

Facility Expansion

Remington Seeds

5585 SR 571 E, Greenville, OH 45331

ARCHITECT

App Architecture

615 Woodside Drive
Englewood, Ohio 45322
(937) 836-8898

STRUCTURAL ENGINEER

L2 Engineering, LLC

7949 Washington Woods Dr.
Dayton, Ohio 45459
(513) 907-4134

GENERAL CONTRACTOR

Brumbaugh Construction

3520 State Route 49
Arcanum, Ohio 45304
(937) 692-5107

DRAWING INDEX

GENERAL

G0.1 COVER SHEET

CIVIL

C1 COVER SHEET
C2 EXISTING CONDITIONS PLAN
C3 SITE & GRADING PLAN
C4 CONCEPTUAL WATER LINE PLAN
C5 SWPPP
C6 SWPPP
C7 SWPPP

ARCHITECTURAL

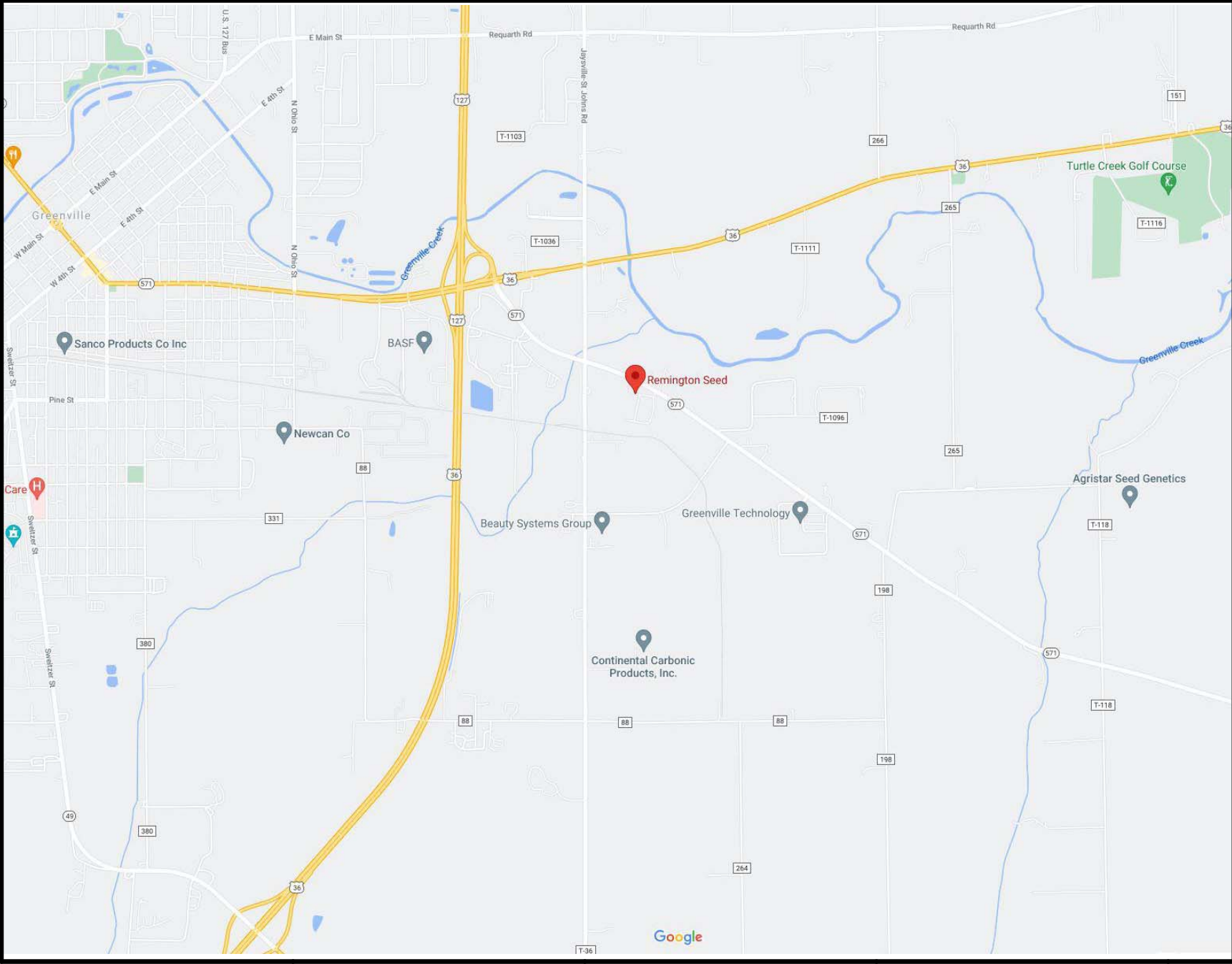
A0.1 ABBREVIATIONS AND SYMBOLS
A0.4 WALL TYPES
A1.1 PARTIAL DEMOLITION & REFERENCE PLANS
A1.2 ENLARGED PLANS & SCHEDULES
A1.3 ENLARGED PLANS & SECTIONS
A1.6 ROOF PLAN
A3.1 EXTERIOR ELEVATIONS

STRUCTURAL

S0.1 GENERAL NOTES
S0.2 GENERAL NOTES
S0.3 SPECIAL INSPECTIONS
S1.0 FOUNDATION PLAN
S3.1 STRUCTURAL DETAILS
S3.2 STRUCTURAL DETAILS

* PLUMBING, MECHANICAL, ELECTRICAL, FIRE PROTECTION & TECHNOLOGY (IF APPLICABLE) SHALL BE SUBMITTED BY GENERAL CONTRACTOR AT LATER DATE.

VICINITY MAP



CODE INFORMATION

(OBC 2017)

PROJECT DESCRIPTION

PROJECT CONSISTS OF THE DESIGN AND CONSTRUCTION OF A 55,265 SF STORAGE FACILITY AND 500 SF OFFICE ADDITIONS. CONSTRUCTION IS A SLAB-ON-GRADE, PRE-ENGINEERED METAL BUILDING, FULLY SPRINKLED AND SEPARATED BY A 3-HOUR FIREWALL SEPARATION FROM THE REMAINING, EXISTING FACILITY.

USE GROUP CLASSIFICATION

OBC (302) USE GROUP:
• S-1 (MODERATE-HAZARD STORAGE)

CONSTRUCTION TYPE CLASSIFICATION

OBC (602) CONSTRUCTION TYPE:
• IIB CONSTRUCTION

HEIGHT AND AREA LIMITATIONS

ALLOWABLE HEIGHT (TABLE 504.3): 75 FEET
ALLOWABLE AREA (506.2): 70,000 SF
PROPOSED HEIGHT: 26 FEET
PROPOSED AREA: (LESS ALLOWABLE INCREASE DUE TO OPEN PERIMETER): 55,765 SF

OCCUPANT LOAD

OBC (1001) PER TABLE 1004.1.2:
• B - BUSINESS = 1 PER 100 GROSS/ 500 SF = 5 OCCUPANTS
• S-1 - WAREHOUSE = 1 PER 500 GROSS/ 55,265 = 110 OCCUPANTS

WAREHOUSE IS NON-CONDITIONED AND NON-HEATED AND USED TO STORE SEED PRODUCT PALLETS. OCCUPANCY SHALL CONSISTENT OF FORKLIFT TRAFFIC ONLY

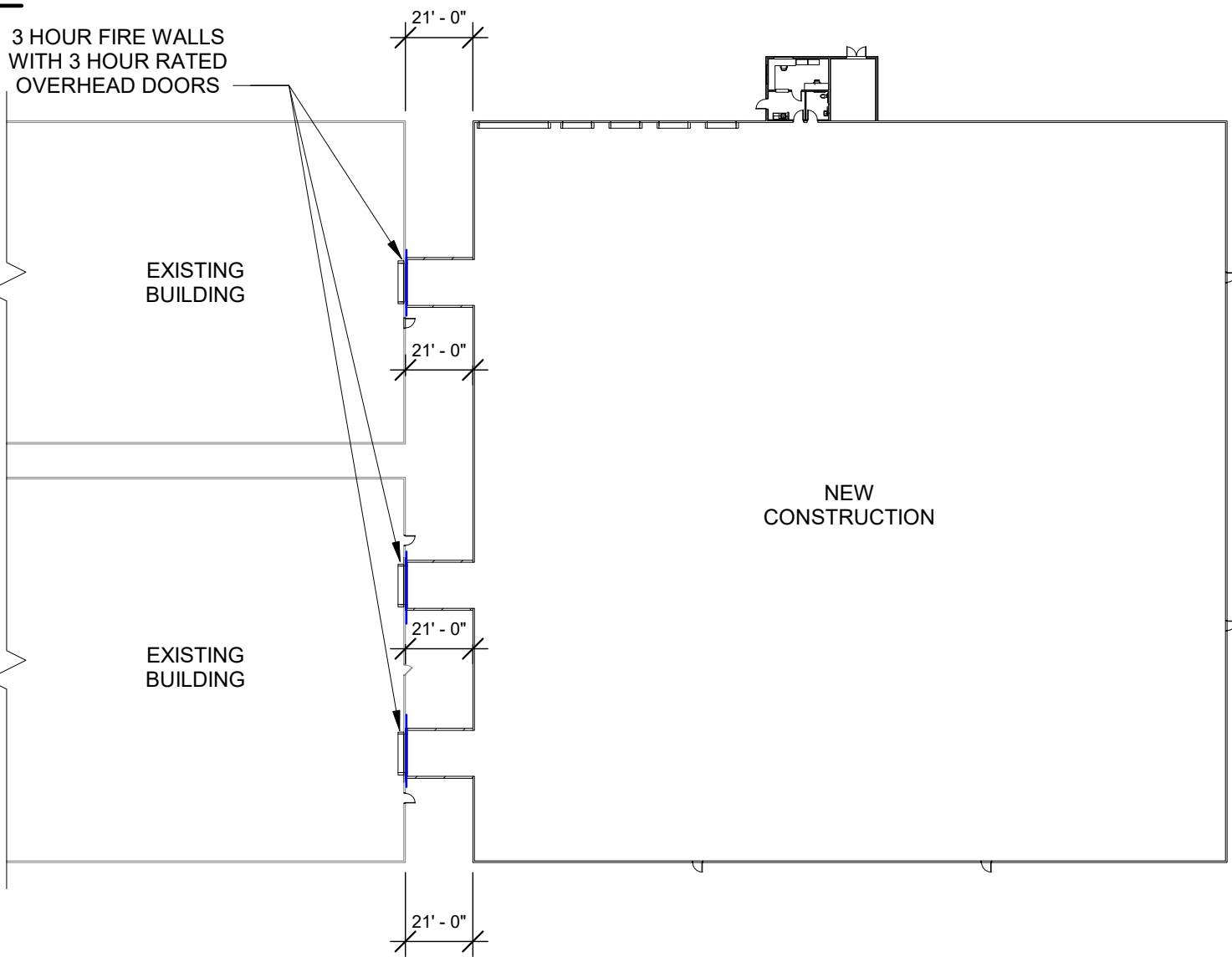
FIRE PROTECTION

BUILDING DESCRIPTION : FULLY SPRINKLERED

OTHER CODE PROVISIONS

OBC (T601) FIRE RESISTANCE RATINGS:

PRIMARY STRUCTURAL FRAME = 0 HRS
EXTERIOR BEARING WALLS = 0 HRS
INTERIOR BEARING WALLS = 0 HRS
EXTERIOR NON-LOAD BEARING WALLS = 0 HRS
INTERIOR NON-LOAD BEARING WALLS = 0 HRS
FLOOR CONSTRUCTION INCLUDING BEAMS = 0 HRS
ROOF CONSTRUCTION INCLUDING BEAMS = 0 HRS



KEY PLAN

App Architecture
creative focused design

615 Woodside Drive, Englewood, Ohio 45322
T 937.836.8898 F 937.832.3696
www.app-arch.com

Facility Expansion
Remington Seeds

5585 SR 571 E, Greenville, OH 45331



ISSUE

NO.	DATE	DESCRIPTION
08/06/21	BID SET	

DATE 08/06/21

JOB NO. 3929.00

DRAWN DRM / AJB

CHECKED TJB

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TITLE
COVER SHEET

SHEET NO.

G0.1

DEVELOPMENT PLAN
FOR
REMINGTON SEED
LOCATED AT
5585 OH-571
CITY OF GREENVILLE, DARKE COUNTY, OHIO
OCTOBER 19, 2021

GENERAL

ALL CONSTRUCTION (METHODS AND MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF GREENVILLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND STANDARD DRAWINGS AND AS SHOWN HEREON AND THE LATEST EDITION OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, "CONSTRUCTION & MATERIAL SPECIFICATIONS" SHALL APPLY.

STANDARD LAYOUT NOTES

- BUILDING DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECT'S PLANS.
- ALL PAVEMENT MARKINGS SHALL MEET CITY OF GREENVILLE STANDARDS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION, NOR SAFETY ON THE JOB SITE, NOR SHALL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER NOR THE PRESENCE OF THE ENGINEER AT A CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR OF THEIR OBLIGATIONS, DUTIES, AND RESPONSIBILITIES INCLUDING ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES.

STORM SEWER

- ALL CATCH BASINS WITH GRATE TYPE LIDS SHALL BE BICYCLE SAFE.
- SEE TRENCH DETAILS FOR BACKFILL REQUIREMENTS.
- MATERIALS SHALL CONFORM TO THE FOLLOWING:
REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76
REINFORCED CONCRETE PIPE JOINTS CONFORMING TO ASTM C-443
PVC PIPE CONFORMING TO ASTM D-3034
PVC PIPE JOINTS CONFORMING TO ASTM D-3034, D-3212
A-2000 PIPE CONFORMING TO ASTM F-949
A-2000 PIPE JOINTS CONFORMING TO ASTM F-3212
PERMA-LOC OR ULTRA RIB PIPE CONFORMING TO ASTM F-794 AND AASHTO M304
PERMA-LOC OR ULTRA RIB PIPE JOINTS CONFORMING TO ASTM D-3212
ADS N12 WITH BELL JOINTS
- ALL EXISTING MANHOLES AND CATCH BASINS SHALL BE CORED, AND GROUT AROUND THE INVERT OF THE PROPOSED CONDUIT
- ALL STORM MANHOLE CASTINGS SHALL BE NEENAH R-1767 WITH 4 HOLE VENTED LIDS.
- CATCH BASINS ARE TYPE ODOT 2-2B AS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED.
- ALL STORM PIPE TO BE ADS N-12 UNLESS OTHERWISE NOTED.

WATER LINE NOTES

- ALL WATER MAIN AND LATERALS SHALL BE INSTALLED A MINIMUM OF 60" DEEP AND COVERED WITH 1/4" NATURAL ROUNDS OR SMALLER, SHALL BE LAID WITH AT LEAST A TEN FOOT (10') HORIZONTAL SEPARATION FROM ANY SANITARY SEWER LINE AND SHALL BE LAID AT LEAST EIGHTEEN INCHES (18") VERTICAL SEPARATION FROM ANY SANITARY IN ACCORDANCE WITH THE "TEN STATE STANDARDS."
UTILITY CROSSING:
WATER LINE OVER SEWER: MINIMUM 18" VERTICAL SEPARATION. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SUCH THAT BOTH JOINTS WILL BE EQUIDISTANT AND AS FAR FROM THE SEWER AS POSSIBLE.
WATER LINE UNDER SANITARY SEWER: MINIMUM 18" VERTICAL SEPARATION. ONE LENGTH (13' MINIMUM) OF PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SUCH THAT EACH END IS EQUIDISTANT FROM THE WATER MAIN. ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER IS REQUIRED.
- THRUST BLOCKS OR RESTRAINED LENGTH ON ALL FITTINGS OF WATER LINE CONSTRUCTION AS PER CITY OF GREENVILLE STANDARDS.
- NO SERVICE CONNECTIONS SHALL BE MADE TO THE WATER MAIN UNTIL THE MAIN LINE HAS BEEN TESTED, INSPECTED AND RELEASED FOR TAPS BY THE MUNICIPALITY.
- SEE TRENCH DETAILS FOR BACKFILL REQUIREMENTS.
- WATER LATERAL SHALL BE PROVIDED AS SHOWN IN THE PLANS TO WITHIN 5' OF BUILDING, AND CAPPED. THE CAPPED END SHALL BE MARKED USING A 4x4 EXTENDING 4 FEET ABOVE GRADE AND PAINTED BLUE.
- WATER LATERAL SHALL BE TAPPED INTO THE EXISTING MAIN BY THE CITY OF GREENVILLE STANDARDS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF GREENVILLE.
- AN ASSE 1013 DEVICE MUST BE INSTALLED AFTER THE WATER METER AND TESTED IMMEDIATELY AFTER INSTALLATION.
- SEE SHEET 4 OF 6 FOR STANDARD FIRE HYDRANT DETAIL AND NOTES.

SANITARY SEWER NOTES

- ALL SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO THE CITY OF GREENVILLE SANITARY DEPARTMENT SPECIFICATIONS AND THE CURRENT STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY RULE AND REGULATIONS.
- SANITARY SEWER PIPE AND FITTING SHALL BE POLYVINYL CHLORIDE (PVC) CONFORMING TO ASTM D-3034, SDR 35, SANITARY SEWER PIPE JOINTS SHALL CONFORM TO ASTM D-3212 FOR POLYVINYL CHLORIDE (PVC) PIPE, UNLESS OTHERWISE NOTED.

SITE INFORMATION

CURRENT AND PROPOSED ZONING: GENERAL INDUSTRIAL DISTRICT
EXISTING USE & PROPOSED USE: PROCESSING AND DISTRIBUTION OF SEED

TOTAL ACREAGE OF SITE = 15.013

PROPOSED SITE INFORMATION

TOTAL ACREAGE OF PROPOSED SITE IMPROVEMENTS = 1.63 ACRES
IMPERVIOUS AREA ADDED

NUMBER OF PARKING SPACES ADDED = 2 PARKING SPACES



LOCATION MAP
NTS



SHEET INDEX

- | | |
|----|-----------------------------|
| C1 | COVER SHEET |
| C2 | EXISTING CONDITIONS PLAN |
| C3 | SITE & GRADING PLAN DETAILS |
| C4 | WATER LINE PLAN |
| C5 | SWPPP |
| C6 | SWPPP |
| C7 | SWPPP |

EXISTING UTILITIES:

EXISTING UNDERGROUND UTILITIES & SERVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO THE BEST INFORMATION AVAILABLE. SOURCES BEING, PLANS PROVIDED BY THE CITY OF MARYSVILLE, OUPS MARKINGS, AND A UTILITY LOCATE SCAN BY UNDERGROUND DETECTIVE COMBINED WITH OBSERVED EVIDENCE OF UTILITIES, TO DEVELOP A VIEW OF THOSE UNDERGROUND UTILITIES, HOWEVER LACKING EXCAVATION, THE EXACT LOCATION CANNOT BE DETERMINED. THE LOCATIONS SHOWN ARE INTENDED ONLY AS A GUIDE & CANNOT BE GUARANTEED ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- CONTACTING ALL UTILITY OWNERS TEN DAYS PRIOR TO CONSTRUCTION & ADVISING THEM OF THE WORK TO TAKE PLACE.
- SOLICITING THEIR AID IN LOCATING & PROTECTING ANY UTILITY WHICH MAY INTERFERE WITH CONSTRUCTION.
- EXCAVATING & VERIFYING THE HORIZONTAL & VERTICAL LOCATION OF EACH UTILITY.
- ALL DAMAGE TO ANY EXISTING UTILITY.

THE FOLLOWING ARE KNOWN OWNERS OF UNDERGROUND UTILITIES WHO SHALL BE NOTIFIED TEN DAYS PRIOR TO CONSTRUCTION TO FIELD LOCATE SAID UTILITIES. THE CONTRACTOR SHALL NOTIFY THE BELOW UTILITY OWNERS, OUPS (1-800-362-2764) & DIRECTLY NOTIFY ANY NON-MEMBERS OF OUPS. IF, DURING CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THE CONTRACTOR.

ELECTRIC	GAS	TELECOMMUNICATIONS
AES OHIO (800) 253-5801	VECTREN/CENTERPOINT (800) 227-1376	CENTURYLINK (877) 862-9343
		SPECTRUM (833) 267-6094

STORM, WATER & SANITARY
CITY OF GREENVILLE
SAN PHONE: (937) 548-3530
STM PHONE: (937) 548-1815
WTR PHONE: (937) 548-2415

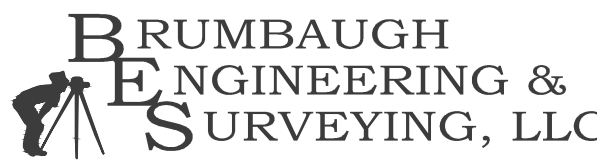


TICKET REFERENCE NUMBER:
A115802272-00A

APPLICANT:
REMINGTON SEED
5585 OH-571, GREENVILLE, OH 45331
937.548.4193

DEVELOPER:
BRUMBAUGH CONSTRUCTION
3520 S.R. 49, ARCANUM, OH 45331
937.564.3431

PREPARED BY:



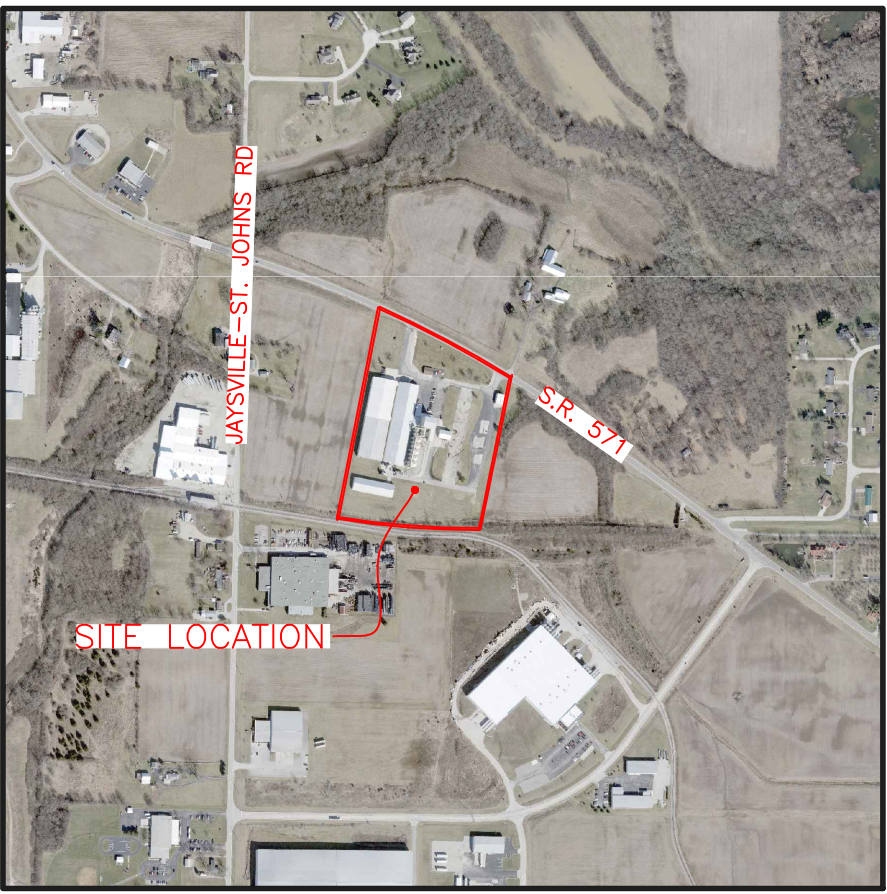
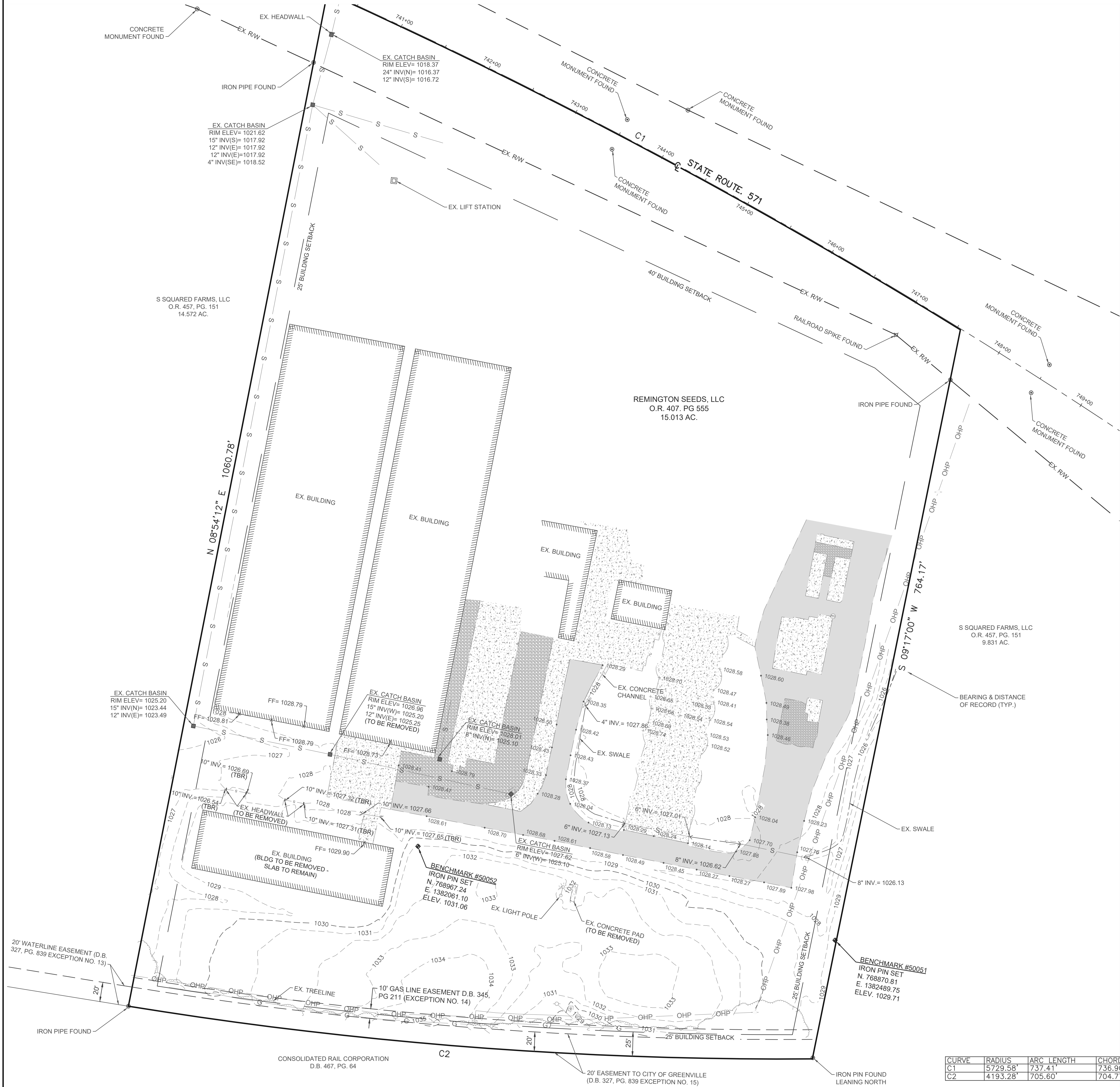
2270 SOUTH MIAMI STREET
WEST MILTON, OHIO 45383
PHONE (937) 698-3000
FAX (937) 698-3928



STEVEN R. FOX
REGISTERED ENGINEER OF OHIO NO. 82926

Revisions			
1			SRF
NO.	DATE	DESCRIPTION	BY

FOR CONSTRUCTION



LOCATION MAP
NTS



LEGEND

- EXISTING POWER POLE
- EXISTING GAS METER
- EXISTING GAS VALVE
- EXISTING LIGHT POLE
- EXISTING CATCH BASIN
- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING GRAVEL
- OHP EXISTING OVERHEAD POWER
- G EXISTING GAS
- S EXISTING STORM
- + 1028.43 EXISTING PAVEMENT ELEVATION
- + 1028.53 EXISTING CONCRETE ELEVATION

SURVEY NOTES:

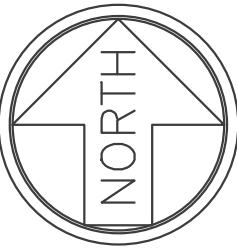
- PROPERTY LINE LOCATIONS, BEARINGS AND DISTANCES SHOWN ARE FROM RECORDED INFORMATION.
- THIS SURVEY IS FOR TOPOGRAPHICAL PURPOSES ONLY. ALL TOPOGRAPHICAL FEATURES SHOWN ARE EITHER FROM ABOVE GROUND FEATURES READILY OBSERVABLE, OR FROM EXISTING RECORDS WHOSE ACCURACY CAN NOT BE CERTIFIED BY US.

BASIS OF HORIZONTAL AND VERTICAL CONTROL:

THE PROJECT CONTROL POINTS AND BENCHMARKS ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83 FOR HORIZONTAL LOCATION AND NAVD88 DATUM FOR VERTICAL ELEVATIONS.

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	5729.58'	737.41'	736.90'	S 64°11'01" E	7°22'27"
C2	4193.28'	705.60'	704.77'	N 87°47'57" W	9°38'28"

PLAN NORTH



2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

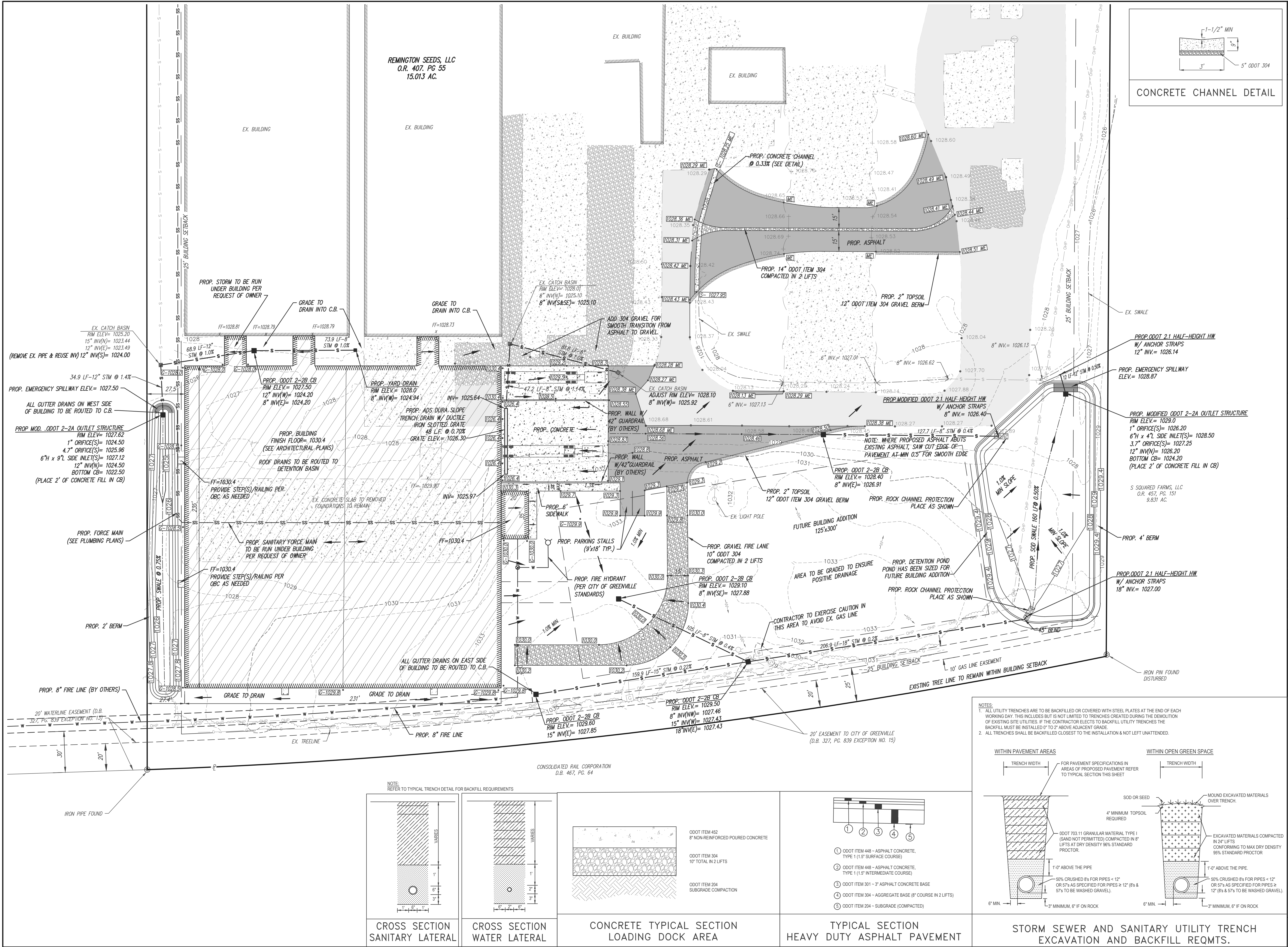
HORIZONTAL SCALE 1"=50'
0' 50' 100' 150'

BRUMBAUGH & ENGINEERING, LLC
SURVEYING, LLC
2270 SOUTH MIAMI STREET
WEST MILTON, OHIO 45383
PHONE: (937) 698-3000
FAX: (937) 698-3928
EMAIL: John@bes-engineer.com



PROJECT NO.:	452.21
DATE:	10/19/2021
DRAWN BY:	SRF
DESIGNED BY:	
CHECKED BY:	JUB
REVISED	
1.	
2.	
3.	
4.	
5.	
6.	
7.	

EXISTING CONDITIONS PLAN
FOR
REMINGTON SEED
LOCATED AT
5585 S.R.-571 CITY OF GREENVILLE, DARKE CO. OHIO



PLAN NORTH

2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

HORIZONTAL SCALE 1"=30'
VERTICAL SCALE 1"=60'

BRUMBAUGH & ENGINEERING, LLC
SURVEYING, LLC
2270 SOUTH MIAMI STREET
WEST MILTON, OHIO 45383
PHONE: (937) 698-3000
FAX: (937) 698-3928
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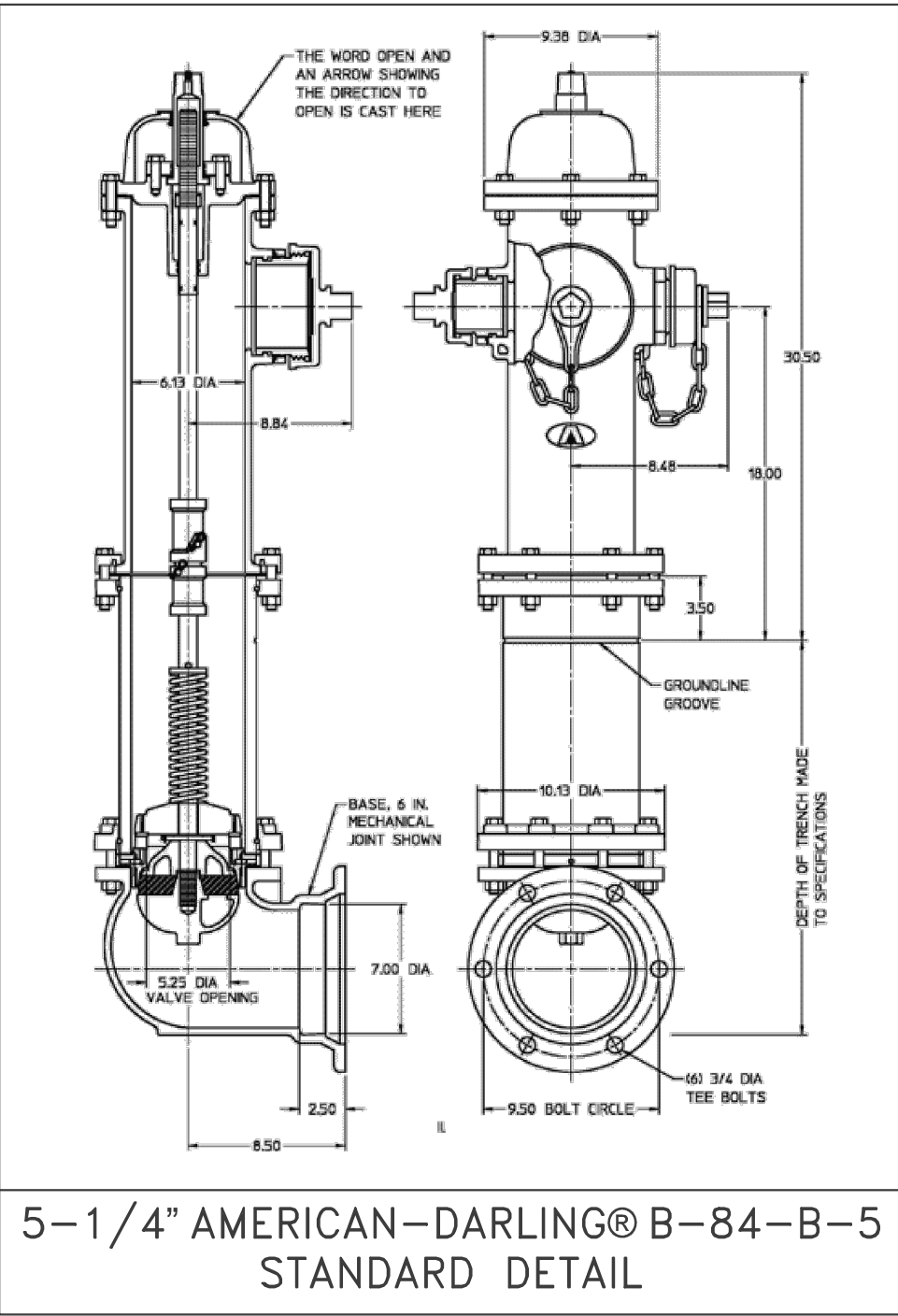
STATE OF OHIO
STEVEN R. FOX
E-82926
REGISTERED PROFESSIONAL ENGINEER

REGISTERED ENGINEER OF OHIO
NO. 82826
STEVEN R. FOX
10/19/2021

PROJECT NO.: 452.21
DATE: 10/19/2021
DRAWN BY: SRF
DESIGNED BY: SRF
CHECKED BY: JJB
REVISED
1. (12.8.21) REVISED WATER VALVE LOCATION
2.
3.
4.
5.
6.
7.

SITE & GRADING PLAN
FOR
REMINGTON SEED
LOCATED AT
5585 S.R.-571 CITY OF GREENVILLE, DARKE CO. OHIO

SHEET OF C3 7



- FIRE HYDRANT NOTES:**
- MANUFACTURER - AMERICAN FLOW CONTROL
 - MODEL AMERICAN DARLING B848-5
 - DEPTH - 5' TYPICAL OR APPROVED FOR SPECIFIC APPLICATION
 - PUMPER - 1 QTY. 5 STORTZ COUPLING LOK
 - SIDE HOSE - 2 QTY: 2-1/2" 3.11 PITCH DIAMETER X 6 THREADS PER INCH (TP)

- #### ADDITIONAL SPECS:
- NO CHAINS
 - 80S NUT AND CAP
 - OPEN RIGHT
 - STAINLESS STEEL PIPE PLUG (NON-SELF DRAINING)
 - STAINLESS STEEL SPRING
 - STAINLESS STEEL UPPER ROD
 - STAINLESS STEEL LOWER ROD
 - 6" MJ OR 6" ALPHA FASHION BONDED EPOXY BASE
 - ORIENTATED 0 DEGREES
 - DUCTILE IRON CASTING TOP WITH FUSION BONDED EPOXY
 - EPDM RUBBER ORIENTED VALVE
 - DUCTILE IRON CASTING VALVE BOTTOM WITH FUSION BONDED EPOXY
 - 316 STAINLESS STEEL ABOVE GRADE BOLTING
 - 316 STAINLESS STEEL BELOW GRADE BOLTING
 - HYDRANT PAINT: SAFETY YELLOW

- FIRE WATER LINE NOTES:
- 8" FIRE LINE TO BE C-900 PIPING
 - ALL WATERLINE MAIN & JOINTS TO BE RESTRAINED PER CITY STANDARDS.
 - PIPE TO BE INTERNALLY RESTRAINED (RIEBERLOK OR FIELDLOK GASKETS)
 - ALL FITTINGS TO BE MECHANICALLY RESTRAINED.
 - NON-POTABLE USE ONLY.

- METER PIT NOTES:
- SUMP PUMP TO BE INSTALLED TO PREVENT FLOODING.
- METER SHOULD BE A 8" MASTER METER OCTAVE READING ALL DIGITS DOWN TO 1 CUBIC FOOT AND TRPL CONNECTOR.
- RADIO TO BE A SENSUS SMARTPOINT FOR FIXED BASE SYSTEMS 520 M PIT SET MODULE.
- CONTRACTOR TO COORDINATE LOCATION OF ELECTRIC LINE WITH OWNER

NOTES: OFFSITE IS SHOWN FOR CONCEPT ONLY
WATER LINE TO BE DESIGNED/BUILT BY OTHERS

STORM WATER POLLUTION PREVENTION PLAN

DESCRIPTION OF CONSTRUCTION ACTIVITIES:

CONSTRUCTION ACTIVITIES WILL CONSIST OF IMPROVEMENTS ON A 15.013 ACRE LOT. IMPROVEMENTS WILL INCLUDE A BUILDING ADDITION, ASPHALT DRIVE EXPANSION, AND A STORM WATER DETENTION BASIN. NO IMPROVEMENTS WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY.

SCHEDULE:

PROJECT START DATE: 7/1/2021
PROJECTED COMPLETION DATE: 7/1/2022
THIS PROJECT IS FOR THE DEVELOPMENT OF A COMMERCIAL BUSINESS (REMINGTON SEED) IN THE CITY OF GREENVILLE, OHIO. THE IMPLEMENTATION SCHEDULE FOR THIS PROJECT IS AS FOLLOWS:
1. SILT FENCE IN PLACE & ALL EROSION CONTROL DEVICES AS APPLICABLE.
2. CLEARING OF TREES AND BRUSH NOT PREVIOUSLY CLEARED. IN THE PROPOSED PAVEMENT AND BUILDING AREAS AS WELL AS THE AREA OF THE PROPOSED DETENTION POND AS PER THIS SWP3 PLAN.
3. GRADING OF THE SITE, INCLUDING DETENTION POND.
4. INSTALLATION OF STORM SEWER.
5. ASPHALT PAVEMENT AREA.
6. SEED AND STABILIZE SITE.
7. REMOVE TEMPORARY EROSION CONTROL FEATURES.

THIS SWP3 PLAN HAS BEEN PREPARED FOR CONTINUATION OF THE CONSTRUCTION PHASE OF THE PROJECT.

SUMMARY OF SITE AREA:

TOTAL SITE AREA 15.013 ACRES
AREA OF DISTURBANCE OR PROPOSED IMPROVEMENTS 2.16 ACRES

RECEIVING WATERS:

TRIBUTARY TO GREENVILLE CREEK.

RUNOFF COEFFICIENT (AREA OF IMPROVEMENTS):

TOTAL AREA FOR PROPOSED IMPROVEMENTS: 3.08 ACRES

PRE-CONSTRUCTION:

LAND USE	SOIL TYPE	AREA(ACRES)	CN
GRASS (GOOD)	C	2.62	74
IMPERVIOUS	C	0.46	98

WEIGHTED CN= 79

POST-CONSTRUCTION:

LAND USE	SOIL TYPE	AREA(ACRES)	CN
GRASS(GOOD)	C	1.39	74
IMPERVIOUS	C	1.63	98
GRAVEL	C	0.06	89

WEIGHTED CN= 87

IMPERVIOUS AREA:

PRE-CONSTRUCTION 18.83%
POST-CONSTRUCTION 52.92%

NATIVE SOIL INFORMATION:

CLASSIFICATION:

CrA
MmB
MmC2

DESCRIPTION:

(CrA)=CROSBY SILT LOAM, SOUTHERN OHIO TILL PLAIN, 0 TO 2 PERCENT SLOPES
(MmB)=MIAMIAN SILT LOAM, 2 TO 6 PERCENT SLOPES
(MmC2)=MIAMIAN SILT LOAM, 6 TO 12 PERCENT SLOPES, ERODED

HYDROLOGIC SOIL GROUP:

(CrA)=CD
(MmB)=C
(MmC2)=C

PERMIT APPLICATION:

- THE CONTRACTOR/OWNER SHALL OBTAIN A (NOI) NPDES PERMIT FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY (DEPA) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY PER ODOT SUPPLEMENTAL SPECIFICATION 832.
- AFTER FINAL STABILIZATION OF THE SITE, THE OWNER SHALL SUBMIT A "NOTICE OF TERMINATION" (NOT) TO OHIO ENVIRONMENTAL PROTECTION AGENCY (DEPA). A COPY OF THIS NOTICE SHALL BE FORWARDED TO THE PROJECT ENGINEER.

WETLANDS CLASSIFICATION:

NON-APPLICABLE

MAINTENANCE/INSPECTION PROCEDURES:

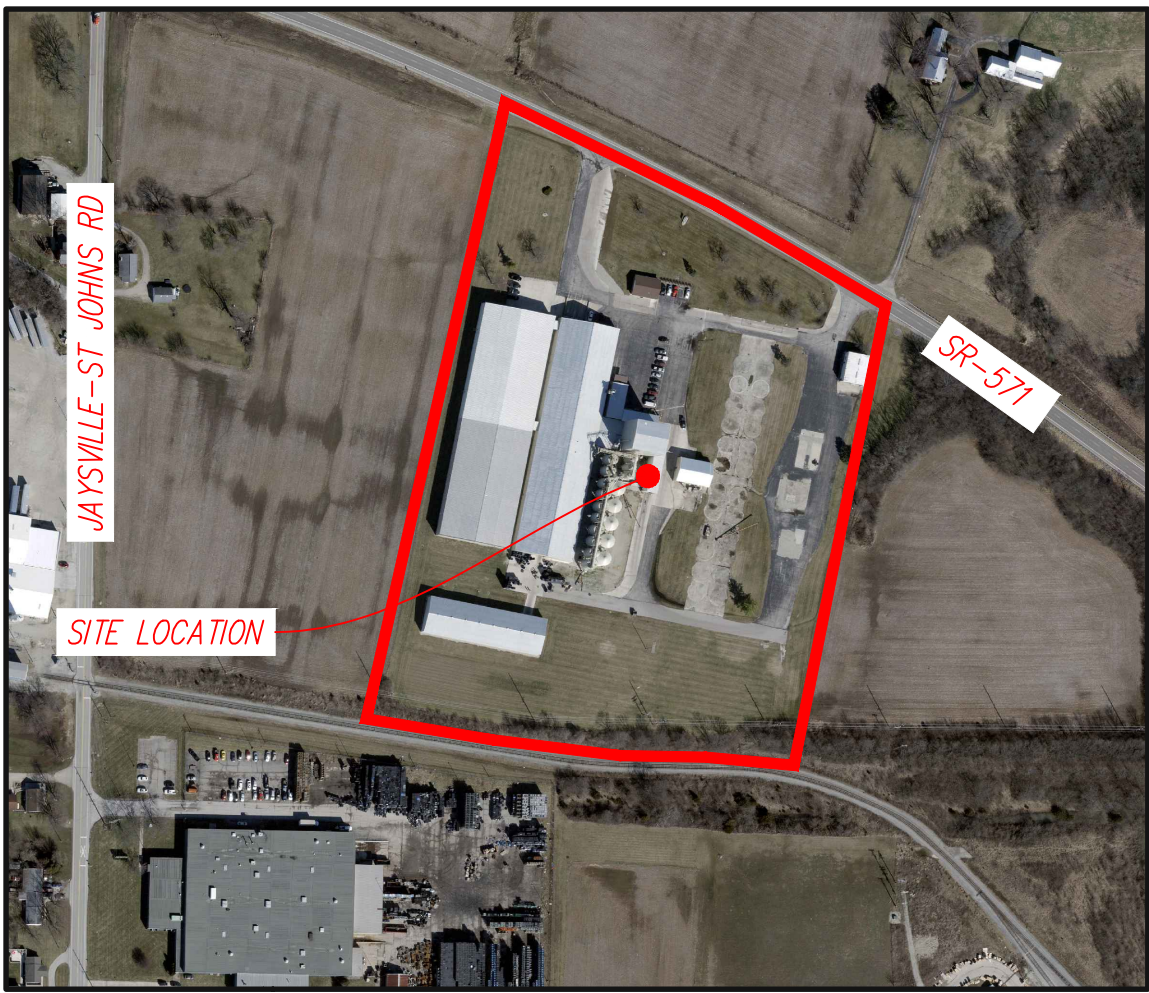
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE CONTROLS EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM WITH 0.5 INCH OR MORE IN DEPTH AND MAINTAIN WRITTEN RECORDS OF INSPECTION DATES, TIMES, DEFECTS, AND CORRECTIVE ACTIONS.
- THE CONTRACTOR SHALL MAINTAIN WRITTEN RECORDS OF THE FOLLOWING:
 - MAJOR GRADING ACTIVITY DATES BY PARTICULAR AREA.
 - DATES WHEN CONSTRUCTION ACTIVITIES CEASED TEMPORARILY OR PERMANENTLY.
 - DATES WHEN AN AREA IS TEMPORARILY OR PERMANENTLY STABILIZED.
 - ANY REQUIRED PLAN UPDATES

CONTROLS:

- STORMWATER MANAGEMENT SHALL BE PROVIDED BY SIDE DITCHES AND/OR SWALES AND AS SHOWN ON THE ATTACHED PLAN. IN ADDITION TO TEMPORARY SEDIMENT POND AND SEDIMENT CONTROL ON INLETS.
- WASTE DISPOSAL SHALL CONSIST OF ALL CONSTRUCTION SITE WASTE BEING PROPERLY AND PROMPTLY REMOVED FROM THE SITE IN ACCORDANCE WITH ODOT ITEM 202.
- TEMPORARY SANITARY FACILITIES SHALL BE PROVIDED BY THE CONTRACTOR FOR EMPLOYEES DURING CONSTRUCTION.
- OFFSITE VEHICLE TRACKING SHALL BE REDUCED BY SWEEPING THE EXISTING HIGHWAYS ADJACENT TO THE SITE ENTRANCES AS NECESSARY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. ALL DUMP TRUCKS HAULING MATERIAL TO AND FROM THE SITE SHALL BE PROPERLY COVERED.

INSPECTION REPORTS:

CONTRACTOR SHALL BE RESPONSIBLE FOR SENDING INSPECTION REPORTS IF REQUESTED - RETAIN HARD COPY ONSITE FOR REVIEW BY OEPA AND/OR CITY.



LOCATION MAP
NTS



SOIL SITE MAP
NTS

STORMWATER POLLUTION PREVENTION
PLAN GENERAL NOTES & REQUIREMENTS

ADMINISTRATIVE REQUIREMENTS

- IF SITE DISTURBANCE IS GREATER THAN 1 ACRE, FILE THE NOI WITH OHIO EPA AT LEAST 21 DAYS PRIOR TO THE START OF ANY CONSTRUCTION.
- IF PROJECT IS WITHIN AN URBANIZED AREA (UA) OR AREA WHERE THERE IS LOCAL APPROVAL OF SEDIMENT AND EROSION CONTROL PLANS, A COPY OF THE NOI MUST ALSO BE SUBMITTED TO THE LOCAL APPROVING AGENCY.
- NO CONSTRUCTION ACTIVITIES MAY BEGIN UNTIL YOU RECEIVE A DIRECTORS AUTHORIZATION LETTER GRANTING COVERAGE UNDER THE NPDES PERMIT.
- A COPY OF THE NOI, DIRECTORS AUTHORIZATION LETTER AND STORMWATER POLLUTION PREVENTION PLAN (SWP3) MUST BE KEPT ON SITE DURING WORKING HOURS.
- AMEND THE SWP3 WHENEVER THERE IS A CHANGE IN SITE DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT REQUIRES THE INSTALLATION OF BEST MANAGEMENT PRACTICES (BMPs) OR MODIFICATIONS TO EXISTING BMPs.
- WHILE THE SWP3 IS NOT TYPICALLY SUBMITTED TO OHIO EPA AT THE TIME THE NOI IS FILED, OHIO EPA MAY REVIEW THE SWP3 AT ANY TIME. IF OHIO EPA REQUESTS CHANGES TO THE SWP3 IN WRITING, THEY MUST BE MADE WITHIN 7 DAYS OF THE REQUEST.
- MAINTAIN A WRITTEN DOCUMENT ACKNOWLEDGING UNDERSTANDING OF THE SWP3 AND RESPONSIBILITIES UNDER THE PLAN SIGNED BY ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF THE SWP3.
- FORTY- EIGHT HOURS PRIOR TO ANY EARTH DISTURBING WORK, THE CONTRACTOR SHALL NOTIFY THE VILLAGE DEPARTMENT OF WATER.

REQUIREMENTS REGARDING EROSION CONTROLS

- BMPs, WHICH PRESERVE THE EXISTING NATURAL SITE CONDITION AS MUCH AS FEASIBLE ARE REQUIRED TO BE UTILIZED IN THE SWP3, SUCH AS PHASED CONSTRUCTION TO MINIMIZE LAND DISTURBED AT ANY ONE TIME, PRESERVING RIPARIAN AREAS AND LEAVING EXISTING VEGETATION IN PLACE FOR AS LONG AS POSSIBLE.
- STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 7 DAYS OF REACHING FINAL GRADE.
- AREAS WITHIN 50 FEET OF A STREAM (INCLUDING INTERMITTENT STREAMS) MUST BE STABILIZED WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCES.
- TEMPORARY STABILIZATION OF DISTURBED AREAS THAT WILL BE REWORKED, BUT NOT FOR 21 DAYS OR MORE FROM THE DATE THEY WERE LAST DISTURBED, MUST BE INITIATED WITHIN 7 DAYS OF LAST DISTURBANCE.
- DISTURBED AREAS INTENDED TO BE LEFT IDLE OVER WINTER MUST BE STABILIZED PRIOR TO THE ONSET OF WINTER WEATHER, I.E., SUSTAINED SNOW COVER OR FROZEN GROUND CONDITIONS.
- SPECIAL MEASURES MUST BE TAKEN AS NECESSARY TO STABILIZE DRAINAGE CHANNELS AND STORM WATER OUTFALLS.
- RUNOFF MUST BE DIVERTED AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHEREVER PRACTICABLE.
- PROPERTIES ADJACENT TO THE SITE OF LAND DISTURBANCE WILL BE PROTECTED FROM SEDIMENT DEPOSITION. THIS WILL BE ACCOMPLISHED BY PRESERVING A WELL VEGETATED BUFFER STRIP AROUND THE LOWER PERIMETER OF LAND DISTURBANCE. BY INSTALLING PERIMETER CONTROLS SUCH AS SEDIMENT TRAPS, FILTERS OR DIKES, OR SEDIMENT BASINS, OR BY A COMBINATION OF SUCH MEASURES. VEGETATED FILTER STRIPS MAY BE USED ALONE ONLY WHERE THE RUNOFF IN SHEET FLOW IS EXPECTED. FILTER STRIPS SHOULD BE AT LEAST 15 FEET IN WIDTH, IF AT ANY TIME IT IS FOUND THAT A VEGETATED FILTER STRIP ALONE IS INEFFECTIVE IN STOPPING SEDIMENT MOVEMENT INTO ADJACENT PROPERTY, ADDITIONAL PERIMETER CONTROLS MUST BE PROVIDED.
- CUT AND FILL SLOPES WILL BE DESIGNED AND CONSTRUCTED IN A MANNER WHICH WILL MINIMIZE EROSION. SLOPES WHICH ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF CONSTRUCTION WILL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

REQUIREMENTS REGARDING SEDIMENT CONTROLS

- PLAN SEDIMENT CONTROLS FOR ANY AREA THAT WILL REMAIN DISTURBED FOR 14 DAYS OR LONGER.
- SEDIMENT CONTROLS MUST POND RUNOFF IN ORDER TO BE CONSIDERED FUNCTIONAL.
- SEDIMENT BARRIERS, SUCH AS SILT FENCE OR DIVERSIONS, MUST BE IMPLEMENTED TO PREVENT SILT FROM ENTERING WATER RESOURCES THAT RUN THROUGH THE PROPERTY.
- SILT FENCE IS ONLY ALLOWED TO BE USED TO CONTROL SHEET FLOW RUNOFF FROM LIMITED DRAINAGE AREAS. THE PERMISSIBLE DRAINAGE AREA PER 100 LINEAR FEET OF SILT FENCE IS DEPENDENT ON THE SLOPE BUT IS NO MORE THAN 0.5 ACRE. SILT FENCE CAN NOT BE USED TO CONTROL DRAINAGE AREAS WITH A SLOPE OF GREATER THAN 50%.
- NO MORE THAN 10 ACRES MAY DRAIN TO A DIVERSION.
- INLET PROTECTION MUST BE IMPLEMENTED TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM, UNLESS THE SYSTEM DISCHARGES TO A SEDIMENT POND.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
 - STORM INLET PROTECTION**
AS NEEDED, SEDIMENT SHALL BE REMOVED FROM STORM INLET FILTERS AND SHALL BE RESTORED TO ITS ORIGINAL WORKING CONDITION. AT NO TIME SHALL THE SEDIMENT BUILDUP IN FILTERS LIMIT ITS FUNCTION. CHECK AFTER EACH MAJOR RAIN. FOLLOW ADS'S MAINTENANCE RECOMMENDATIONS.
 - FILTER STRIPS**
A HEALTHY GROWTH OF VEGETATION CAN BEST BE MAINTAINED BY FERTILIZING, REMOVING SEDIMENT WHEN FILTER BECOMES CLOGGED, AND BY PREVENTING CONSTRUCTION TRAFFIC FROM DRIVING ACROSS FILTER STRIPS.
 - SILT FENCES AND FILTER BARRIERS**
SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. DO NOT ALLOW STORM WATER TO FLOW UNDER OR AROUND SILT BARRIERS.
 - STRAW BALE BARRIERS**
STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. DO NOT ALLOW STORM WATER TO FLOW UNDER OR AROUND SILT BARRIERS.
 - ROCK CHECK DAMS**
ROCK CHECK DAMS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. DO NOT ALLOW STORM WATER TO FLOW UNDER OR AROUND ROCK CHECK DAMS AND/OR SILT FENCE.
- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- TO PREVENT WATER PONDING BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
- WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS
- POSSIBLE) UPSLOPE FROM SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 8-IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
- MAINTENANCE- SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
 - THE LAYOUT OF SILT FENCE SHALL BE CHANGED.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED, OR
 - OTHER PRACTICES SHALL BE INSTALLED.
- COMPLY WITH ALL OHIO EPA REQUIREMENTS.
- INCLUDE SEDIMENT CONTROL MEASURES (SUCH AS DANDY BAGS) ON THE CATCH BASINS SURROUNDING THE AREA.

VEGETATIVE PRACTICES

FILTER STRIP (FS)

A STRIP OR AREA OF VEGETATION (BEING A MIN. OF 18 FEET AND A MAX. OF 100 FEET IN WIDTH) TO REMOVE SEDIMENT AND OTHER POLLUTANTS FROM RUNOFF. THIS PRACTICE APPLIES TO LAND UNDERGOING DEVELOPMENT WHERE FILTER STRIPS ARE NEEDED TO REDUCE SEDIMENT DAMAGE TO ADJACENT PROPERTY. EXISTING GRASS OR GRASS/LEGUME MIXTURES IF WELL ESTABLISHED, SHOULD BE USED AS FILTER STRIPS.

GRASS SELECTION AND ESTABLISHMENT

ALL SEEDING AND MULCHING SHALL CONFORM TO ODOT ITEM 659.09 CLASS 2 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.

REQUIREMENTS FOR CONTROLS OF OTHER WASTES

- NO SOLID OR LIQUID WASTE, INCLUDING BUILDING MATERIALS OR THEIR PACKAGING, SHALL BE DISCHARGED IN STORM WATER RUNOFF.
- CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT DIRECTLY INTO STORM SEWERS, STREAMS OR DRAINAGE CHANNELS.
- OFF-SITE TRACKING OF SEDIMENTS BY CONSTRUCTION VEHICLES MUST BE MINIMIZED. WHENEVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS WILL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT (MUD) BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. TEMPORARY CONSTRUCTION ROADS WILL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHOULD NOT EXCEED 10 PERCENT. ROADBEDS SHALL BE AT LEAST 14 FEET WIDE FOR ONE-WAY TRAFFIC AND 20 FEET WIDE FOR TWO-WAY TRAFFIC. TEMPORARY PARKING AREAS WILL BE LOCATED ON NATURALLY FLAT AREAS WHENEVER POSSIBLE TO MINIMIZE GRADING. GRADES FOR SAID PARKING AREAS SHOULD BE SUFFICIENT TO PROVIDE DRAINAGE BUT NOT TO EXCEED 4 PERCENT SLOPE. BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDER AREAS ADJACENT TO ROADS AND PARKING AREAS WILL BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED.
- WASTE DISPOSAL VIA OPEN BURNING IS PROHIBITED.
- CONTAMINATED SOILS OR SOILS WHERE CONSTRUCTION SITE CHEMICALS HAVE BEEN SPILLED MUST BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
- STORM WATER THAT COMES IN CONTACT WITH CONTAMINATED SOILS, OR SOLID & INDUSTRIAL WASTE MUST BE COLLECTED AND DISPOSED OF AS WASTEWATER.
- FUEL TANKS AND DRUMS OR OTHER CONTAINERS HOLDING CONSTRUCTION SITE CHEMICALS MUST BE STORED WITHIN A DIKED AREA.

MAINTENANCE REQUIREMENTS

- ALL BMPs MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UPSLOPE AREAS THEY CONTROL ARE PERMANENTLY RESTABILIZED.
- QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) MUST INSPECT ALL BMPs AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL WITHIN ANY 24-HOUR PERIOD AND DETERMINE IF THE SWP3 HAS BEEN PROPERLY IMPLEMENTED.
- WRITTEN REPORTS SUMMARIZING INSPECTION RESULTS MUST BE MADE AVAILABLE UPON REQUEST. REPORTS MUST INCLUDE: DATE OF INSPECTION, NAME AND QUALIFICATIONS OF THE INSPECTOR, WEATHER CONDITIONS, LOCATIONS WHERE IN-STREAM OR OFF-SITE SEDIMENTATION WAS OBSERVED, LOCATIONS OF BMPs NEEDING MAINTENANCE, LOCATIONS OF BMPs FAILING TO OPERATE CORRECTLY OR PROVIDE ADEQUATE PROTECTION, OR LOCATION OF AREAS IN NEED OF ADDITIONAL BMPs NOT IN PLACE AT THE TIME OF INSPECTION.
- THE REPORTS MUST IDENTIFY INCIDENCES OF NONCOMPLIANCE WITH THE NPDES PERMIT, WHERE A REPORT DOES NOT IDENTIFY INCIDENCES OF NONCOMPLIANCE, THE REPORT MUST CONTAIN A CERTIFICATION THAT THE SITE IS IN COMPLIANCE AT THE TIME OF INSPECTION.
- MAINTENANCE OR REPAIR OF BMPs MUST BE COMPLETED WITHIN 3 DAYS OF THE DATE OF THE INSPECTION THAT REVEALED THEY WERE DEFICIENT. FOR SEDIMENT PONDS, REPAIR OR MAINTENANCE IS REQUIRED WITHIN 10 DAYS OF THE DATE OF THE INSPECTION.
- WHEN INSPECTIONS REVEAL THAT A BMP IS NOT EFFECTIVE AND THAT ANOTHER, MORE APPROPRIATE BMP IS REQUIRED, THE SWP3 MUST BE AMENDED AND THE MORE APPROPRIATE BMP MUST BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION THAT REVEALED THE DEFICIENCY.

PERMIT CLOSURE REQUIREMENTS

- ONCE A SITE REACHES FINAL STABILIZATION AND CONSTRUCTION ACTIVITIES HAVE CEASED, NPDES PERMIT COVERAGE IS TERMINATED BY FILING A NOTICE OF TERMINATION (NOT). THE NOT MUST BE FILED WITHIN 45 DAYS OF REACHING FINAL STABILIZATION.
- FINAL STABILIZATION IS DEFINED AS ESTABLISHING A VEGETATIVE GROUND COVER OF AT LEAST 70% GROWTH DENSITY, OR OTHER MEANS OF PERMANENT STABILIZATION, OVER THE ENTIRE AREA DISTURBED BY CONSTRUCTION ACTIVITIES.
- FINAL STABILIZATION ALSO REQUIRES THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROLS BE REMOVED FROM THE PROPERTY AND ALL SEDIMENT THAT WAS TRAPPED BY THOSE CONTROLS TO BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.

SPECIFICATIONS FOR TEMPORARY SEEDING

- STRUCTURAL EROSION AND SEDIMENT - CONTROL PRACTICE SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
- TEMPORARY SEEDING SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 45 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEEDER AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDER WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
- THE SEEDERD SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDERD PREPARATION IS NOT POSSIBLE.
- SOIL AMENDMENTS - APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR IME AND FERTILIZER.
- THE TYPE OF SEEDING AND SEEDING RATES SHALL BE AS FOLLOWS:

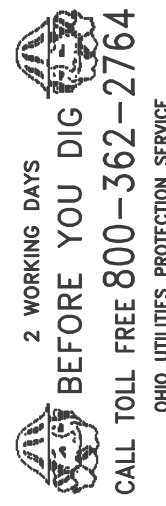
EROSION CONTROL NOTES:

EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION. SEDIMENT CONTROL PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST TRANSPORTING OF SILT OFF SITE. ALL RUNOFF RESULTING FROM CONSTRUCTION OPERATIONS MUST BE FILTERED BY APPROVED METHODS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM.

THIS PROJECT IS SUBJECT TO INSPECTION BY THE DEPARTMENT OF WATER PERSONNEL FOR COMPLIANCE WITH THE CITY STORM WATER ORDINANCE DURING AND AFTER DEMOLITION. THIS INCLUDES BUT IS NOT LIMITED TO INSPECTION OF EROSION CONTROL FACILITIES, SURFACE DRAINAGE, AND DETENTION/RETENTION FACILITIES. ADDITIONAL MEASURES MAY BE REQUIRED IF VIOLATIONS OF THE ORDINANCE OCCUR AND WATER DEPARTMENT PERSONNEL DEEM IT NECESSARY. ALL MEASURES SHALL COMPLY WITH LOCAL GOVERNMENTAL STANDARDS AND "RAINWATER AND LAND DEVELOPMENT, OHIO'S PROTECTION" (LATEST EDITION).

Permanent Seeding				Temporary Seeding Species Selection			
Seed Mix	Seeding Rates		Notes:	Seeding Dates	Species	Per 1,000 ft ²	Per Acre
	lb./ac.	lb./1,000 ft ²					
General Use							
Creeping Red Fescue	20-40	1-1		March 1 to August 15	Oats	3 lb.	4 bu
Domestic Ryegrass	10-20	1-1			Tall Fescue	1 lb.	40 lb.
Kentucky Bluegrass	10-20	1-1			Annual Ryegrass	1 lb.	40 lb.
Tall Fescue	40	1			Perennial Ryegrass	1 lb.	40 lb.
Dwarf Fescue	40	1			Tall Fescue	1 lb.	40 lb.
					Annual Ryegrass	1 lb.	40 lb.
Steep Banks or Cut Slopes							
Tall Fescue	40	1		August 16 to November 1	Rye	3 lb.	2 bu
					Tall Fescue	1 lb.	40 lb.
					Annual Ryegrass	1 lb.	40 lb.
Crown Vetch	10	1	Do not seed later than August.		Wheat	3 lb.	2 bu
Tall Fescue	20	1			Tall Fescue	1 lb.	40 lb.
Flat Pea	20	1	Do not seed later than August.		Annual Ryegrass	1 lb.	40 lb.
Tall Fescue	20	1			Perennial Ryegrass	1 lb.	40 lb.
					Tall Fescue	1 lb.	40 lb.
					Annual Ryegrass	1 lb.	40 lb.
Road Ditches and Swales				November 1 to spring seeding	Use mulch only, sodding practices or Dormant Seeding.		
Note: Other approved seed species may be substituted.							
Tall Fescue	40	1		NOTE: CONTRACTOR TO TAKE CARE TO SAVE TREES WHERE EVER POSSIBLE.			
Dwarf Fescue	90	2 1/2					
Kentucky Bluegrass	60	1 1/2					
Lawns							
Kentucky Bluegrass	60	1 1/2					
Perennial Ryegrass	60	1 1/2					
Kentucky Bluegrass	60	1 1/2	For shaded areas.				
Creeping Red Fescue	60	1 1/2					
Note: Other approved seed species may be substituted.							

PLAN NORTH



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REGISTERED ENGINEER OF OHIO
NO. 82826
STEVEN R. FOX
10/19/2021

PROJECT NO.: 452.21

DATE: 10/19/2021

DRAWN BY: SRF

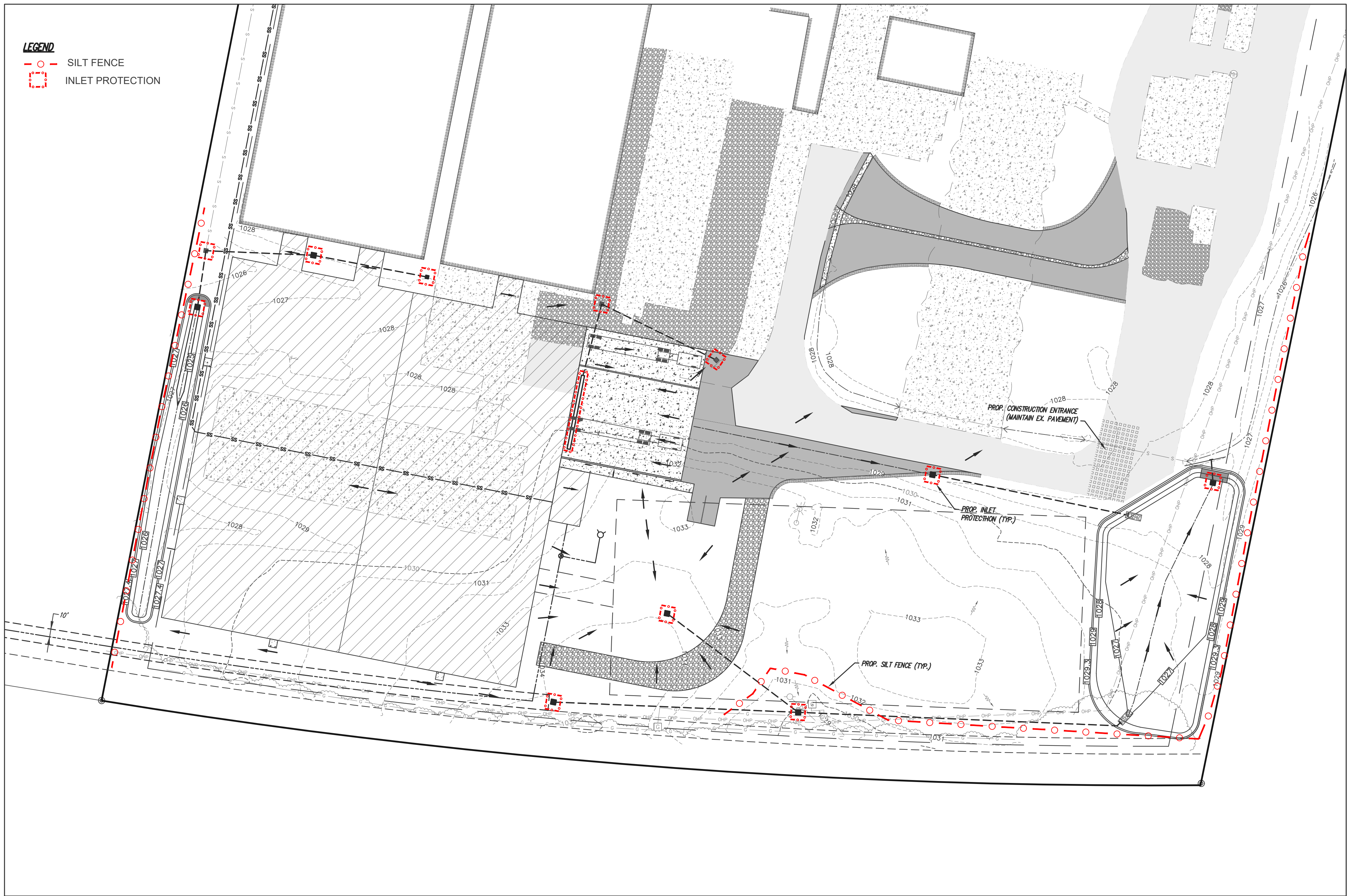
DESIGNED BY: SRF

CHECKED BY: JJB

REVISED

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SWPPP
FOR
REMINGTON SEED
LOCATED AT
5585 OH-571, GREENVILLE, OH 45331



GENERAL NOTES

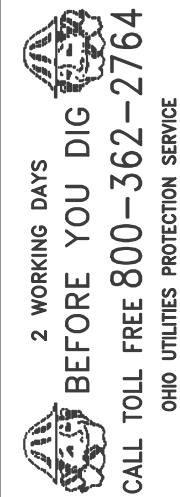
THE CONTRACTOR SHALL INSTALL A GRAVEL WASH-OUT AREA AT THE SITE ENTRANCE / EXIT IMMEDIATELY UPON COMMENCEMENT OF THE PROJECT. THE GRAVEL WASH-OUT AREA SHALL FACILITATE THE REMOVAL OF SEDIMENTS AND DEBRIS FROM TRUCKS AND OTHER VEHICLES LEAVING THE PROJECT SITE TO PREVENT SEDIMENTS FROM ENTERING THE RIGHT OF WAY. THE GRAVEL WASH-OUT AREA SHALL BE A MINIMUM OF 20' WIDE BY 60' LONG . GRAVEL SHALL BE A MINIMUM OF 18" DEEP AND SHALL BE No.2. THE SIZE, SHAPE AND ORIENTATION OF THE GRAVEL DRIVE SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER. THE DRIVE SHALL BE POSITIONED TO FACILITATE EQUIPMENT ACCESS AND CLEANING.

INSTALL A TEMPORARY SILT BASIN ADJACENT TO GRAVEL DRIVE TO RECEIVE RUNOFF FROM TRUCK WASHING ACTIVITIES. THE TEMPORARY BASIN SHALL BE MAINTAINED BY THE CONTRACTOR AND CLEARED OF DEBRIS AS REQUIRED. INSTALL A SILT FENCE AROUND BASIN AS INDICATED. INFILL BASIN AT THE CONCLUSION OF THE PROJECT TO FINAL GRADE AND SEED.

SEDIMENT BASIN/DETENTION BASIN NOTE:

THE PROPOSED BASINS ARE TO BE UTILIZED AS SEDIMENT BASIN DURING THE CONSTRUCTION OF THE SITE PER DETAIL ON SHEET C7. ONCE THE SITE IS STABILIZED AND SEEDING IS ESTABLISHED, SEDIMENT BASIN IS TO BE CONVERTED TO DETENTION BASINS PER SHEET C3.

PLAN NORTH



2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

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STEVEN R. FOX 10/19/2021

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REVISED

1. (12.8.21)REVISED WATER VALVE LOCATION

2.

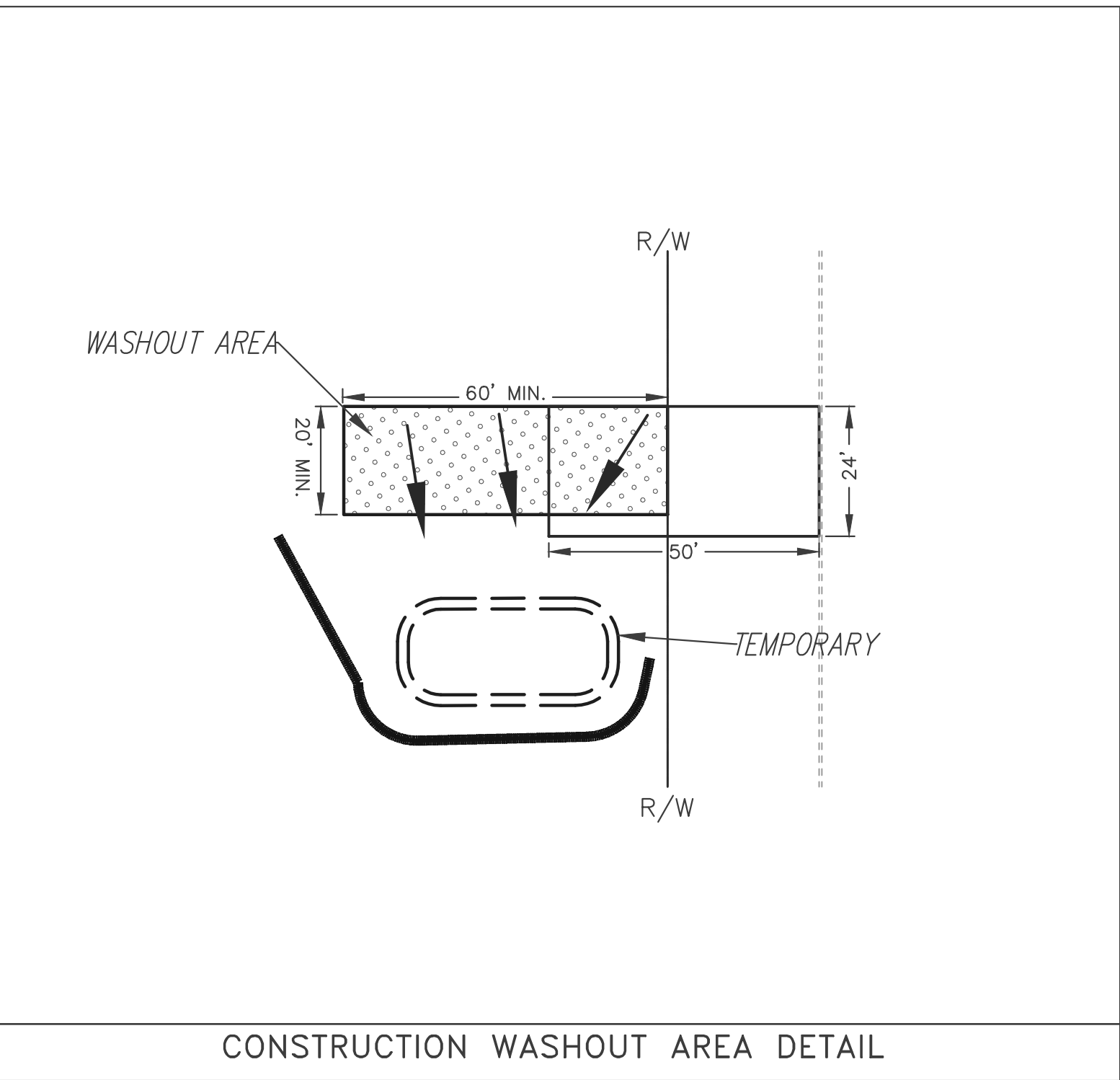
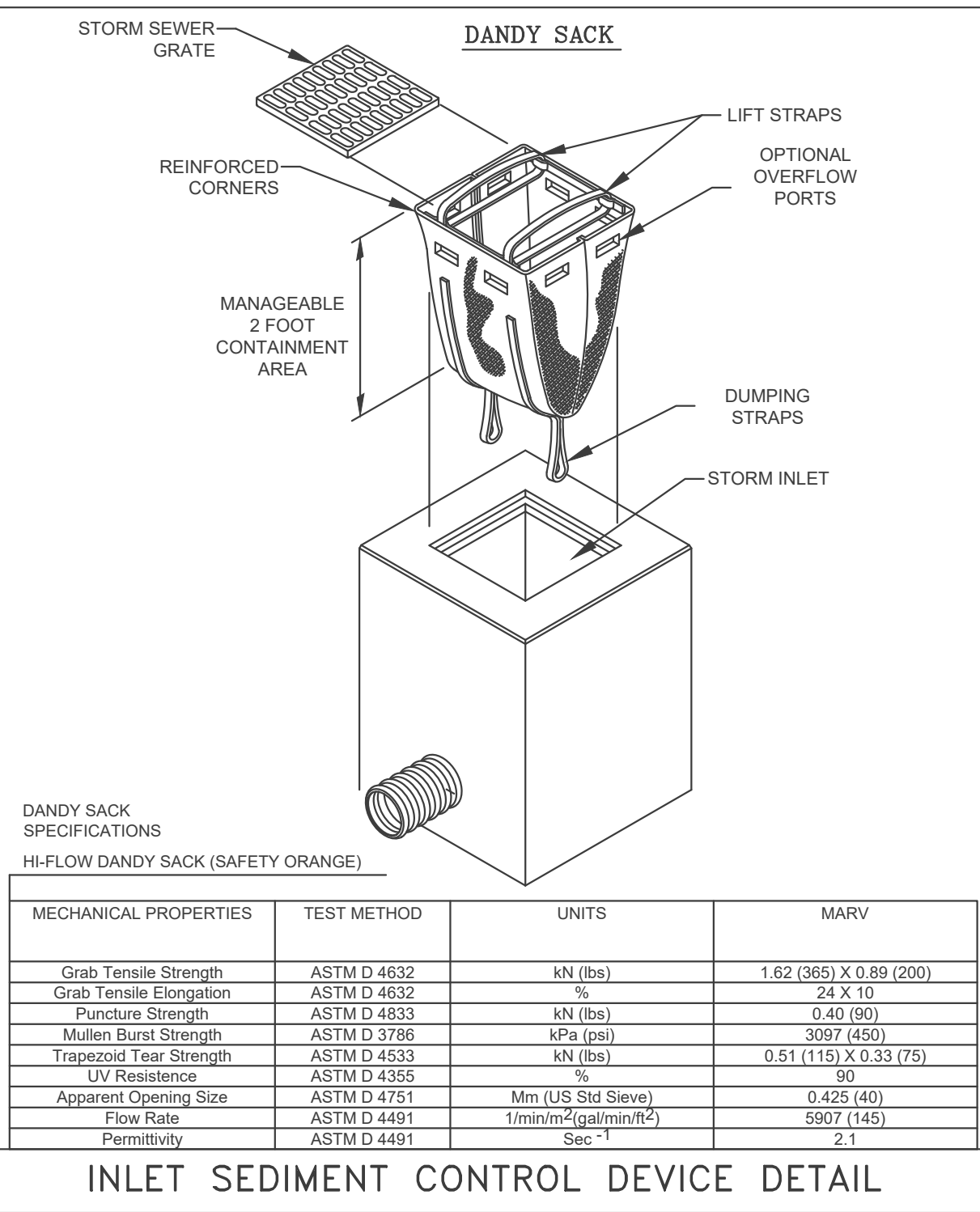
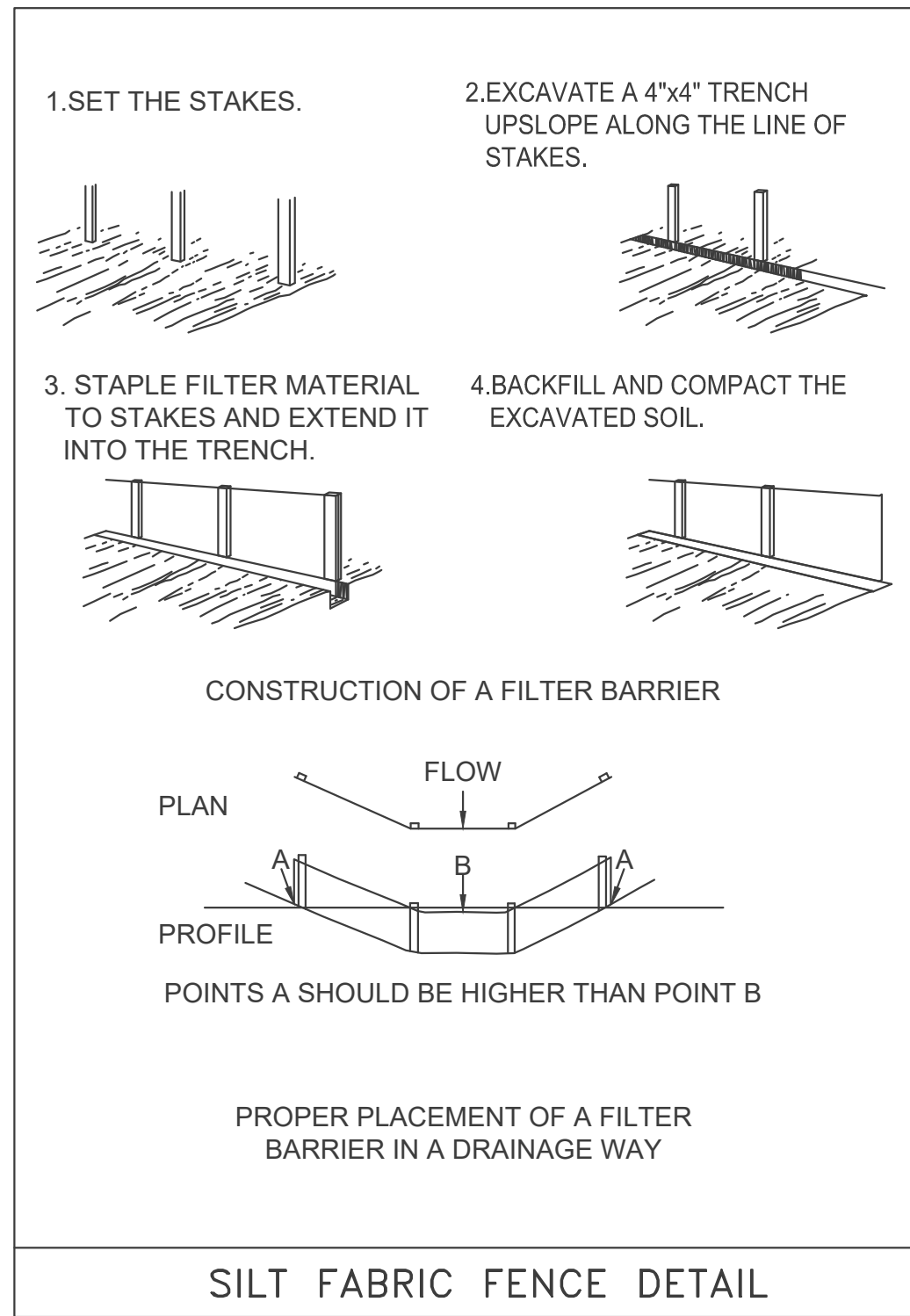
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4.

5.

6.

7.



SWPPP
FOR
REMINGTON SEED
LOCATED AT
5585 OH-571, GREENVILLE, OH 45331

SEDIMENT BASIN SUMMARY

WEST POND – DRAINAGE AREA = 0.76 ACRES
TOTAL VOLUME PROVIDED = 3,110 CU FT (REQUIRED 2128 CU FT)
SEDIMENT STORAGE ZONE = 1024.50 TO 1025.75
=> VOLUME PROVIDED = 1,103 CU FT (REQUIRED 760 CU FT)
DEWATERING ZONE = 1025.75 TO 1026.50
=> VOLUME PROVIDED = 2,007 CU FT (REQUIRED 1,368 CU FT)

DEPTH (FT)	DEWATERING VOL. (CU FT)	ORIFICE SIZE (IN)	DRAIN TIME (DAYS)
0–0.75'	2007	3/4"	2.58

EAST POND – DRAINAGE AREA = 2.01 ACRES
TOTAL VOLUME PROVIDED = 6,107 CU FT (REQUIRED 5,628 CU FT)
SEDIMENT STORAGE ZONE = 1026.20 TO 1027.00
=> VOLUME PROVIDED = 2,297 CU FT (REQUIRED 2,010 CU FT)
DEWATERING ZONE = 1027.00 TO 1027.40
=> VOLUME PROVIDED = 3,810 CU FT (REQUIRED 3,618 CU FT)

DEPTH (FT)	DEWATERING VOL. (CU FT)	ORIFICE SIZE (IN)	DRAIN TIME (DAYS)
0–0.4'	3810	3/4"	4.90

NOTE:
THE SEDIMENT STORAGE ZONE OF THE POND ARE TO BE CLEANED OUT WHEN THE SILT OCCUPIES 40% OF THE SEDIMENT STORAGE ZONE, WHICH EQUALS
WEST POND = 1025.32'
EAST POND = 1026.76'

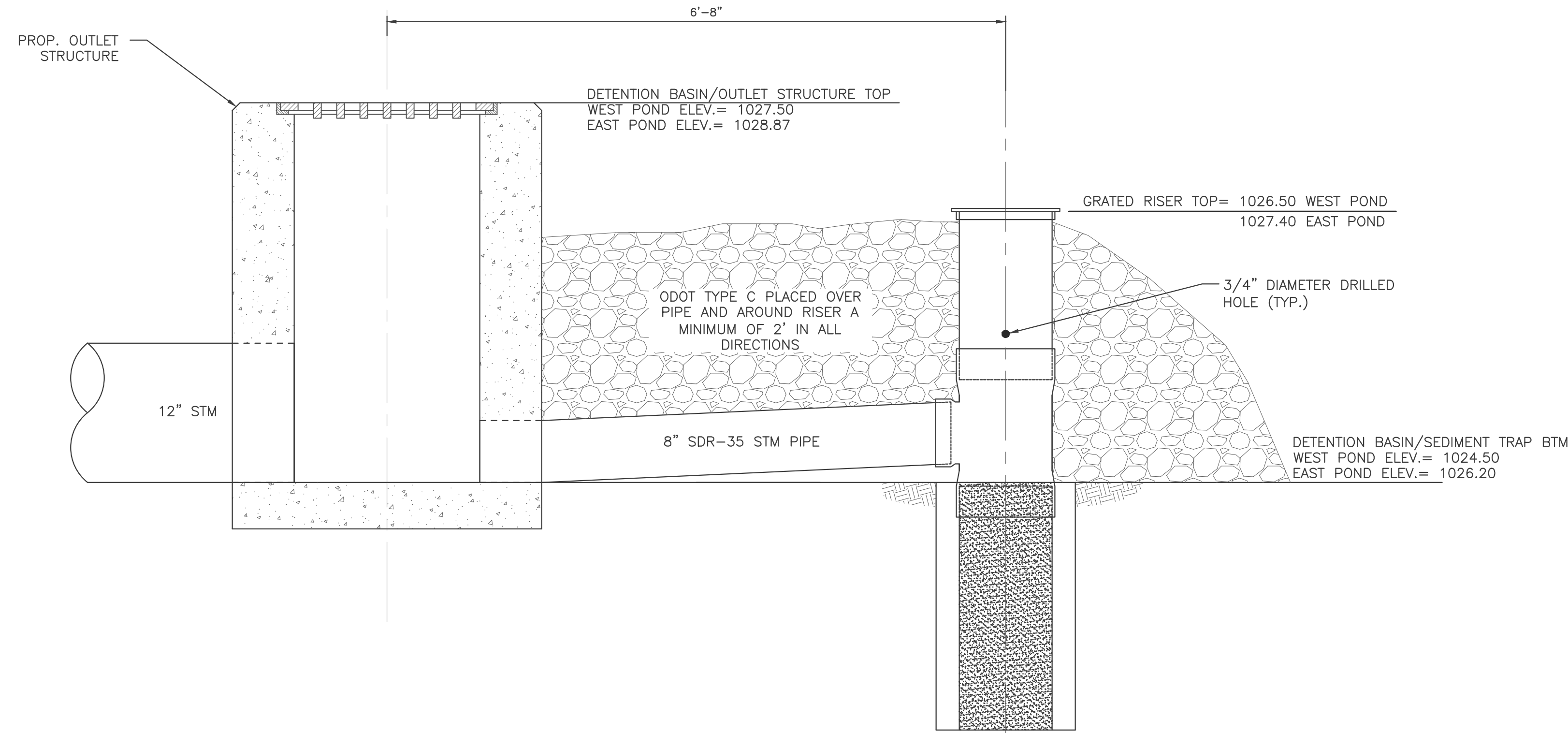
SPECIFICATIONS FOR SEDIMENT BASINS

- SEDIMENT BASINS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- SITE PREPARATION – THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT CLEANOUT. GULLIES AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1. THE SURFACE OF THE FOUNDATION ARE WILL BE THOROUGHLY SCARIFIED BEFORE PLACEMENT OF THE EMBANKMENT MATERIAL.
- CUT-OFF TRENCH – THE CUTOFF TRENCH SHALL BE EXCAVATED ALONG THE CENTERLINE OF THE EMBANKMENT. THE MINIMUM DEPTH SHALL BE 3 FT. UNLESS SPECIFIED DEEPER ON THE PLANS OR AS A RESULT OF SITE CONDITIONS. THE MINIMUM BOTTOM WIDTH SHALL BE 4 FT., BUT WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT. THE TRENCH SHALL BE KEPT FREE OF STANDING WATER DURING BACKFILL OPERATIONS.
- EMBANKMENT – THE FILL MATERIAL SHALL BE FREE OF ALL SOD, ROOTS, FROZEN SOIL, STONES OVER 6 IN. IN DIAMETER, AND OTHER OBJECTIONABLE MATERIAL. THE PLACING AND SPREADING OF THE FILL MATERIAL SHALL BE STARTED AT THE LOWEST POINT OF THE FOUNDATION AND THE FILL SHALL BE BROUGHT UP IN APPROXIMATELY 6 IN. HORIZONTAL LAYERS OR OF SUCH THICKNESS THAT THE REQUIRED COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER EACH LAYER IN A WAY THAT WILL RESULT IN THE REQUIRED COMPACTION. SPECIAL EQUIPMENT SHALL BE USED WHEN THE REQUIRED COMPACTION CANNOT BE OBTAINED WITHOUT IT. THE MOISTURE CONTENT OF FILL MATERIAL SHALL BE SUCH THAT THE REQUIRED DEGREE OF COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED.
- PIPE SPILLWAY – THE PIPE CONDUIT BARREL SHALL BE PLACED ON A FIRM FOUNDATION TO THE LINES AND GRADES SHOWN ON THE PLANS. CONNECTIONS BETWEEN THE RISER AND BARREL, THE ANTI-SEEP COLLARS AND BARREL AND ALL PIPE JOINTS SHALL BE WATER-TIGHT. SELECTED BACKFILL MATERIAL SHALL BE PLACED AROUND THE CONDUIT IN LAYERS AND EACH LAYER SHALL BE COMPACTED TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. ALL COMPACTION WITHIN 2 FT. OF THE PIPE SPILLWAY WILL BE ACCOMPLISHED WITH HAND-OPERATED TAMPING EQUIPMENT.
- RISER PIPE BASE – THE RISER PIPE SHALL BE SET A MINIMUM OF 6 IN. IN THE CONCRETE BASE.
- TRASH RACKS – THE TOP OF THE RISER SHALL BE FITTED WITH TRASH RACKS FIRMLY FASTENED TO THE RISER PIPE.
- EMERGENCY SPILLWAY – THE EMERGENCY SPILLWAY SHALL BE CUT IN UNDISTURBED GROUND. ACCURATE CONSTRUCTION OF THE SPILLWAY ELEVATION AND WIDTH IS CRITICAL AND SHALL BE WITHIN A TOLERANCE OF 0.2 FT.
- SEEN AND MULCH – THE SEDIMENT BASIN SHALL BE STABILIZED IMMEDIATELY FOLLOWING ITS CONSTRUCTION. IN NO CASE SHALL THE EMBANKMENT OR EMERGENCY SPILLWAY REMAIN BARE FOR MORE THAN 7 DAYS.
- SEDIMENT CLEANOUT – SEDIMENT SHALL BE REMOVED AND THE SEDIMENT BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS FILED ONE-HALF THE POND'S ORIGINAL DEPTH OR AS INDICATED ON THE PLANS. SEDIMENT REMOVED FROM THE BASIN SHALL BE PLACED SO THAT IT WILL NOT ERODE.
- FINAL REMOVAL – SEDIMENT BASINS SHALL BE REMOVED AFTER THE UPSTREAM DRAINAGE AREA IS STABILIZED OR AS INDICATED IN THE PLANS. DEWATERING AND REMOVAL SHALL NOT CAUSE SEDIMENT TO BE DISCHARGED. THE SEDIMENT BASIN SITE AND SEDIMENT REMOVED FROM THE BASIN SHALL BE STABILIZED.

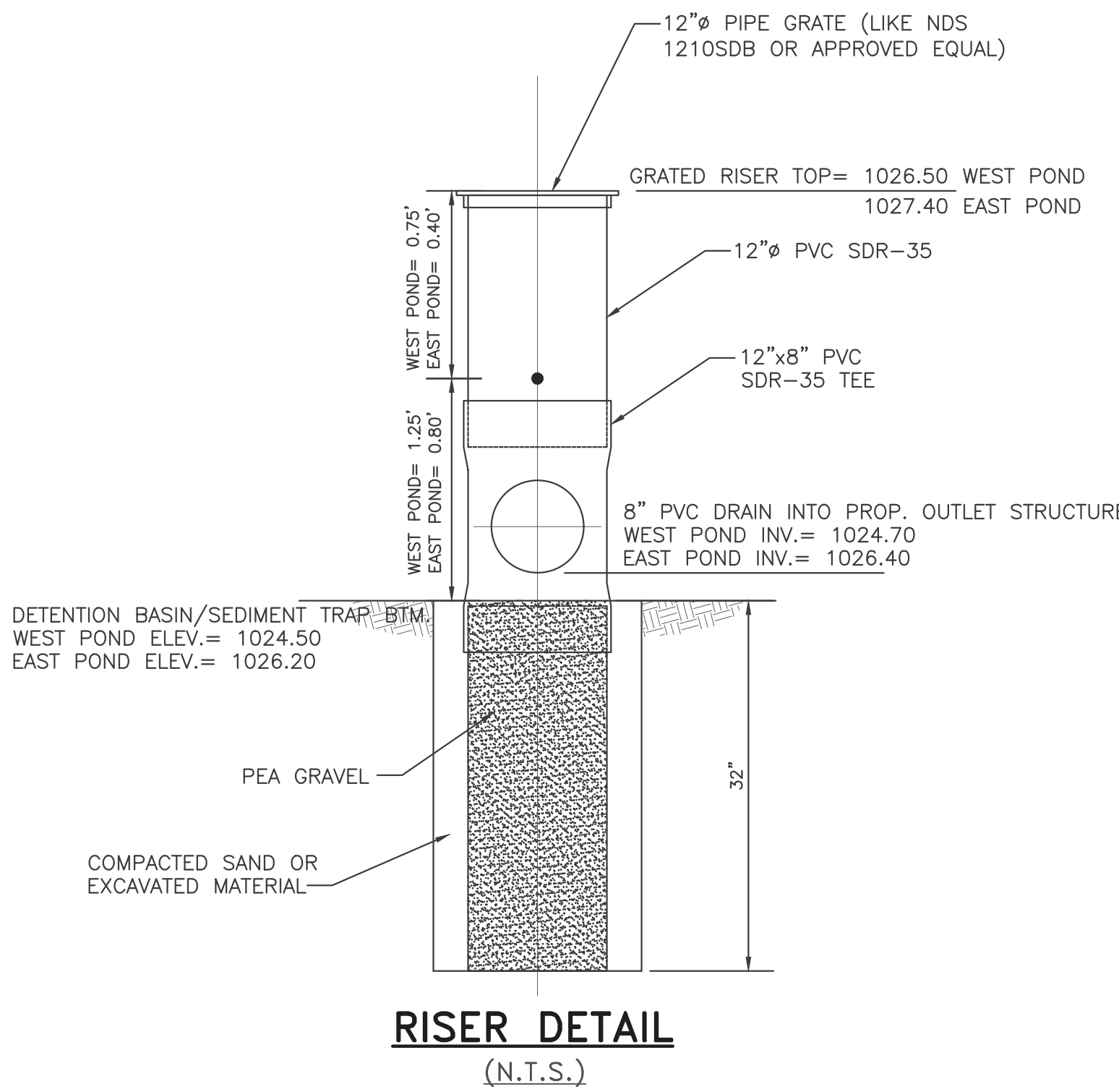
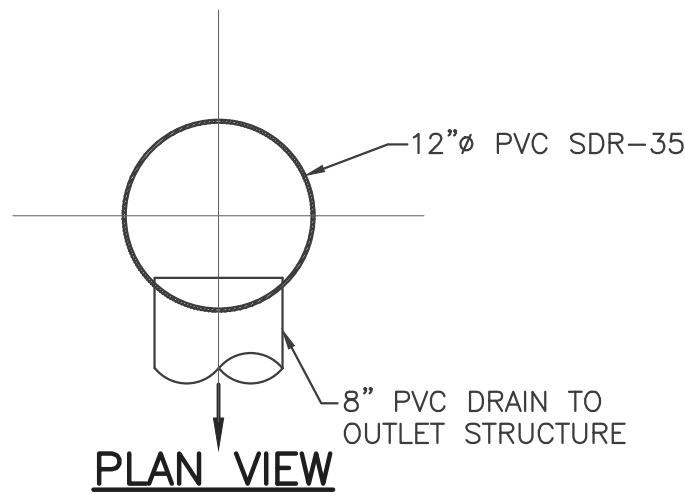
CONSTRUCTION OF DETENTION BASIN FROM SEDIMENT BASIN

AFTER THE PAVEMENT AREAS ARE INSTALLED, AND ALL SEEDING & LANDSCAPING HAVE BEEN COMPLETED AND ARE GROWING ADEQUATELY TO STOP ALL EROSION AS DIRECTED BY THE ENGINEER, THE DETENTION BASIN SHALL BE CONSTRUCTED AS DIRECTED BELOW.

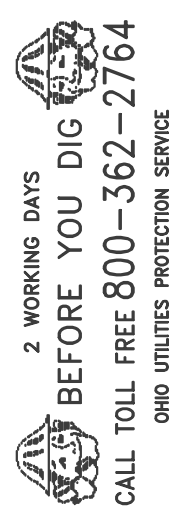
- REMOVE EXISTING LAYER OF SEDIMENT FROM SEDIMENTATION BASIN OPERATIONS.
- REMODEL SEDIMENTATION CONTROL STRUCTURES BY REMOVING 8" STORM PIPE, RISER AND RIP RAP WHERE REQUIRED AND RE-CONSTRUCTING THE OUTLET STRUCTURE AS SHOWN PER PLANS.
- PLACE TYPES OF ROCK CHANNEL PROTECTION AS SHOWN PER PLANS & DETAILS. RE-GRADE & TOUCH UP BERM TO FINAL GRADES AND SEED THE REMAINING AREAS OF THE BASIN & SLOPES.



TYPICAL RISER TO OUTLET
STRUCTURE DETAIL
(N.T.S.)



RISER DETAIL
(N.T.S.)

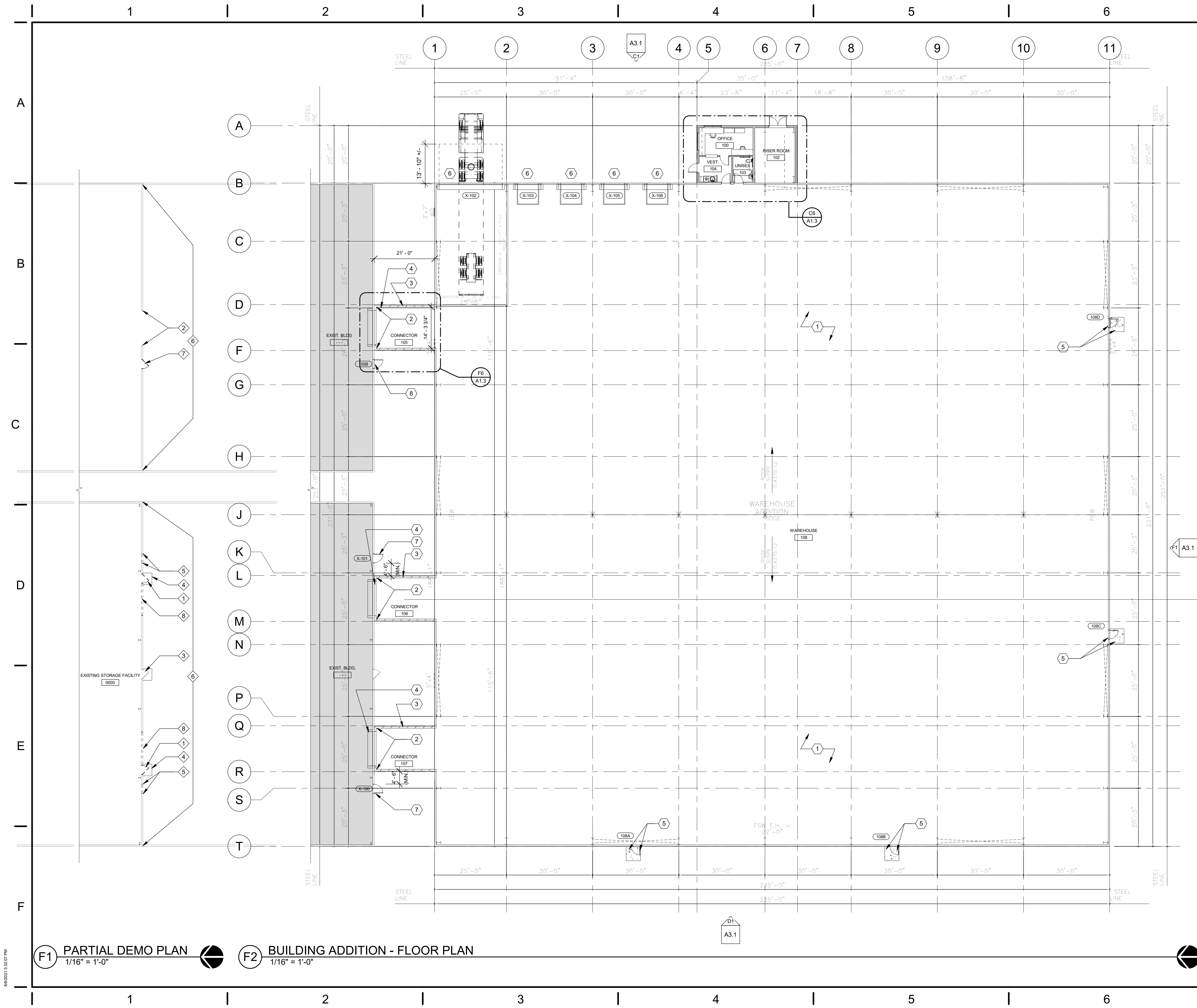


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PROJECT NO.:	452.21
DATE:	10/19/2021
DRAWN BY:	SRF
DESIGNED BY:	SRF
CHECKED BY:	JJB
REVISED	
1.	
2.	
3.	
4.	
5.	
6.	
7.	

SWPPP
FOR
REMINGTON SEED
LOCATED AT
5585 OH-571, GREENVILLE, OH 45331



DEMOLITION NOTES

- INDICATES DEMOLITION NOTE.
- REMOVE AND RETAIN DOOR ASSEMBLY: DOOR FRAME, HARDWARE AND DOOR.
 - REMOVE EXISTING EXTERIOR OVERHEAD DOOR.
 - EXISTING DOOR ASSEMBLY TO REMAIN.
 - COORDINATE REMOVAL OF EXTERIOR PAD WITH GENERAL CONTRACTOR IN FIELD.
 - SAW-CUT EXTERIOR PANELING IN PREPARATION FOR REINSTALLATION OF DOOR. COORDINATE FINAL LOCATION IN FIELD WITH GENERAL CONTRACTOR.
 - EXISTING PRE-ENGINEERED BUILDING TO REMAIN.
 - REMOVE AND DISPOSE OF EXISTING DOOR ASSEMBLY.
 - REMOVE PORTION OF EXISTING EXTERIOR METAL PANEL. COORDINATE RELOCATION OF INTERIOR FRAMING WITH GENERAL CONTRACTOR AND FIELD CONDITIONS.

CONSTRUCTION NOTES

- INDICATES CONSTRUCTION NOTE.
- PRE-ENGINEERED METAL BUILDING STRUCTURE AND EXTERIOR WALL PANEL ASSEMBLY. REFER TO PRE-ENGINEERED METAL BUILDING DRAWINGS FOR INFORMATION (TYP.).
 - 3-HOUR UL-LISTED FIREWALL. FIREWALL BASIS OF DESIGN: UL DESIGN NO. U904.
 - 8" CONCRETE MASONRY UNIT CONNECTOR.
 - 3-HOUR RATED, UL-LISTED OVERHEAD DOOR. BASIS OF DESIGN: OVERHEAD DOOR COMPANY, FIREKING MODEL 630.
 - HOLLOW-METAL DOOR ASSEMBLY. PROVIDE EXTERIOR CONCRETE FROST-PROOF LANDING PAD AT EXTERIOR. MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING.
 - RELOCATED OVERHEAD DOOR. COORDINATE REMOVAL AND RELOCATION/ INSTALLATION WITH GENERAL CONTRACTOR.
 - REINSTALL EXISTING DOOR ASSEMBLY. INSTALLATION SHALL BE, MINIMUM, 4'-0" AWAY FROM NEW 3-HOUR RATED FIREWALL CONSTRUCTION.
 - 45-MINUTE, UL-RATED HOLLOW-METAL DOOR AND FRAME ASSEMBLY.

GENERAL NOTES

- OVERALL DIMENSIONS PROVIDED BY AMERICAN BUILDING COMPANY. REFER TO PRE-ENGINEERED METAL BUILDING DRAWINGS FOR ADDITIONAL INFORMATION.
- COLUMN LINES SHOWN FOR REFERENCE ONLY. COORDINATE GRID LAYOUT WITH PRE-ENGINEERED METAL BUILDING DRAWINGS.
- REFER TO CIVIL DRAWINGS FOR RELATED SITE WORK, TYPICAL.

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NO.	DATE	DESCRIPTION
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TITLE
PARTIAL DEMOLITION & REFERENCE PLANS

SHEET NO.

A1.1

[illegible]

ROOM FINISH SCHEDULE REMARKS	
No.	REMARK
1	COORDINATE FINISH SELECTION WITH OWNER AND GENERAL CONTRACTOR (TYP.) FOR ALL FINISHES INCLUDING EXTERIOR METAL PANEL FINISHES.

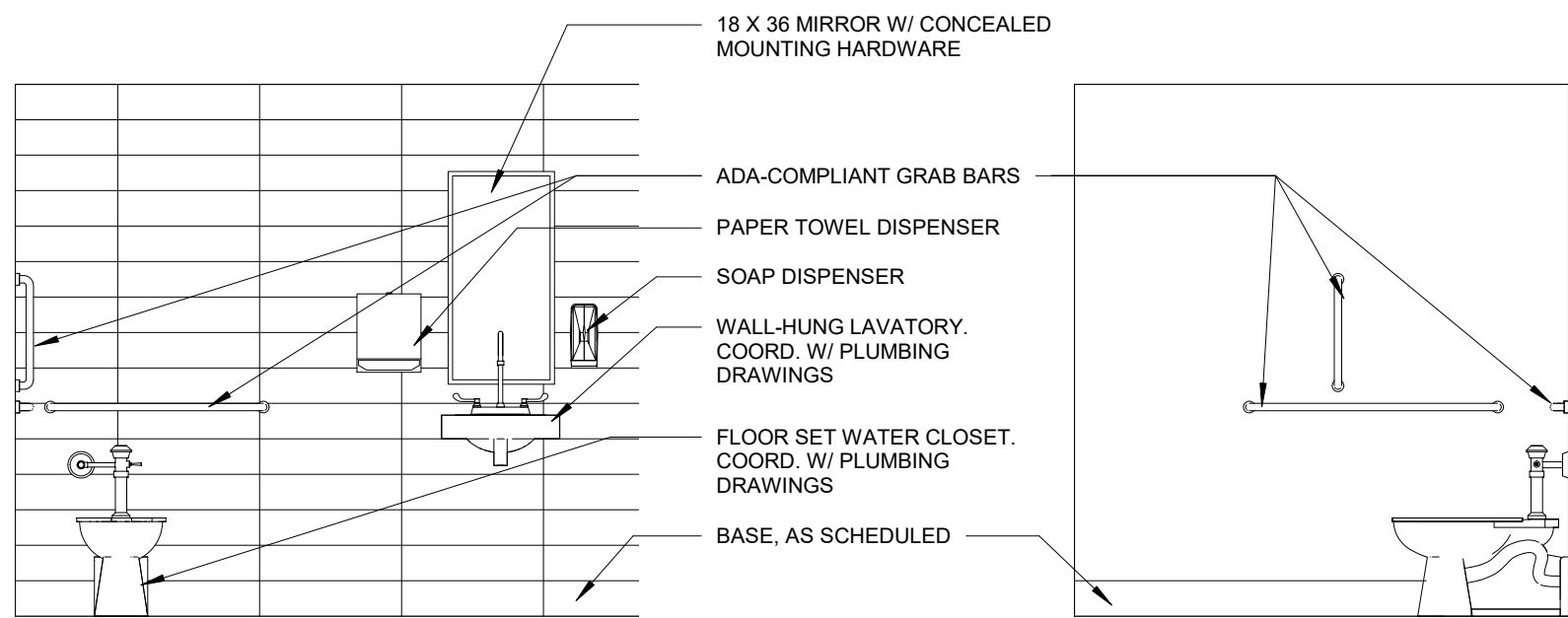
SORT	MATERIAL	ITEM	MATERIAL	MANUFACTURER	MATERIAL MODEL NO.	COLOR	FLAME / SMOKE	COMMENTS
BASE								
BASE		RB-1	RUBBER BASE	TARKETT/ JOHNSONITE/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
CABINETS								
CABINETS		PL-1	PLASTIC LAMINATE	FORMICA/ WILSONART/ NEVAMAR/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
CABINETS		SSM-1	SOLID SURFACE	CORIAN/ LG/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
CEILING								
CEILING		APC-1	ACOUSTIC PANEL CEILING	USG/ ARMSTRONG/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
CEILING		EXPS	EXPOSED STRUCTURE	---	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
CEILING		GYB / P-1	GYPSUM BOARD PAINTED	SHERWIN-WILLIAMS/ BENJAMIN MOORE/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
DOORS								
DOORS		DEP-1	DOOR & FRAME PAINT	SHERWIN-WILLIAMS/ BENJAMIN MOORE/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
FLOOR								
FLOOR		SC-1	SEALED CONCRETE	---	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
FLOOR		VCT-1	VINYL COMPOSITE TILE	INTERFACE/ ARMSTRONG/ TARKETT/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
SPECIALTY								
SPECIALTY		CG	CORNER GUARD	C-S GROUP/ INPRO CORP/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
WALL								
WALL		MTLP	METAL PANEL	AMERICAN BUILDING COMPANY	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
WALL		P-1	PAINT	SHERWIN-WILLIAMS/ BENJAMIN MOORE/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	
WALL		PT-1	PORCELAIN TILE	DALTILE/ OR EQUAL	---	PER GENERAL CONTRACTOR	CLASS C OR BETTER	

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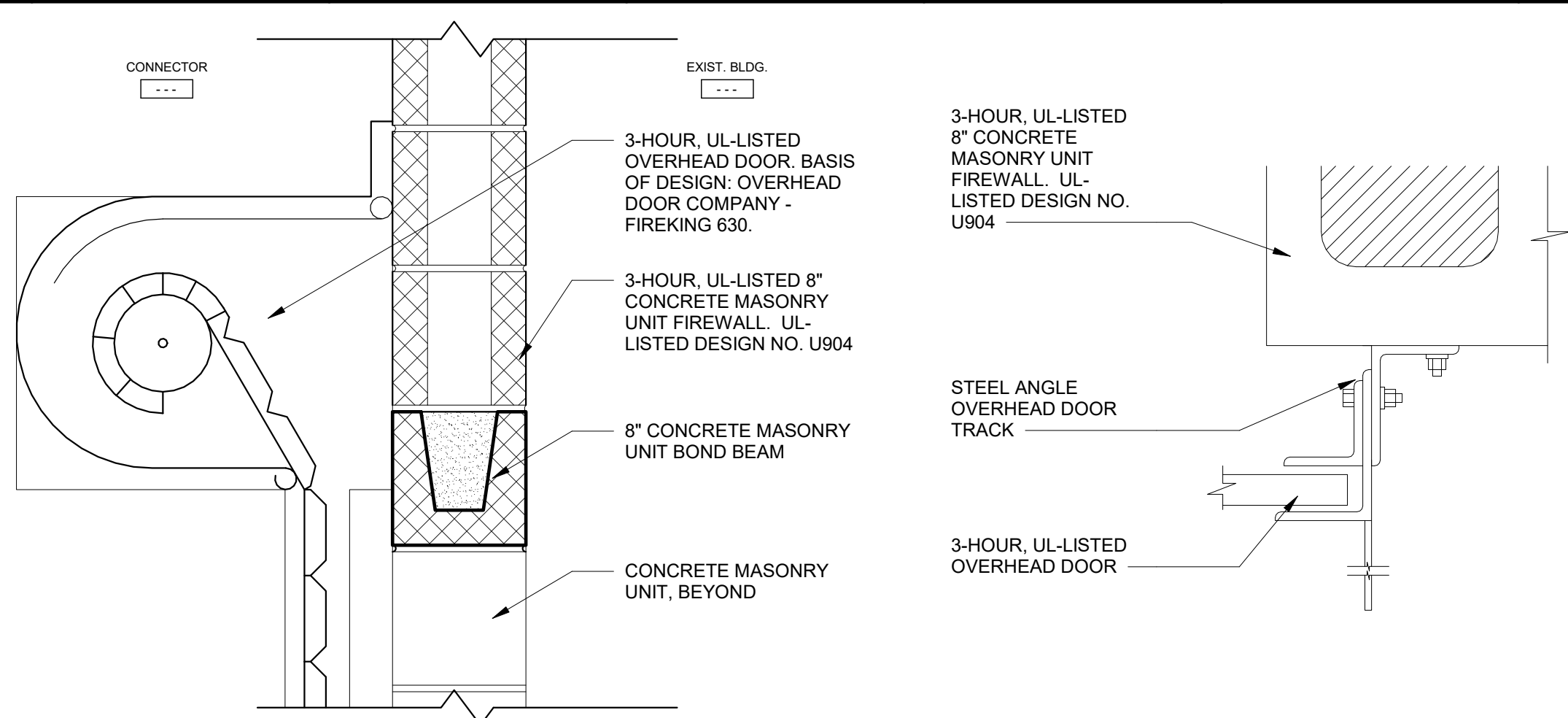
No.	REMARK
1	RELOCATED OVERHEAD DOOR AND DOOR FRAME FROM EXISTING FACILITY. COORDINATE REMOVAL OF DOOR(S) WITH OWNER AND GENERAL CONTRACTOR.
2	RELOCATED DOOR ASSEMBLY: DOOR, DOOR FRAME AND DOOR HARDWARE.
3	UL-RATED DOOR ASSEMBLY REQUIRED WHEN INSTALLED WITHIN 4'-0" OR LESS OF FIREWALL. RATING CAN BE ELIMINATED IF DOOR MOVES FURTHER FROM FIREWALL.
4	REFER TO PRE-ENGINEERED METAL BUILDING DRAWINGS FOR TYPICAL HEAD, JAMB AND SILL DETAILS IN CONJUNCTION WITH PRE-ENGINEERED METAL BUILDING.
5	FACE-OF-WALL MOUNTED OVERHEAD DOOR. BASIS OF DESIGN: OVERHEAD DOOR COMPANY, FIREKING, 3-HOUR UL-LISTED DOOR. COORDINATE AROUND EXISTING STEEL STRUCTURE. COORDINATE W/ ELECTRICAL ENGINEER.

DOOR HARDWARE SETS ARE PRELIMINARY AND SHOULD BE FINALIZED WITH REMINGTON SEEDS AND GENERAL CONTRACTOR PRIOR TO SUBMITTAL

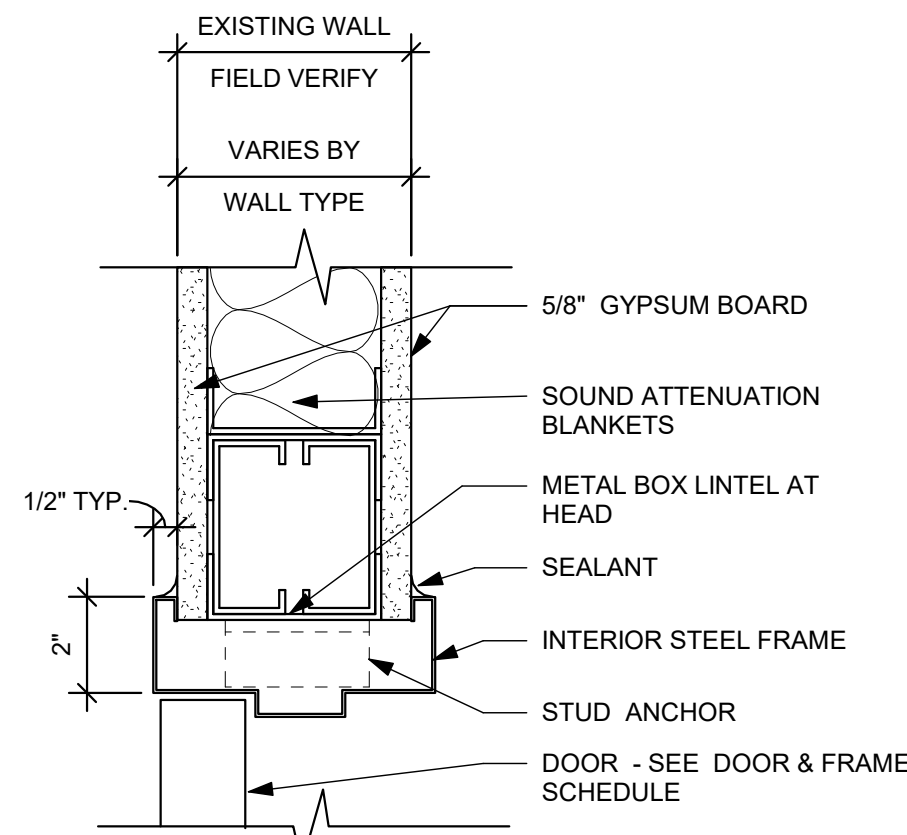
- 1 1/2 PAIR HINGES
- 1 EXIT DEVICE/ PUSH-BAR
- 1 SURFACE-MOUNTED CLOSER
- 1 WEATHERSTRIPPING
- 1 THRESHOLD
- 3 SILENCERS
- 1 WALL STOP



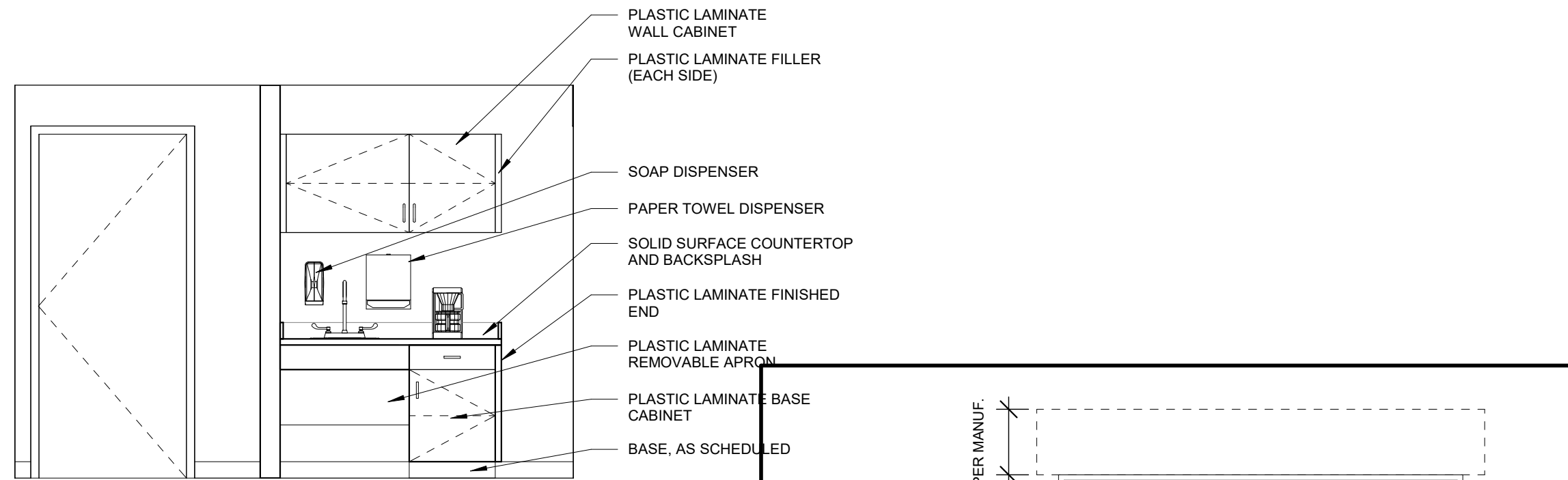
(F4) INT. ELEV. -103 UNISEX
3/8" = 1'-0"



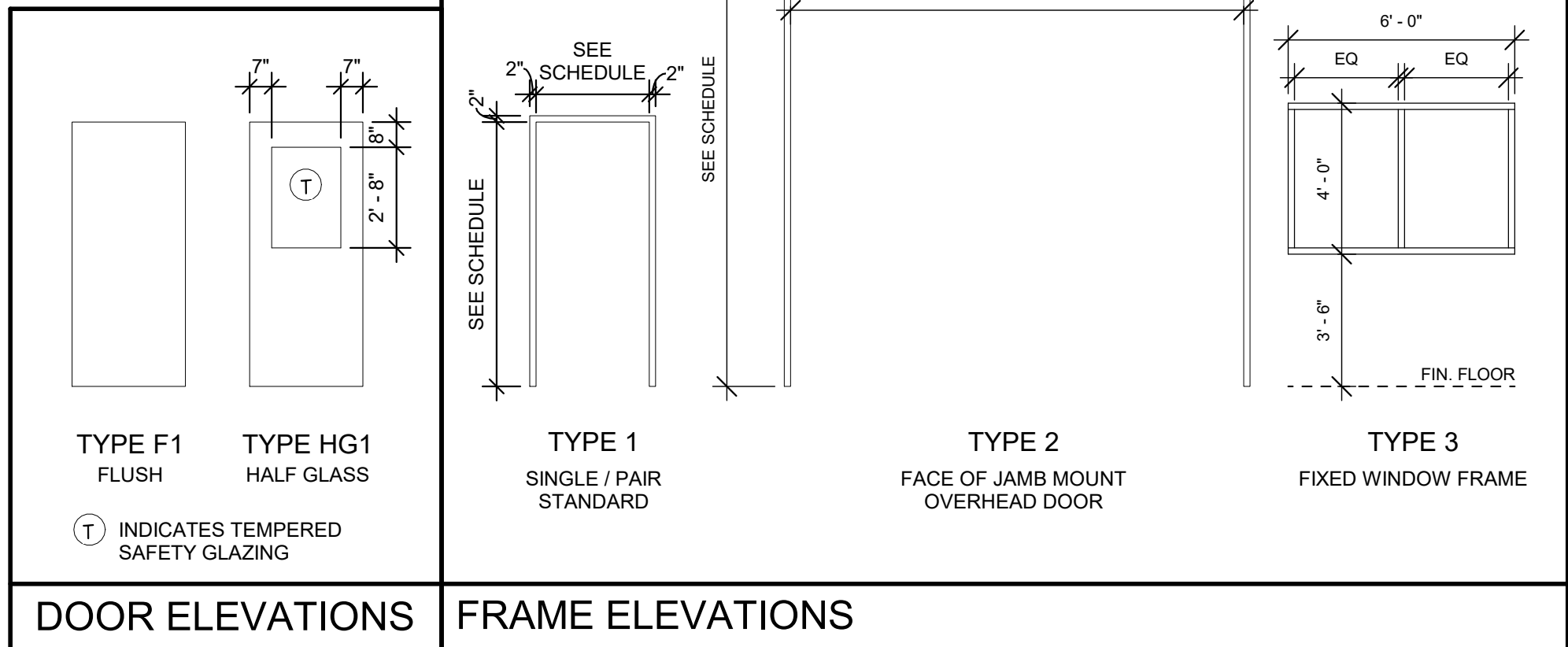
B6 JAMB DETAIL
3" = 1'-0"

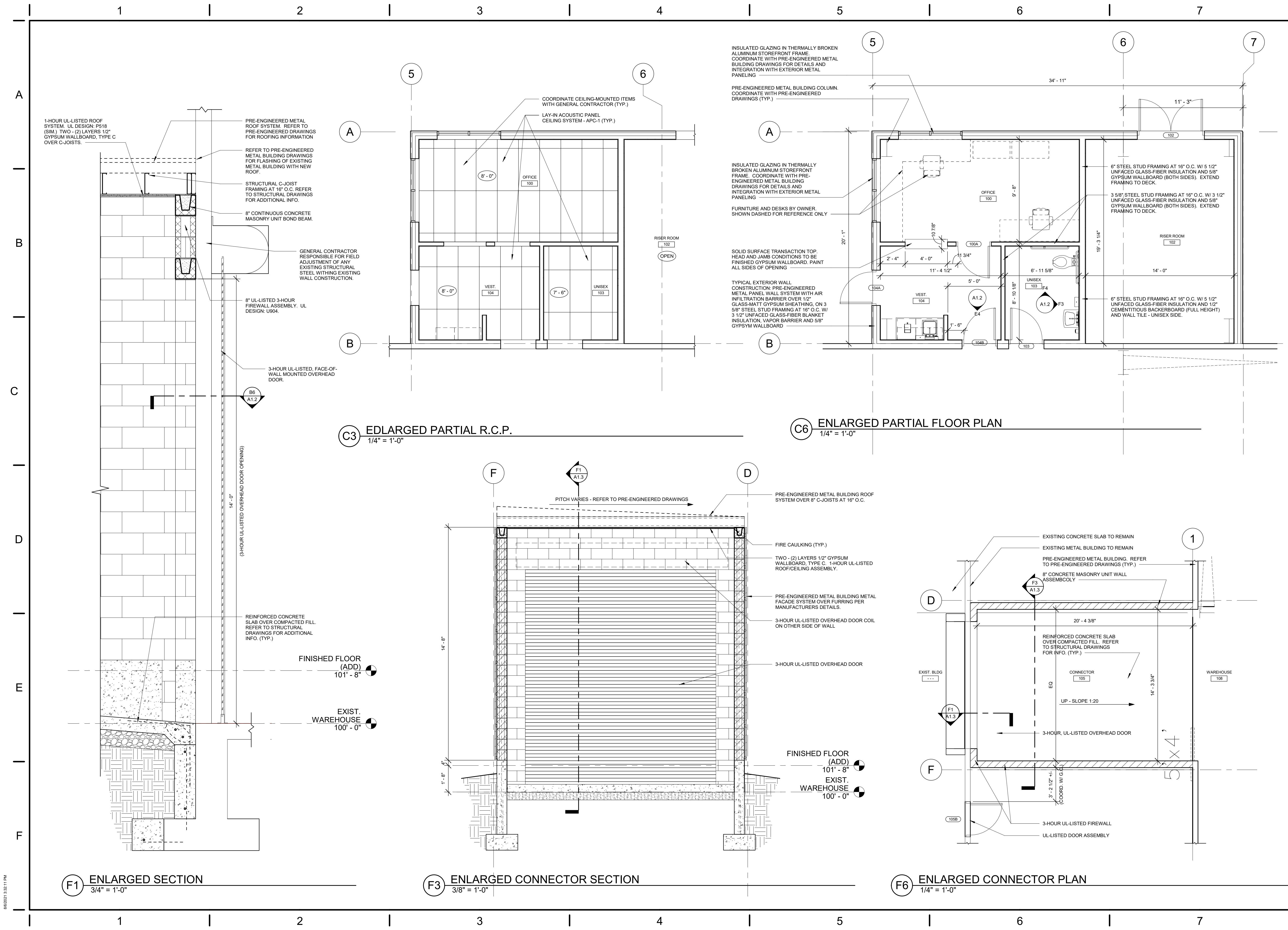


7 JAMB DETAIL
3" = 1'-0"



E4 INT. ELEV. - 104 VESTIBULE
3/8" = 1'-0"





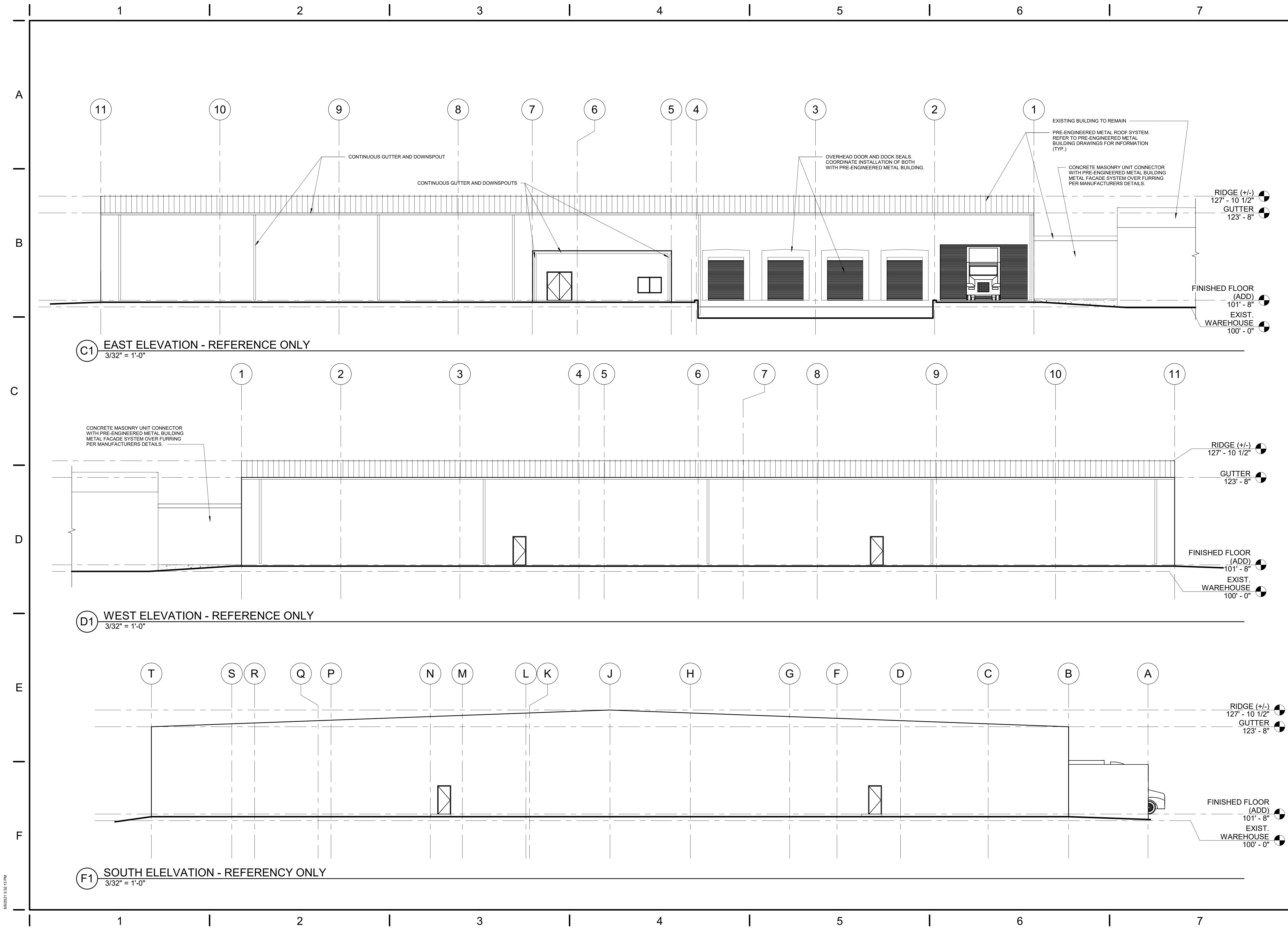
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TITLE
ENLARGED PLANS & SECTIONS

SHEET NO.
A1.3



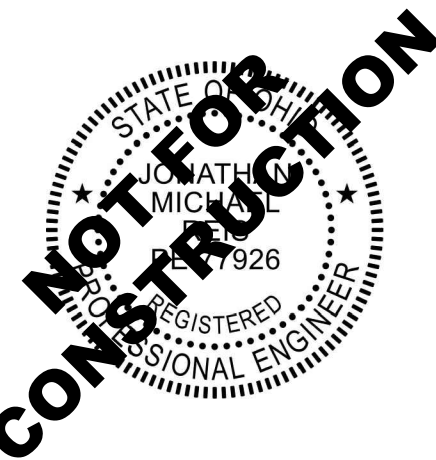
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TITLE EXTERIOR ELEVATIONS	

	1	2	3	4	5	6	7																																																					
A	A. GENERAL: 1. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR THE ADEQUACY OF THE STRUCTURAL DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS WHICH DEPICT THE STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURE IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE IS FULLY CONSTRUCTED (I.E., FULLY BUILT). IT IS SOLEY THE RESPONSIBILITY OF OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AS WELL AS TO PROVIDE FOR THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR DE-WATERING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT. 2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. 3. ALL ELEVATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE BASED ON THE GROUND FLOOR DATUM OF 100'-0" (U.N.O.). 4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, IT SHALL BE ASSUMED THAT THE STRICTEST PROVISION SHALL GOVERN AND A WRITTEN REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE A/E. ADDITIONALLY, ALL ITEMS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE A/E. CONTRACTOR SHALL SUBMIT RFI PRIOR TO COMMENCING WITH AFFECTED WORK AND SHALL AWAIT THE A/E'S APPROVAL-TO-PROCEED PRIOR TO PERFORMING WORK. 5. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH THE OTHER DRAWINGS RELEASED FOR THE PROJECT. CONTRACTOR TO COORDINATE, TO THE EXTENT POSSIBLE, SUCH INTERRELATIONSHIPS IN PROJECT SHOP DRAWINGS AND FIELD WORK. 6. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONAL DATA PROVIDED. 7. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE-PROOFING METHODS, AND FIRE-PROOFING MATERIALS FOR STRUCTURAL MEMBERS. B. DELEGATED DESIGN / DEFERRED SUBMITTALS: 1. DELEGATED DESIGN AND DEFERRED SUBMITTALS ARE ITEMS DESIGNED BY OTHERS. SHOP DRAWINGS AND CALCULATIONS SHALL BE GENERATED FOR THE DESIGN AND FABRICATION OF ALL DELEGATED DESIGN AND DEFERRED SUBMITTALS ITEMS INDICATED BELOW. THESE DRAWINGS AND CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. FOR ITEMS INDICATED AS "DESIGNED BY THE CONTRACTOR", "DESIGNED BY SUPPLIER", "DESIGNED BY FABRICATOR" AND "DESIGNED BY INSTALLER", IF THESE ENTITIES ARE NOT PROVIDING THEIR OWN ENGINEERING WITH THEIR DESIGNS COMPLETED BY A PROFESSIONAL ENGINEER WHO WILL SEAL AND SIGN THEIR SUBMITTALS THEN THESE ENTITIES WILL INDEPENDENTLY CONTRACT A THIRD PARTY TO PROVIDE THIS SERVICE ON THEIR BEHALF. UNLESS SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, DELEGATED DESIGN ITEMS SHALL BE DESIGNED FOR ALL CODE DEFINED LOADS PLUS INDUSTRY STANDARD LOADS INCLUDING GRAVITY LOADS AND LATERAL LOADS DUE TO WIND AND SEISMIC. SEE THE RELEVANT SECTIONS OF THE GENERAL NOTES SHEETS FOR ADDITIONAL DESIGN REQUIREMENTS. CALCULATIONS SHALL INCLUDE REVIEW OF THE CAPACITIES OF ALL SUPPORTING STRUCTURAL ELEMENTS INCLUDING LOCAL STRESSES DUE TO THE CONNECTION METHODS SELECTED. ADDITIONALLY, THE CALCULATIONS AND DRAWINGS SHALL CLEARLY INDICATE THE MAGNITUDES AND DIRECTIONS OF THE LOADS IMPARTED ON THE SUPPORTING STRUCTURAL ELEMENTS. THE LOADING CRITERIA USED FOR DESIGN OF THE DELEGATED DESIGN SYSTEMS AND COMPONENTS SHALL BE CLEARLY INDICATED ON THE DRAWINGS AND CALCULATIONS, REGARDLESS OF WHETHER THEY ARE MANDATED BY THE ENGINEER OF RECORD BY WAY OF THE DRAWING AND SPECIFICATIONS OR DERIVED BY THE DESIGNER. 2. TEMPORARY SHORING: FOUNDATIONS - SHEET PILING, PILES AND LAGGING REQUIRED FOR INSTALLATION OF FOUNDATIONS AND FOUNDATION WALLS SHALL BE DESIGNED BY THE CONTRACTOR. EXCAVATIONS REQUIRED FOR FOUNDATION AND FOUNDATION WALL CONSTRUCTION NEXT TO EXISTING BUILDINGS, NEAR PROPERTY LINES AND NEAR OR OVER UTILITIES MUST BE CONSIDERED BY THE CONTRACTOR IN EVALUATING SHORING REQUIREMENTS. 3. MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS: ROOF-TOP UNITS - DESIGN OF THE MECHANICAL UNIT CURB, CONNECTIONS OF THE UNIT TO THE CURB AND CONNECTIONS OF THE CURB TO STRUCTURE SHALL BE PROVIDED BY THE MECHANICAL UNIT CONTRACTOR. ADDITIONAL SUPPORT FRAMING FOR SUPPORTING THE GRAVITY AND LATERAL LOADS SHALL BE DESIGNED, ENGINEERED AND PROVIDED IF IT IS NOT INDICATED ON THE STRUCTURAL DRAWINGS. IF ADDITIONAL SUPPORT FRAMING IS PROVIDED, THE STRUCTURAL ADEQUACY SHALL BE VERIFIED FOR ALL ASCE 7-16 LOAD COMBINATIONS. SHOPS DRAWINGS AND CALCULATIONS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL PROVIDE DETAILS INDICATING THESE CONNECTIONS. SUPPORT AND BRACING OF DUCTWORK, PIPING, CONDUIT AND CABLE TRAYS ASSOCIATED WITH MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE COMPONENTS. FOR PROJECTS IN SEISMIC DESIGN CATEGORY C, D AND HIGHER, SEISMIC BRACING OF ALL MECHANICAL AND ELECTRICAL COMPONENTS REQUIRED BY THE ASCE 7-16 SHALL BE DESIGNED BY THE MECHANICAL CONTRACTOR AND CLEARLY INDICATED AND DETAILED ON THE SHOP DRAWINGS. 4. STAIRS: ALL INTERIOR AND EXTERIOR STAIRS AND LANDINGS SHALL BE DESIGNED AND ENGINEERED BY THE STAIR FABRICATOR. CONNECTIONS TO STRUCTURE SHALL BE DESIGNED BY THE STAIR FABRICATOR AND CLEARLY INDICATED AND COMMUNICATED TO THE ENGINEER OF RECORD PRIOR TO FABRICATION UNLESS INDICATED ON THE DRAWINGS, ADDITIONAL FOUNDATIONS REQUIRED FOR STAIR SUPPORT SHALL BE DESIGNED THE FABRICATOR. IF A FOUNDATION IS INDICATED ON THE STRUCTURAL DRAWINGS, THE ADEQUACY OF THE FOUNDATION SHALL BE VERIFIED FOR THE LOADS RESULTING FROM THE STAIR FABRICATORS DESIGN. THE STAIR FABRICATOR SHALL CLEARLY INDICATE THE LOCATION OF THESE FOUNDATIONS AND THEIR INTERRELATIONSHIP WITH FOUNDATION OF THE PRIMARY STRUCTURE. 5. SUPPORTS FOR INTERIOR FINISHES AND ACCOUTERMENTS: INTERIOR PARTITIONS, SOFFITS AND STOREFRONT SYSTEMS NOT PART OF THE MAIN BUILDING SHELL SHALL BE DESIGNED BY THE SUPPLIER. SUPPORTS AND CONNECTION TO STRUCTURE REQUIRED FOR ARTWORK, SPECIALTY LIGHTING SYSTEMS, MONITORS, VIDEO EQUIPMENT AND PROJECTION SCREENS, TELEVISIONS AND ANY OTHER MISCELLANEOUS ITEMS SHALL BE PROVIDED BY THE SUPPLIER. 6. WINDOWS, STOREFRONTS, GLAZING AND CURTAIN WALL SYSTEMS: ALL EXTERIOR AND INTERIOR GLAZING SYSTEMS AND THEIR CONNECTIONS TO STRUCTURE SHALL BE DESIGNED BY THE SUPPLIER. CONNECTION LOCATIONS SHALL BE CLEARLY INDICATED AND COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DETAILS. DUE TO MOVEMENT OF THE STRUCTURAL FRAMING SYSTEMS FROM LATERAL WIND AND SEISMIC FORCES, THE GLAZING SYSTEM MUST BE DESIGNED TO ACCOMMODATE ½" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT EACH STORY LEVEL. THE DESIGN STORY DRIFT IS THE DIFFERENCE IN LATERAL DISPLACEMENT OF THE TOP OF THE STORY UNDER CONSIDERATION RELATIVE TO THE BOTTOM OF THAT STORY (TOP OF THE STORY BELOW). THE CONNECTIONS OF THE GLAZING SYSTEM TO STRUCTURE CAN BE DESIGNED FOR THIS RELATIVE HORIZONTAL MOVEMENT. THE CONNECTIONS SHALL BE DESIGNED FOR ¾" HORIZONTAL (IN-PLANE) MOVEMENT IN ADDITION TO THE VERTICAL DEFLECTION REQUIREMENTS AS NOTED IN THE PLANS, DETAILS AND SPECIFICATIONS. IF THE CONNECTIONS ARE NOT DESIGNED FOR THE LATERAL MOVEMENT, THE GLAZING SYSTEM SHALL BE DESIGNED TO ACCOMMODATE ¾" HORIZONTAL STORY DRIFT IN EACH DIRECTION AT EACH STORY LEVEL TO ACCOUNT FOR DIFFERENTIAL DISPLACEMENTS FROM LOAD REVERSALS IN THE STRUCTURAL SYSTEMS. 7. RAILING AND GUARDRAILS: THE INTERIOR AND EXTERIOR RAILING AND GUARDRAILS SHALL BE DESIGN BY THE FABRICATOR. UNLESS SPECIFICALLY DETAILED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS, THE FABRICATOR SHALL DESIGN THE CONNECTIONS TO STRUCTURE AND VERIFY THE CAPACITY OF THE RECEIVING STRUCTURAL ELEMENTS FOR LOADS DUE TO THEIR CONNECTIONS.			C. SOIL / STRUCTURE INTERACTION & SOIL PREPARATION INFORMATION: 1. DO NOT BACKFILL WALLS UNTIL CONCRETE HAS ATTAINED FOURTEEN (14) DAY STRENGTH OR LATERAL BRACING IS PROVIDED. 2. FOUNDATIONS HAVE BEEN DESIGNED ASSUMING AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 POUNDS PER SQUARE FOOT (PSF) FOR ALL SPREAD FOOTERS. SOIL CONDITIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER OR AN APPOINTED REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER (OR REPRESENTATIVE) SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. D. DESIGN LOADS: 1. CODE REFERENCES: a. OHIO BUILDING CODE (OBC) - 2017 b. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES c. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318 - 2017 d. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMMENTARIES, ACI 530 - 2016 e. COLD-FORMED STEEL DESIGN MANUAL, AISI - 2017 f. SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI - 2017 g. CATALOG OF STANDARD SPECIFICATIONS AND LOAD TABLES FOR STEEL JOISTS AND JOIST GIRDERS, STEEL JOIST INSTITUTE - 2017 h. STEEL DECK INSTITUTE FLOOR DECK DESIGN MANUAL, 1st EDITION - MARCH 2014 i. STEEL DECK INSTITUTE ROOF DECK DESIGN MANUAL, 1st EDITION - MAY 2013 j. STEEL DECK INSTITUTE DIAPHRAGM DESIGN MANUAL, 4th EDITION - SEPTEMBER 2015 k. STEEL DECK INSTITUTE MANUAL OF CONSTRUCTION WITH STEEL DECK - OCTOBER 2016 l. STEEL DECK INSTITUTE STANDARD PRACTICE DETAILS - MAY 2001 m. MANUAL OF STEEL CONSTRUCTION - AISC, 15th EDITION - 2017 n. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OF A490 BOLTS - 01 AUGUST 2014 o. STRUCTURAL WELDING CODE - STEEL, ANSI/AWS D1.1 - 2015 p. FEMA 405 - NEHRP RECOMMENDED PROVISIONS FOR SEISMIC REGULATIONS FOR NEW BLDGS AND OTHER STRUCTURES - 2015 DEAD LOADS: ROOF DEAD LOAD 20 PSF LIVE LOADS: FLOOR LIVE LOADS: OCCUPANCY TYPES: DISTRIBUTED LOADS CONCENTRATED LOAD (ON 2.5 SF AREA) STORAGE WAREHOUSE 125 PSF STAIRS/LANDINGS/PLATFORMS/EXITS 100 PSF 300 LB (ON 4.5 SQ. IN. OF TREAD) ROOF LIVE LOAD: MINIMUM DESIGN ROOF LIVE LOAD 20 PSF SNOW LOAD PARAMETERS: a. GROUND SNOW LOAD, Pg 20 PSF b. FLAT-ROOF SNOW LOAD, Pf 16.8 PSF c. THERMAL FACTOR, Ct 1.2 d. EXPOSURE FACTOR, Ce 1.0 e. ROOF SLOPE FACTOR, Cs 1.0 f. SNOW LOAD IMPORTANCE FACTOR, I 1.0 WIND DESIGN PARAMETERS: a. BASIC WIND SPEED = 115 MPH b. WIND LOAD IMPORTANCE FACTOR = 1.0 c. WIND EXPOSURE = EXPOSURE C d. MAIN WIND DESIGN VELOCITY PRESSURES: <table><thead><tr><th>HEIGHT (FT.)</th><th>WINDWARD WALL</th><th>LEEWARD WALL</th><th>SIDEWALLS</th></tr></thead><tbody><tr><td>0-15</td><td>22.0 PSF</td><td>-17.8 PSF / -10.3 PSF</td><td>-22.8 PSF</td></tr><tr><td>15-20</td><td>22.9 PSF</td><td>-17.8 PSF / -10.3 PSF</td><td>-22.8 PSF</td></tr><tr><td>20-25</td><td>23.7 PSF</td><td>-17.8 PSF / -10.3 PSF</td><td>-22.8 PSF</td></tr></tbody></table> COMPONENT AND CLADDING - WALLS <table><thead><tr><th>AREA (SQ. FT.)</th><th>INTERIOR ZONE</th><th>EDGE ZONE</th></tr></thead><tbody><tr><td>10</td><td>30.8 PSF</td><td>37.9 PSF</td></tr><tr><td>100</td><td>26.6 PSF</td><td>29.4 PSF</td></tr><tr><td>200</td><td>25.4 PSF</td><td>27.0 PSF</td></tr><tr><td>500</td><td>23.7 PSF</td><td>23.7 PSF</td></tr></tbody></table> SEISMIC DESIGN PARAMETERS: a. OCCUPANCY CATEGORY II b. SITE CLASS D c. IMPORTANCE FACTOR 1.0 d. SEISMIC DESIGN CATEGORY: B e. RESPONSE MODIFICATION COEFFICIENT, R 3 ¼ f. 0.2 SECOND DESIGN SPECTRAL RESPONSE, Sds 19.1% g. 1.0 SECOND DESIGN SPECTRAL RESPONSE, Sd1 11.2% h. DEFLECTION AMPLIFICATION FACTOR, Cd 3¼ j. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE k. SEISMIC FORCE-RESISTING SYSTEM: STEEL ORDINARY CONCENTRICALLY BRACED FRAMES l. SEISMIC BASE SHEAR: V = Cs x WEIGHT SCHEDULE OF SPECIAL INSPECTION SERVICES PER CHAPTER 17 OF INTERNATIONAL BUILDING CODE. SEE SECTION 1704.3 "CONTRACTOR RESPONSIBILITY"			HEIGHT (FT.)	WINDWARD WALL	LEEWARD WALL	SIDEWALLS	0-15	22.0 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF	15-20	22.9 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF	20-25	23.7 PSF	-17.8 PSF / -10.3 PSF	-22.8 PSF	AREA (SQ. FT.)	INTERIOR ZONE	EDGE ZONE	10	30.8 PSF	37.9 PSF	100	26.6 PSF	29.4 PSF	200	25.4 PSF	27.0 PSF	500	23.7 PSF	23.7 PSF	E. REINFORCED CONCRETE: 1. MATERIALS: a. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS RELATED TO THE CONCRETE TO BE USED ON THIS PROJECT. b. STRUCTURAL CONCRETE OVERVIEW - SEE SPECS FOR SPECIFIC INFO <table><thead><tr><th>LOCATION</th><th>f'c (PSI)</th></tr></thead><tbody><tr><td>FOUNDATIONS AND GRADE BEAMS</td><td>3000</td></tr><tr><td>TYP. INTERIOR CONCRETE</td><td>4000</td></tr><tr><td>EXTERIOR CONCRETE EXPOSED TO DE-ICING</td><td>4500, 6% AIR</td></tr><tr><td>BACKFILL BELOW FOOTINGS, CONCRETE FILL IN STRUCTURES</td><td>1500</td></tr></tbody></table> c. ALL DEFORMED REINFORCING BARS: FY = 60,000 P.S.I. d. WELDED WIRE FABRIC: ASTM A185 2. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE LATEST ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES. 3. CONTINGENCIES: PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES. 4. FOOTINGS, PIERS, WALLS AND SLABS: a. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING, U.N.O. b. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING, MINIMUM LENGTH OF EACH LEG - 45 BAR DIAMETERS. (PLACE AS PER DETAILS U.N.O.). c. PROVIDE 10 MIL. POLYETHYLENE VAPOR RETARDER AND 6" COMPACTED AGGREGATE SUBBASE MATERIAL ON TOP IN ACCORDANCE WITH THE TYPICAL SLAB DETAILS. UNDER ALL INTERIOR SLABS ON GRADE, VAPOR RETARDER SHALL BE CARRIED TO AND PLACED IN CONTACT W/ RIGID INSULATION AT INTERIOR FACE OF EXTERIOR FOUNDATION WALLS. SEE SPECIFICATIONS FOR FURTHER INFORMATION. 5. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED. 6. CHAMFER: PROVIDE 3/4" CHAMFER AT ALL EXPOSED EDGES OF CONCRETE, U.N.O. 7. MISCELLANEOUS: a. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS AND COORDINATE WORK WITH THE CONSTRUCTION MANAGER AND OTHER TRADES. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL. 8. CONCRETE COVER: U.N.O. DETAIL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS FOLLOWS: <table><tbody><tr><td>CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:</td><td>3 IN.</td></tr><tr><td>CONCRETE EXPOSED TO EARTH OR WEATHER: No. 6 - No. No. 18 BARS No. 5 BAR, W31 OR D31 WIRE, AND SMALLER</td><td>2 IN. 1½ IN.</td></tr><tr><td>CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, AND JOISTS: No. 14 AND No. 18 BARS No. 11 BARS AND SMALLER BEAMS AND COLUMNS: PRIMARY REINFORCEMENT, STIRRUPS, TIES AND SPIRALS</td><td>1½ IN. ¾ IN. 1½ IN.</td></tr><tr><td>SURFACES EXPOSED TO LIQUIDS:</td><td>2 IN.</td></tr><tr><td>SLABS ON GRADE - 1/3 SLAB THICKNESS FROM TOP OF SLAB OR AS SHOWN ON DRAWINGS</td><td></td></tr></tbody></table>			LOCATION	f'c (PSI)	FOUNDATIONS AND GRADE BEAMS	3000	TYP. INTERIOR CONCRETE	4000	EXTERIOR CONCRETE EXPOSED TO DE-ICING	4500, 6% AIR	BACKFILL BELOW FOOTINGS, CONCRETE FILL IN STRUCTURES	1500	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3 IN.	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CHECKED	JMR

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TITLE
GENERAL NOTES

SHEET NO.

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TABLE 1704.5.1 LEVEL 1 MASONRY SPECIAL INSPECTION

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ASCE 5/TMS 402a	ACI 530.1/ASCE 6/TMS 602a
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE.					
A. PROPORTIONS OF SITE-PREPARED MORTAR.	--		--	--	
B. CONSTRUCTION OF MORTAR JOINTS.	--		--	--	
C. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	--		--	--	
D. PRESTRESSING TECHNIQUE	--		--	--	
E. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	--		--	--	
2. THE INSPECTION PROGRAM SHALL VERIFY:	--				
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	--		--	--	
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	--		--		--
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.	--		--		
D. WELDING OF REINFORCING BARS.		--	--		--
E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	--			--	
F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	--		--	--	
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE	--				
A. GROUT SPACE IS CLEAN.	--		--	--	
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.	--		--	--	
C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	--		--	--	
D. CONSTRUCTION OF MORTAR JOINTS.	--		--	--	
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.		--	--	--	
A. GROUTING OF PRESTRESSING BONDED TENDONS.		--	--	--	
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.		--		--	
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	--		--	--	

FOR ST °C = ((F - 32) / 1.8)
A. THE SPECIFIC STANDARDS REFERENCED ARE THOSE LISTED IN CH. 35

TABLE 1704.3 REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	--	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A 3.3	--
B. MANUFACTURE'S CERTIFICATE OF COMPLIANCE REQUIRED.	--	X	--	--
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
A. BEARING-TYPE CONNECTIONS.	--	X	AISC 360, SECTION M2.5	1704.3.3
B. SLIP-CRITICAL CONNECTIONS	X	X		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	--	--	ASTM A 6 OR ASTM A 568	1706.4
B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.	--	--	ASTM A 6 OR ASTM A 568	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	--	--	AISC 360, SECTION A 3.5	--
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	--	--	--	--
5. INSPECTION OF WELDING: A. STRUCTURAL STEEL:	--	--		
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	--	AWS D1.1	1074.3.1
2) MULTIPASS FILLET WELDS.	X	--		
3) SINGLE-PASS FILLET WELDS > 5/16"	X	--		
4) SINGLE-PASS FILLET WELDS < 5/16"	--	X		
5) FLOOR AND ROOF DECK WELDS.	--	X	AWS D 1.3	
B. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	--	X	AWS D 1.4 ACL318: 3.5.2	--
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	--		
3) SHEAR REINFORCEMENT.	X	--		
4) OTHER REINFORCING STEEL.	--	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:				
A. DETAILS SUCH AS BRACING AND STIFFENING.	--	X	--	1704.3.2
B. MEMBER LOCATIONS.				
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.				

TABLE 1704.4 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	--	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B.	--	--	AWS D1.4 ACI 318: 3.5.2	--
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X	--	--	1911.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	--	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	--	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	--	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	--	X	ACI 318: 5.11, 5.13	1913.9
8. INSPECTION OF PRESTRESSED CONCRETE:				
A. APPLICATION OF PRESTRESSING FORCES.	X	--	ACI 318: 18.20	--
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X	--	ACI 318: 18.18.4	--
9. ERECTION OF PRECAST CONCRETE MEMBERS.	--	X	ACI 318: Ch. 16	--
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	--	X	ACI 318: 6.2	--
11. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	--	X	ACI 318: 6.1.1	--

TABLE 1704.7 REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	--	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	--	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	--
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	--	X

SPECIAL INSPECTION PROGRAM NOTES:

- PERIODIC INSPECTION FREQUENCY DETERMINED BY THE DESIGN PROFESSIONAL, UNLESS NEEDED OTHERWISE.
- CONTINUOUS OR PERIODIC SELECTION TO BE MADE BY THE DESIGN PROFESSIONAL BASED ON BUILDING CATEGORY AND DESIGN METHODOLOGY.

SPECIAL INSPECTION/TESTING PROGRAM

- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION STIPULATED.
- IF NECESSARY, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, AND TESTING AGENCY TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.
- DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:
 - ACKNOWLEDGE AND CONFORM TO THE SPECIAL INSPECTION REQUIREMENTS OF IBC.
 - THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT PLANS AND SPECIFICATIONS, ALL DISCREPANCIES SHALL BE BROUGHT TO IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ATTENTION OF THE ARCHITECT, THE ENGINEER AND THE BUILDING OFFICIAL.
 - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE CONTRACTOR, THE ARCHITECT, THE ENGINEER AND THE BUILDING OFFICIAL AS A MINIMUM. THE REPORTS SHALL BE DISTRIBUTED IN A TIMELY MANNER.
 - INSPECTION FOR PREFABRICATED COMPONENTS SHALL BE THE SAME AS IF THE MATERIAL WAS INSTALLED ON SITE. CONTINUOUS INSPECTION SHALL NOT BE REQUIRED DURING THE PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
 - THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING INSPECTION WAS INSPECTED AND WHETHER THE WORK WAS COMPLETED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATION AND IN CONFORMANCE WITH ANY APPLICABLE WORKMANSHIP PROVISIONS OF THE APPLICABLE CODE.
- SPECIAL INSPECTION AND TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.

STRUCTURAL OBSERVATION:

- STRUCTURAL OBSERVATION CONFORMING TO THE 2012 IBC SECTION 1704 WILL BE PERFORMED BY AN *L2 ENGINEERING* REPRESENTATIVE IN ORDER TO REVIEW THE CONTRACTOR'S WORK FOR GENERAL CONFORMANCE WITH THE DESIGN DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE *L2 ENGINEERING* WITH A MINIMUM OF 3 DAYS NOTICE TO PROPERLY SCHEDULE THE OBSERVATION VISIT.
- IF ADDITIONAL ENGINEERING TIME IS REQUIRED DUE TO INCOMPLETE OR UNACCEPTABLE WORK BY THE CONTRACTOR, *L2 ENGINEERING* SHALL BE REIMBURSED FOR ALL ASSOCIATED COSTS.
- STRUCTURAL OBSERVATION FOR THIS PROJECT WILL OCCUR AT THE FOLLOWING STAGES:
 - DURING CONCRETE PLACEMENT

A
A/E - ARCHITECT/ENGINEER
AB - ANCHOR BOLT/ROD
AFF - ABOVE FINISH FLOOR
ARCH - ARCHITECT (URAL)
B
BFF - BELOW FINISH FLOOR
BLK - BLOCK (ING)
BM - BEAM
BRG - BEARING
BU - BUILT UP
B/- BOTTOM OF
C
CAM (C=) - CAMBER
CIP - CAST-IN-PLACE
CJ - CONTROL JOINT
CL - CENTERLINE
CLR - CLEAR
CMU - CONCRETE MASONRY UNIT
COL - COLUMN
CONC - CONCRETE
CONN - CONNECT (ION)
CONT - CONTINUOUS
CONTR - CONTRACT (OR)
CTR - CENTER
CU - CUBIC
D
D - DEEP, DEPTH
DBL - DOUBLE
DEMO - DEMOLITION, DEMOLISH
DET - DETAIL
DIA - DIAMETER
DIAG - DIAGONAL, DIAGRAM
DIM - DIMENSION
DIR - DIRECTION
DL - DEAD LOAD
DR - DRAIN
DWG - DRAWING
E
EA - EACH
EF - EACH FACE
EJ - EXPANSION JOINT
EL, ELEV - ELEVATION
EMBED - EMBEDMENT
EQ - EQUAL
EST - ESTIMATE
EW - EACH WAY
EQUIP - EQUIPMENT
EXP - EXPANSION
EXT - EXTERIOR
F
FD - FLOOR DRAIN
FF - FINISHED FLOOR
FIN - FINISH (ED)
FLG - FLANGE
FLR - FLOOR (ING)
FOC - FACE OF CONCRETE
FOM - FACE OF MASONRY
FOS - FACE OF STUD
FOW - FACE OF WALL
FS - FAR SIDE
FT - FOOT, FEET
FTG - FOOTING
FRMG - FRAMING
FUT - FUTURE
G
GA - GAGE, GAUGE
GALV - GALVANIZED
GC - GENERAL CONTRACTOR
GEN - GENERAL
GL - GRADE LINE
GLU-LAM - GLUE-LAMINATED
BEAM
GR BM - GRADE BEAM
GYP BD - GYPSUM BOARD
H
H - HIGH
HAS - HEADED ANCHOR STUD
HC - HOLLOW CORE
HDR - HEADER
HGR - HANGER
HORIZ - HORIZONTAL
HR - HANDRAIL
HS - HIGH STRENGTH
HSB - HIGH STRENGTH BOLT
HSS - HOLLOW STRUCTURAL
SHAPE
HT - HEIGHT

I
ID - INSIDE DIAMETER
INCL - INCLUDING
INT - INTERIOR
J
JST - JOIST
JT - JOINT
K
K - KIPS (1000 lbs.)
KCJ - KEYED CONSTRUCTION
JOINT
KLF - KIPS PER LINEAR FOOT
KSF - KIPS PER SQUARE FOOT
KSI - KIPS PER SQUARE INCH
L
L - ANGLE
LL - DOUBLE ANGLE
LBS - POUNDS
LG - LONG
LL - LIVE LOAD
LLH - LONG LEG HORIZONTAL
LLV - LONG LEG VERTICAL
LOC - LOCATION
LONG - LONGITUDINAL
LSL - LAMINATED STRAND
LUMBER
LT WT - LIGHT WEIGHT
LVL - LAMINATED VENEER
LUMBER
M
MATL - MATERIAL
MAX - MAXIMUM
MBR - MEMBER
MC - MISCELLANEOUS CHANNEL
MECH - MECHANICAL
MEZZ - MEZZANINE
MFD - MANUFACTURED
MFR - MANUFACTURER
MIN - MINIMUM
MISC - MISCELLANEOUS
MTL - METAL
N
NA - NOT APPLICABLE
NIC - NOT IN CONTRACT
NO - NUMBER
NOM - NOMINAL
NS - NEAR SIDE
NTS - NOT TO SCALE
O
OC - ON CENTER
OD - OUTSIDE DIAMETER
OH DR - OVERHEAD DOOR
OPNG - OPENING
OPP - OPPOSITE
OSB - ORIENTED STRAND
BOARD
OVS - OVERSIZED
P
PAF - POWDER ACTUATED
FASTENER
PCF - POUNDS PER CUBIC FOOT
PL - PLATE
PLF - POUNDS PER LINEAR
FOOT
PLYWD - PLYWOOD
PNL - PANEL
PR - PAIR, PIPE RAIL
PRCST - PRECAST
PREFAB - PREFABRICATED
PSF - POUNDS PER SQUARE
FOOT
PSI - POUNDS PER SQUARE
INCH
PT - POST TENSION (ED),
PRESSURE TREATED
R
R - RADIUS
RCP - REINFORCED CONCRETE
PIPE
RD - ROOF DRAIN
REF - REFERENCE
REINF - REINFORCING
REQ'D - REQUIRED
REV - REVISION
RO - ROUGH OPENING

S
SCHD - SCHEDULE
SECT - SECTION
SHT - SHEET
SHTHG - SHEATHING
SIM - SIMILAR
SL - SNOW LOAD
SLV - SLEEVE
SOG - SLAB-ON-GRADE
SPEC - SPECIFICATION
SQ - SQUARE
SSL - SHORT SLOTTED
SST - STAINLESS STEEL
STD - STANDARD
STIF - STIFFENER
STL - STEEL
SUSP - SUSPENDED
SW - SHEAR WALL
SYMM - SYMMETRICAL
T
T&B - TOP AND BOTTOM
T&G - TONGUE AND GROOVE
TBD - TO BE DETERMINED
THK - THICK (NESS)
TL - TOTAL LOAD
TO - TOP OF
TOB - TOP OF BEAM
TOC - TOP OF CONCRETE
TOCW - TOP OF CONCRETE
WALL
TOP - TOP OF FOOTING
TOM - TOP OF MASONRY
TOS - TOP OF STEEL
TOW - TOP OF WALL
TRANS - TRANSVERSE
TYP - TYPICAL
U
UNO - UNLESS NOTED
OTHERWISE
V
V - SHEAR
VERT - VERTICAL
VIF - VERIFY IN FIELD
VR - VAPOR RETARDER
VRFY - VERIFY
W
W - WIDTH
W/- WITH
W/O - WITHOUT
WD - WOOD
WF - WIDE FLANGE
WL - WIND LOAD
WLD - WELD (ED)
WP - WATERPROOFING, WORK
POINT
WS - WATERSTOP
WT - WEIGHT
WWF - WELDED WIRE FABRIC
Y
YD - YARD



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NEW STORAGE BUILDING

REMINGTON SEED

5585 State Route 571 GREENVILLE, OHIO 45331

ISSUE

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DATE 8/06/2021

JOB NO. 2021056

DRAWN JMR

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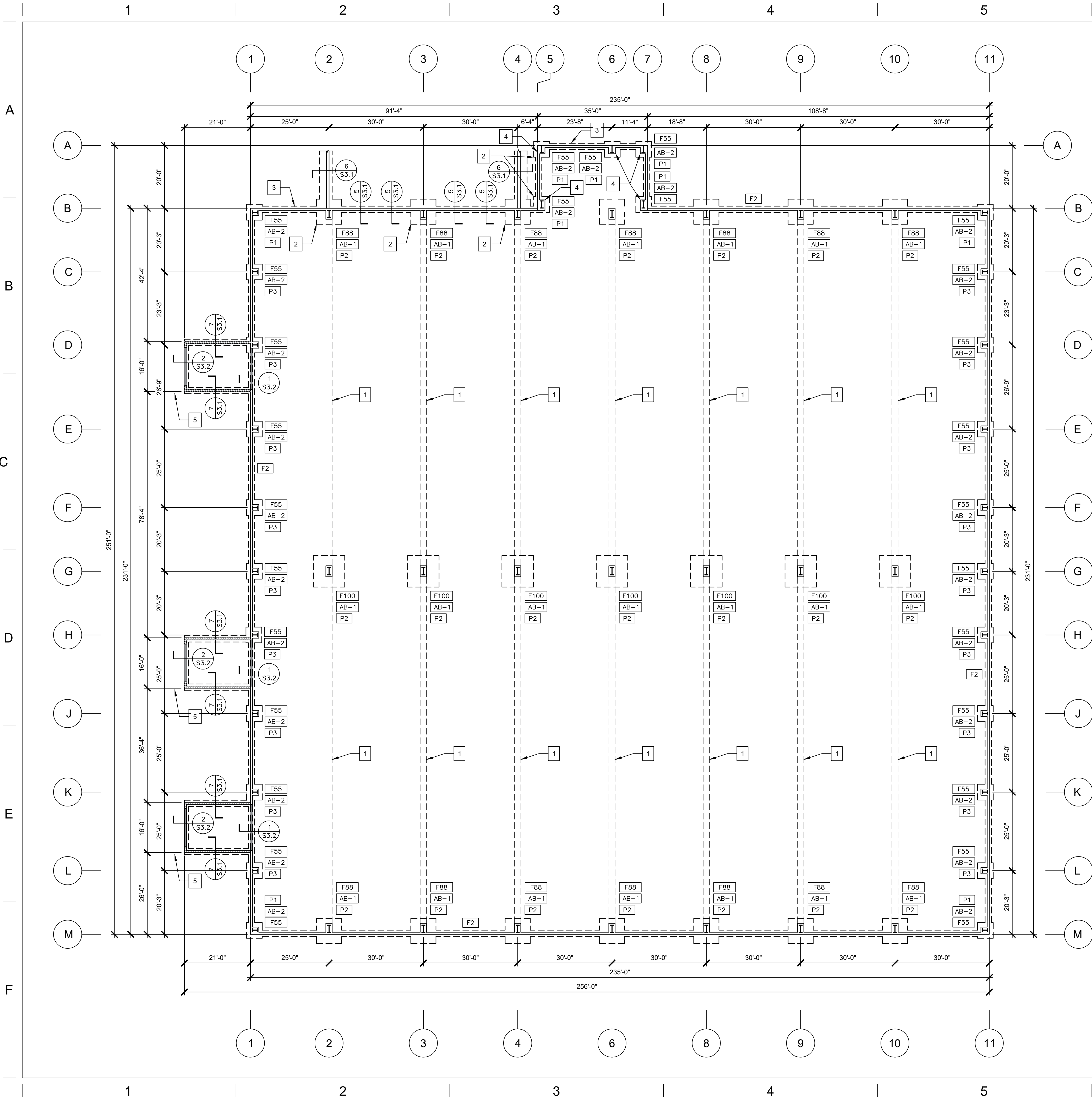
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SPECIAL INSPECTIONS

SHEET NO.

S0.3



FOUNDATION PLAN

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

FOUNDATION NOTES:

- 5" THICK CONCRETE SLAB-ON-GRADE w/ 6x6 - W2.0 x W2.0 WWF OVER 6" MIN. COMPACTED GRANULAR BASE & 6 MIL VAPOR BARRIER. T/SLAB = 100'-0"
- PROVIDE CONTROL JOINTS IN SLAB-ON-GRADE AT 12'-6" O.C. MAX.
- T/PEDESTAL = 100'-0" U.N.O.
- T/FOOTING = 98'-0" U.N.O.
- CENTER ALL COLUMN FOOTINGS UNDER COLUMN CENTERLINES, U.N.O.
- REFER TO P.E.M.B. SUBMITTAL FOR ANCHOR BOLT LOCATIONS. SEE BELOW FOR EMBEDMENT AND DIAMETER:
AB-1 15" EMBEDMENT 1" DIAMETER
AB-2 12" EMBEDMENT 3/4" DIAMETER
- AT ALL PERIMETER DOORWAYS, POUR SLAB THROUGH EDGE PER DETAIL 4/S3.1. FOR ANTI-HEAVE STOOP, REFER TO DETAIL 9/S3.1. REFER TO ARCH. DWG's FOR EXACT LOCATIONS AND DIMENSIONS OF DOORS.

1 PLAN NOTES:

- 18" WIDE GRADE BEAM w/ (2) #5 CONT. BARS TOP & BOTTOM. BOTTOM OF GRADE BEAM = 98'-0".
- TOP OF FOOTING = 94'-0".
- STEP FOOTING AS REQUIRED PER DETAIL 8/S3.1.
- TOP OF PEDESTAL & STEM WALL = 100'-4" (AT OFFICE LOCATION ONLY).
- ONE NEW HSS4x4x1/4 FULL-HEIGHT JAMB (EXISTING HSS4x4 WILL BE THE OTHER JAMB) & ONE NEW HSS6x4x1/4 HEADER REQUIRED AT NEW OPENING IN EXISTING BUILDING.

PEDESTAL SCHEDULE				
MARK	SIZE		REINFORCING	
	WIDTH	LENGTH	VERTICAL BARS	LATERAL TIES ⁴
P1	2'-4"	2'-8"	(8) #6	#4 AT 12" O.C.
P2	2'-0"	3'-6"	(10) #6	#4 AT 12" O.C.
P3	2'-0"	2'-8"	(8) #6	#4 AT 12" O.C.

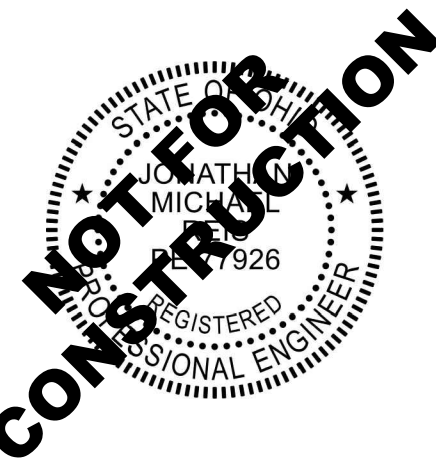
NOTES: 1. SEE APPLICABLE SECTIONS FOR ADDITIONAL INFORMATION.
2. REFER TO PLAN FOR ORIENTATION.
3. REINFORCING SHALL HAVE 2" CLEAR COVER FROM FACE OF PEDESTAL.
4. PROVIDE (3) #4 LATERAL TIES WITHIN TOP 6" OF PEDESTAL.

FOOTING SCHEDULE: (ISOLATED FOOTINGS)				
MARK	SIZE			REINFORCING
	LENGTH	WIDTH	THICKNESS	
F55	5'-0"	5'-0"	14"	(6) #6 EA. WAY
F88	8'-0"	8'-0"	16"	(9) #8 EA. WAY
F100	10'-0"	10'-0"	18"	(12) #8 EA. WAY

FOOTING SCHEDULE: (CONTINUOUS FOOTINGS)				
MARK	SIZE		REINFORCING	REMARKS
	WIDTH	SIZE		
F2	2'-0"	12"	(3) #5 CONT.	-



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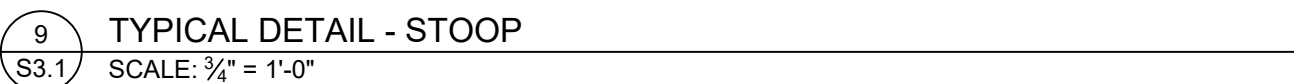
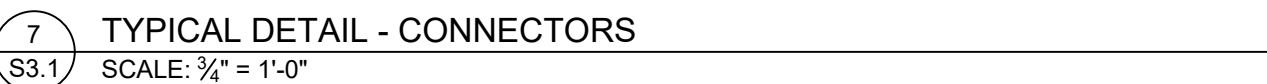
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**STRUCTURAL
DETAILS**

SHEET NO.

S3.1

1

2

3

4

5

6

7

A

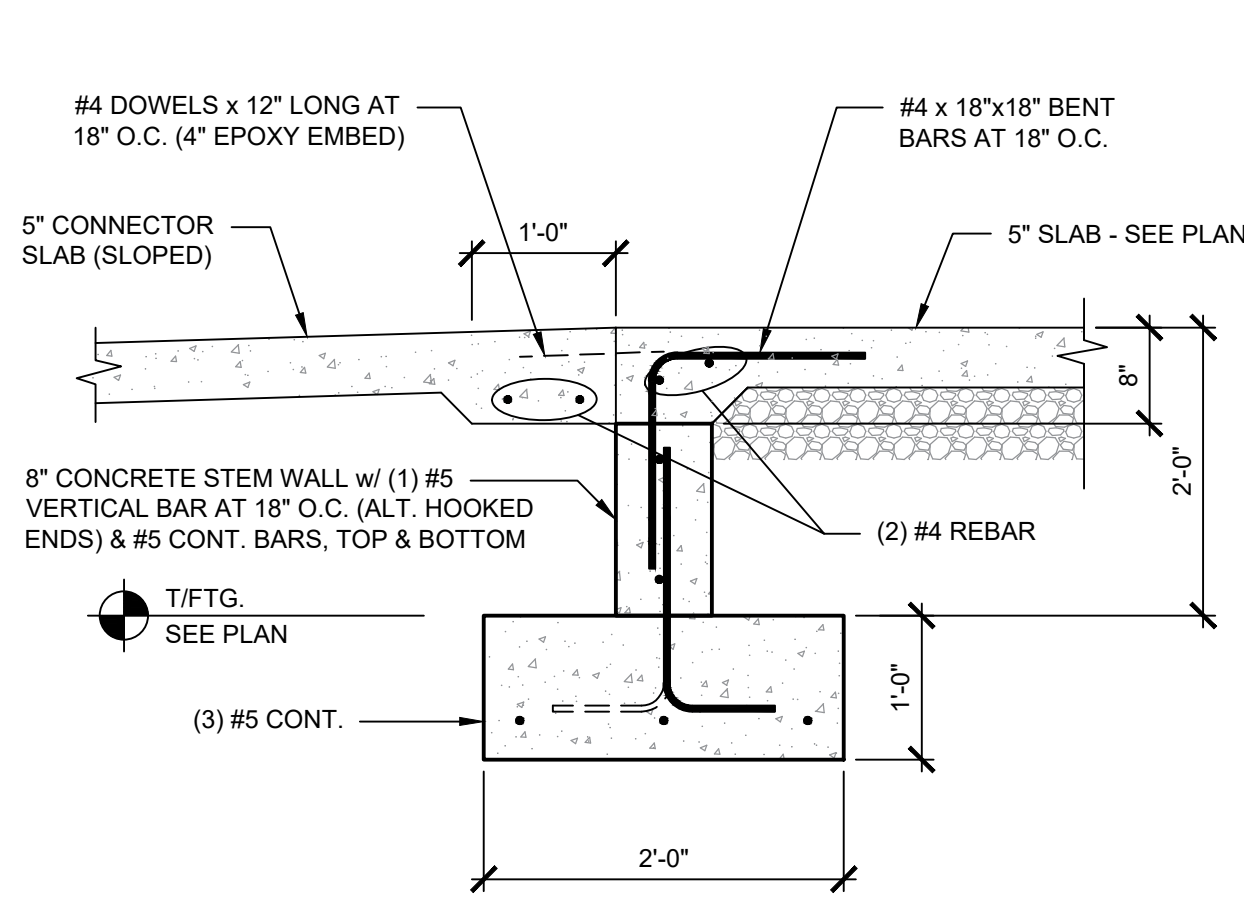
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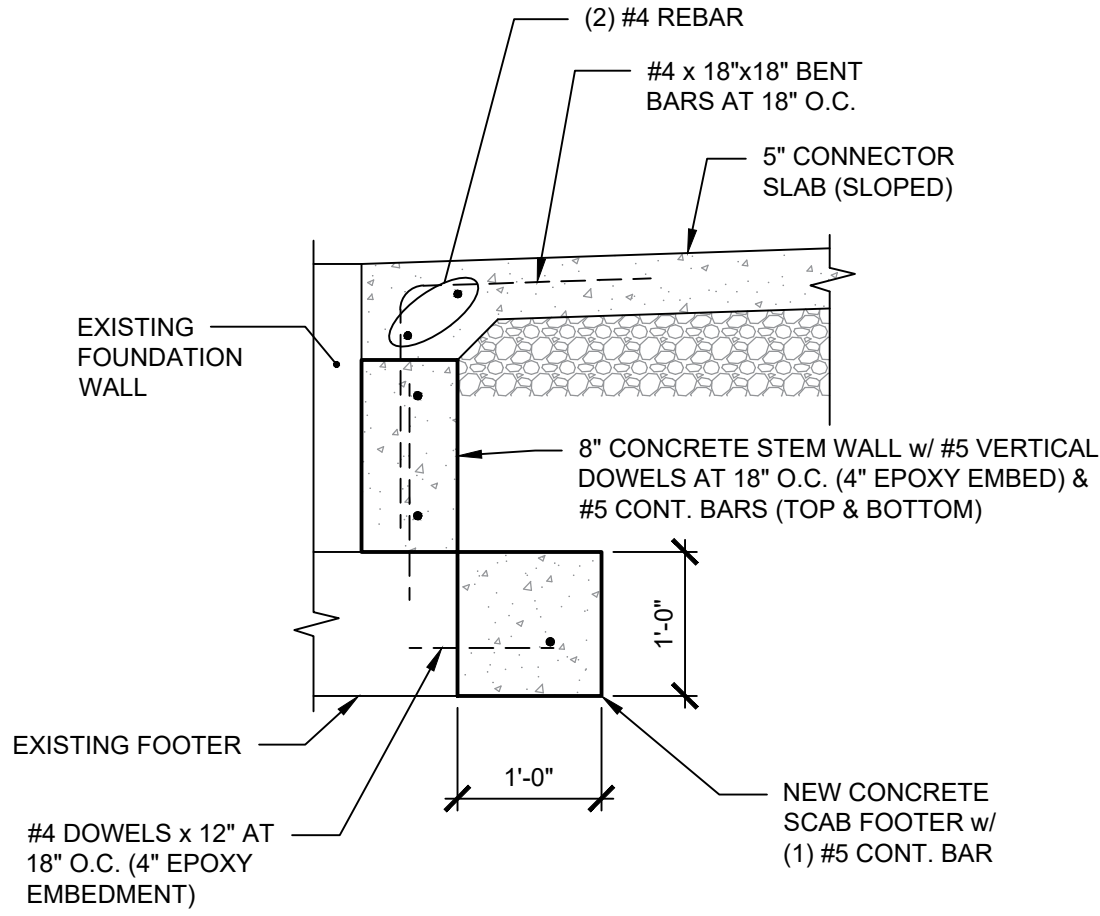
D

E

F



1
S3.2 TYPICAL DETAIL - POUR-THROUGH AT CONNECTOR
SCALE: 3/4" = 1'-0"



2
S3.2 TYPICAL DETAIL - POUR-THROUGH AT CONNECTOR & EXISTING BLDG.
SCALE: 3/4" = 1'-0"



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