPECIFIED SLUMP AT THE POINT OF PLACEMENT AND IS UNSUITABLE FOR PLACING AT THAT SLUMP, THE SLUMP MAY BE ADJUSTED ONCE ONLY TO THE REQUIRED VALUE BY ADDING WATER UP TO THE AMOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTM C94. DO NOT EXCEED THE SPECIFIED WATER-CEMENTITIOUS MATERIAL RATIO OR SLUMP IN THE APPROVED MIX DESIGN. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING. AFTER PLASTICIZING OR WATER REDUCING ADMIXTURES ARE ADDED TO THE CONCRETE AT THE SITE TO ACHIEVE FLOWABLE CONCRETE, DO NOT ADD WATER TO THE CONCRETE. MEASURE SLUMP (AND AIR CONTENT OF AIR ENTRAINED CONCRETE), AFTER SLUMP ADJUSTMENT, TO VERIFY COMPLIANCE WITH SPECIFIED REQUIREMENTS.

   E. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF ADMIXTURES AND AFTER THE ADDITION OF ADMIXTURES.

   F. INTERIOR SLAB FINISHING AND CURING
      i. FINISH: MACHINE TROWEL FINISH FLOOR SLAB UNLESS NOTED OTHERWISE.
      ii. CURING: "CURE AND SEAL" LIQUID MEMBRANE FORMING CURING COMPOUND (ASTM C1315, TYPE 1, CLASS A, VOC COMPLIANT) OR MOISTURE-RETAINING COVER (ASTM C171) POLYETHYLENE FILM OR CURING PAPER CONSISTING OF TWO LAYERS OF FIBERED KRAFT PAPER LAMINATED WITH DOUBLE COATING OF ASPHALT.

   G. EXTERIOR SLAB FINISHING AND CURING:
      i. FINISH: LIGHT BROOM FINISH
      ii. CURING: UV RESISTANT ACRYLIC "CURE AND SEAL" LIQUID MEMBRANE FORMING CURING COMPOUND (ASTM C1315, TYPE 1, CLASS A).

6. SUBMITTALS:

   A. CONSTRUCTION JOINT LAYOUT

   B. CONCRETE MIX DESIGNS: CONCRETE MIX DESIGNS INCLUDING PRODUCT DATA FOR ALL CONSTITUENTS AND ADMIXTURES SHALL BE SUBMITTED FOR EACH TYPE OF CONCRETE TO THE STRUCTURAL ENGINEER FOR APPROVAL IN ACCORDANCE WITH ACI 301-16 FIELD TEST DATA OR TRIAL MIXTURES. SUBMITTAL DATA MUST INCLUDE FIELD TEST DATA FROM AT LEAST 10 TESTS OR A THREE POINT CURVE GENERATED USING TRIAL MIXTURES.

   C. PRODUCT DATA FOR CURING MATERIALS

   D. PRODUCT DATA FOR FIBER REINFORCEMENT

   E. FLOOR FLATNESS AND LEVELNESS MEASUREMENT REPORTS INDICATING COMPLIANCE WITH SPECIFIED TOLERANCES.

7. QUALITY ASSURANCE

   A. CONCRETE WORK AND TESTING, AS PERFORMED BY "QUALIFIED FIELD TESTING TECHNICIANS" AND "QUALIFIED LABORATORY TECHNICIANS", SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-16, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS ABOVE. REPORTS FROM TESTS REQUIRED BY SECTION 1.6 OF ACI 301-16 SHALL BE SUBMITTED TO STRUCTURAL ENGINEER, ARCHITECT, OWNER, CONTRACTOR, CONCRETE SUPPLIER, AND BUILDING OFFICIAL.

STRUCTURAL ENGINEERS
800.542.3302
schaefer-inc.com
schaefer

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Schaefer Project Number: 26-0317

ABBREVIATIONS

NAME	DESCRIPTION
AFF =	ABOVE FINISHED FLOOR ELEVATION
ARCH =	ARCHITECT
B/ =	BOTTOM OF
BLDG =	BUILDING
BOT =	BOTTOM
BRG =	BEARING
CFS =	COLD-FORMED STEEL
CJ =	CONTRACTION JOINT
CJP =	COMPLETE JOINT PENETRATION
CL =	CENTER LINE
CLR =	CLEAR
CLSM =	CONTROLLED LOW STRENGTH MATERIAL
CMU =	CONCRETE MASONRY UNIT
COL =	COLUMN
CONC =	CONCRETE
CONT =	CONTINUOUS
DEG or ° =	DEGREE
DIA or ø =	DIAMETER
EA =	EACH
EF =	EACH FACE
EL =	ELEVATION
EMB =	EMBEDMENT
EOD =	EDGE OF DECK
EOS =	EDGE OF SLAB
EQ =	EQUAL
EXIST =	EXISTING
EXP =	EXPANSION
FDN =	FOUNDATION
FS =	FAR SIDE
FTG =	FOOTING
GA =	GAGE
GALV =	GALVANIZED
GT =	GIRDER TRUSS
HORIZ =	HORIZONTAL
JST BRG =	JOIST BEARING
Ld =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
Ld-CMU =	TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN GROUTED CMU
Ldc =	COMPRESSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
LDH =	LONG DIMENSION HORIZONTAL
Ldh =	HOOKED BAR TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE
LDV =	LONG DIMENSION VERTICAL
LLH =	LONG LEG HORIZONTAL
LLV =	LONG LEG VERTICAL
Ls =	LAP SPLICE LENGTH OF REINFORCING BAR IN CONCRETE
Ls-CMU =	LAP SPLICE LENGTH OF REINFORCING BAR IN GROUTED CMU
Lsc =	COMPRESSION LAP SPLICE LENGTH OF REINFORCING BAR IN CONCRETE
LSL =	LAMINATED STRAND LUMBER
LVL =	LAMINATED VENEER LUMBER
MCJ =	MASONRY CONTROL JOINT
MFR =	MANUFACTURER
NS =	NEAR SIDE
oc =	ON CENTER
OPNG =	OPENING
OPP =	OPPOSITE
P/T =	POST-TENSION
PAF =	POWER-ACTUATED FASTENER
PE =	PRE-ENGINEERED
PEMB =	PRE-ENGINEERED METAL BUILDING
PJP =	PARTIAL JOINT PENETRATION
PL =	PLATE
PSL =	PARALLEL STRAND LUMBER
PT =	PRESSURE TREATED
RD =	ROOF DRAIN
REINF =	REINFORCING
RTU =	ROOF TOP UNIT
SDS =	SELF DRILLING SCREWS
SIM =	SIMILAR
SL =	STEP LEDGE
SOMD =	SLAB ON METAL DECK
SPA =	SPACE or SPACES
SRD =	SECONDARY ROOF DRAIN
STIFF =	STIFFENER
STL =	STEEL
STW =	STEP TOP OF WALL
T/ =	TOP OF
UNO =	UNLESS NOTED OTHERWISE
VB =	VERTICAL BRACING
VERT =	VERTICAL
VIF =	VERIFY IN FIELD
w/ =	WITH
WP =	WORK POINT

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REFERENCE
n	EXISTING COLUMN LINE DESIGNATION	
n	FACE OF BUILDING	
Hn	HEADER MARK	SHEET S102
n	FOOTING MARK	SHEET S101
SWn	SHEAR WALL MARK	SHEET S102
Kn	KEYNOTE MARK	SHEET S101
	STEP T/FTG	SHEET S101
	ELEVATION INDICATION	SHEET S101
Dn	DECK MARK	SHEET S102

0'-1" REFERENCE LINE

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STATE OF MICHIGAN
JOSEPH SEYMOUR
ENGINEER
No. 6201315228
LICENSED PROFESSIONAL ENGINEER
9/14/2026

SHP
311 ELM STREET, SUITE 600
CINCINNATI, OH 45202 - 513.381.2112

BRADFORD PUBLIC LIBRARY
CHILDREN'S AREA ADDITION
138 E. MAIN STREET, BRADFORD, OH 45308
BRADFORD PUBLIC LIBRARY
School District ADDRESS

ISSUANCES

1	08-28-26	DESIGN DEVELOPMENT
2	09-14-26	EARLY SITE PACKAGE

GENERAL NOTES

COMM NO. 2026032.01

S001

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SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS ARE REQUIRED BY SECTION 1704 OF THE REFERENCED BUILDING CODE. THE INTENT OF SPECIAL INSPECTIONS IS TO VERIFY THE COMPLIANCE OF MATERIALS, INSTALLATION, FABRICATION, ERECTION AND/OR PLACEMENT OF COMPONENTS WITH THE COMPLETED SET OF CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. IT IS THE RESPONSIBILITY OF ALL PARTIES INVOLVED TO BECOME FAMILIAR WITH THE SPECIAL INSPECTION REQUIREMENTS SET FORTH IN CHAPTER 17 OF THE REFERENCED BUILDING CODE. SPECIAL INSPECTIONS SHALL BE PROVIDED BY THE OWNER OR THE OWNER'S AGENT AND SHALL NOT BE CONSIDERED IN THE SCOPE OF WORK OF THE CONTRACTOR.

   A. THE FOLLOWING SCHEDULE OF SPECIAL INSPECTIONS FOR STRUCTURAL WORK HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 106.1 AND 1704 OF THE REFERENCED BUILDING CODE. SEE OTHERS FOR SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL WORK. THE SPECIAL INSPECTOR(S) SHALL COORDINATE WITH THE OWNER, CONTRACTORS, AND DESIGN PROFESSIONALS AND SCHEDULE ALL INSPECTIONS ACCORDINGLY.

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.2.2 COLD FORMED STEEL DECK

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Observe	Perform	N/A		
1. Inspection Tasks Prior to Deck Placement	a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material, properties, and base metal thickness		X		Testing Agency	
	b. Document acceptance or rejection of deck and deck accessories		X			
2. Inspection Tasks After Deck Placement	a. Verify compliance of deck and all deck accessories installation with construction documents		X		Testing Agency	
	b. Verify deck materials are represented by the mill certifications that comply with the construction documents		X			
	c. Document acceptance or rejection of installation of deck and deck accessories		X			
3. Inspection Prior to Welding	a. Welding procedure specifications (WPS) available	X			Testing Agency AWS Certified Welding Inspector	
	b. Manufacturer certifications for welding consumables available	X				
	c. Material Identification (type/grade)	X				
	d. Check Welding Equipment	X				
4. Inspection Tasks During Welding	a. Use of qualified welders.	X			Testing Agency AWS Certified Welding Inspector	
	b. Control and handling of welding consumables.	X				
	c. Environmental conditions	X				
	d. WPS followed	X				
5. Inspection Tasks After Welding	a. Verify size and location of welds, including support, sidelap, and perimeter welds.		X		Testing Agency AWS Certified Welding Inspector	
	b. Weld meets visual inspection criteria.		X			
	c. Verify repair activities.		X			
	d. Document acceptance or rejection of welds		X			
6. Inspection Tasks Prior to Mechanical Fastening	a. Manufacturer installation instructions are available for mechanical fasteners.	X			Testing Agency	
	b. Proper tools are available for fastener installation	X				
	c. Proper storage for mechanical fasteners	X				
7. Inspection Tasks During Mechanical Fastening	a. Fasteners are positioned as required	X			Testing Agency	
	b. Fasteners are installed in accordance with manufacturer's instructions	X				
8. Inspection Tasks After Mechanical Fastening	a. Check spacing, type, and installation of support fasteners		X		Testing Agency	
	b. Check spacing, type, and installation of sidelap fasteners		X			
	c. Check spacing, type, and installation of perimeter fasteners		X			
	d. Verify repair activities		X			
	e. Document acceptance or rejection of mechanical fasteners		X			

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.2.4 COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
1. CFS Trusses spanning 60 feet or greater	1. Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package		X		Testing Agency	

SCHEDULE OF SPECIAL INSPECTION SERVICES - COLD FORMED CONSTRUCTION

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
Lateral Load Resisting System Elements	**Strap Bracing:** Inspect straps and all connections at walls with CFS strap bracing		X		Testing Agency	
	Shearwalls: Inspect wood structural panel grade and thickness, fastener size and spacing, panel edge blocking, shearwall end studs, and holdowns		X		Testing Agency	
	Chords/Collectors: Inspect collector/chord straps and ties.		X		Testing Agency	
Framing	**Members:** Inspect member size, spacing, and configuration		X		Testing Agency	
	Connections: Inspect connection details for conformance to construction documents.		X		Testing Agency	
Mechanical Fastening	Inspect fastener type, size, and installation procedures. Verify that fasteners are installed tight.		X		Testing Agency	
Material Properties and Thickness	Review conformance with construction documents		X		Testing Agency	
Material Verification of weld filler materials	Review identification markings conform to AWS specification indicated in construction documents.		X		Testing Agency AWS - Certified Welding Inspector	
	Review manufacturer's certificate of compliance for all specified weld filler materials.		X		Testing Agency AWS - Certified Welding Inspector	
Welding	Inspection of welds. Reference AWS D1.3, Chapter 6		X		Testing Agency AWS - Certified Welding Inspector	

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.3 CONCRETE CONSTRUCTION

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
1. Reinforcing steel	a. **Mild Reinforcing Steel:** Inspect size, spacing, cover, positioning and grade of reinforcing steel: Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters. Verify welded wire fabric is supported per construction documents. Reference ACI 318: 20, 25.2, 25.3, 26.6-1-26.6-3, and IBC 1908.4.		X		Testing Agency	
	b. **Prestress Steel:** Inspect size, spacing, cover, and position of prestressing tendons.			X	Testing Agency	
2. Welding of Reinforcing Steel	a. Verify weldability of reinforcing bars other than ASTM A706. Reference ACI 318: 26.6.4 and AWS D1.4			X	Testing Agency	
	b. Inspect single pass fillet welds, maximum 5/16"			X	Testing Agency AWS - Certified Welding Inspector	
	c. Inspect all other welds			X	Testing Agency AWS - Certified Welding Inspector	
3. Cast in Place Anchor Rods	Inspect size, position and embedment of cast in place bolts and anchor rods. Inspect concrete placement and consolidation around anchors. Reference ACI 318: 17.8.2		X		Testing Agency	
4. Post Installed Anchors (Anchors installed in Hardened Concrete)	a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.8.2.4	X			Testing Agency	Reference evaluation report (identified in project general notes) for additional inspection scope required by manufacturer.
	b. Mechanical anchors and adhesive anchors not defined in 4.a. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.8.2		X		Testing Agency	
5. Mix Design	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.		X		Testing Agency	
6. Sampling and Testing of Concrete	At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests as required by construction documents, and determine the temperature of concrete. Reference ASTM C 172, ASTM C31, ACI 318, 26.4.3, 26.4.4	X			Testing Agency	
7. Concrete and Shotcrete Placement	Inspect concrete and shotcrete placement for proper application techniques. Reference ACI 318: 26.5 and IBC 1908.6, 1908.7, and 1908.8. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.	X			Testing Agency	
8. Curing and Protection	Inspect for maintenance of specified curing temperature and techniques. Inspect cold weather and hot weather protection procedures as applicable. Reference ACI 318: 26.5.3-26.5.5		X		Testing Agency	
13. Verification of In-Situ Concrete Strength	Verify concrete strength prior to the removal of shores and forms from beams and structural slabs and prior to the stressing of tendons in post-tensioned concrete. Reference ACI 318: 26.10.2 & 26.11.11.2		X		Testing Agency	
14. Formwork Geometry	Inspect formwork for shape, location and dimensions of the concrete member being formed. Reference ACI 318: 26.11		X		Testing Agency	

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.6 SOILS

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
1. Bearing Materials	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X		Testing Agency Under supervision of Licensed Geotechnical Engineer	
2. Excavations	Verify excavations are extended to proper depth and have reached proper material		X		Testing Agency Under supervision of Licensed Geotechnical Engineer	
3. Fill Classification	Perform classification and testing of compacted fill materials		X		Testing Agency Under supervision of Licensed Geotechnical Engineer	
4. Placement and Fill Compaction	During fill placement, verify use of proper materials and procedure in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill	X			Testing Agency Under supervision of Licensed Geotechnical Engineer	
5. Subgrade	Prior to placement of compacted fill, inspect subgrade and verify that the site has been prepared properly		X		Testing Agency Under supervision of Licensed Geotechnical Engineer	

SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.12 SPECIAL INSPECTIONS FOR WIND RESISTANCE

Item	Sub Item / Scope	Extent			Agency Qualifications	Comments
		Cont.	Periodic	N/A		
12.2 Cold-Formed	**Welding:** Welding operations of elements of the main windforce-resisting system.		X		Testing Agency	
	Mechanical Fastening: Screw Attachment, Bolting, Anchoring, and other Fastening of elements of the main windforce-resisting system, including shear walls, diaphragms, collectors/drag struts, and hold-downs.		X		Testing Agency	Special Inspections are NOT required for cold-formed steel light-frame shear walls and diaphragms, including nailing, bolting, anchoring and other fastening to components of the main windforce-resisting system, where either the sheathing is gypsum board or fiberboard OR the sheathing is a wood structural panel or steel sheets on only one side of the shear wall, shear panel or diaphragm, and the specified fastener spacing at the panel or sheet edges is is more than 4 inches on center.
12.3 Wind-resisting Components	Roof covering, roof deck and roof framing connections		X		Testing Agency	
	Exterior wall covering and wall connections to roof and floor diaphragms and framing		X			

SCHEDULE OF TENSION & COMPRESSION DEVELOPMENT AND LAP SPLICE LENGTHS

FOOTINGS (f'c = 3000PSI)						**FOUNDATION WALLS (f'c = 4500PSI)**					
BAR SIZE	Ld		Ls		Ldh	BAR SIZE	Ld		Ls		Ldh
	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS			OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	
	(in)	(in)	(in)	(in)	(in)		(in)	(in)	(in)	(in)	(in)
#3	17	22	22	28	8	#3	12	12	16	16	7
#4	22	29	29	38	12	#4	12	14	16	19	11
#5	28	36	36	47	16	#5	14	18	18	23	15
#6	33	43	43	56	21	#6	17	21	21	28	20
#7	48	63	63	81	27	#7	24	31	31	40	24
#8	55	72	72	93	32	#8	27	35	35	46	30
#9	62	81	81	105	39	#9	34	44	44	57	36
#10	70	91	91	118	46	#10	42	54	54	70	42
#11	78	101	101	131	54	#11	50	65	65	84	50
#14	93	121	121	157	71	#14	68	88	88	115	65

LAP AND DEVELOPMENT TABLE CRITERIA:
A. GRADE 60 UNCOATED REINFORCING STEEL
  i. FOR EPOXY COATED: MULTIPLY Ld, Ls BY 1.5; Ldh BY 1.2
B. NORMAL WEIGHT CONCRETE
  i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY Ld, Ls, Ldh BY 1.33
C. CLEAR COVER GREATER THAN db
D. MIN 2"db CLEAR SPACING BETWEEN BARS

FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED:
#6 AND SMALLER: Ld = 66 BAR DIAMETERS; Ls = 86 BAR DIAMETERS
#7 AND LARGER: Ld = 83 BAR DIAMETERS; Ls = 107 BAR DIAMETERS
FOR TOP BARS MULTIPLY BY 1.3
MINIMUM Ld AND Ls = 12"

LAP AND DEVELOPMENT TABLE CRITERIA:
A. GRADE 60 UNCOATED REINFORCING STEEL
  i. FOR EPOXY COATED: MULTIPLY Ld, Ls BY 1.5; Ldh BY 1.2
B. NORMAL WEIGHT CONCRETE
  i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY Ld, Ls, Ldh BY 1.33
C. 2" MIN CLEAR COVER
D. 4" MIN CLEAR SPACING BETWEEN BARS

FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED:
#6 AND SMALLER: Ld = 54 BAR DIAMETERS; Ls = 70 BAR DIAMETERS
#7 AND LARGER: Ld = 68 BAR DIAMETERS; Ls = 88 BAR DIAMETERS
FOR TOP BARS MULTIPLY BY 1.3
MINIMUM Ld AND Ls = 12"

LAP AND DEVELOPMENT TABLE NOTES & DEFINITIONS:
A. TOP BARS = HORIZ BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS
B. db = BAR DIAMETER
C. s = CENTER-TO-CENTER BAR SPACING
D. Ath = TOTAL AREA OF TIES OR STIRRUPS CONFINING HOOKED BARS
E. Ahs = TOTAL AREA OF HOOKED BARS BEING DEVELOPED
F. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, Ls FOR THE LARGER BAR SHALL BE USED
G. ALL TENSION SPLICES SHALL BE CLASS B, UNLESS NOTED OTHERWISE
H. Ldh VALUES FOR #11 BARS AND SMALLER MAY BE REDUCED AS FOLLOWS (PER ACI 318-19)
  i. MULTIPLY BY 0.625 FOR (1) OR (2)
    (1) Ath ≥ 0.40Ahs
    (2) s ≥ 6db
  ii. MULTIPLY BY 0.80 FOR (3) OR (4)
    (3) HOOK TERMINATES IN COLUMN CORE & SIDE COVER NORMAL TO PLANE OF HOOK ≥ 2.5"
    (4) SIDE COVER NORMAL TO PLANE OF HOOK ≥ 6db
  iii. Ldh SHALL NOT BE LESS THAN THE LARGER OF 8db OR 6" WITH REDUCTIONS APPLIED

CONCRETE MIXTURE REQUIREMENTS

CONCRETE CLASS	DESCRIPTION	EXPOSURE CLASS F	S	W	C	MINIMUM f'c AT 28 DAYS (PSI)	MAXIMUM w/c RATIO	AIR CONTENT	MINIMUM CEMENTITIOUS MATERIAL (LB/CY)	REMARKS
A	FOOTINGS AND GRADE BEAMS	F0	S0	W0	C0	3000	--	--	--	--
B	FOUNDATION WALLS	F2	S0	W0	C1	4500	0.45	6% ±1.5%	--	--
C	INTERIOR SLABS-ON-GROUND	F0	S0	W0	C0	4000	--	3% MAX	540	--

CONCRETE MIXTURE NOTES:
A. PROVIDE MIX DESIGNS IN ACCORDANCE WITH ACI 301-16 FOR SPECIFIED EXPOSURE CLASS AND AGGREGATE.
B. NOMINAL MAX AGGREGATE SIZE = 3/4" UNLESS OTHERWISE NOTED
C. ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS OTHERWISE NOTED

0'-1" REFERENCE LINE

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Schaefer Project Number: 26-0317

STATE OF MICHIGAN
JOSEPH SEYMOUR
ENGINEER
No. 6201315228
LICENSED PROFESSIONAL ENGINEER
9/14/2026

SHP
311 ELM STREET, SUITE 600
CINCINNATI, OH 45202 - 513.381.2112

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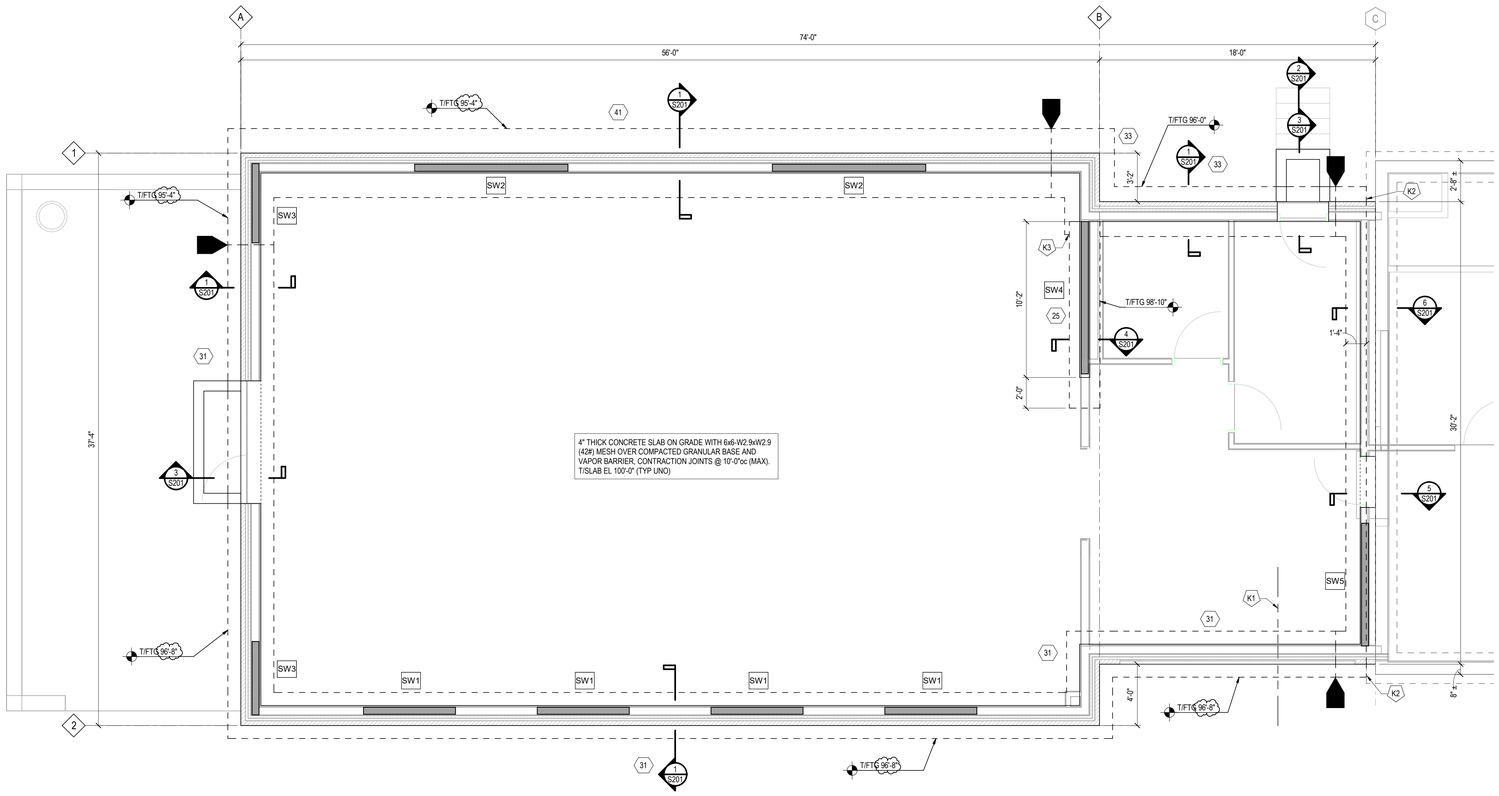
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2	09-14-26	EARLY SITE PACKAGE

SPECIAL INSPECTIONS

COMM NO. 2026032.01

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FOUNDATION PLAN

1/4" = 1'-0"

NORTH

FOUNDATION PLAN NOTES:

1. REFERENCE PLAN ELEVATION 100'-0" = 991.80' MEAN SEA LEVEL.
2. DOORS ARE SHOWN IN APPROXIMATE LOCATIONS, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
3. SEE SHEET S001 FOR ABBREVIATIONS & LEGEND (SYMBOLS).
4. VERIFY ALL EXISTING BUILDING DIMENSIONS.
5. SLOPE SLAB TO FLOOR DRAINS, COORDINATE WITH ARCHITECTURAL & PLUMBING DRAWINGS.

FOUNDATION KEYNOTES

NO.	DESCRIPTION
K1	FIELD VERIFY EXISTING PIPE ELEVATION AND LOCATION. STEP FOOTING BELOW PIPE IF PROPOSED FOOTING CONFLICTS WITH ELEVATION. REFER TO TYPICAL PIPE SLEEVE DETAIL.
K2	FIELD VERIFY EXISTING FOOTING ELEVATION AND MATCH NEW TOP OF FOOTING ELEVATION.
K3	BOTTOM OF FOOTING ELEVATION TO MATCH INTERSECTING FOUNDATIONS. LAP REINFORCING PER TYPICAL DETAILS.

CONTINUOUS FOOTING SCHEDULE

MARK	SIZE WIDTH (B)	SIZE THICKNESS (H)	REINFORCING	REMARKS
25	2'-0"	4'-0"	(3) #5 CONT TOP & BOT	
31	3'-0"	1'-2"	(3) #5 CONT TOP & BOT, #5 TRANSVERSE BARS @ 12"oc TOP @ BOT	
33	3'-3"	1'-2"	(4) #5 CONT TOP & BOT, #5 TRANSVERSE BARS @ 12"oc TOP @ BOT	
41	4'-6"	1'-2"	(5) #5 CONT TOP & BOT, #5 TRANSVERSE BARS @ 12"oc TOP @ BOT	

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STATE OF MICHIGAN
JOSEPH SEYMOUR
ENGINEER
No. 6201315228
LICENSED PROFESSIONAL ENGINEER
9/14/2026

SHP
311 ELM STREET, SUITE 600
CINCINNATI, OH 45202 - 513.381.2112

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2	09-14-26	EARLY SITE PACKAGE
3	09-15-26	ADDENDUM A

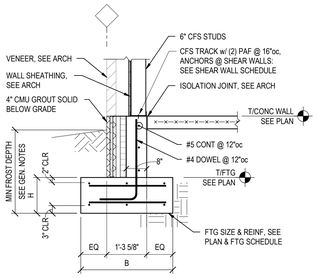
FOUNDATION PLAN

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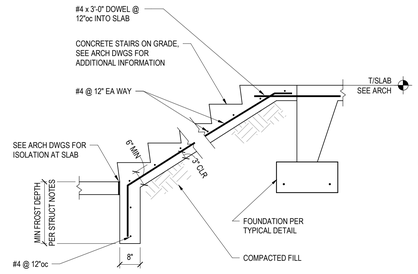
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1" REFERENCE LINE

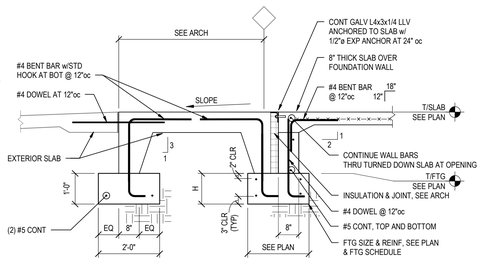
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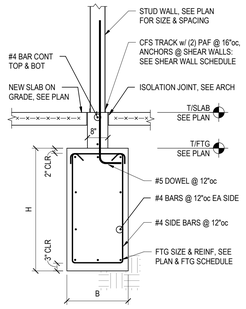
SECTION 1 — 1/2" = 1'-0" — S201



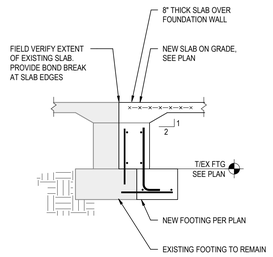
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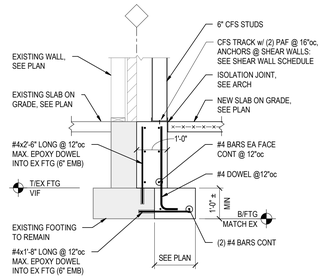
SECTION 3 — 1/2" = 1'-0" — S201



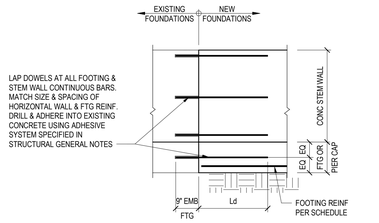
SECTION 4 — 1/2" = 1'-0" — S201



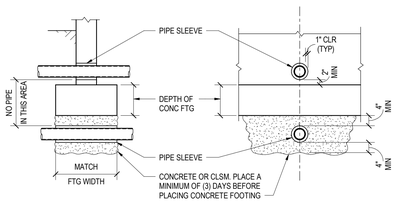
SECTION 5 — 1/2" = 1'-0" — S201



SECTION 6 — 1/2" = 1'-0" — S201

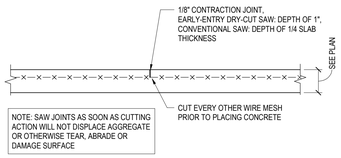


TYPICAL FOOTING DOWELS TO EXISTING FOUNDATIONS
NTS



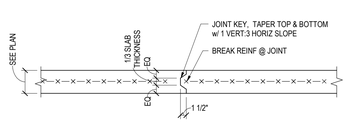
NOTES:
1. REINFORCE OPENINGS FOR SLEEVES OR GROUPS OF SLEEVES LARGER THAN 10" PER THE TYPICAL WALL OPENING DETAIL. "GROUPS" OF SLEEVES INCLUDES ALL SLEEVES SPACED CLOSER THAN ONE DIAMETER APART.
2. SEE MECHANICAL AND CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS AT SLEEVES.

TYPICAL PIPE SLEEVE ABOVE/BELOW STRIP FOOTING
NTS

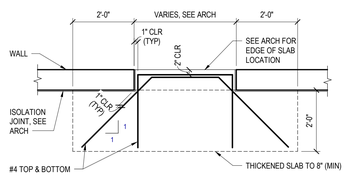


NOTE: SAW JOINTS AS SOON AS CUTTING ACTION WILL NOT DISPLACE AGGREGATE OR OTHERWISE TEAR, ABRADE OR DAMAGE SURFACE

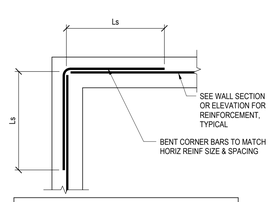
SLAB ON GRADE TYPICAL CONTRACTION JOINT
NTS



SLAB ON GRADE TYPICAL CONSTRUCTION JOINT
NTS

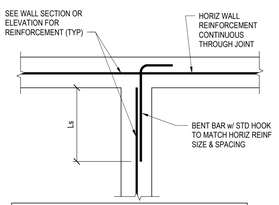


TYPICAL SLAB ON GRADE AT DOOR THRESHOLD
NTS



NOTES:
1. VERTICAL REINFORCEMENT BARS NOT SHOWN FOR CLARITY.

TYPICAL CONCRETE WALL CORNER REINFORCEMENT DETAIL AT SINGLE CURTAIN OF STEEL
NTS



NOTES:
1. VERTICAL REINFORCEMENT BARS NOT SHOWN FOR CLARITY.

TYPICAL CONCRETE WALL INTERSECTION REINFORCEMENT DETAIL AT SINGLE CURTAIN OF STEEL
NTS

1/2" REFERENCE LINE

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STATE OF MICHIGAN
JOSEPH SEYMOUR
ENGINEER
No. 6201315228
LICENSED PROFESSIONAL ENGINEER
9/14/2026

SHP
511 E.M STREET, SUITE 600
CINCINNATI, OH 45202 - 513.381.2112

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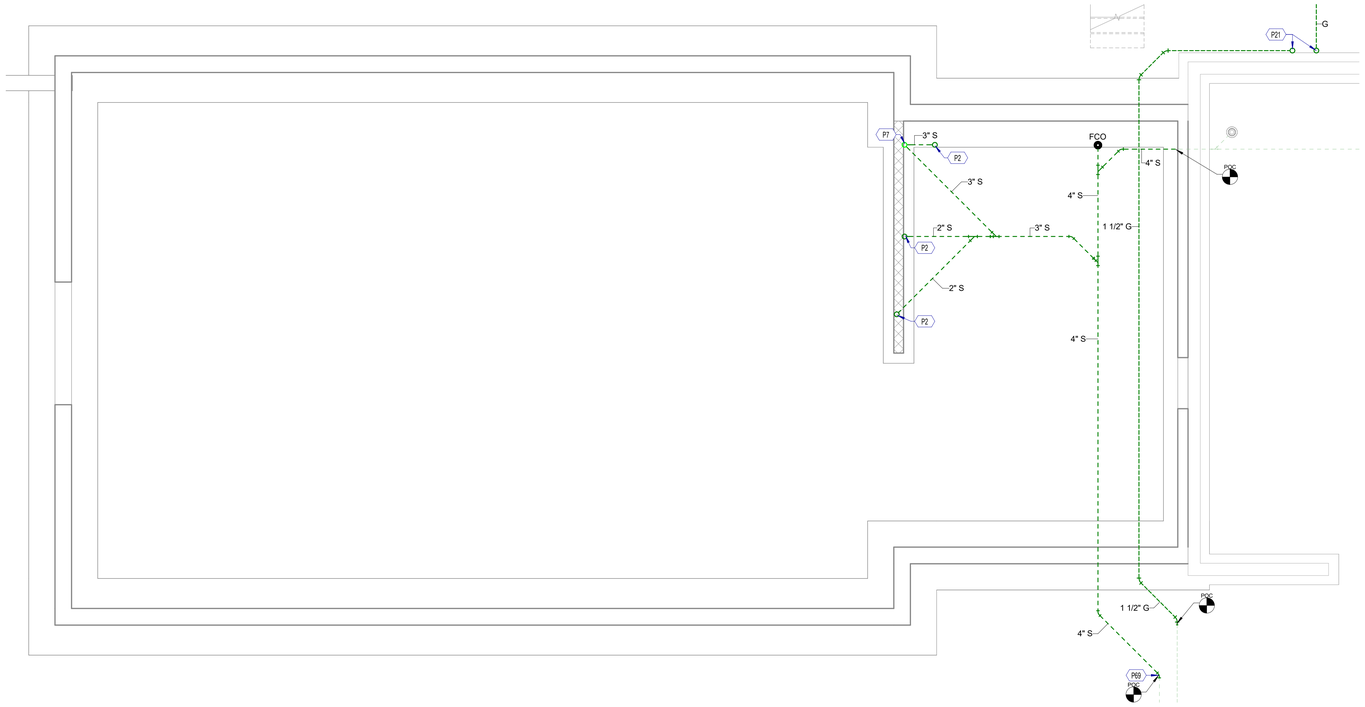
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2	09-14-26	EARLY SITE PACKAGE

TYPICAL FOUNDATION DETAILS & SECTIONS

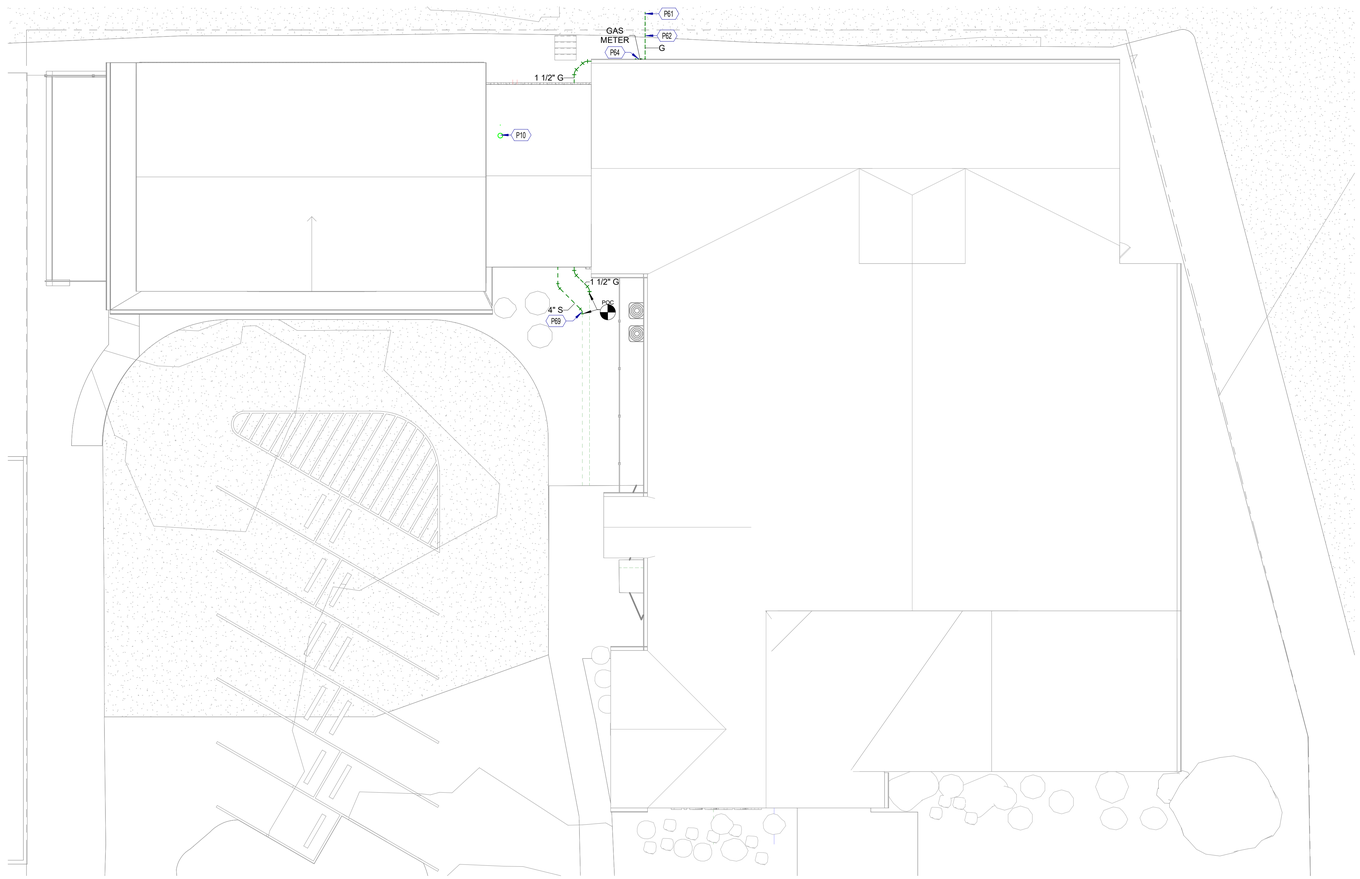
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1 P501 PLUMBING FOUNDATION PLAN
1/4" = 1'-0"



2 P501 PLUMBING SITE PLAN
1" = 10'-0"

KEYNOTES

P2	SANITARY PIPE UP.
P7	VENT PIPE UP.
P10	3" VENT THRU ROOF. REFER TO DETAIL 5/P001.
P21	GAS PIPE UP.
P61	GAS CONNECTION AT STREET BY CENTERPOINT ENERGY.
P62	GAS PIPE SHALL BE PROVIDED AND INSTALLED BY CENTERPOINT ENERGY. CONTACT LOCAL REPRESENTATIVE TO COORDINATE SITE GAS INSTALLATION.
P64	GAS METER SETTING BY CENTERPOINT ENERGY. CONTACT LOCAL REPRESENTATIVE TO COORDINATE METER INSTALLATION.
P69	CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING SANITARY PIPE.

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STATE OF OHIO
JACOB A FAIOLA
84724
REGISTERED
PROFESSIONAL ENGINEER

SHP
311 ELM STREET, SUITE 500
CINCINNATI, OH 45202 513.651.2112

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ISSUANCES

2	09-14-26	EARLY SITE PACKAGE

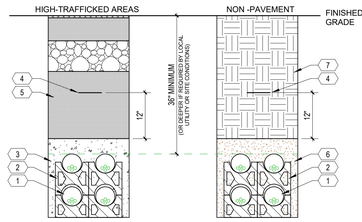
PLUMBING SITE PLAN

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P501

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0"-1" REFERENCE LINE



GENERAL NOTES:

A. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY

B. NUMBER OF CONDUITS IN TRENCH ARE AS INDICATED ON PLANS

C. ALL UNDERGROUND CONDUITS TO HAVE LONG SWEEPING BENDS

D. PROVIDE ALL EMPTY UNDERGROUND CONDUITS WITH PULLWIRE

DETAIL NOTES:

1. SCHEDULE 40 PVC DUCT, SIZE AS INDICATED ON DRAWINGS. MINIMUM 2" SPACING BETWEEN DUCTS FOR LIKE SERVICES, AND 4" SPACING BETWEEN POWER AND COMMUNICATIONS DUCT.
2. PVC INTERLOCKING DUCT SPACERS. PROVIDE EVERY 48" OC, AND WITHIN 24" OF DUCT ENDS.
3. EXCAVATE TRENCH 4" WIDER THAN DUCT ON EACH SIDE. PROVIDE 3000 PSI, 28-DAY STRENGTH CONCRETE ENCASEMENT, WITH RED DYE. USE WALLS OF TRENCH TO FORM SIZE WALLS OF DUCT BANK ONLY WHERE SOIL IS SELF-SUPPORTING AND CONCRETE CAN BE POURED WITH NO SOIL INCLUSIONS. OTHERWISE, USE FORMS.
4. RED WARNING TAPE, NO LESS THAN 12" ABOVE DUCT BANKS.
5. COMPACTED BACKFILL AND PAVEMENT, VARIES BASED ON INSTALLATION LOCATION. COMPLY WITH DIV. 31 REQUIREMENTS.
6. EXCAVATE TRENCH 4" WIDER THAN DUCT ON EACH SIDE. PROVIDE MINIMUM 3" OF SAND AS BED FOR DUCT, AND PLACE SAND TO MINIMUM 6" ABOVE TOP OF DUCT.
7. COMPACTED BACKFILL. COMPLY WITH DIV. 31 REQUIREMENTS.

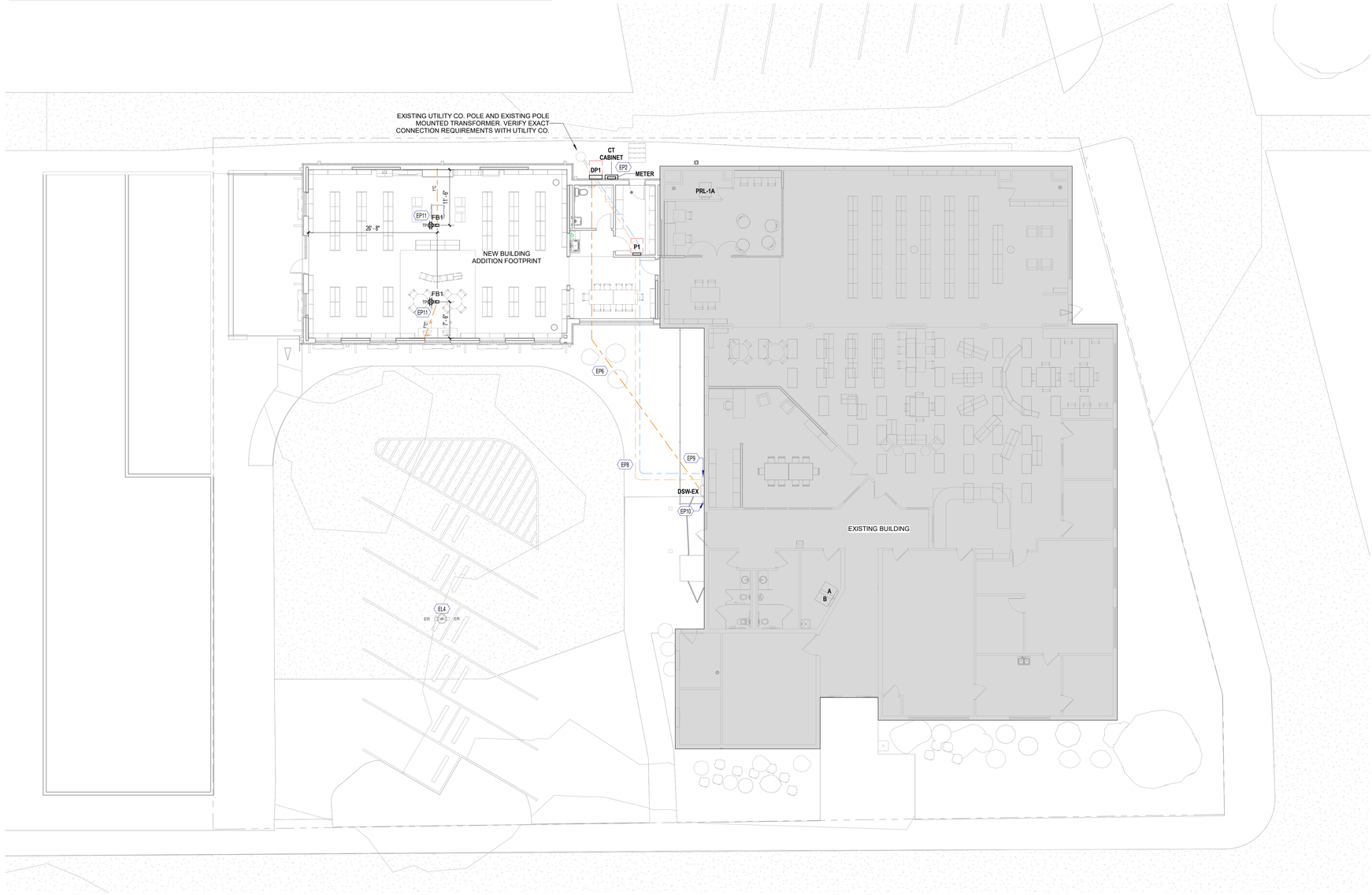
2 E701 DUCT BANK DETAIL

FLOOR BOX SCHEDULE

GENERAL NOTES:

1) COORDINATE EXACT FLOOR BOX LOCATIONS AND FLOOR FINISHES WITH ARCHITECTURAL FLOOR PLANS FOR COMPLETELY FLUSH INSTALLATION.
2) ALL FLOOR BOX & POKE-THRU FINISHES TO BE SELECTED BY ARCHITECT.
3) CONDUIT:
   A) COORDINATE QUANTITIES AND SIZE OF CONDUIT FOR POWER NEEDS WITH E200-SERIES SHEETS
   B) COORDINATE CONDUIT FOR TECHNOLOGY CABLING WITH TECHNOLOGY CONSULTANT
   C) ROUTE CONDUIT TO NEAREST INTERIOR WALL AND TO ADDITIONAL NEARBY FLOOR BOXES AS NEEDED
4) REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

TAG	POWER	TECHNOLOGY	GANG QUANTITY	SERVICE TYPE	MOUNTING STYLE	COVER STYLE	NOTES
FB1	1 QUAD	N/A	2 GANG	SINGLE	RECESSED	FLANGE COVER	
FB1	1 QUAD	N/A	2 GANG	SINGLE	RECESSED	FLANGE COVER	



1 E701 ELECTRICAL SITE PLAN
1" = 10'-0"

GENERAL NOTES - SITE PLAN

A. PRIMARY INSTALLATION FURNISHED AND INSTALLED BY UTILITY COMPANY.

B. COORDINATE TRANSFORMER PAD AND SERVICE INSTALLATION REQUIREMENTS WITH UTILITY COMPANY.

C. COORDINATE SCHEDULE OF WORK WITH CONSTRUCTION MANAGER AND UTILITY COMPANY.

D. SITE LIGHTING CIRCUITS ROUTED BACK TO LIGHTING CONTROL PANEL IN MAIN ELECTRICAL ROOM.

E. PERFORM ALL EXCAVATION, TRENCHING AND BACKFILL REQUIRED FOR THE INSTALLATION OF THIS WORK. ALL BACKFILL SHALL BE BROUGHT TO FINISHED GRADE AND MATCH SURROUNDING CONDITIONS. RESTORE ALL DISTURBED PAVING AND LANDSCAPING TO ORIGINAL CONDITIONS. PULL BOXES SHALL BE PROVIDED OF THE TYPE MEETING THE REQUIREMENTS AND CONDITIONS FOR THE USE INTENDED. PROVIDE QUANTITY AND TYPE OF PULL BOXES TO MEET INSTALLATION REQUIREMENTS.

F. COORDINATE DEPTH AND ROUTING OF UNDERGROUND WORK WITH OTHER SITE UTILITIES.

G. COORDINATE ALL SITE CONDUIT ROUTING WITH OTHER DISCIPLINES. ROUTING SHOWN ON DRAWINGS IS FOR REFERENCE ONLY AND MAY BE MODIFIED TO ACCOMMODATE FOR SITE CONDITIONS.

KEYNOTES

EL4 MAINTAIN CONTINUITY OF BRANCH WIRING TO EXISTING SITE LIGHTING. RE-ROUTE AND ADD NEW CONDUIT AND WIRING AS NEEDED TO AVOID SITE WORK.

EP2 NEW UTILITY CO. CT CABINET AND METER TO BE INSTALLED FOLLOWING PREPARATION FOR NEW SERVICE CONNECTION. COORDINATE EXACT REQUIREMENTS FOR UTILITY CONNECTION WITH UTILITY CO. VERIFY EXACT LOCATION(S) WITH UTILITY CO. PRIOR TO INSTALLATION.

EP6 ROUTE NEW 3" CONDUIT WITH PULL STRING BELOW GRADE TO EXISTING DISCONNECT SWITCH. STUB-UP AND CAP CONDUIT FOR CONNECTION TO NEW PANEL 'DP1'.

EP8 MAINTAIN EXISTING ELECTRICAL AND TECHNOLOGY SERVICE ENTRY CONDUITS DURING CONSTRUCTION. EXISTING BUILDING TO REMAIN OPERATIONAL UNTIL NEW SERVICE CONNECTION IS READY.

EP9 EXISTING UTILITY CO. METER IS SCHEDULED FOR DEMOLITION. MAINTAIN EXISTING CONNECTION UNTIL NEW SERVICE CONNECTION IS READY.

EP10 EXISTING ENCLOSED CIRCUIT BREAKER IS SCHEDULED FOR DEMOLITION. MAINTAIN EXISTING CONNECTION UNTIL NEW SERVICE CONNECTION IS READY.

EP11 PROVIDE CONDUIT UNDER SLAB FROM ABOVE FINISHED CEILING FOR POWER DEVICES. CONDUIT SIZE AND QUANTITY AS NOTED ON PLANS.

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STATE OF OHIO
SAMUEL H. BOHMAN
89475
REGISTERED
PROFESSIONAL ENGINEER

SHP
311 ELM STREET, SUITE 600
CINCINNATI, OH 45202 513.651.2112

BRADFORD PUBLIC LIBRARY
CHILDREN'S AREA ADDITION
138 E. MAIN STREET, BRADFORD, OH 45308
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ISSUANCES

1	08-28-26	DESIGN DEVELOPMENT
2	09-14-26	EARLY SITE PACKAGE

ELECTRICAL SITE PLAN

COMM NO. 2026032.01

E701

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0'-1" REFERENCE LINE