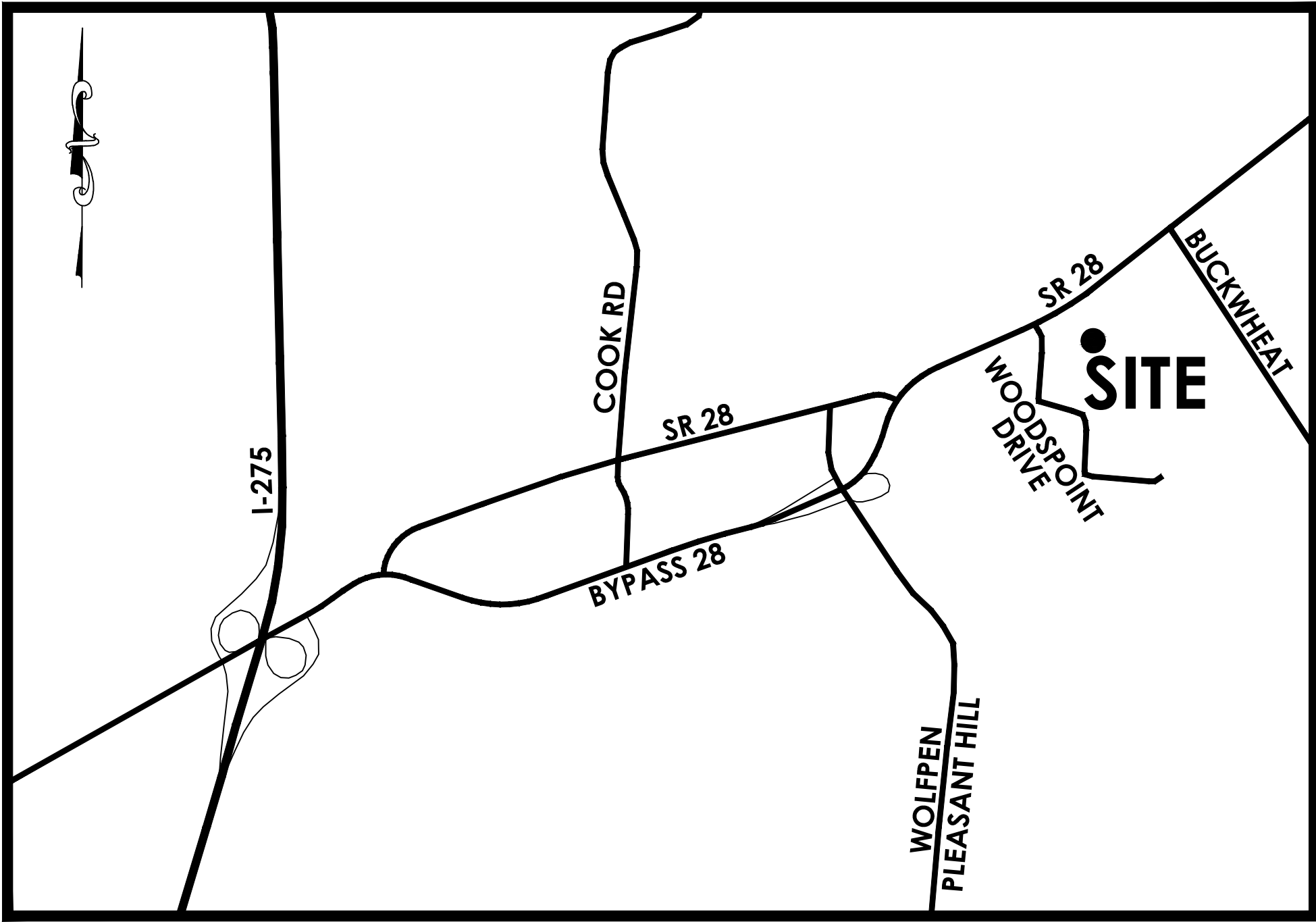


LORVEN DRIVE - PHASE 2A PUBLIC ROADWAY IMPROVEMENTS



VICINITY MAP
NOT TO SCALE

JONES MILITARY SURVEY No. 991
MIAMI TOWNSHIP
CLERMONT COUNTY, OHIO

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PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE EXTENSION OF LORVEN DRIVE PUBLIC ROADWAY IMPROVEMENTS ASSOCIATED WITH THE IMPROVEMENTS TO FUTURE COMMERCIAL USES AND FUTURE CONNECTION TO AN EXISTING RESIDENTIAL COMMUNITY. THE DESIGN INCLUDES APPROXIMATELY 490 LINEAR FEET OF PUBLIC ROADWAY.

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS PROJECT.

NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMBINATION OF RECORD INFORMATION AND SURFACE INDICATIONS OF UNDERGROUND STRUCTURES. ALL UTILITIES MAY NOT BE SHOWN. EXACT LOCATIONS CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY EXCAVATION OR CONSTRUCTION ACTIVITY.

ELEVATION DATUM:
BENCHMARK FROM CLERMONT COUNTY MONUMENTS
M151 & 227

APPROVED:

Heather Woodall
CLERMONT COUNTY WATER RESOURCES DEPT

11/30/24
DATE

Michelle Loh
CLERMONT COUNTY ENGINEER

1-30-2024
DATE

Heather Woodall
CLERMONT COUNTY WMSC

1/30/24
DATE

Heather Woodall
MIAMI TOWNSHIP

01/30/2024
DATE

MSP

DESIGN

McGill Smith Punshon

Architecture

Engineering

Landscape Architecture

Planning

Surveying

3700 Park 42 Drive

Suite 190B

Cincinnati OH 45241

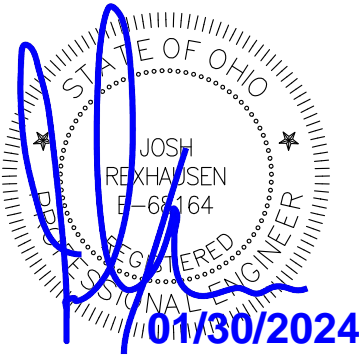
Phone 513.759.0004

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DWG 18441004-ROAD-EXT
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LORVEN DRIVE - PHASE 2A
PUBLIC ROADWAY IMPROVEMENTS

JONES MILITARY SURVEY No. 991
MIAMI TOWNSHIP
CLERMONT COUNTY, OHIO

| TITLE SHEET | |
|----------------|----------|
| Project Number | 18441.03 |
| Drawing Scale | AS NOTED |
| Sheet Number | 1/14 |
| File Number | 18441 |

OHIO

Utilities Protection

SERVICE

Call Before You Dig

1-800-362-2764

CALL TWO WORKING DAYS BEFORE YOU DIG

(NON MEMBERS MUST BE CALLED DIRECTLY)

SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS
THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, 2019 CONSTRUCTION AND MATERIALS SPECIFICATIONS, AND THE NOTED STANDARD CONSTRUCTION DRAWINGS SHALL GOVERN THIS IMPROVEMENT.

WHEREVER THE WORD "STATE" OCCURS, IT IS TO MEAN THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT).

PRE-CONSTRUCTION MEETING
FOLLOWING THE AWARD OF THE CONTRACT AND BEFORE STARTING ANY WORK, THE CONTRACTOR AND HIS SUPERINTENDENT, SHALL MEET WITH THE OWNER AND COUNTY FOR A PRE-CONSTRUCTION MEETING. THE PURPOSE OF SUCH IS FOR REVIEWING ANY RESTRICTIONS AND REGULATIONS GOVERNING THE WORK.

ANY SCHEDULES, REQUESTS, PAPERS, APPROVALS, SUBMITTALS, SHOP DRAWINGS, CHANGES, ETC. AS CALLED FOR IN THE CONTRACT DOCUMENTS SHALL BE DONE AT THIS TIME UNLESS OTHERWISE DIRECTED.

PERMITS, FEES AND NOTICES
THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ANY AND ALL PERMITS AND INSPECTIONS REQUIRED FOR THE CONSTRUCTION WORK BY LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

MATERIALS AND WORKMANSHIP
UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF THE FIRST QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSE. THE CONTRACTOR SHALL FURNISH, IF SO REQUIRED, SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND WORKMANSHIP. ALL ITEMS OF EQUIPMENT AND/OR MATERIALS PROPOSED FOR SUBSTITUTION MUST BE APPROVED BY THE OWNER IN WRITING AND SHALL BE EQUAL OR BE SUPERIOR TO THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS. IF SAID SUBSTITUTION PROPOSED BY THE CONTRACTOR FOR A SPECIFIED ITEM REQUIRED ENGINEERING REVISIONS, THE EXPENSE OF SUCH REVISIONS SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

EXISTING FACILITIES
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FACILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE AND TO THE SATISFACTION OF THE OWNER.

EXAMINATION OF THE SITE
THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE OF THE PROPOSED WORK, THE PLANS AND SPECIFICATIONS. THE SUBMISSION OF A BID SHALL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS MADE SUCH EXAMINATION AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED IN PERFORMING THE WORK IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

CONSTRUCTION LIMITS
THE CONTRACTOR SHALL RESTRICT ALL OF HIS ACTIVITIES, EQUIPMENT STORAGE, AND STAGING WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE ACTUAL CONSTRUCTION LIMITS ARE SHOWN ON THE PLANS OR THE EXISTING OR PROPOSED R/W, WHICHEVER IS NEAREST. SHOULD THE CONTRACTOR WISH TO USE ANY AREA OUTSIDE THESE LIMITS, HE MUST SUBMIT HIS REQUEST IN WRITING TO THE OWNER. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA THAT THE CONTRACTOR PLANS TO USE AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. THE OWNER SHALL APPROVE THE REQUEST IN WRITING BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA. PRIOR TO THE BEGINNING OF WORK, THE CONTRACTOR, SUPERINTENDENT OR HIS REPRESENTATIVE, THE OWNER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY SHALL REVIEW AND RECORD ALL ADJACENT SITES WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE OWNER'S AND CONSTRUCTION MANAGER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF THE ADJACENT SITES WILL BE MADE. ANY AREAS DAMAGED BEYOND THE CONSTRUCTION LIMITS AS DEFINED ABOVE WILL BE REPAIRED OR REPLACED, AT THE CONTRACTOR'S EXPENSE, IN KIND OR AS DIRECTED BY THE OWNER.

ELEVATION DATUM
BENCHMARK FROM CLERMONT COUNTY MONUMENTS M151 & 227

PROTECTING EXISTING UNDERGROUND UTILITIES
THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING, MARKING, OR OTHERWISE DESIGNATING THE LOCATIONS OF THE UNDERGROUND UTILITIES IN THE CONSTRUCTION AREAS IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH OF WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF PLANNED CONSTRUCTION. EXTREME CARE SHALL BE TAKEN IN THE VICINITY OF THE EXISTING UTILITIES. IF SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ISOLATE, BRACE, SUPPORT, SHEET, ETC. AND PROTECT THE EXISTING UTILITY FROM MOVING, EITHER HORIZONTALLY OR VERTICALLY. IF SUCH MOVEMENT DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THE UTILITY AT HIS EXPENSE. THE CONTRACTOR MAY ELECT TO REMOVE AND RECONSTRUCT PORTIONS OF THE EXISTING UTILITY AT HIS OWN EXPENSE IF HE SO DESIRES.

PROTECTING EXISTING UNDERGROUND UTILITIES (CONT.)
SHOULD AN UNLOCATED OR AN EXTREME VARIANCE IN LOCATION OF A UTILITY BE ENCOUNTERED DURING EXCAVATION, CONSULT THE OWNER IMMEDIATELY FOR DIRECTION.

DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE OWNER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICING HAS BEEN PROVIDED. COOPERATION WITH THE OWNER IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION IS ESSENTIAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING UTILITY. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL NOTIFY THE OWNER IMMEDIATELY AND REPLACE THE DAMAGED PORTION IMMEDIATELY, AND AT HIS EXPENSE.

COOPERATION WITH UTILITY COMPANIES
WHILE THE WORK OF THIS CONTRACT IS BEING PERFORMED, THE UTILITY COMPANIES MAY BE WORKING IN THE AREA ADJUSTING AND RESETTling EXISTING FACILITIES. THE CONTRACTOR SHALL FULLY COOPERATE WITH UTILITY COMPANIES SO THAT THE ENTIRE WORK IS COMPLETED IN A MANNER CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. THE CONTRACTOR, UTILITY COMPANIES AND OWNER SHALL DISCUSS THE NECESSARY CONSTRUCTION SCHEDULES TO COMPLETE THE PROJECT AT THE PRE-CONSTRUCTION MEETING.

UTILITY COORDINATION:
THE FOLLOWING IS A LIST OF THE KNOWN EXISTING UTILITIES IN THE PROJECT AREA ALONG WITH THE RESPECTIVE OWNERS. THE LIST IS INCLUDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY OWNERS IN THE PROJECT AREA PRIOR TO START OF CONSTRUCTION WHETHER LISTED ON THIS PAGE OR NOT.

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BATAVIA, OH 45103
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ONLY JORGE GALLARDO

ROADWAY & STORM SEWERS
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CINCINNATI, OH 45213
(513) 321-0869

WATER & SANITARY SEWER
CLERMONT COUNTY WATER
RESOURCE DEPARTMENT
4600 HASKELL LANE
BATAVIA, OH 45103
(513)732-8864

RELOCATION OF UTILITIES
ALL UTILITIES WHICH ARE SHOWN OR LOCATED DURING THE COURSE OF CONSTRUCTION THAT ARE FOUND TO BE IN CONFLICT WITH THESE PLANS ARE TO BE RELOCATED OR ADJUSTED BY THE CONTRACTOR AS DIRECTED BY THE RESPECTIVE UTILITY COMPANY...

UNDERGROUND UTILITIES
THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE AS OBTAINED FROM THE OWNERS OF THE UTILITIES AS REQUIRED BY SECTION 153.64 OF THE OHIO REVISED CODE.

THE UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN LOCATED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT MIAMI TOWNSHIP, CLERMONT COUNTY, OHIO OR MCGILL SMITH PUNSHON, INC. DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

UTILITIES NOTIFICATION
AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE PLAN.

THE OWNER OF THE UNDERGROUND FACILITY SHALL, WITHIN 48 HOURS (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS), MARK THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE AND THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

CONSTRUCTION NOISE
ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION -TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 9:00 PM AND 7:00 AM. IN ADDITION, ANY SUCH DEVICE SHALL NOT BE OPERATED AT ANY TIME IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

WEATHER CONDITIONS
NO CONSTRUCTION SHALL BE DONE DURING STORMY, FREEZING, OR INCLEMENT WEATHER UNLESS PERMISSION IS GIVEN BY THE OWNER. WHENEVER WORK PROCEEDS DURING SUCH WEATHER, THE CONTRACTOR SHALL PROVIDE APPROPRIATE FACILITIES, INCLUDING HEAT (IF REQUIRED), FOR THE PROTECTION OF ALL MATERIALS AND FINISHED WORK.

RESTORATION
THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF THE FOLLOWING: EXISTING STREETS, DRIVEWAYS, SIDEWALKS, CURBS, GUTTERS, RE-SEEDING/RE-SODDING, REMOVAL OF TREES, RESTORATION OF AGRICULTURAL LAND, THE MAINTENANCE OF THE CONSTRUCTION AREA DURING PROGRESS OF THE WORK AND THE COMPLETE RESTORATION OF THE CONSTRUCTION AREA AFTER THE BACKFILLING IS COMPLETED, AND HE SHALL PROCEED TO RESTORE TO ITS ORIGINAL CONDITION THE STREETS, DRIVEWAYS, SIDEWALKS, CURBS, GUTTERS, STRUCTURES, AND ALL AREAS THAT WERE DAMAGED, DISTURBED, OR OCCUPIED BY THE CONTRACTOR IN CONNECTION WITH ANY PHASE OF THE WORK.

PAVEMENTS, TREES, SHRUBS, FENCES, POLES, OR OTHER PROPERTY AND SURFACE STRUCTURES WHICH HAVE BEEN DAMAGED, REMOVED, OR DISTURBED BY THE CONTRACTOR, WHETHER DELIBERATELY OR THROUGH FAILURE TO CARRY OUT THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, STATE LAWS, MUNICIPAL ORDINANCES, THE SPECIFIC DIRECTION OF THE OWNER, OR THROUGH FAILURE TO EMPLOY USUAL AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

ALL TEMPORARY SIGNS, SPRINKLER SYSTEMS, LANDSCAPING, ORNAMENTAL FENCING, ETC., LOCATED WITHIN THE PROJECT LIMITS MUST BE REPLACED UPON COMPLETION OF THE CONSTRUCTION.

ESTIMATED QUANTITIES
THE ESTIMATED QUANTITIES UPON WHICH THIS PROPOSAL IS BASED ARE APPROXIMATE ONLY. THEY SHALL BE USED TO DETERMINE THE LOWEST AND BEST BIDDER. DURING THE TERM OF THE CONTRACT, AND AT THE OPTION OF THE ENGINEER, THEY MAY BE INCREASED, DECREASED, OR NON-PERFORMED AS CONDITIONS DICTATE AND/OR WHEN THE NEED FOR ANY ITEM CANNOT BE DETERMINED UNTIL THE COMPLETION OF OTHER CONTRACTUAL ITEMS AND/OR THE PROPER INSPECTIONS HAVE BEEN MADE. THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY CLAIM ON LOSS OF PROFITS OR OTHER DAMAGES SHOULD THE ACTUAL QUANTITIES OF ANY OR ALL ITEMS BE GREATER THAN OR LESS THAN THE STATED ESTIMATED QUANTITIES.

CONNECTIONS TO EXISTING PIPE
WHERE THE PLANS PROVIDE FOR THE PROPOSED CONDUIT TO BE CONNECTED TO OR TO CROSS OVER/UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO CONSTRUCT THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT OR EXISTING APPURTENANCE TO BE CONNECTED DIFFERS FROM THE PLAN ELEVATION, OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE OWNER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE OWNER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAVEMENT REMOVED
WHERE PLANS REQUIRE PAVEMENT REMOVED, SAWING OF PAVEMENT PRIOR TO PAVEMENT REMOVAL IS INCIDENTAL TO ITEM 202. PAVEMENT REMOVED. SAW CUTS ARE TO BE MADE USING A DIAMOND EDGE BLADE. IF FULL DEPTH PAVEMENT IS NOT ENCOUNTERED, IT IS THE INTENT TO REPLACE WITH FULL DEPTH TO THE EXISTING EDGE OF FULL DEPTH PAVEMENT.

TACK COAT
THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE OWNER.

CLEARING AND GRUBBING
CLEARING LIMITS HAVE BEEN INDICATED ON THE PLANS. ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISION AS SET FORTH IN THE SPECIFICATION UNDER THIS TIME SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

SEEDING AND MULCHING
SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

EXCAVATION AND EMBANKMENT
THIS WORK SHALL CONSIST OF THE PREPARATION OF AREAS UPON WHICH EMBANKMENTS ARE TO BE PLACED; EXCAVATION FOR THE ROADWAY AND CHANVEL, INCLUDING THE REMOVAL OF ALL MATERIAL ENCOUNTERED NOT BEING REMOVED UNDER SOME OTHER ITEM; CONSTRUCTION EMBANKMENTS WITH THE EXCAVATED MATERIAL AND MATERIAL FROM OTHER SOURCES NECESSARY TO COMPLETE PLANNED EMBANKMENTS; FURNISHING AND INCORPORATING ALL WATER REQUIRED FOR COMPACTING EMBANKMENT AND SUBGRADE; DISPOSING OF UNSUITABLE AND SUPPLIES MATERIAL; PREPARING THE SUBGRADE, TESTING THE STABILITY AND UNIFORMITY OF COMPACTION OF THE SUBGRADE FOR AREAS SPECIFICALLY CALLED FOR ON THE PLANS; FINISHING SHOULDERS, SLOPES AND DITCHES, ALL IN ACCORDANCE WITH ITEM 203 AND IN REASONABLY CLOSE CONFORMITY WITH THE LINES, GRADES, THICKNESS AND CROSS SECTIONS SHOWN IN THE PLANS.

ON-SITE BORROW MATERIAL WILL NOT BE PAID FOR AS A SEPARATE ITEM. ON-SITE BORROW USED IN EMBANKMENT CONSTRUCTION SHALL BE PLACED IN ACCORDANCE WITH ALL THE REQUIREMENTS OF ITEM 203.

THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS TO OBTAIN OFFSITE BORROW MATERIAL, AND PAY ALL COSTS INVOLVED. OFFSITE BORROW MATERIAL USED TO CONSTRUCT THE ROADWAY EMBANKMENT SHALL BE OBTAINED FROM OFFSITE AREAS AS APPROVED BY THE OWNER AND HIS GEOTECHNICAL ENGINEER. OFFSITE BORROW MATERIAL SHALL BE PER ODOT ITEM 203. CLEAN, COHESIVE CLAY SOIL FREE OF ORGANIC MATERIALS, ROOTS, AND CORBLES. THE OFFSITE CLAY SOIL PROPOSED FOR USE IN THE ROADWAY EMBANKMENT SHALL BE LABORATORY TESTED TO DETERMINE SUITABILITY AND COMPACTION CHARACTERISTICS.

ITEM 204 - PROOF ROLLING
AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY AS DIRECTED BY THE ENGINEER.

ITEM 204 - SUBGRADE REPAIR
IF UNSUITABLE SOILS ARE ENCOUNTERED IN THE PROPOSED ROAD BED AREA THEY SHALL BE REMOVED & REPLACED WITH SUITABLE MATERIAL MEETING THE REQUIREMENTS OF 203.02, PARAGRAPH (R). THE LOCATIONS AND DIMENSIONS WILL BE DETERMINED BY THE GEOTECHNICAL ENGINEER UNDER CONTRACT WITH THE OWNER.

THE CONTINGENCY QUANTITIES HAVE BEEN INCLUDED TO BE USED AS DIRECTED BY THE OWNER.

MAINTENANCE OF SEWER FLOWS
THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN SEWER FLOWS AT ALL TIMES THROUGH EXISTING FACILITIES WHICH ARE TO REMAIN IN PLACE AND THROUGH EXISTING FACILITIES TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED AND PLACED IN USE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED.

ALL EXISTING SEWERS SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL
THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS WITHIN THE CONSTRUCTION LIMITS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON RECEIVING WATERS. IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE UPSLOPE DISTURBED AREAS ARE STABILIZED.

ANY SILT FENCING, STRAW BALES, ETC. FOR EROSION CONTROL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AFTER THE OWNER DEEMS SUFFICIENT GROWTH PREVENTS EROSION.

INSTALLATION OF SEDIMENT BASINS/DAMS, PERIMETER FILTER FABRIC FENCE, AND DITCH CHECKS SHALL BE PERFORMED BY THE CONTRACTOR. ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND.

AREAS TO REMAIN DORMANT FOR MORE THAN 21 DAYS SHOULD BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING. EROSION CONTROL MATTING OR OTHER APPROPRIATE EROSION CONTROL MEASURES.

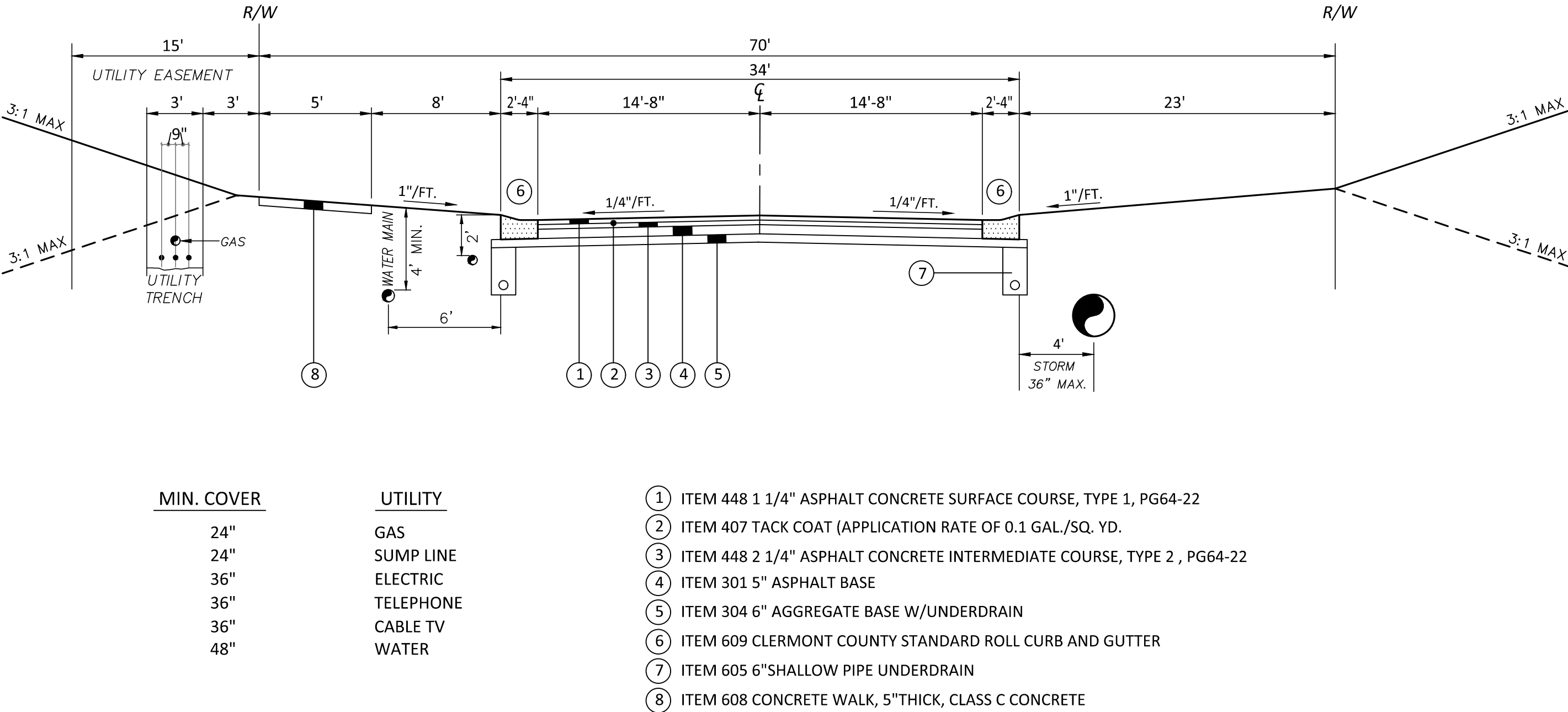
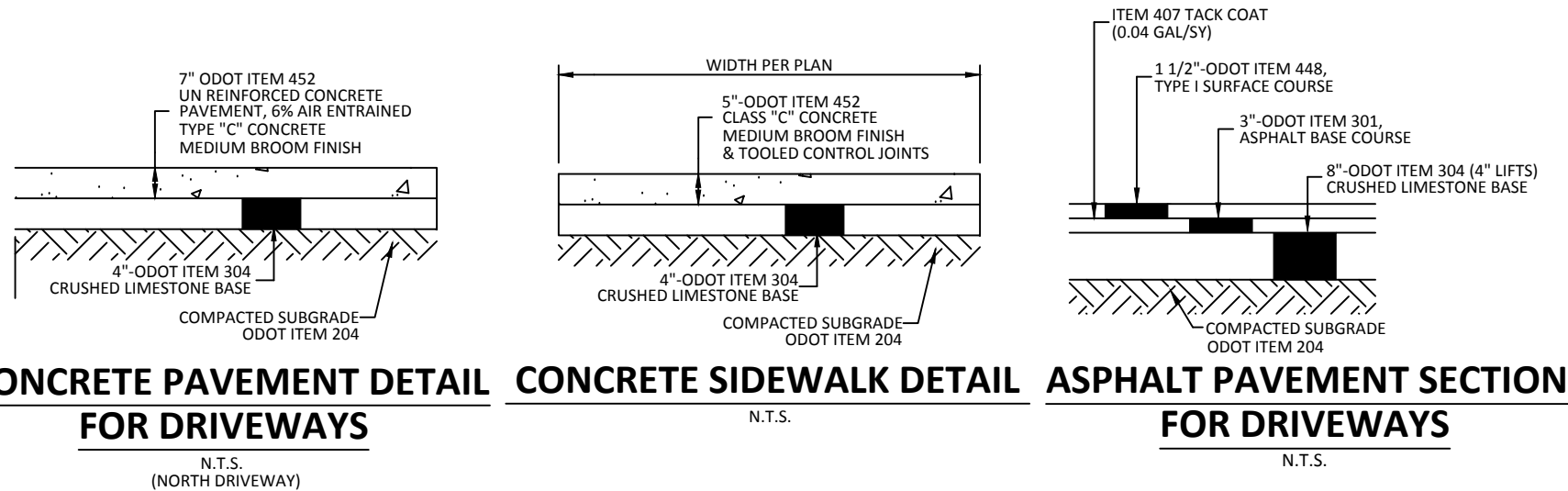
THE CONTRACTOR SHALL PERFORM THE NECESSARY PRECAUTIONS TO AVOID EXCESSIVE SOIL EROSION AND THE RUNOFF OF SEDIMENT INSIDE AND DOWNSTREAM OF THE PROJECT TO THE SATISFACTION OF THE OWNER. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, ERECTION OF SALT FENCE (SF) ALONG THE PERIMETER OF THE CONSTRUCTION LIMITS AND PLACEMENT OF STRAW BALE BARRIERS (SBB) AND/OR FILTER BARRIERS (FB) AS DITCH CHECKS. DITCH CHECKS SHALL BE PLACED AT A MAXIMUM SPACING OF 50 FEET ALONG ALL PROPOSED DITCHES.

REVIEW OF DRAINAGE FACILITIES
BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE OWNER.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

ALL EXISTING SEWERS TO REMAIN AND INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

PAVEMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.



LORVEN DRIVE TYPICAL SECTION

N.T.S.



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Project Manager JMR
Drawn By DCA
DWG 18441004-ROAD-EXT
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LORVEN DRIVE - PHASE 2A PUBLIC ROADWAY IMPROVEMENTS

JONES MILITARY SURVEY No. 991
MIAMI TOWNSHIP
CLERMONT COUNTY, OHIO



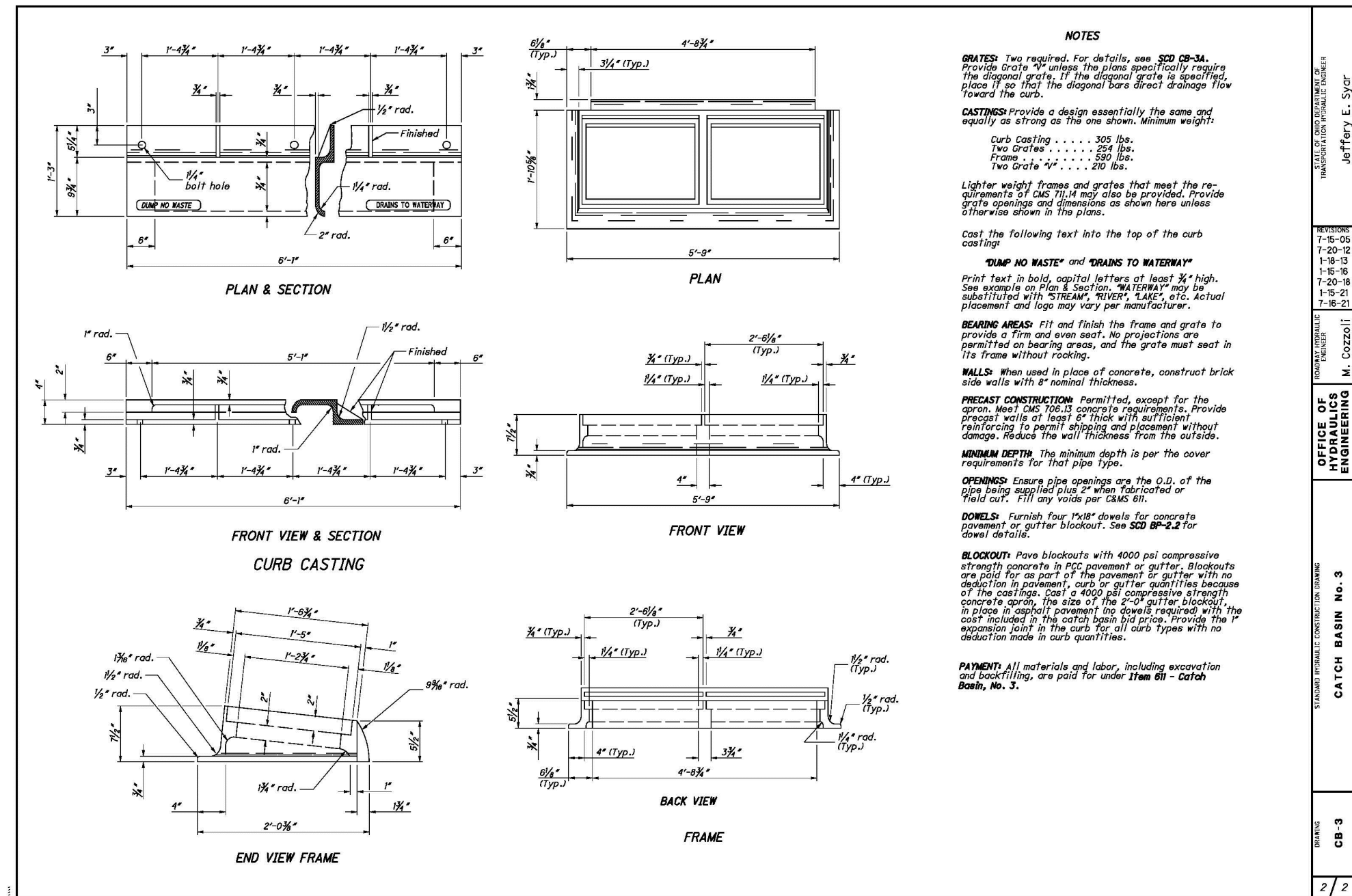
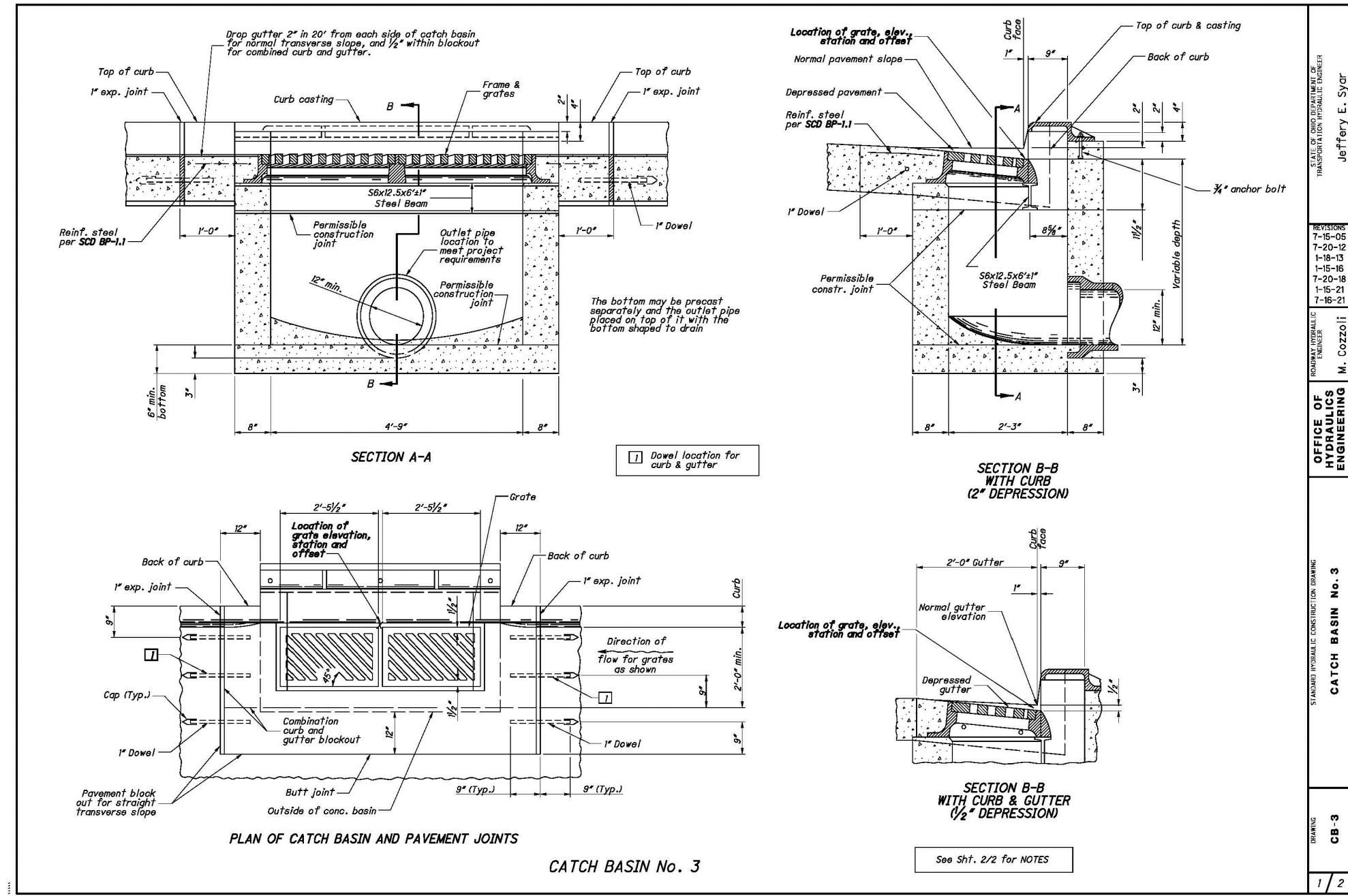
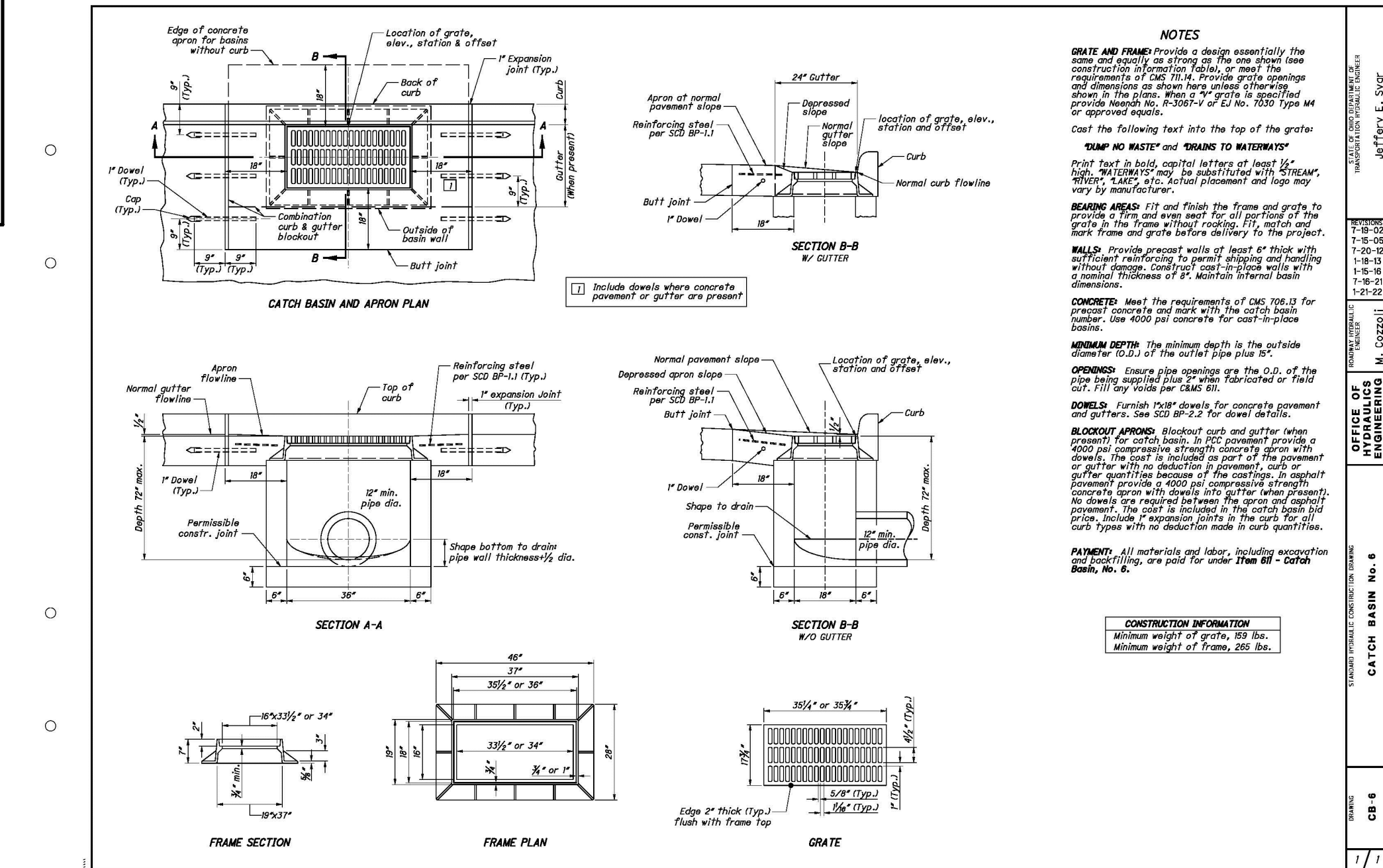
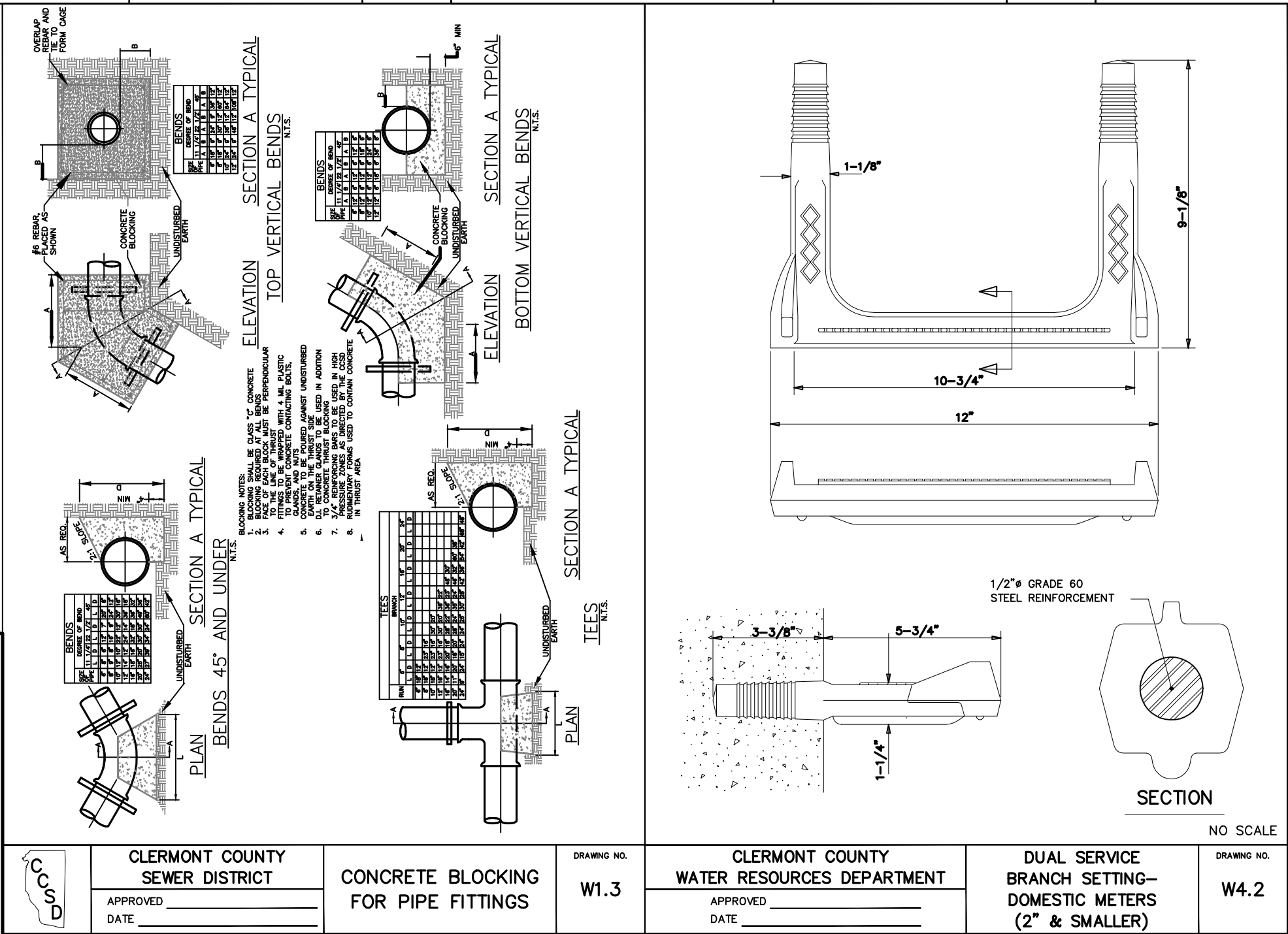
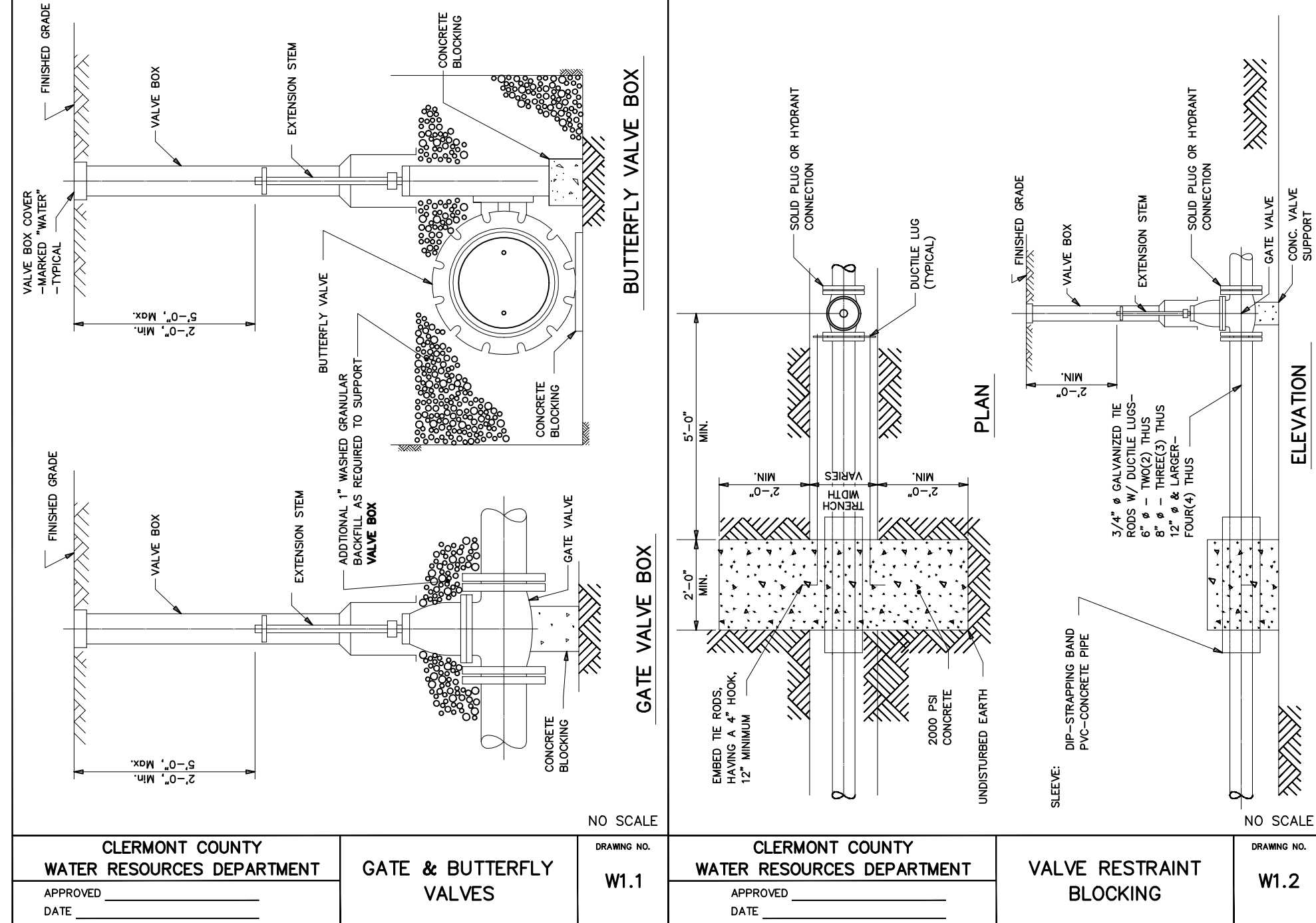
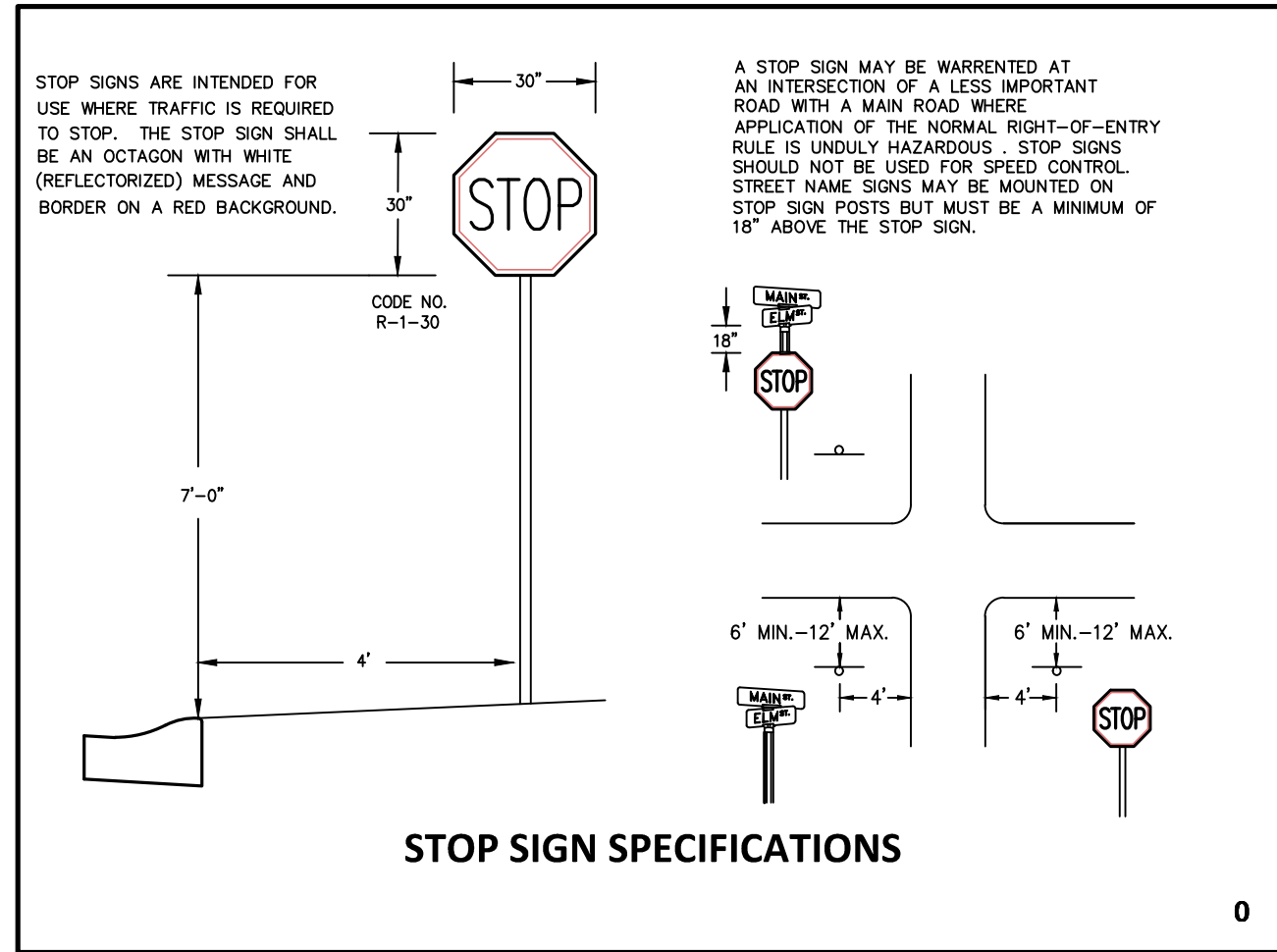
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GENERAL NOTES & TYPICAL SECTIONS

Project Number 18441.03
Drawing Scale AS NOTED
Sheet Number 2/14
File Number 18441

Sheet Title

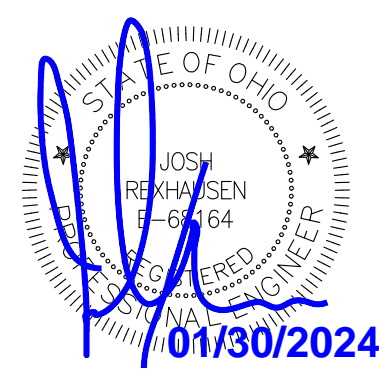
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Project Manager JMR
Drawn By DCA
DWG 18441004-ROAD-EXT
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| Issue/Revision | No. | Date |
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| ISSUE | | 04/07/23 |
| CLERMONT CO. REV | | 11/27/23 |
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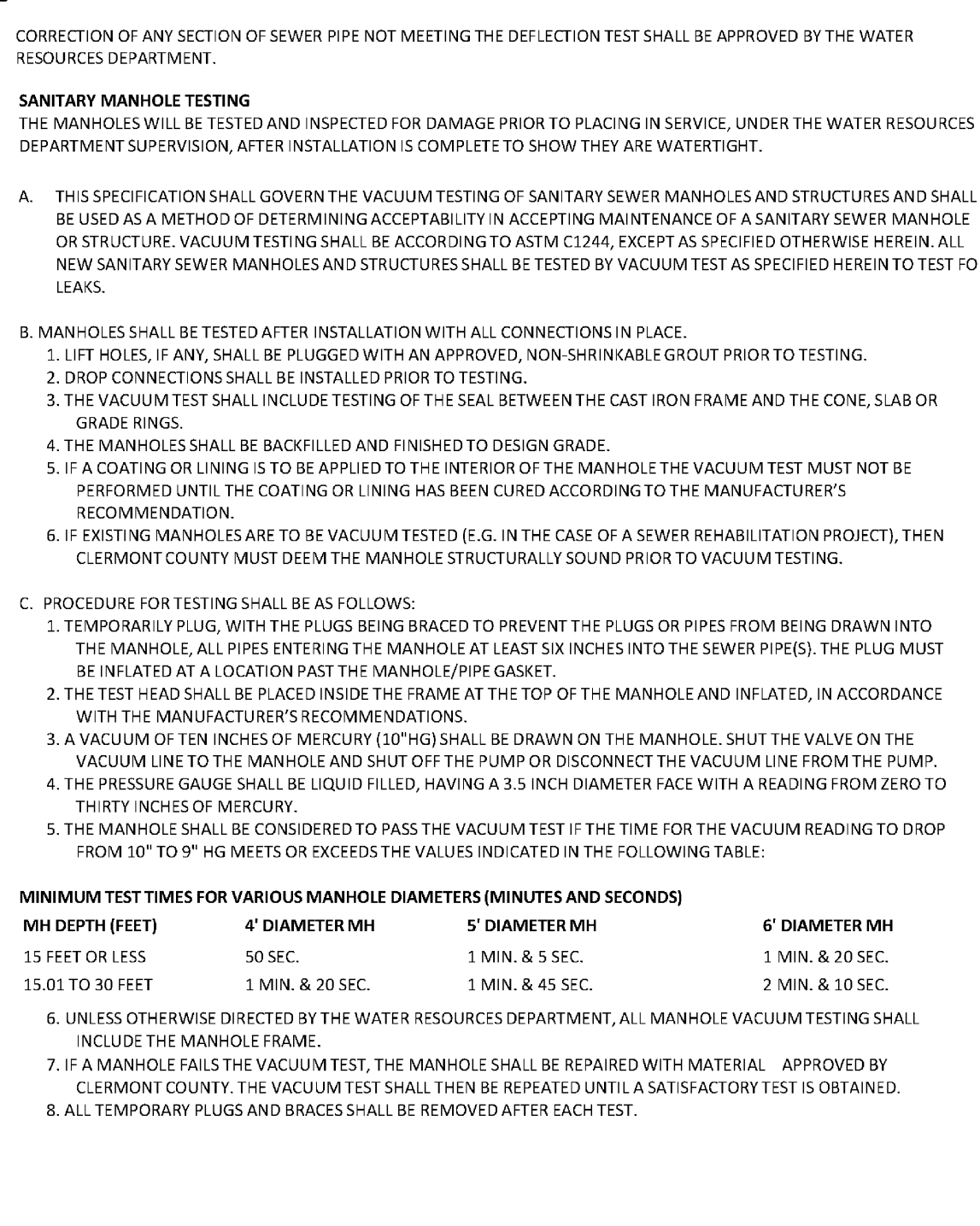
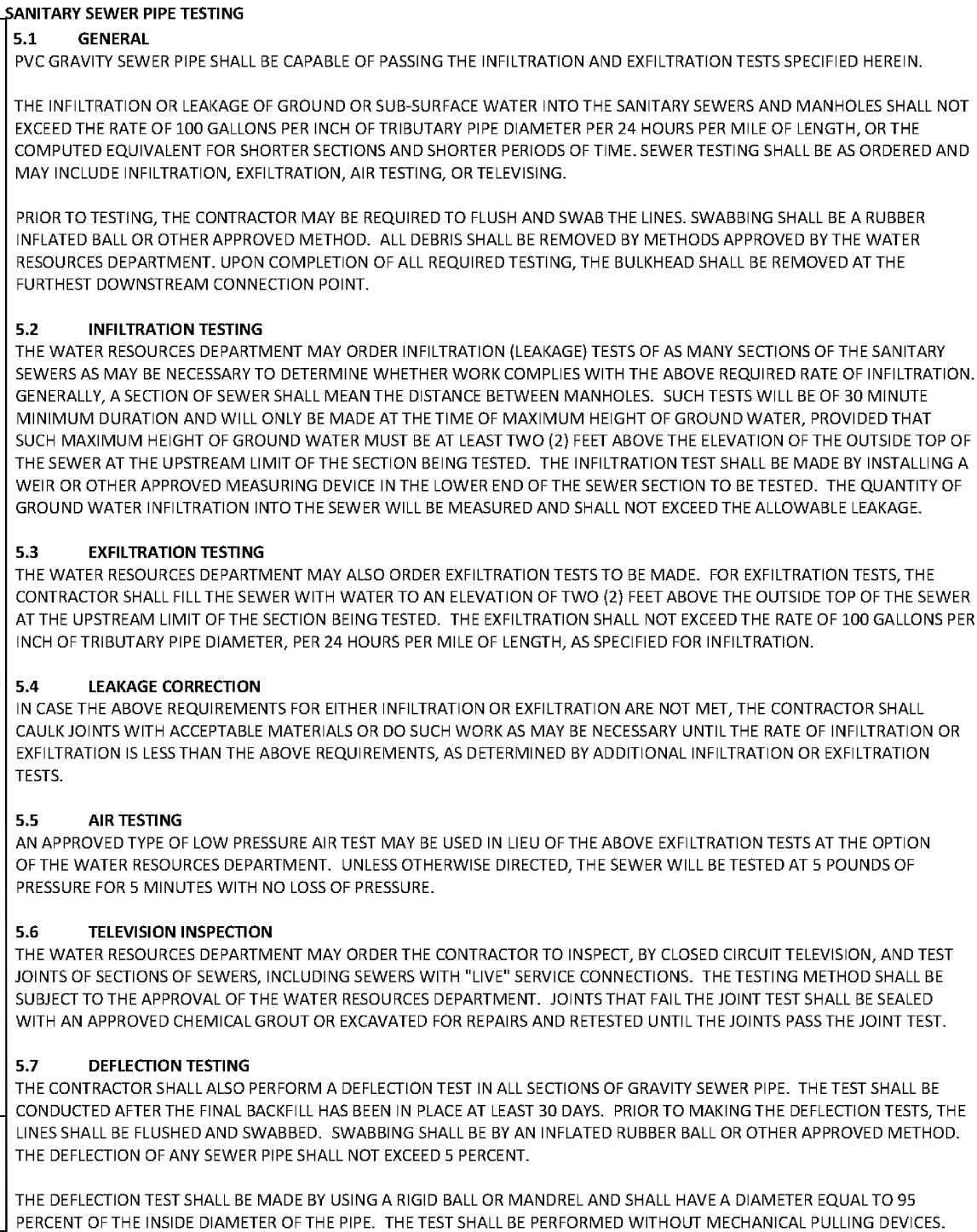
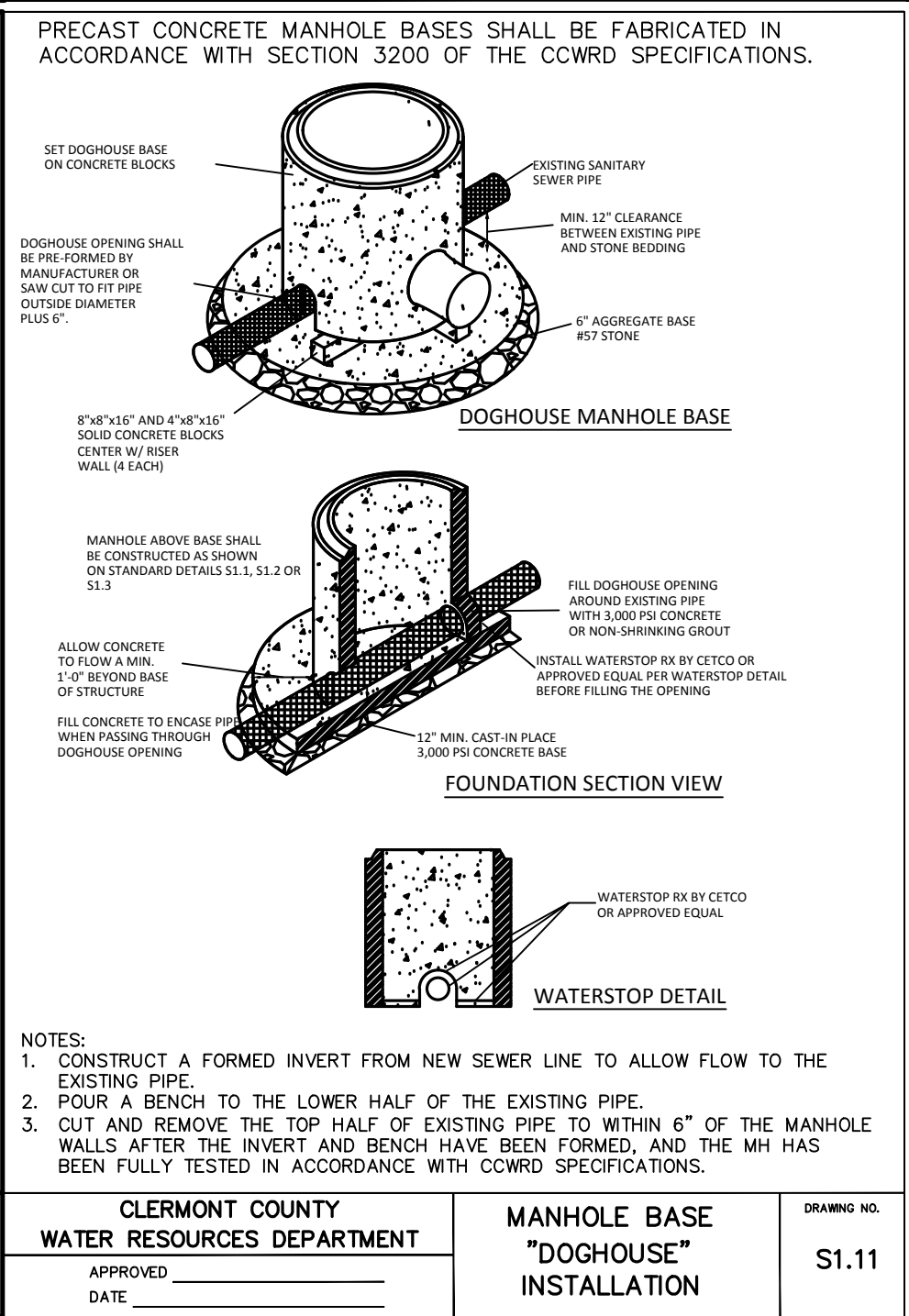
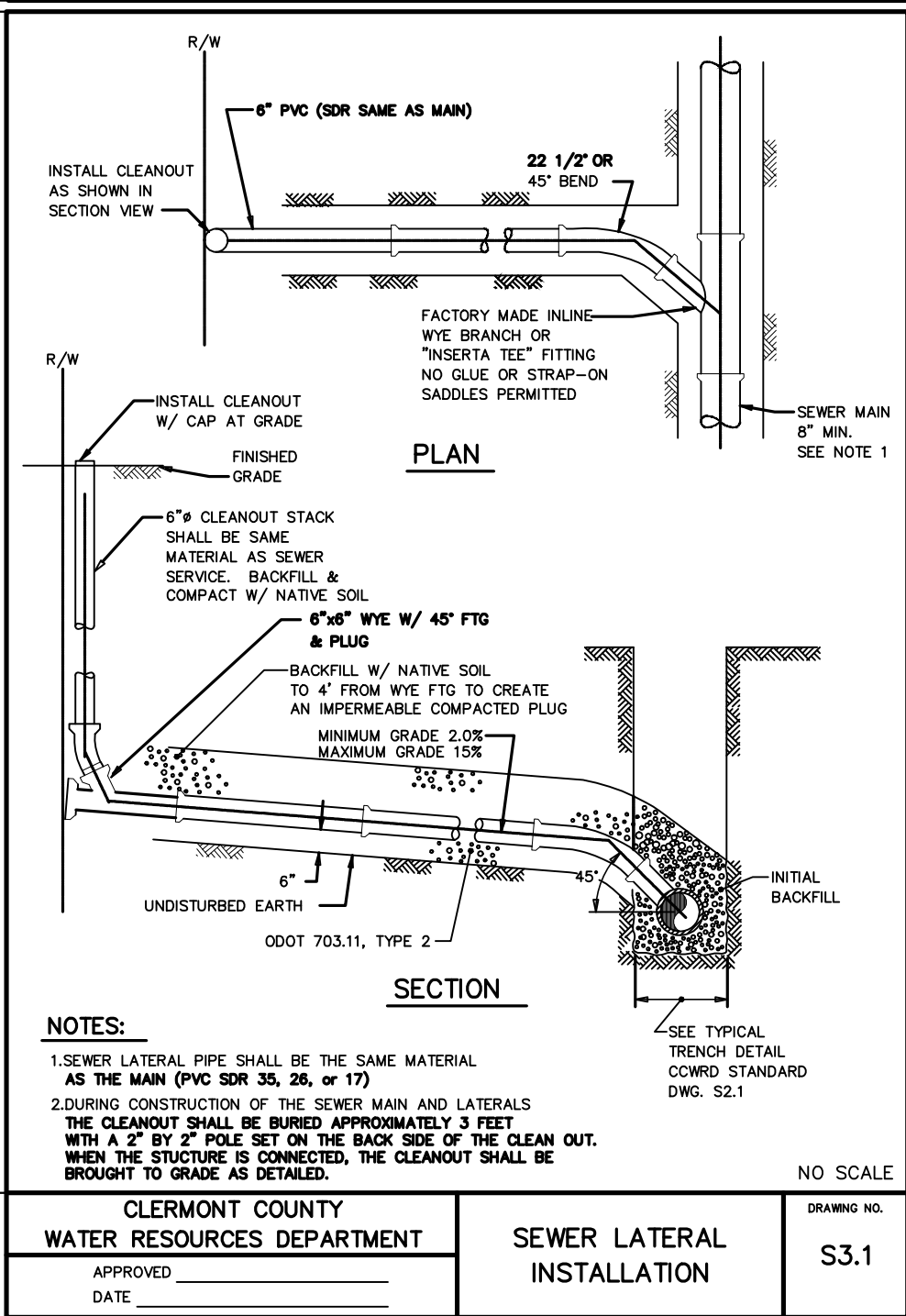
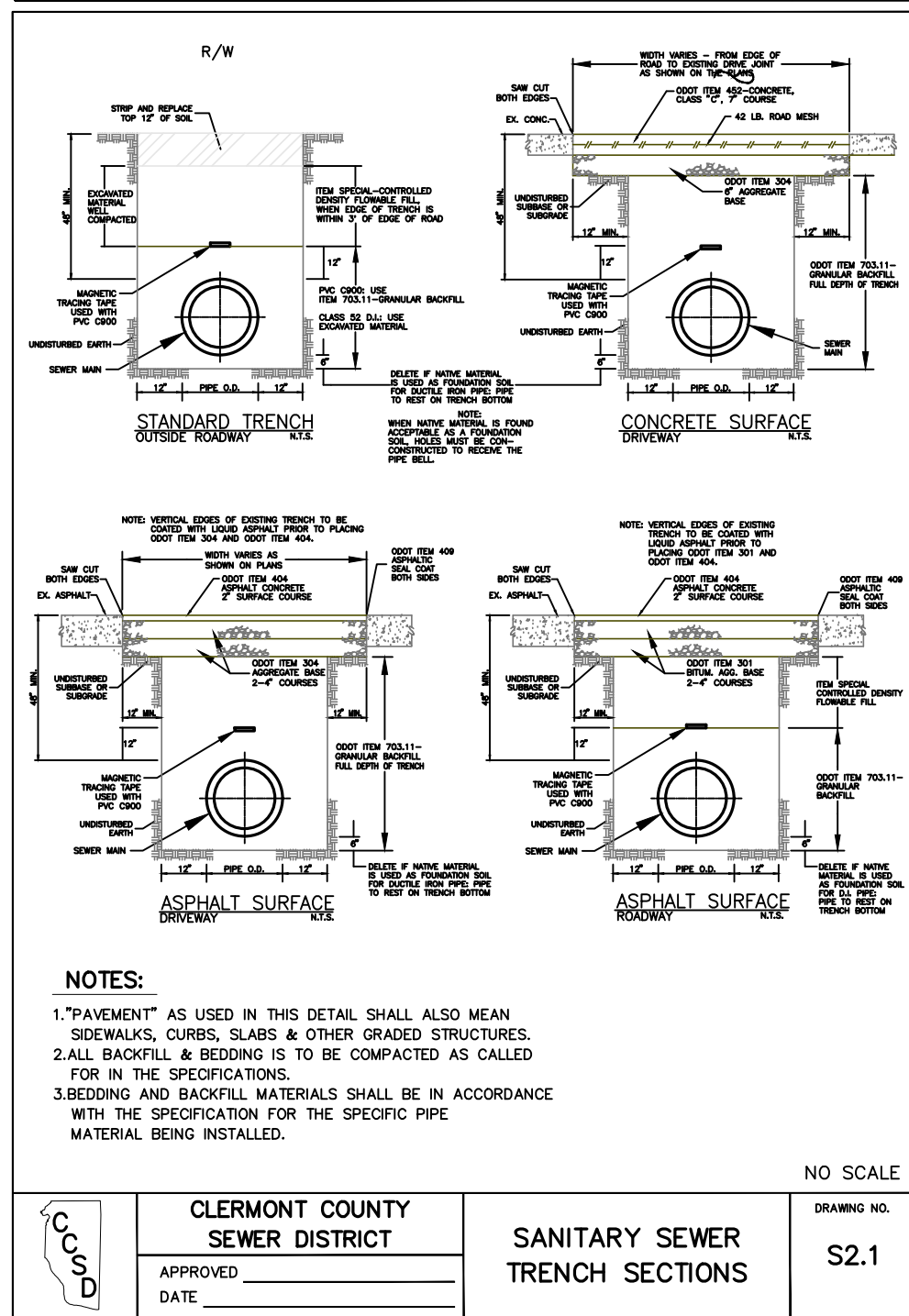
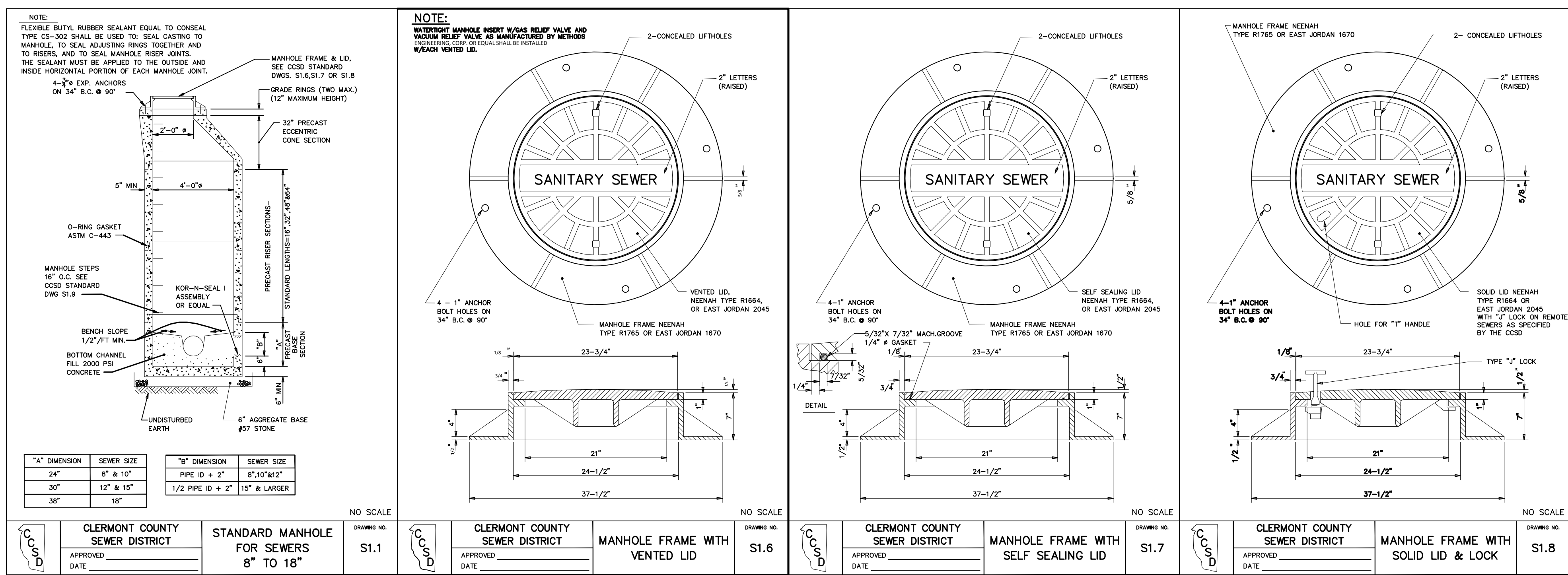
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LORVEN DRIVE - PHASE 2A
PUBLIC ROADWAY IMPROVEMENTS

JONES MILITARY SURVEY No. 991
MIAMI TOWNSHIP
CLERMONT COUNTY, OHIO

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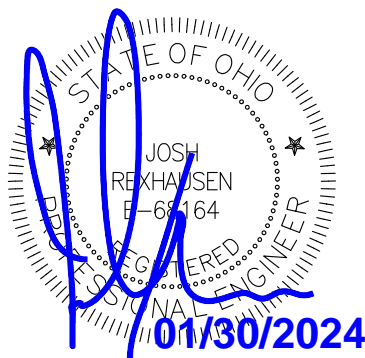
MSP
DESIGN
McGill Smith Punshon

Architecture 3700 Park 42 Drive
Engineering Suite 190B
Landscape Architecture Cincinnati OH 45241
Planning Phone 513.759.0004
Surveying www.mspsdesign.com

Project Manager JMR
Drawn By DCA
DWG 18441004-ROAD-EXT
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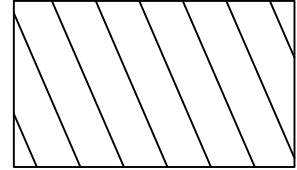
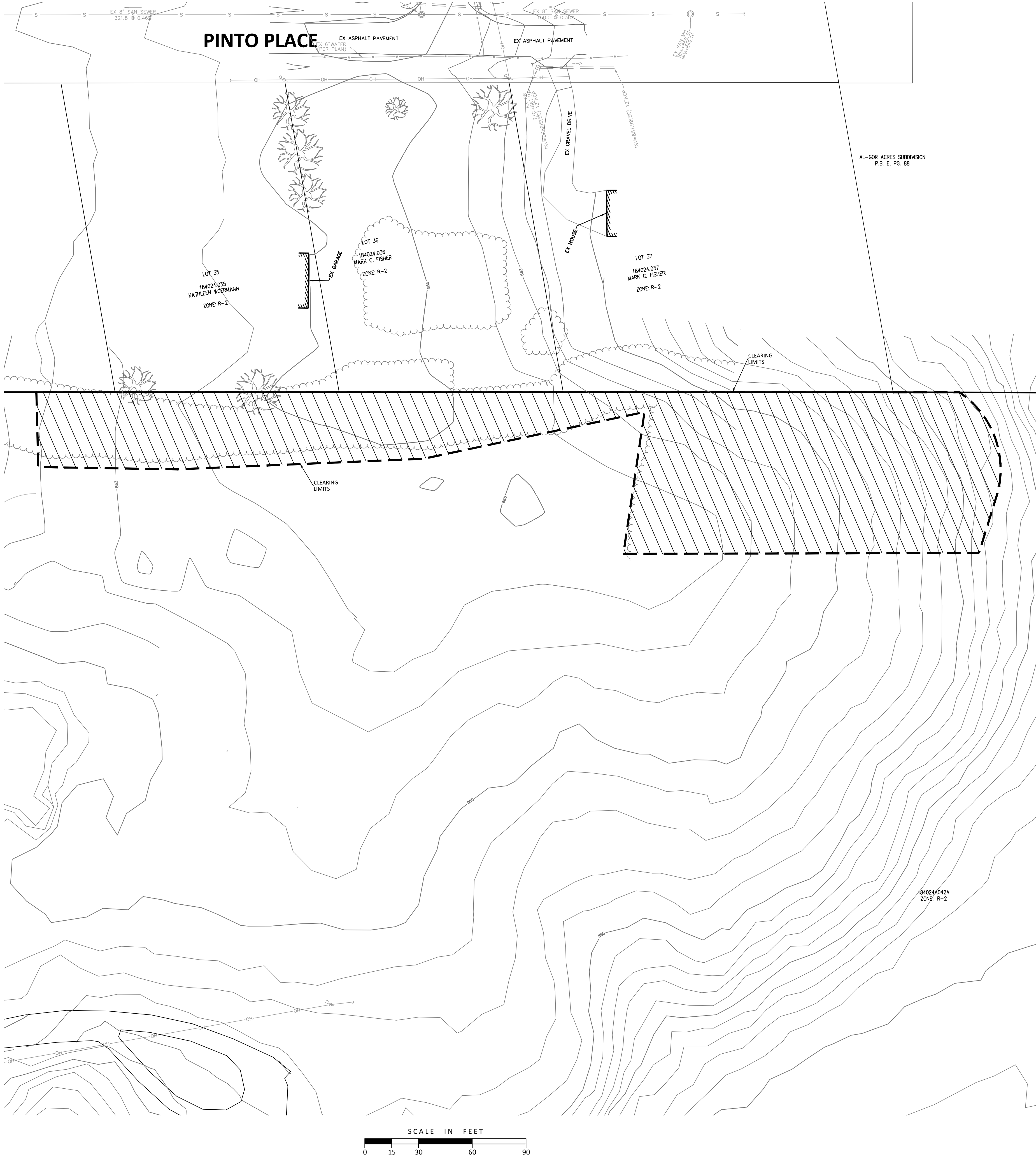
JONES MILITARY SURVEY No. 991
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| SANITARY SEWER NOTES & DETAILS | |
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| Project Number | 18441.03 |
| Drawing Scale | AS NOTED |
| Sheet Number | 5/14 |
| File Number | 18441 |

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AREA TO BE CLEARED & GRUBBED
0.88 AC.

DEMOLITION PLAN NOTES

- ALL WORK SHALL COMPLY WITH LOCAL AND STATE CODES AND STANDARDS OF CONSTRUCTION.
- ALL DEMOLITION PERMITS SHALL BE OBTAINED PRIOR TO THE START OF DEMOLITION.
- THE CONTRACTOR IS TO COORDINATE ALL EX. UTILITIES TO BE REMOVED & ABANDON WITH THE APPROPRIATE UTILITY COMPANY.
- THE UNDERGROUND UTILITIES SHOWN ARE BASED ON A COMBINATION OF SURFACE EVIDENCE AND AVAILABLE PLANS AND RECORDS; THEY HAVE NOT BEEN PHYSICALLY LOCATED. THERE ARE NO GUARANTEES THAT THE UNDERGROUND UTILITIES AS SHOWN COMPRISE ALL SUCH UTILITIES WITHIN THE CONSTRUCTION AREA, EITHER IN SERVICE OR ABANDONED. NOR IS IT GUARANTEED THAT THEY ARE IN THE EXACT LOCATION AS INDICATED. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
- ALL DEBRIS IS TO BE REMOVED AND HAULED OFFSITE.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL WORK TO REMAIN, ANY DAMAGE TO EXISTING SHALL BE REPLACED TO LIKE NEW CONDITION.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL OTHER MISCELLANEOUS ITEMS AS REQUIRED TO PERFORM THE WORK. ANY ITEMS NOT SPECIFICALLY EXCLUDED FROM DEMOLITION SCOPE OF WORK WITHIN THE GENERAL LIMITS OF WORK SHALL BE REMOVED AT CONTRACTORS EXPENSE.
- CLEARING CONTRACTOR IS TO LEAVE SITE CLEAR OF ROOTS & DEBRIS AND READY FOR EARTHWORK CONSTRUCTION. ANY BACK CHARGES FOR ROOT CLEAN UP OR REMOVAL OR DEBRIS WILL BE THE RESPONSIBILITY OF THE CLEARING CONTRACTOR.

MSP

DESIGN

McGill Smith Punshon

Architecture

Engineering

Landscape Architecture

Planning

Surveying

3700 Park 42 Drive

Suite 190B

Cincinnati OH 45241

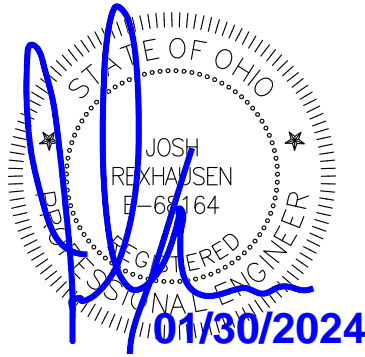
Phone 513.759.0004

www.mspsdesign.com

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DWG 18441004-ROAD-EXT
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LORVEN DRIVE - PHASE 2A
PUBLIC ROADWAY IMPROVEMENTS

JONES MILITARY SURVEY No. 991
MIAMI TOWNSHIP
CLERMONT COUNTY, OHIO

Sheet Title

CLEARING &
DEMOLITION PLAN

Project Number 18441.03
Drawing Scale AS NOTED
Sheet Number 6/14
File Number 18441

OHIO

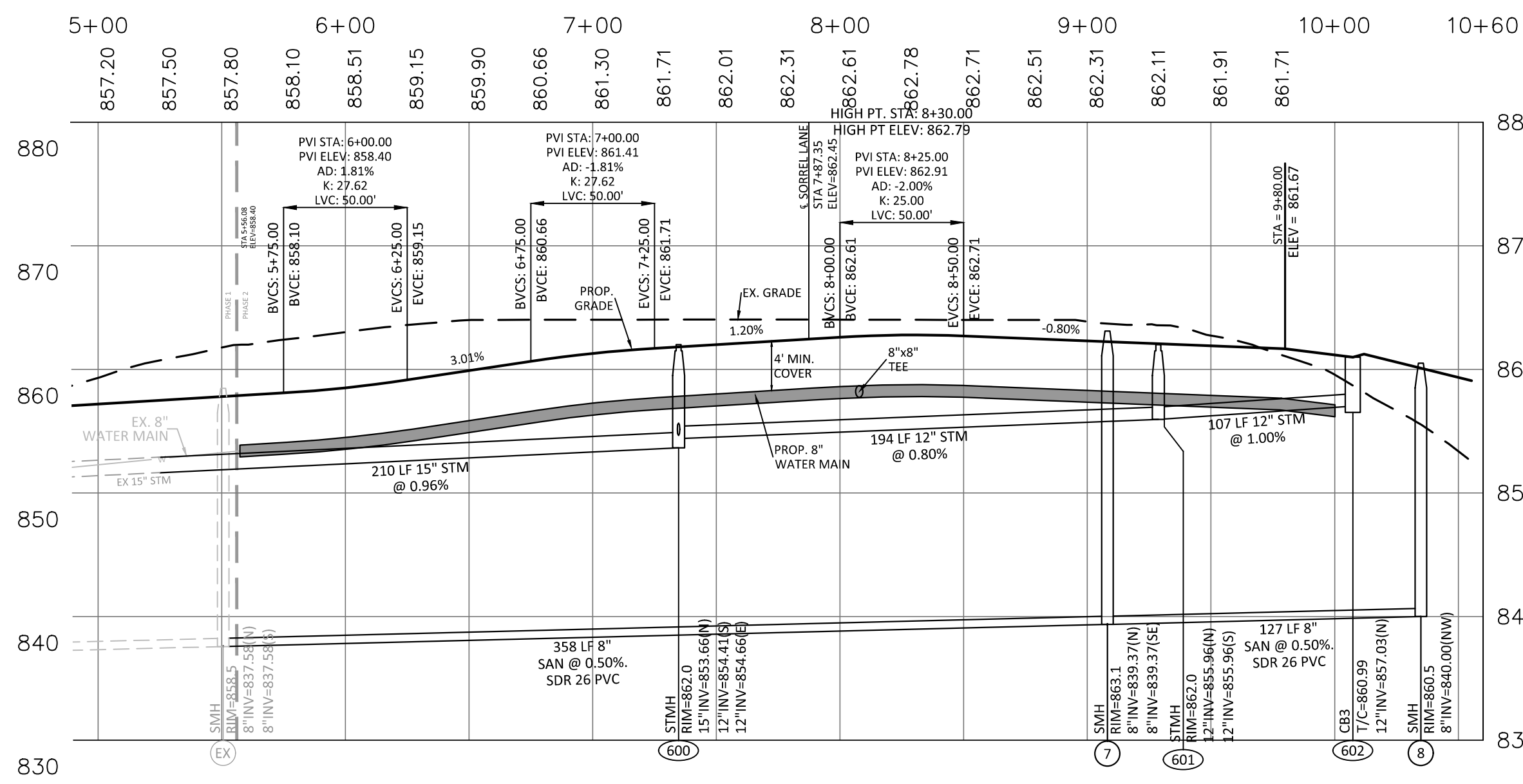
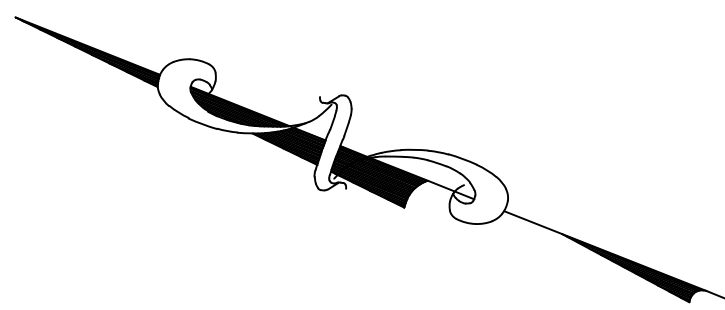
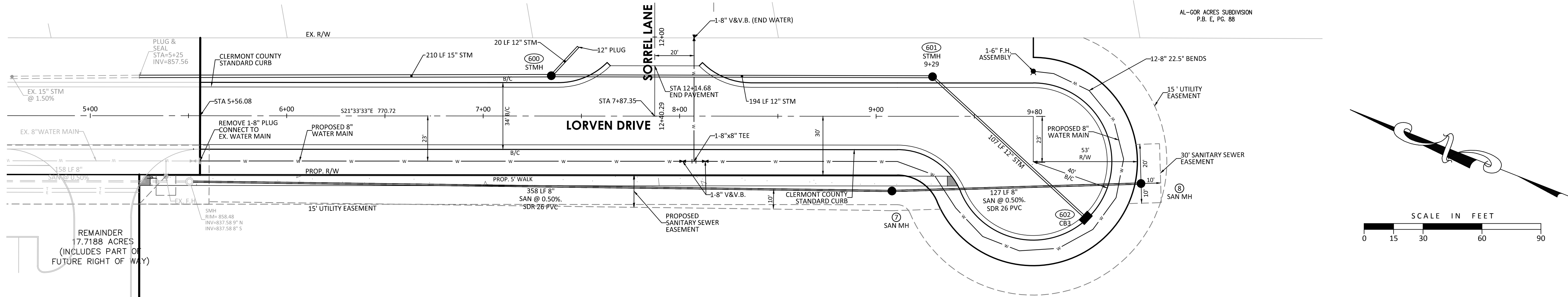
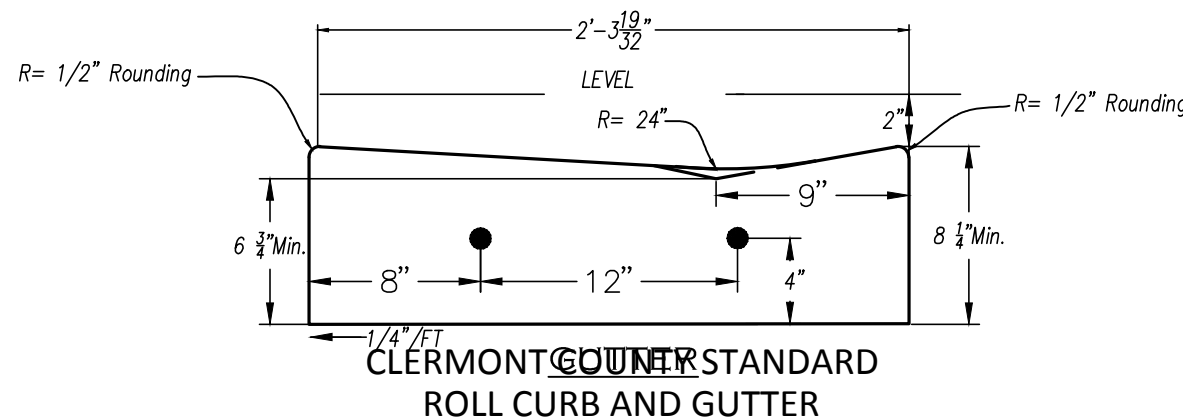
Utilities Protection

SERVICE

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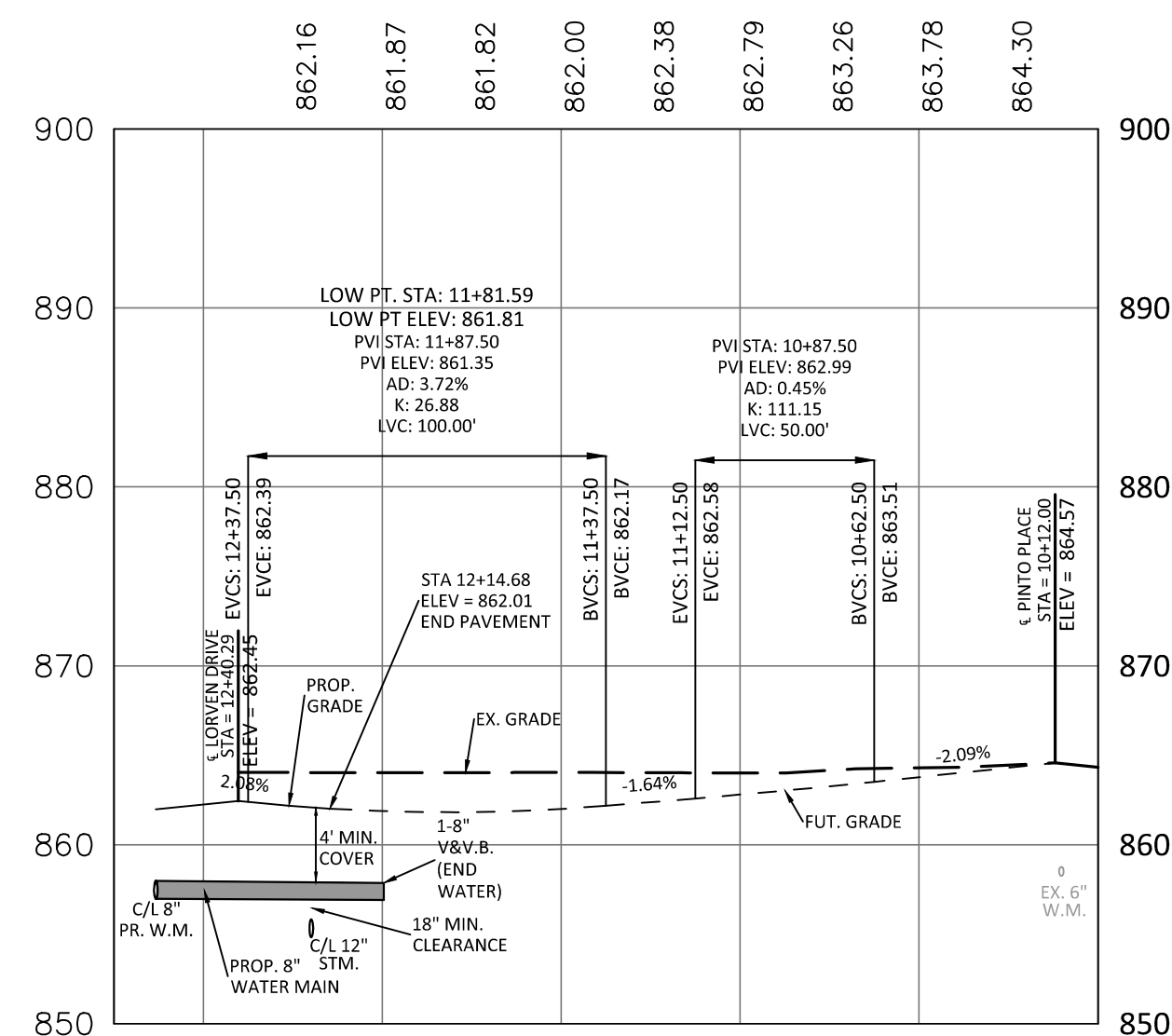
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PROPOSED LORVEN DRIVE

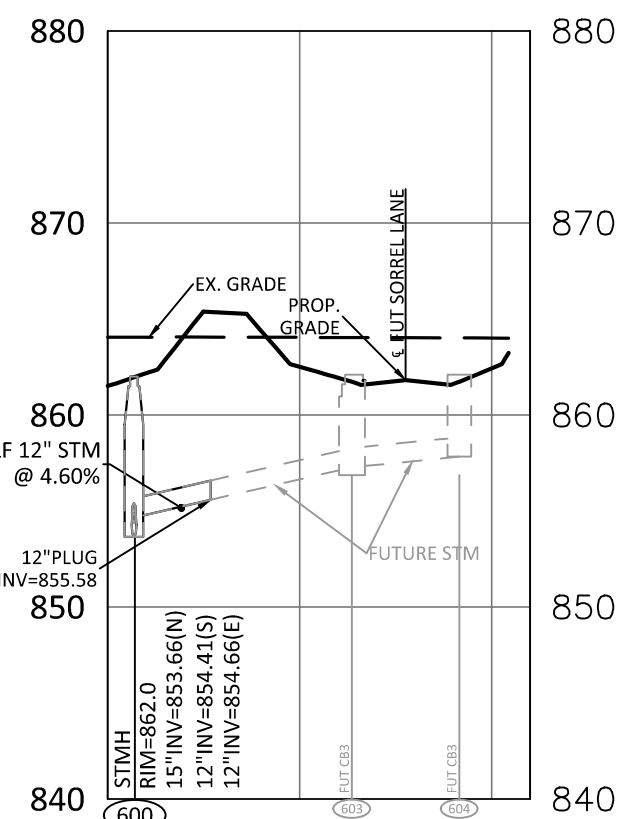
1"=50' HOR. / 1"=10' VERT.

T/C DENOTES TOP OF CURB



SORREL DRIVE

1"=50' HOR. / 1"=10' VERT.



STORM SEWER 600-604

1"=50' HOR. / 1"=10' VERT.

UTILITY PLAN NOTES

LOCATION OF EXISTING UTILITIES SHOWN HEREON IS APPROXIMATE AND IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. OTHER UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THIS PLAN. THE OWNER AND ENGINEER ASSUMES NO LIABILITY FOR THE LOCATION OF ANY AND ALL UTILITIES WITHIN THE LIMITS OF WORK. ANY DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STREETS AND STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE INFRASTRUCTURE DESIGN AND CONSTRUCTION STANDARDS FOR CLERMONT COUNTY, OHIO.

UNLESS OTHERWISE NOTED, MATERIALS AND SPECIFICATIONS SHALL CONFORM TO THE CONSTRUCTION AND MATERIALS SPECIFICATIONS OF ODOT.

BACKFILL FOR UNDERGROUND UTILITIES AT ROAD CROSSINGS, PARKING AREAS AND WITHIN FIVE (5) FEET OF SIDEWALK OR EDGE OF PAVEMENT TO BE GRANULAR MATERIAL OR CONTROLLED FILL. ALL OTHER BACKFILL FOR UNDERGROUND UTILITIES TO BE EXCAVATED MATERIAL. WATER MAIN REQUIRES GRANULAR BACKFILL AROUND AND 12" OVER TOP OF PIPE AND 6" BELOW THE INVERT OF THE PIPE.

ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE OR THERMOPLASTIC PIPE, UNLESS OTHERWISE NOTED, AND ACCEPTABLE TO THE CLERMONT COUNTY ENGINEER

WATER MAIN MATERIAL TO BE C900 DR14 UNLESS APPROVED BY CLERMONT COUNTY WATER RESOURCES DEPARTMENT

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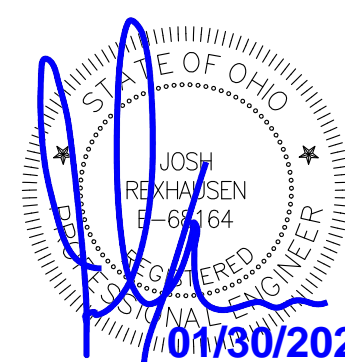
MSP
DESIGN
McGill Smith Punshon

■ Architecture 3700 Park 42 Drive
■ Engineering Suite 190B
■ Landscape Architecture Cincinnati OH 45241
■ Planning Phone 513.759.0004
■ Surveying www.mspsdesign.com

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LORVEN DRIVE - PHASE 2A PUBLIC ROADWAY IMPROVEMENTS

JONES MILITARY SURVEY No. 991
MIAMI TOWNSHIP
CLERMONT COUNTY, OHIO

Sheet Title

IMPROVEMENT PLAN & PROFILES

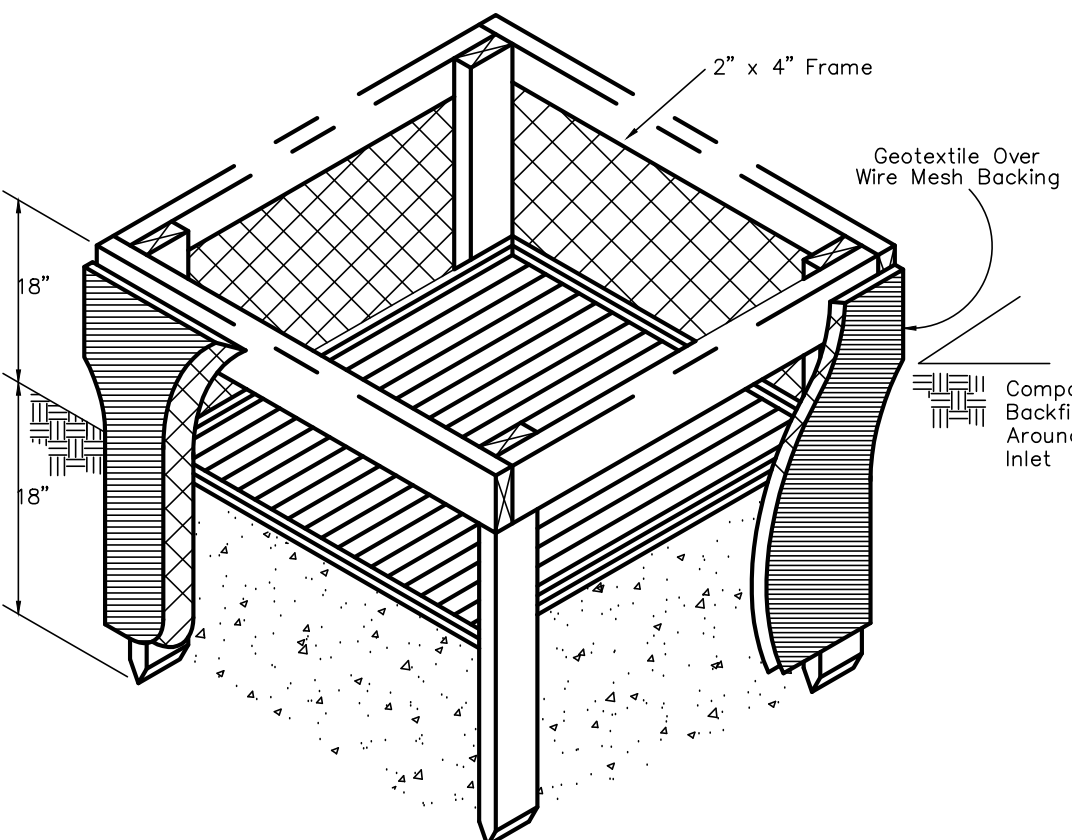
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Drawing Scale AS NOTED
Sheet Number 7/14
File Number 18441



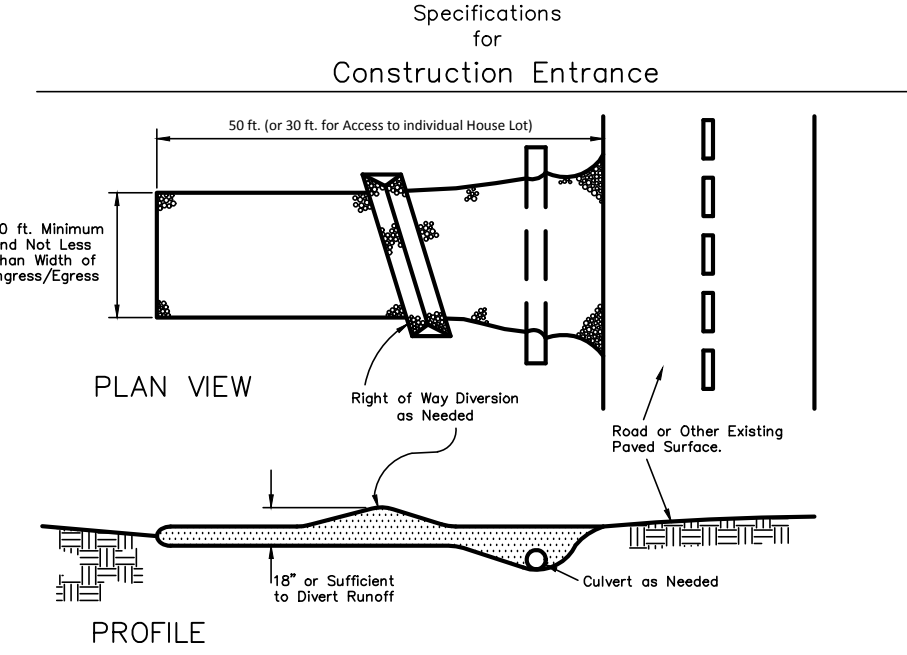
EROSION AND SEDIMENT CONTROL MAINTENANCE NOTES

- EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE MAINTAINED AS FOLLOWS:
 - INSPECTIONS. THE PERMITTEE SHALL ASSIGN "QUALIFIED INSPECTION PERSONNEL" TO CONDUCT INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONING AND TO EVALUATE WHETHER THE SWP3 IS ADEQUATE AND PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE PROPOSED IN PART II.G.1.G OF THIS PERMIT OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. AT A MINIMUM, PROCEDURES IN A SWP3 SHALL PROVIDE THAT ALL CONTROLS ON THE SITE ARE INSPECTED:
 - AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24-HOUR PERIOD BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED, AND
 - ONCE EVERY SEVEN CALENDAR DAYS.
 - THE INSPECTION FREQUENCY MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH FOR DORMANT SITES IF:
 - THE ENTIRE SITE IS TEMPORARILY STABILIZED OR
 - RUNOFF IS UNLIKELY DUE TO WEATHER CONDITIONS FOR EXTENDED PERIODS OF TIME (E.G., SITE IS COVERED WITH SNOW, ICE, OR THE GROUND IS FROZEN).
 - THE BEGINNING AND ENDING DATES OF ANY REDUCED INSPECTION FREQUENCY SHALL BE DOCUMENTED IN THE SWP3.
 - ONCE A DEFINABLE AREA HAS ACHIEVED FINAL STABILIZATION, THE AREA MAY BE MARKED ON THE SWP3 AND NO FURTHER INSPECTION REQUIREMENTS SHALL APPLY TO THAT PORTION OF THE SITE.
- FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:
 - THE INSPECTION DATE;
 - NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
 - 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; WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
 - LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
 - LOCATION(S) OF BMPs THAT NEED TO BE MAINTAINED;
 - LOCATION(S) OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
 - LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
 - CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.
- DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THOSE ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.
- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED EROSION CONTROL BARRIERS, END RUNS, AND THE UNDERCUTTING OF BARRIERS BY RUNOFF.
- SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION HAS REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT CONTROL BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE APPROPRIATE GRADE ELEVATION, PREPARED AND SEEDED.
- THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF MUD AND DIRT BEING TRACKED ONTO THE STREETS BY INSTITUTING BEST MANAGEMENT PRACTICES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST PER ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS ITEM 616.
- THE PERMITTEE SHALL MAINTAIN FOR THREE YEARS FOLLOWING THE SUBMITTAL OF A NOTICE OF TERMINATION FORM, A RECORD SUMMARIZING THE RESULTS OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATES OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3 AND A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3 AND THE PERMIT AND IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. THE RECORD AND CERTIFICATION SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.
 - WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR MAINTENANCE. IF THE PRACTICE IS REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION, SEDIMENT SETTLING PONDS SHALL BE REPAIRED OR MAINTAINED WITHIN 10 DAYS OF THE INSPECTION.
 - WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3 SHALL BE AMENDED AND THE NEW CONTROL PRACTICE SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.
 - WHEN PRACTICES DEPICTED ON THE SWP3 ARE NOT INSTALLED. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE CONTAINED IN PART II.G.1.H OF THIS PERMIT, THE CONTROL PRACTICE SHALL BE IMPLEMENTED WITHIN 10 DAYS FROM THE DATE OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD SHALL CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.
- APPROVED STATE OR LOCAL PLANS. ALL DISCHARGERS REGULATED UNDER THIS GENERAL PERMIT MUST COMPLY, EXCEPT THOSE EXEMPTED UNDER STATE LAW, WITH THE LAWFUL REQUIREMENTS OF MUNICIPALITIES, COUNTIES AND OTHER LOCAL AGENCIES REGARDING DISCHARGES OF STORM WATER FROM CONSTRUCTION ACTIVITIES. ALL EROSION AND SEDIMENT CONTROL PLANS AND STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS SHALL BE RETAINED WITH THE SWP3 PREPARED IN ACCORDANCE WITH THIS PERMIT. APPLICABLE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT APPROVED BY LOCAL OFFICIALS ARE, UPON SUBMITTAL OF A NOI FORM, INCORPORATED BY REFERENCE AND ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN AN SWP3 REQUIRED UNDER THIS PERMIT. WHEN THE PROJECT IS LOCATED WITHIN THE JURISDICTION OF A REGULATED MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4), THE PERMITTEE SHALL CERTIFY THAT THE SWP3 COMPLIES WITH THE REQUIREMENTS OF THE STORM WATER MANAGEMENT PROGRAM OF THE MS4 OPERATOR.
- EXCEPTIONS. IF SPECIFIC SITE CONDITIONS PROHIBIT THE IMPLEMENTATION OF ANY OF THE EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THIS PERMIT OR SITE-SPECIFIC CONDITIONS ARE SUCH THAT IMPLEMENTATION OF ANY EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THIS PERMIT WILL RESULT IN AN ENVIRONMENTAL BENEFIT, THEN THE PERMITTEE SHALL PROVIDE JUSTIFICATION FOR REJECTING EACH PRACTICE BASED ON SITE CONDITIONS. EXCEPTIONS FROM IMPLEMENTING THE EROSION AND SEDIMENT CONTROL STANDARDS CONTAINED IN THIS PERMIT WILL BE APPROVED OR DENIED ON A CASE-BY-CASE BASIS.

Inlet Protection in Swales, Ditch Lines or Yard Inlets

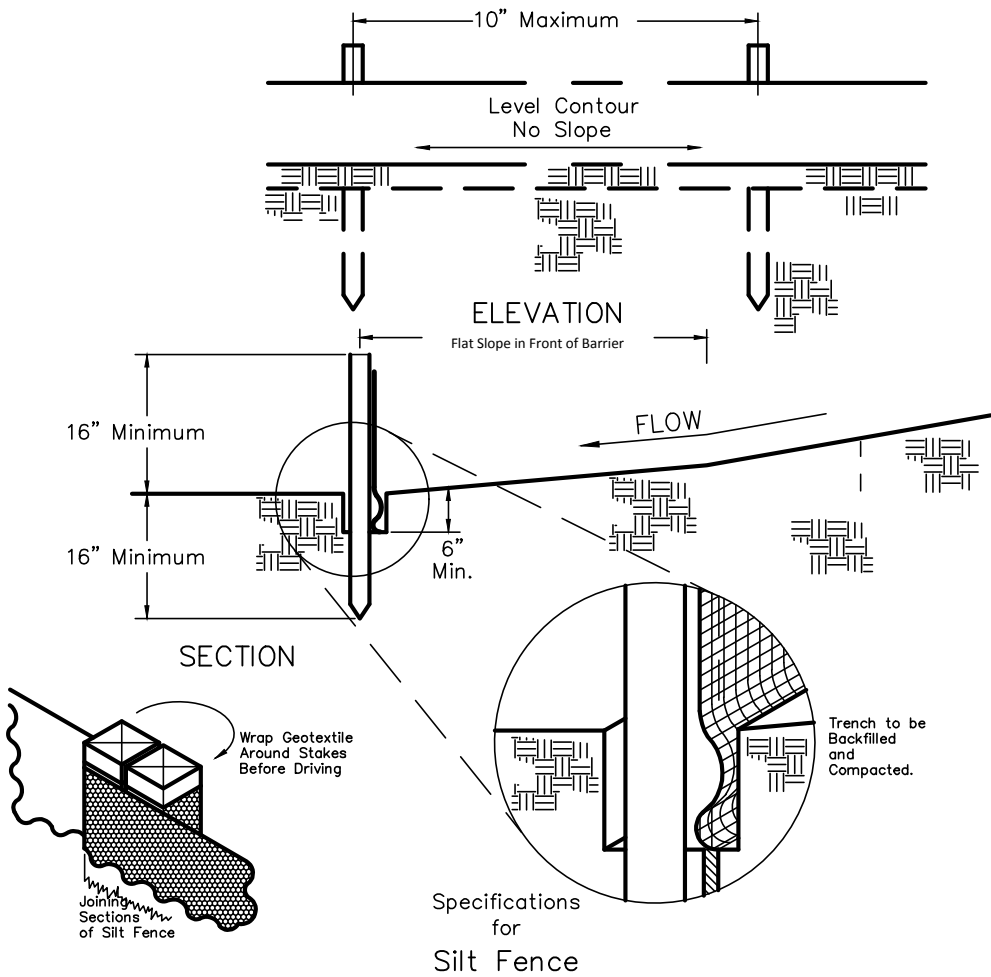


- Inlet protection shall be constructed either before upslope land disturbance begins or before the storm drain becomes operational.
- The earth around the inlet shall be excavated completely to a depth of at least 18 in.
- The wooden frame shall be constructed of 2-by-4 in. construction grade lumber. The 2-by-4 in. posts shall be driven 1 ft. into the ground at four corners of the inlet and the top portion of 2-by-4 in. frame assembled using the overlap joint shown. The top of the frame shall be at least 6 in. below adjacent roads if ponded water would pose a safety hazard to traffic.
- Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
- Geotextile shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 in. below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
- Backfill shall be placed around the inlet in compacted 6-in. layers until the earth is even with notch elevation on ends and top elevation on sides.
- A connected earth dike or a check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression and if runoff bypassing the inlet will not flow to a settling pond. The top of the earth dikes shall be at least 6 in. higher than the top of the frame.



- Stone Two-inch stone shall be used, or recycled concrete equivalent.
- Length-The construction entrance shall be as long as required to stabilize high traffic areas but not less than 50 ft. (except on single residence lot where a 30-ft. minimum length applies).
- Thickness-The stone layer shall be at least 6 in. thick.
- Width-The entrance shall be at least 10 ft. wide, but not less than the full width at points where ingress or egress occurs.
- Bedding-A geotextile shall be placed over the entire area prior to placing stone. It shall have a Grab Tensile Strength of at least 200 lb. and a Mullen Burst Strength of at least 150 lb.
- Culvert-A pipe or culvert shall be constructed under the entrance if needed to prevent surface runoff from flowing across the entrance from being directed onto paved surfaces.
- 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 onto paved surfaces.
- Maintenance-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 removed immediately. Removal shall be accomplished by scraping or sweeping, or egress occurs.
- 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.

Specifications for Silt Fence



- Silt fence shall be constructed before upslope land disturbance begins.
- All silt fences 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 ponded by the silt fence from flowing around the ends, each end shall be changed 2) Accumulated sediment shall be removed, or 3) Other practices shall be installed.
- 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 the silt fence. If vegetation is removed, it shall be reestablished 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 that will ensure an adequately uniform trench depth.
- The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that \$ in. of cloth are below the ground surface. Excess material shall lie on the bottom of the 6-in. deep trench. The trench shall be backfilled and compacted.
- Seams between section 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 ends, or in any other way becomes a concentrated flow, on the following shall be performed, as appropriate: 1) The layout of the silt fence shall be changed; 2) Accumulated sediment shall be removed, or 3) Other practices shall be installed.

Criteria for Silt Fence Materials

- Fence Posts-The length shall be a minimum of 32 in. long. Wood posts will be 2-by-2 in. of hardwood of sound quality. The maximum spacing between posts shall be 10 ft.
- Silt Fence Fabric: shall be ODOT Type C Geotextile fabric or as described by the fabric below:

| Fabric Properties | |
|---|-----------|
| Minimum Tensile Strength | 120 lbs. |
| Maximum Elongation at 40 lbs. | 10% |
| Minimum Puncture Strength | 50 lbs. |
| Minimum Tear Strength | 40 lbs. |
| Minimum Burst Strength | 200 psi |
| Apparent Opening Size | 1.0 mm |
| Minimum Permeability | 1.10 sec. |
| Ultraviolet Exposure Strength Retention | 70 % |

STABILIZATION. DISTURBED AREAS MUST BE STABILIZED AS SPECIFIED IN THE FOLLOWING TABLES BELOW.

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 |

Table 2: Temporary Stabilization

| Area requiring permanent stabilization | Time frame to apply erosion controls |
|--|--|
| Any disturbed areas within 50 feet of a surface water of the State and not a 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 |

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES SHALL BE EMPLOYED. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENFORCING OFFICIAL BEFORE IMPLEMENTING ALTERNATIVE STABILIZATION TECHNIQUES PER SECTION 310(N) OF THE HAMILTON COUNTY EARTHWORK REGULATIONS.

PERMANENT STABILIZATION OF DITCHES. SPECIAL MEASURES SHALL BE UNDERTAKEN TO STABILIZE DITCHES AND PREVENT EROSION FLOWS. MEASURES MAY INCLUDE SEEDING, DORMANT SEEDING (AS DEFINED IN THE LATEST EDITION OF THE RAINWATER AND LAND DEVELOPMENT MANUAL), MULCHING, EROSION CONTROL MATTING, SODDING, RIPRAP, NATURAL DESIGN WITH BIOENGINEERING TECHNIQUES OR ROCK CHECK DAMS.

RUNOFF CONTROL PRACTICES. THE PROJECT SHALL INCORPORATE MEASURES WHICH CONTROL THE FLOW OF RUNOFF FROM DISTURBED AREAS SO AS TO PREVENT EROSION FROM OCCURRING. SUCH PRACTICES MAY INCLUDE ROCK CHECK DAMS, PIPE SLOPE DRAINS, DIVERSIONS TO DIRECT FLOW AWAY FROM EXPOSED SOILS AND PROTECTIVE GRADING PRACTICES. THESE PRACTICES SHALL DIVERT RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHERE PRACTICABLE.

Specifications for Permanent Seeding

- SITE PREPARATION
- A subsolver, plow or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing vegetation.
 - The site shall be graded as needed to permit the use of conventional equipment for seeded preparation and seeding.
 - Resoil shall be applied where needed to establish vegetation.
- SEEDBED PREPARATION
- Time-Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac/ of 10-10-10 or 12-12-12 analysis.
 - Fertilizer-Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac/ of 10-10-10 or 12-12-12 analysis.
 - The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. On sloping land the soil shall be worked on the contour.

MULCHING

- Mulch material shall be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be mulched.
- Materials
 - * Straw-If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The 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 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section.
 - * Hydroseeds-If wood cellulose fiber is used, it shall be used at 2,000 lb./ac/ or 46 lb./1,000 sq. ft.
 - * Other-Other acceptable mulches include mulch matting applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.
- Straw Mulch Anchoring Methods
 - Straw mulch shall be anchored immediately to minimize loss by wind or water.
 - * Mechanical-A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 in.
 - * Mulch Nettings-Netting shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.
 - * Asphalt Emulsion-Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal./ac.
 - * Synthetic Binders-Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petrosel, Terra Tack or equivalent may be used at rates recommended by manufacturer.
 - * Wood Cellulose Fiber-Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lbs./100 gal.

IRRIGATION

- Permanent seeding shall include irrigation to establish vegetation during dry or hot weather or on adverse site conditions as needed for adequate moisture for seed germination and plant growth.
- Excessive irrigation rates shall be avoided and irrigation monitored to prevent erosion and damage from runoff.

- From November 20 through March 15, when soil conditions permit, prepare the seedbed, and the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture, mulch and anchor. Increase the seeding rates by 50 % for this type of seeding.
- From November 20 through March 15, when soil conditions permit, prepare the seedbed, and the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture, mulch and anchor. Increase the seeding rates by 50 % for this type of seeding.
- Where feasible, except when a cutlupacker type seeder is used, the seedbed should be firmed following seeding operations with a cutlupacker, roller or light drag. On sloping land, seeding operations should be on the contour where feasible.

| Permanent Seeding | | | |
|---|--------------|----------------------------|-------------------------------|
| Seed Mix | Seeding Rate | | Notes: |
| | lb./ac. | lb./1,000 ft. ² | |
| General Use | | | |
| Creeping Red Fescue | 20-40 | 1/2-1 | |
| Domestic Ryegrass | 10-20 | 1/4-1/2 | |
| Kentucky Bluegrass | 10-20 | 1/4-1/2 | |
| Tall Fescue | 40 | 1 | |
| Dwarf Fescue | 40 | 1 | |
| Steep Banks or Cut Slopes | | | |
| Tall Fescue | 40 | 1 | |
| Crown Vetch | 10 | 1/4 | Do not seed later than August |
| Tall Fescue | 20 | 1/2 | |
| Flat Pea | 20 | 1/2 | Do not seed later than August |
| Tall Fescue | 20 | 1/2 | |
| Road Ditches and Swales | | | |
| Tall Fescue | 40 | 1 | |
| Dwarf Fescue | 90 | 2 1/4 | |
| Kentucky Bluegrass | 5 | | |
| 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. | | | |

Note: Other approved seed species may be substituted.

Specifications for Permanent Seeding

- Permanent seeding shall not be considered established by soil test recommendations or by using the rates shown in the following table.
- Maintenance fertilization rates shall be established by soil test recommendations or by using the rates shown in the following table.

| Mixture | Formula | lb./ac. | lb./1,000 ft. ² | Time | Mowing |
|---|----------|---------|----------------------------|--|--------------------|
| Creeping Red Fescue Ryegrass Kentucky Bluegrass | 10-10-10 | 500 | 12 | | Not closer than 3" |
| Tall Fescue | 10-10-10 | 500 | 12 | Fall, yearly or as needed. | Not closer than 4" |
| Dwarf Fescue | 10-10-10 | 500 | 12 | | Not closer than 2" |
| Crown Vetch Fescue | 0-20-20 | 400 | 10 | Spring, yearly following establishment and every 4-7 yr. thereafter. | Do not mow |
| Flat Pea Fescue | 0-20-20 | 400 | 10 | | Do not mow |

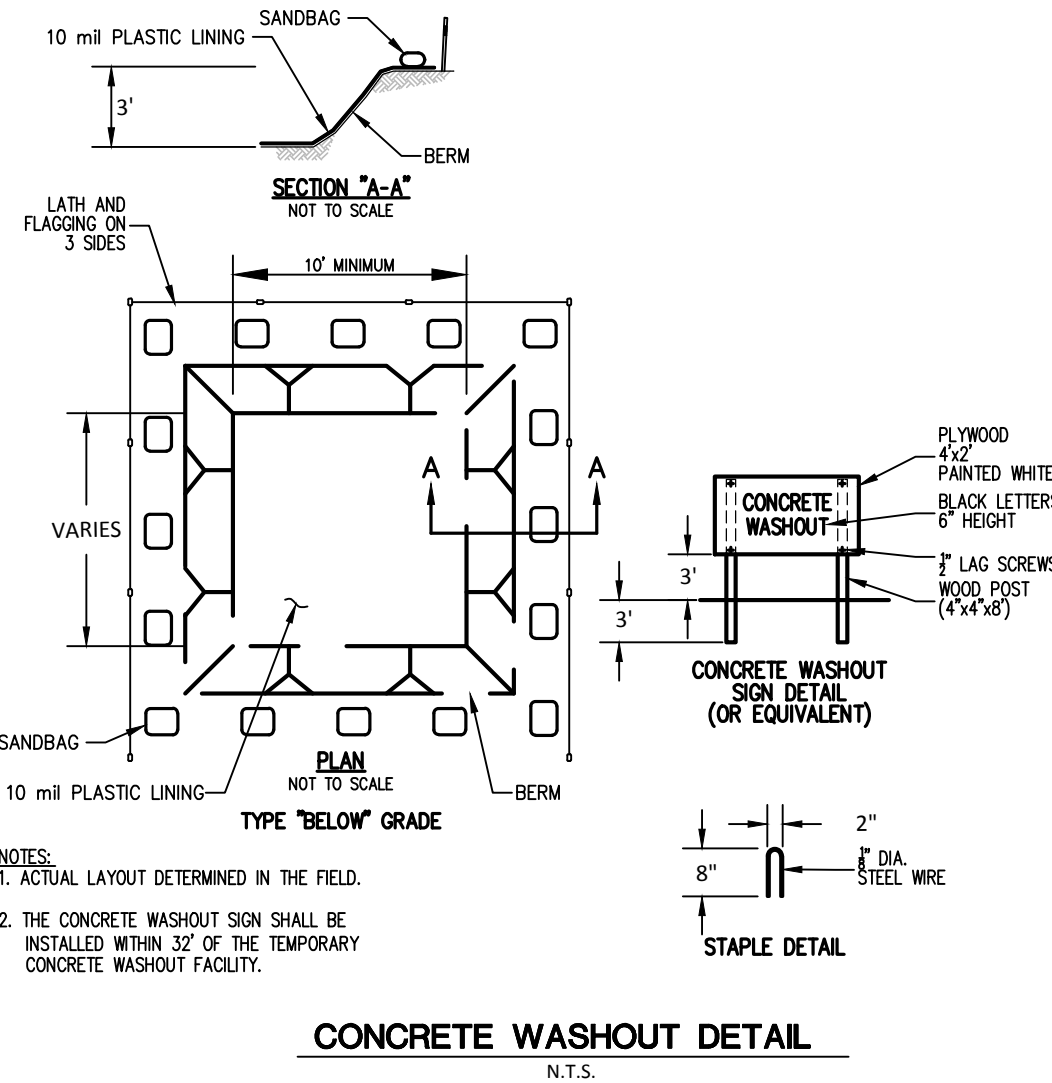
Note: Following soil test recommendations is preferred to fertilizer rates shown above.

Specifications for Temporary Seeding

| Temporary Seeding Species Selection | | | |
|-------------------------------------|--------------------|----------------------------|----------|
| Seeding Dates | Species | lb./1,000 ft. ² | Per Ac. |
| March 1 to August 15 | Oats | 3 | 4 bushel |
| | Tall Fescue | 1 | 40 lb. |
| | Annual Ryegrass | 1 | 40 lb. |
| August 16 to November 1 | Perennial Ryegrass | 1 | 40 lb. |
| | Tall Fescue | 1 | 40 lb. |
| | Annual Ryegrass | 1 | 40 lb. |
| November 1 to Spring Seeding | Rye | 3 | 2 bushel |
| | Tall Fescue | 1 | 40 lb. |
| | Annual Ryegrass | 1 | 40 lb. |
| November 1 to Spring Seeding | Wheat | 3 | 2 bushel |
| | Tall Fescue | 1 | 40 lb. |
| | Annual Ryegrass | 1 | 40 lb. |
| November 1 to Spring Seeding | Perennial Ryegrass | 1 | 40 lb. |
| | Tall Fescue | 1 | 40 lb. |
| | Annual Ryegrass | 1 | 40 lb. |

Note: Other approved seed species may be substituted.

- Structural erosion and sediment control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site.
- Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 45 days or more. These site areas should be seeded as soon as possible after grading or reworked for 45 days or more. Several applications of temporary seeding are necessary on typical construction projects.
- The seedbed should be pulverized and loose to ensure the success of establishing vegetation. However, temporary seeding shall not be postponed if ideal seedbed preparation is not possible.
- Soil Amendments-Applications of temporary vegetation shall establish adequate stands of vegetation that may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lime and fertilizer.
- Seeding Method-Seed shall be applied uniformly with a cyclone seeder, drill, cutlupacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking and dragging and then lightly tamped into place using a roller or cutlupacker. If hydroseeding is used, the seed and fertilizer will be mixed on site and the seeding shall be done immediately and without interruption.
- MULCHING TEMPORARY SEEDING
 - Applications of temporary seeding shall include mulch that shall be applied during or immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization.
 - Materials:
 - * Straw-If straw is used, it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The 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 1,000 sq. ft. sections and spread two 45-lb. bales of straw in each section.
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 - * Wood Cellulose Fiber-Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lbs./100 gal.



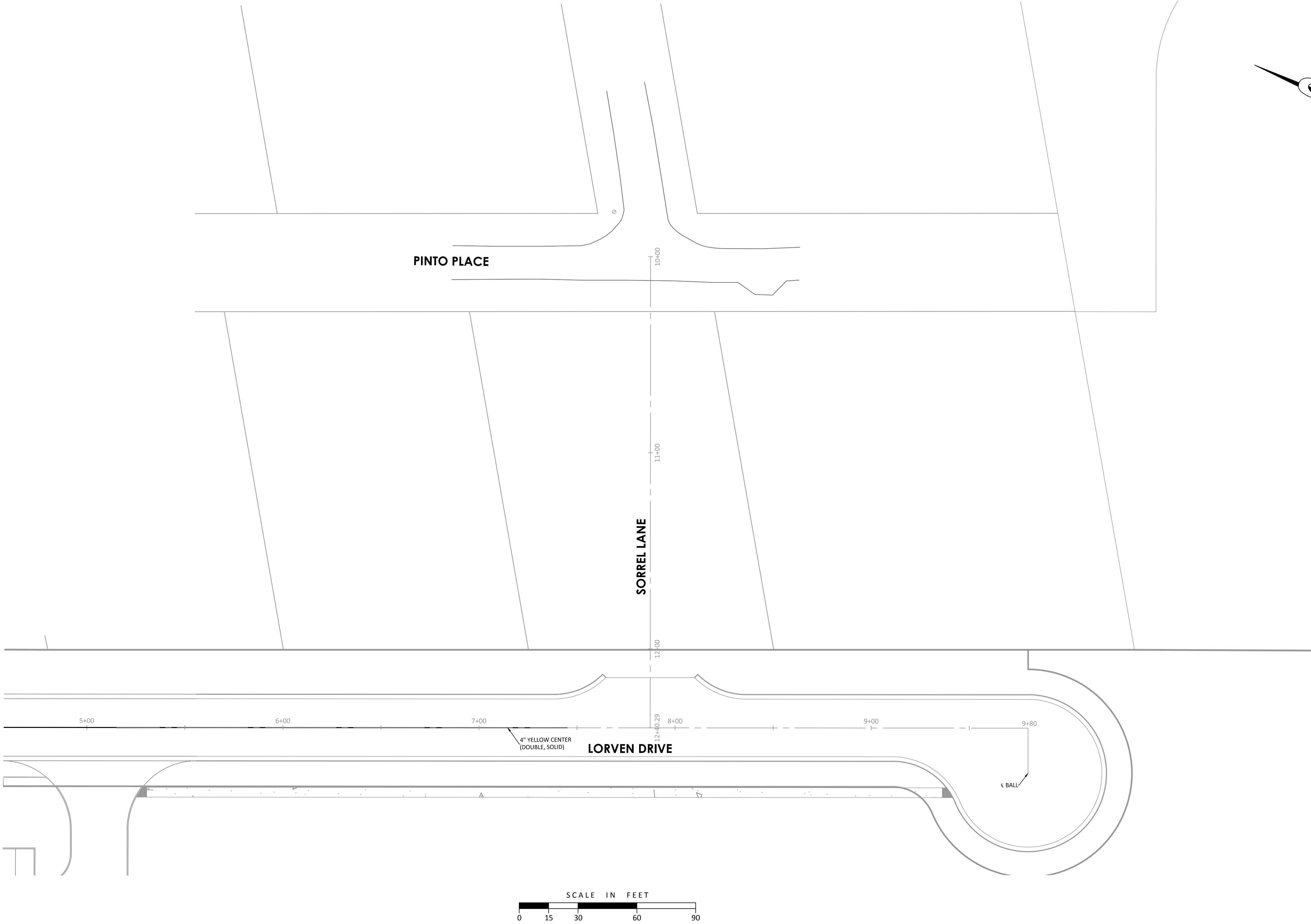
NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 3' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT DETAIL

N.T.S.

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*NOTE: ALL PAVEMENT MARKINGS AND STRIPING
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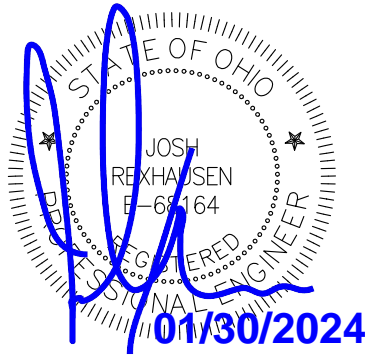
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CLERMONT COUNTY, OHIO

| TRAFFIC CONTROL PLAN | |
|----------------------|----------|
| Project Number | 18441.03 |
| Drawing Scale | AS NOTED |
| Sheet Number | 10/14 |
| File Number | 18441 |

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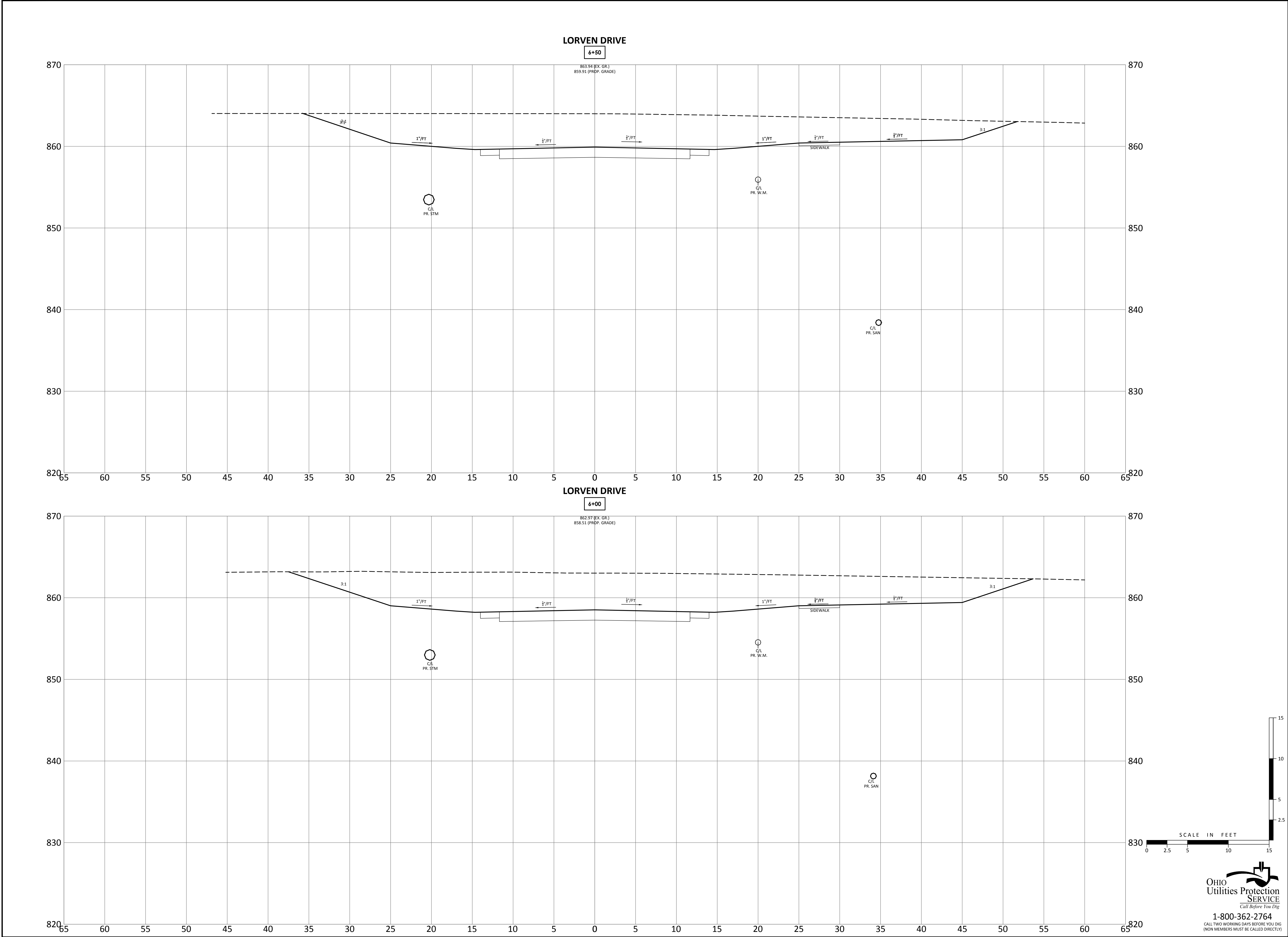
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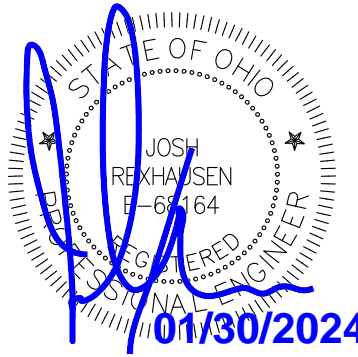
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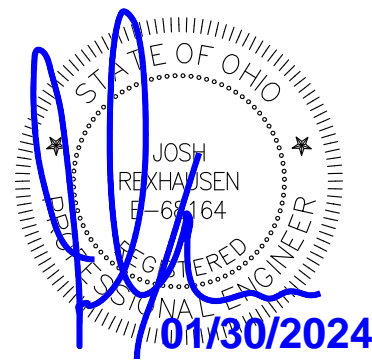
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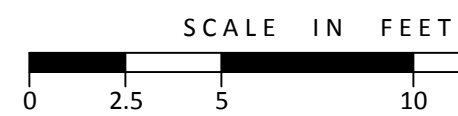
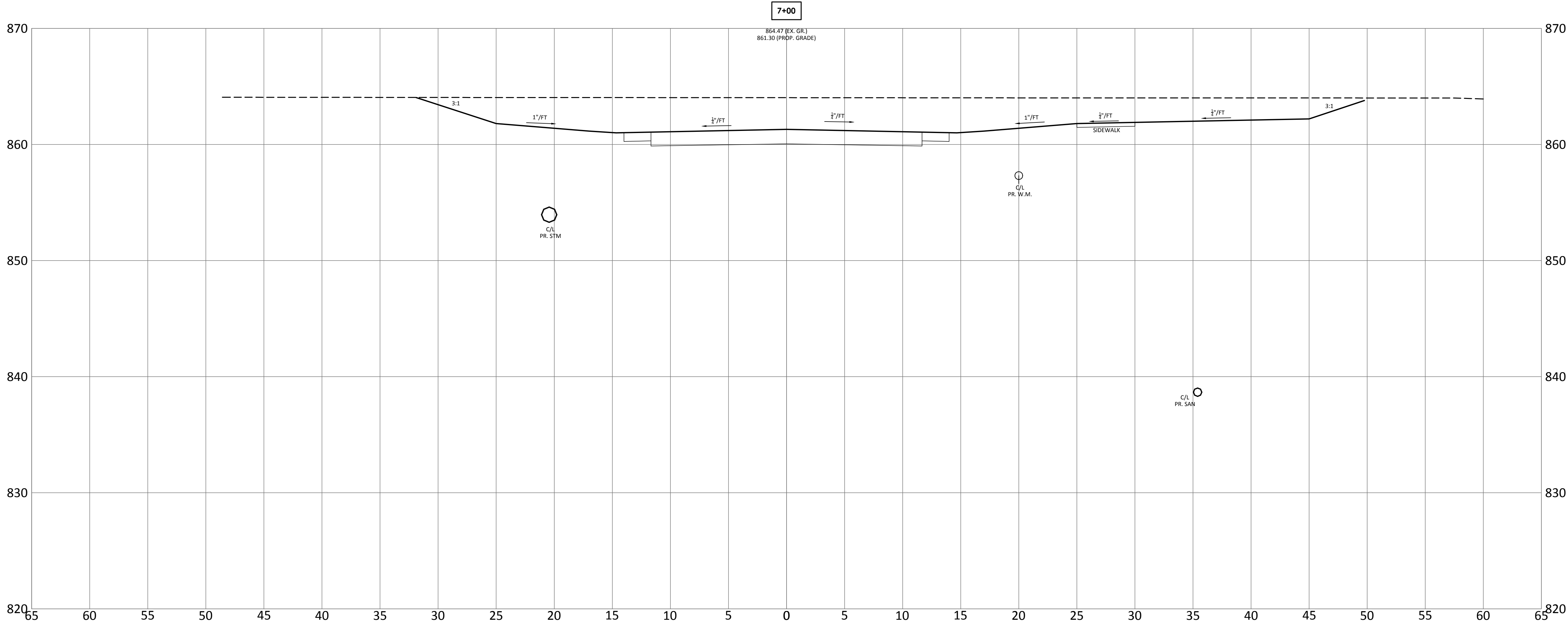
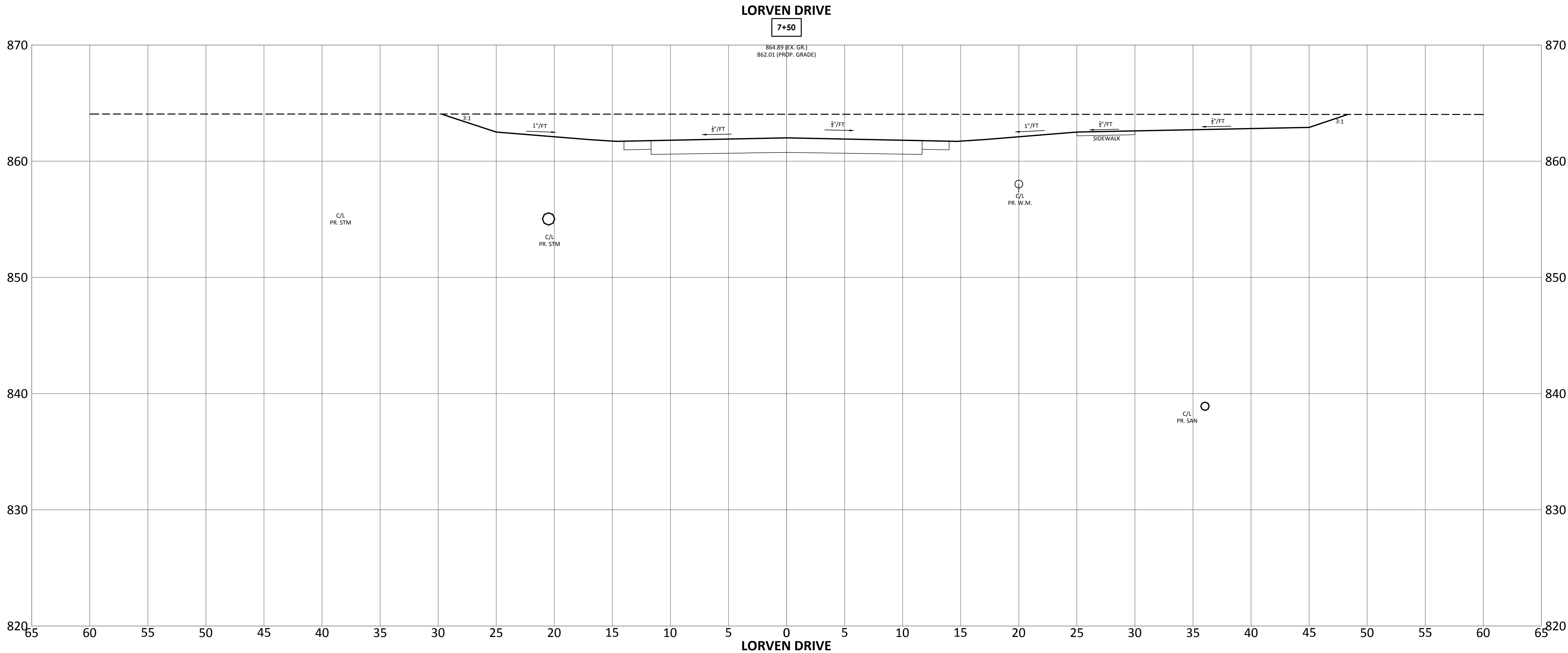
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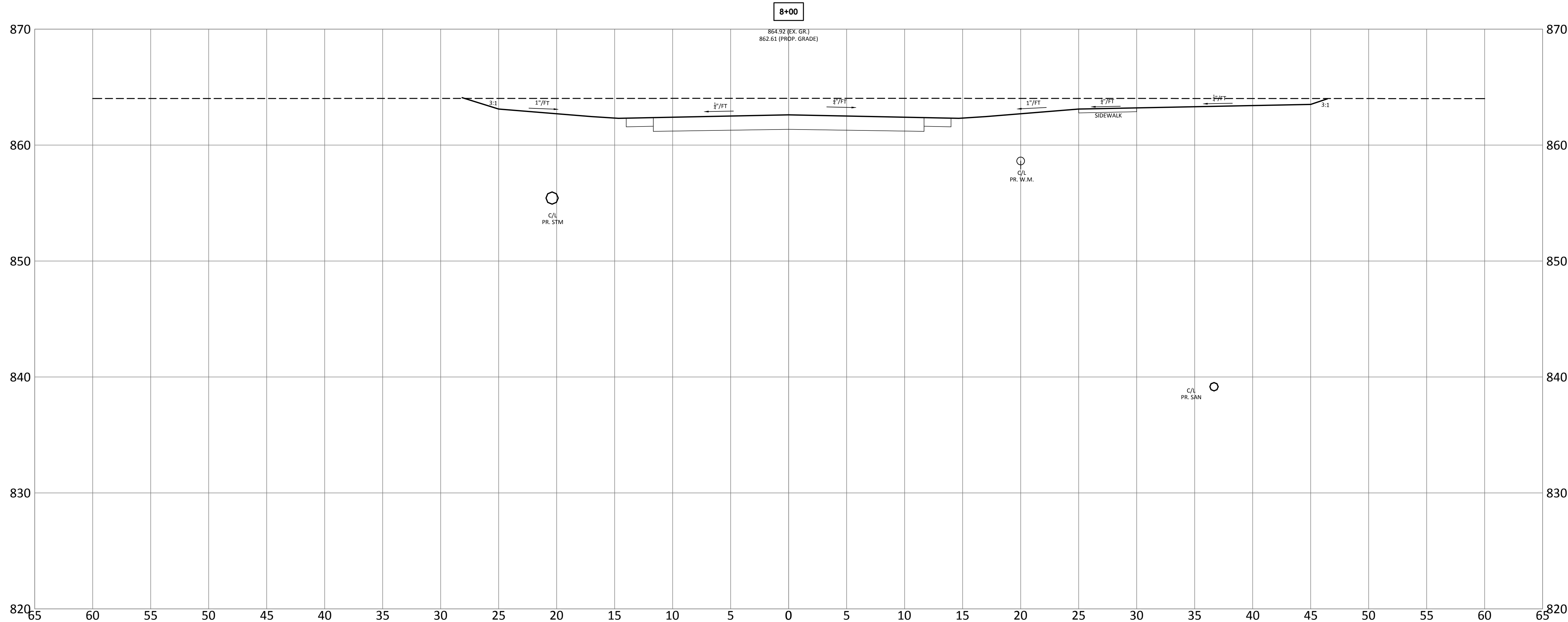
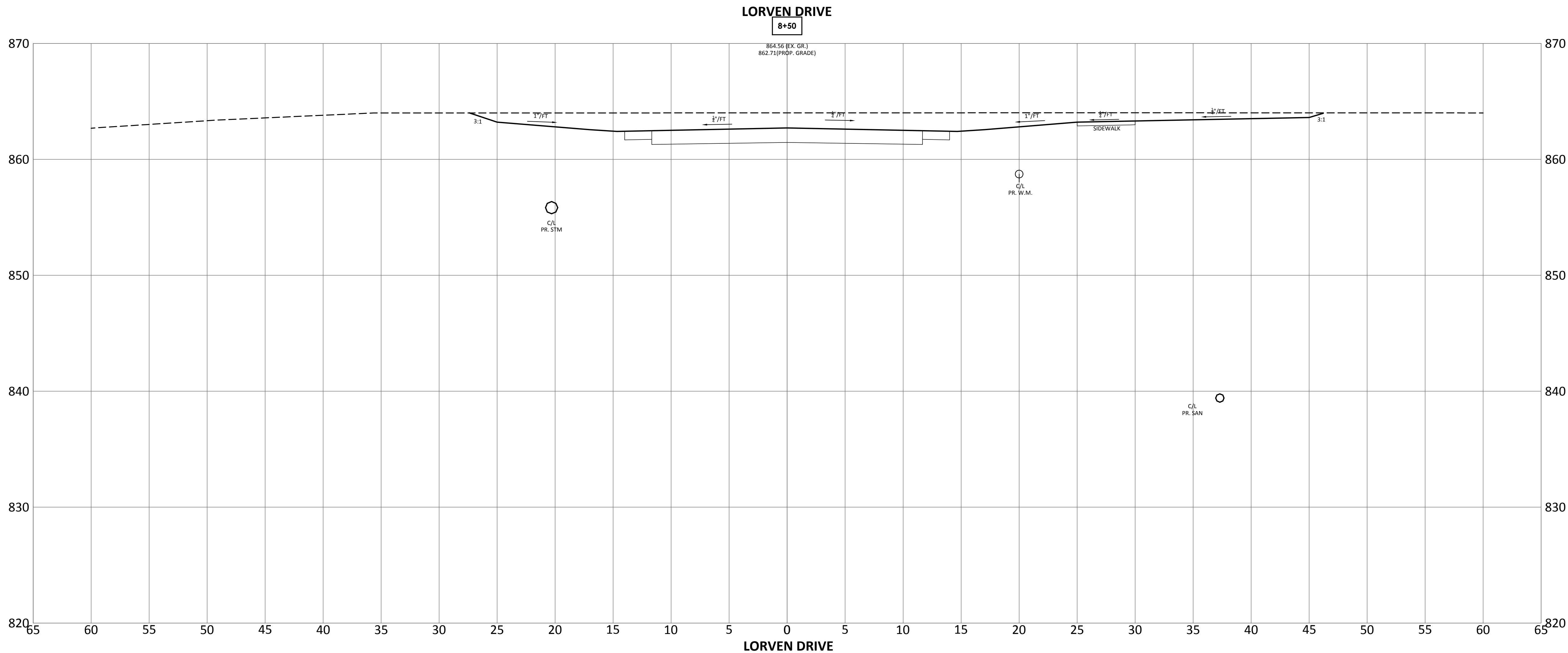
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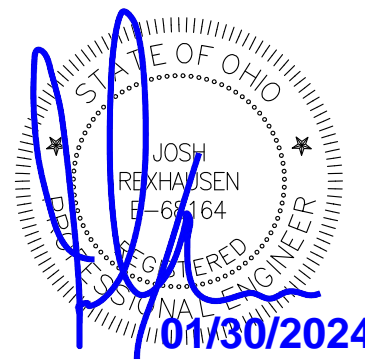
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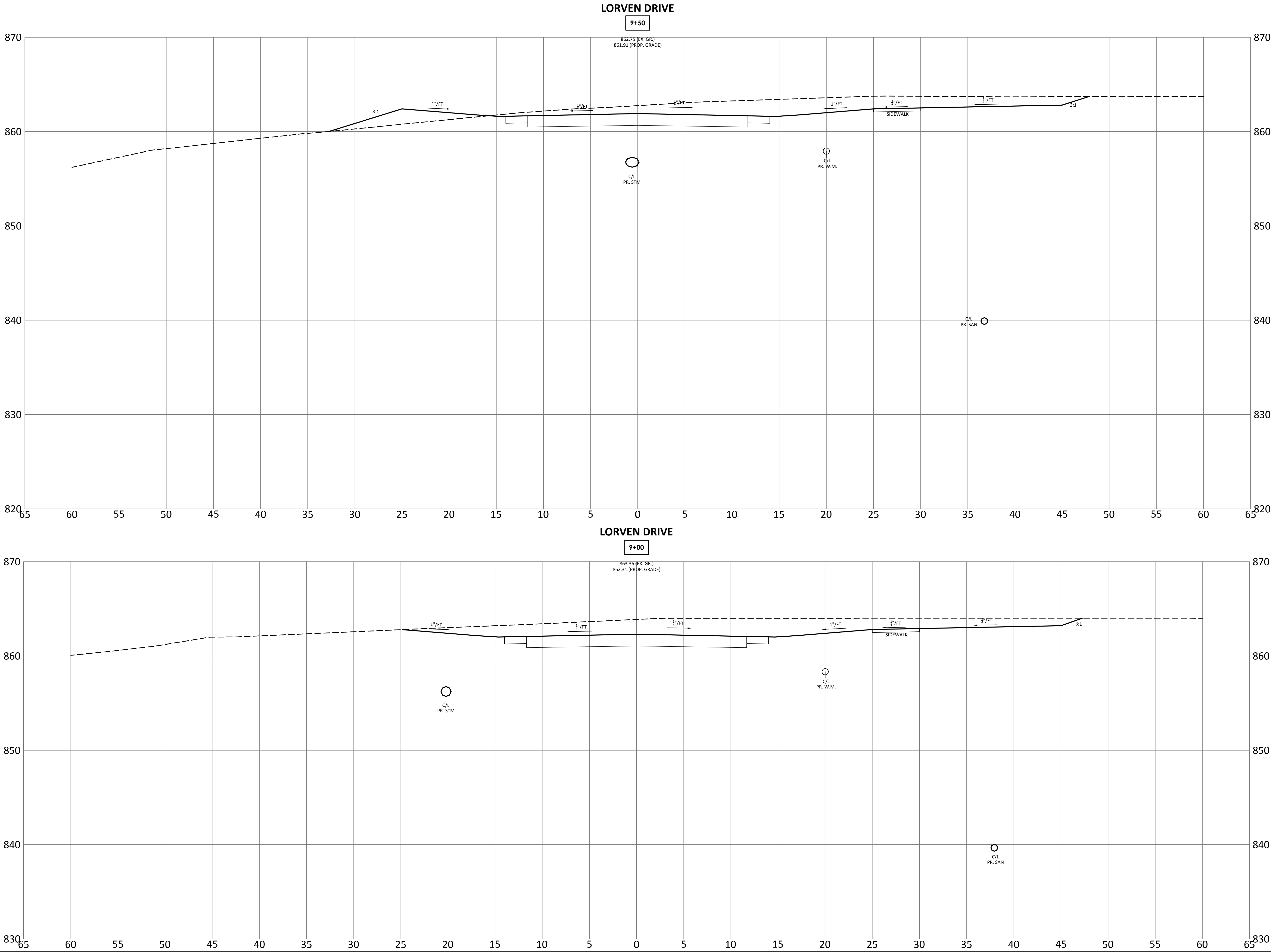
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