SR 28 SITE

VICINITY MAP

LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION

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

INDEX

SHEET	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES & TYPICAL SECTIONS
3	WATER MAIN NOTES
4	DETAILS
5	CLEARING & DEMOLITION PLAN
6	IMPROVEMENT PLAN & PROFILES
7	GRADING & S.W.P.P. PLAN
8	S.W.P.P.P. NOTES & DETAILS
9	RIGHT IN RIGHT OUT
10	TRAFFIC CONTROL PLAN
11-12	CROSS SECTIONS

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE EXTENSION OF SORREL LANE TO LORVEN DRIVE PUBLIC ROADWAY IMPROVEMENTS ASSOCIATED WITH THE CONNECTION TO AN EXISTING RESIDENTIAL COMMUNITY AND THE INTERSECTION IMPROVEMENTS AT ROAN ROAD AND S.R. 28. THE DESIGN INCLUDES APPROXIMATELY 190 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:

Healty Weadle

CLERMONT COUNTY WATER RESOURCES DEPT

CLERMONT COUNTY ENGINEER

CLERMONT COUNTY WMSC

MIAMI TOWNSHIP

1/30/24 DATE

1130/24 DATE

1.30.2024

01/30/2024 DATE MSP D E S I G N McGill Smith Punsho

itecture 3700 Park 42 Drive neering Suite 1908 Iscape Architecture Cincinnati OH 45241 ning Phone 513.759.0004 eying www.mspdesign.com

 Project Manager
 JMR

 Drawn By
 DCA

 DWG
 18441004-ROAD-EXT

 X-Ref(s)
 --

C Copyright 2024, McGILL SMITH PUNSHON, I



LORVEN DRIVE - PHASE 2D SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY NO. 991 MIAMI TOWNSHIP

Sheet Title

TITLE SHEET

Project Number Drawing Scale Sheet Number

AS NOTED 1/12 18441

OHIO
Utilities Protection
SERVICE
Cull Before Yau Dig
1-800-362-2764
LINDO MOBINIS DAYS BEFORE YOU DIG
MINISTRATE ACT ACT TO THE TOTAL T

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

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 DBTAIN, AT HIS EXPENSE, ANY AND ALL PERMITS AND INSPECTIONS REQUIRED FOR THE CONSTRUCTION WORK
TO SHALL DBTAIN AND BEAUTY AND BEAUTY AND ALL PERMITS AND INSPECTIONS REQUIRED FOR THE CONSTRUCTION WORK

MATERIALS AND WORKMANSHIP

UNLESS OTHERWISE PRECIPES, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF THE FIRST
UNLESS OTHERWISE PRECIPES ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF THE FIRST
SATISFACTOR VIOLENCE SO TO THE OWNER OF THE CONTRACTOR SHALL FERNISH, IF SO REQUIRED,
SATISFACTOR VIOLENCE SO TO THE OWNER OF THE OWNER OWNERSHIP ALL TEMPO OF CULTUMENT AND/OR
THE TEMPO SECOND THE CONTRACTOR OWNERS AND SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONA
REQUIRED ENGINEERING REVISIONS, THE EXPENSE OF SUCH REVISIONS SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONA

EXISTING FACILITIES
TT SHALL BETHE REPORSIBILITY 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.

CONTRACTION LIMITS
THE CONTRACTION DATE STREET ALL OF ME ACTIVITIES, EQUIPMENT STORAGE, AND STADING WITHIN THE CONSTRUCTION LIMITS.
THE CONTRACTION DATE STREET AND ASSOCIATION OF THE CANAS OR THE CONTRACTION OF THE CANAS OR THE CHARGE OF THE CONTRACTION OF THE CANAS OR THE CHARGE OF THE CONTRACTION OF THE CANAS OF THE CONTRACTION OF THE CONTRACTION OF THE CANAS OF THE CANAS OF THE CONTRACTION OF THE CONTRACTION OF THE CANAS OF THE

ELEVATION DATUM BENCHMARK FROM CLERMONT COUNTY MONUMENTS M151 & 227

PAGE TECTION S SETTING UNDESCRIBED UP UTUTES.

THE CONTRACTION STATE SETTING THE TRANSPORT OF THE SETTING THE COLOR OF THE UNDESCRIBED UND

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

CODPERATION WITH UPLITY COMPANIES
WHILE THE WORK OF THIS COMPACTOR SENING PERFORMED, THE UTILITY COMPANIES MAY BE WORKING IN THE AREA ADJUSTING AND
MEETITIME DISTRING FACULTIES. THE CONTRACTOR SHALL PULLY CODPERATE WITH UTILITY COMPANIES SO THAT THE ENTIRE WORK IS
COMPACTED IN A MANIBER CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. THE CONTRACTION, UTILITY COMPANIES AND OWNER
SHALL DISCOST THE MEESSARY CONSTRUCTION SOFEDULES TO COMPACTE THE PRE-CONTRACTION LOTHOR LOTH

UTILITY CONDINATION.
THE FOLLOWING IS A LIST OF THE KNOWN EXSTING UTILITIES IN THE PROJECT AREA ALONG WITH THE RESPECTIVE OWNERS. THE LIST IS
INCLUEDED FOR PROMATIONAL 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.

ROADWAY & STORM SEWERS CLERMONT COUNTY ENGINE

WATER & SANITARY SEWER CLERMONT COUNTY WATER RESOURCE DEPARTMENT 4400 HASKELL LANE 8407 HASTOR (513)732-8864

REJOCATION OF UTILITIES

REJOCATION 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
ARE OF ATTO OR ADMINISTED BY THE CONTRACTOR AS DIRECTED BY THE RESPECTIVE UTILITY COMPANY.

INDERGROUND 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

URLITES NOTIFICATION.
AT LEAST TWO YEARDAND DAYS PRICE TO COMMENCING CONSTRUCTION OFERATIONS IN AN AREA WHICH MAY INVOLVE UNDERRIGUIND UTILITY FACULTIES, THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACULTY SHOWN ON THE PLAN.

THE OWNER OF THE UNDERSTOUND FACULTY SHALL, WITHIN 48 HOURS (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS), MARK THE LOCATION OF THE UNDERSTOUND UTILITY FACULTIES IN THE CONSTRUCTION AREA IN SUCH A MANINER AS TO INDICATE THEIR COURSE AND THE APPROXIMATE DEFTH AT WHICH THEY WERE INSTRUCED THE MARKING OR ILLCRATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS HALED OF THE PLATED CONSTRUCTION.

ONTHER TORS AND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE.

NO ROBERT ON MARINE AN ADJACES CONSTRUCTION NOISE.

NO ROBERT ON MARINE AN ADJACES CONSTRUCTION NOISE MARTE, ANY POWER, O'FBRATE O, NOTHER CHARLES ANY ADJACES CONSTRUCTION. THE PROJECT CENTER THE HOUSE OF BOOM AND 7-00 AM. IN ADDITION, ANY SUCH DEVICES HALL NOT BE OPERATED AT ANY TIME IN SUCH A MANAKES THAT THE NOISE CREATED WITHOUT ADDITIONAL PROJECT CONTROL AND ADJACES AND ADDITIONAL PROJECT CONTROL ADDITIONAL PROJECT CENTER AND ADJACES AND ADDITIONAL PROJECT CONTROL PROJECT

WEATHER CONDITIONS
NO CONSTRUCTIONS AND ED ONE DURING STORMY, FREEZING, OR INCLEMENT WEATHER UNLESS PERMISSION IS GIVEN BY THE OWNER. WHENEVER WORK
PROCESSES CURRING SUCH WEATHER, THE CONTRACTOR SHALL PROVIDE APPROVED FACILITIES, INCLUDING HEAT BY REQUIRED, FOR THE PROTECTION OF ALL
WATERLIAS AND RAMINED WORK.

THE CONTRACTOR SHALL PROVIDE FOR PROTECTION OF THE FOLLOWING: EXISTING STREETS, DRIVE WAYS, SIDEWALCS, CURBS, GUTTERS, RE-SEDINAIRE SO REMOVAL OF TREES, RESTORATION OF AGRICULTURAL (AND, THE WAINTENANCE OF THE CONSTRUCTION AREA QUIRING PROGRESS OF THE WORK AND THE OWNPETER RESTORATION OF THE CONSTRUCTION AREA ATTER THE AGRACULTURG SCOMETED, AND THE WAINTENANCE OF THE TORSTORE OF TO STRONG THE CONTRACT OWNPETER STRONGWAYS, SIDEWALCS, CURBS, GUTTERS, STRUCTURES, AND ALL AREAS THAT WERE DAMAGED. DISTURBED, OR OCCUPIED BY THE CONTRACT OWNPETCH STRONG WAY PRIESE OF THE WORK AND THE WAY PRIESE OF THE WAY.

PARKENETS, TRESS, SHUBSE, ETRICES POLES, OR DIVER PROPERTY AND SUBFACE STAUCTURES WHICH HAVE BEEN DAMMED, RECOVERED AND SUBFACE OF CONTRACTOR. WHITE BUBBLEASTED OF THE OWNERS, OR OR SHOULD BUBBLEASTED OF THE CONTRACT OF CONTRACTOR. WHITE BUBBLEASTED OF THE CONTRACT OF CONTRACTOR. WHITE SUBFACE OF THE OWNER, OR THROUGH FAILURE TO EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL, AND REASONABLE SAFEGUARDS SHALL BE REPLACED AT THE EMPLOY IOUAL.

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

CONNECTIONS TO EXISTING PIPE
WHERE THE PLAY PROVIDE FOR THE PROPOSED CONQUIT 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 CONQUIT.

FIT IS DETERMINED THAT THE ELEVATION OF THE DISTING CONDUIT OR EXISTING APPLIATENANCE TO BE CONNECTED DIFFERS FROM THE PLAN ELEVATION, OR FEQULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE OWNER SHALL BE NOTHED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED COMDUIT WHICH WILL BE AFFECTE OR THE VARIANCE IN THE JESTING 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

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

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.

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
FUNSUITABLE SOILS ARE ENCOUNTERED IN THE PROPOSED ROAD BED AREA THEY SHALL BE REMOVED & REPLACED WITH SUITABLE MATERIAL MEETING THE
REQUIREMENTS OF 2010 22 PARAGRAPH RT. THE LOCATIONS AND DIMENSIONS WILL BE DETERMINED BY THE GROTECHNICAL ENGINEER UNDER CONTRACT WITH

11'-8"

12343

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

MAINTENANCE OF ESSEER ROWS
THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN SEWER FLOWS AT ALL TIMES THROUGH EXISTING
FACULITIES WHICH ARE TO REMAIN IN PLACE AND THROUGH EXISTING FACULITIES TO BE REPLACED UNTIL NEW FACULITIES ARE

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.

IL EXISTING SEWERS SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED I HE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION REQUISITING FROM THE CONTRACTOR'S OFERATIONS SHALL BE PRACECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

TEMPORARY SOIL PROGON AND SEGMENT CONTROL
THE LOCATION AND THAN OF ALL SEGSION AND SEGMENT CONTROL ITEMS WITHIN THE CONSTRUCTION LIMITS SHALL BE FIELD
ADJUSTED TO PREVENT SIGNIFICANT MAPCES ON RECEIVENG 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 RESTRAILUZED.

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.

THE CONTRACTOR SHALL PERFORM THE NECESSARY PRECAUTIONS TO AVOID EXCESSIVE SOIL EROSICH AND THE RUNOFF OF SEDIMENT INSIDE AND DOWNSTREAM OF THE PROJECT TO THE SATISFACTION OF THE OWNER. THIS SHALL INCLUDE, BUT IS IN MAINTED TO, REFECTION OF SAT TENSE OFF, ALLOWED THE PREMETER OF THE CONSTRUCTION LIMITS AND PROJECTION THE SATISFACEMENT OF TAXING BALE BARRIES (SBB) AND/ORD HITE BRANKES (FB) AS DITCH CHECKS. DITCH CHECKS SHALL BE PLACED AT A MAXIMUM SPACE OF SHEFT ALONG BUT APPOSED DITCH.

REVIEW OF DRAINAGE FACULTIES
BEFORE ANY WORK 5 STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER AND THE CONTRACTOR,
ACKNOW SOFT LOCK ARPRESENTATINGS, SHALL MAKE AN ASPECTION OF ALL DISTING SEWERS WHICH ARE TO REDAIN IN SERVICE
AND WINNING ANY EXPERTISES. THE HORN, THE CONDITION OF THE EXECUTION CONTROL AND THE ARPRITANCE SHALL BE
OFFERMINED FINAL PROJECT HE DESERVATIONS. RECEASE OF THE INSPECTION SHALL BE CET? IN WARRING AT 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 ENSTING SEWERS TO REMAIN AND INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPAGABLE TO THAT DETERMINED BY THE DRIGHAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER

ITEM 614 - MAINTAINING TRAFFIC.

AMMINISMO TO ZUANES OF TRAFFIC ON WESTBOUND SR 22 SHALL BE MAINTAINED AT ALL TIMES EXCEPT L LANE OF TRAFFIC ON A CONTRAFFIC OF THE PRISTING O

ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL REVIVEE, ERECT AND AMAINAN SIGNS, SIGN SUPPORTS, AND BARRICADES AN DETAILED IN THE CHIC MANUAL OF HURDON TEAFTIC CONTROL DENESS: ALL POWARE TRASHED SIGNING, INCLUDING CONSTRUCTION WORK ZONE APPROACH SIGNING AND BARRICADES REQUIRED FOR THIS PROJECT SHALL BE PURPISHED, ERECTED, MAINTAINED AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE ALL ACCEPANCE WITH CONSTRUCTION AND MATERIAL SPECIAL CHINA SIZE
AND OTHER APPLICATE FORTHOOD FOR PERFECTIONISS. AN EVILEAL THE FORD MANING AUTHORISM TRAFFIC CONTROL
DEVICES. PARMINET FOR ALL LABOR EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LIMP SUM CONTRACT PRICE FOR
ITEMS SIZE, AMAINING TRAFFIC, UNDES SPRAREFLY INTEREZE IN THE PLAN.

OVERNIANT TRENCH CLOSING.

TRENCH SEX-MAND AND BASE WIDE HING SHALL BE ONLY ON DINE SIDE OF THE PAMEMENT AT A TIME. THE OPEN TRENCH SHALL

TRENCH SEX-MAND AND BASE WIDE HING SHALL BE ONLY ON DINE SIDE OF THE PAMEMENT AT A TIME. THE OPEN TRENCH SHALL

BASE MATERIAL SHALL SHALL BE ALSO FACIOUSLY AS POSSING SERVING PAMEMENT OF PROPOSED SUBBASE

BASE MATERIAL SHALL PELLOW AS CLOSEN'S AS POSSING SERVING PAMEMENT OPERSTANDS. THE INSERT OF OWN DEPOSING

TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF

THE ENDINEET.

TRENCH FOR WIDENING

TRENUT FOR WIDENING
THEN HEAVENING SHEET S

LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATION

LAW ENDORMENT OFFICE WITH BATROL CARL FOR ASSISTANCE DURING CONSTRUCTION OFFIATOMS

USE OF LAW ENDORMENT OFFICES BUILDING SECURITATIONS OF THE TAILST THE USES EFFICIED SECURITY. IN OT BE
FERNITTED AT PROJECT COST, LEGS SHOULD NOT BE USED WHERE THE QUALITIC INTERNOS THAT PLAGGESS BE USED

IN ADDITION TO THE REQUIREMENTS OF CREAS SHA AND THE OWN OWNER, OF ADDITION THAT PLAGGESS BE USED

WITH TOP ADULINED DIREGISCON, FLASHINGLIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW EMPORCEMENT

ABORDON THE REQUIREMENT OF LOCAUMING TRAFFIC CONTINUE TAILS.

- DURING THE EXTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS

REQUIRED.

DUBNIG A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AS EXERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY ES, D

IN ADDITION TO THE REQUIREMENT OF CEMS 614 AND THE OMUTO, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED TO ATH FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENRICHMENT

FOR LANE COSMESS DURING MINISTRATE CONTINUED, I SEAD OWN PROFINED, SUBSTANTIAL HERTS OF A CLOSURE REVIEW OF THE FINISHESS.

WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS IFOR THE FRIST AND LAST DAY FOR MINISTRATE CONTINUES. SETUP).

USD USF OF MADUR CHARMES IN TRAFFIC CONTROL SETUP).

FOR OPERATION WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET OF THE FOLLOWING CRITERIA.

OF THE FOLLOWING CRITERIA.

OF ON A MULTI-LAND BIOMEDI INTERSTATE, OTHER FREEWAY OR EXPRESSIVALY, AND

AN AUTHORIZED USFED UNIT OF 45 MAY OR REARTER THAT IS IN SIFECT AT THE TIME OF THE OPERATION; AND,

AND OF \$50.00 OR AND OF \$50.00 WITH \$50.00 MINIORS PRECENT TRUCKS!

- 3:1 MAX

.9"\

UTILITY

LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (

WITHOUT POUTME PROTECTION "MEM'S USE OF DRIVES, COMES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FOR CORTIALE BANKERS OF OTHER RIGHD BANKERS ALONG THE WORK AREA. THIS FINALES COSES NOT APY, TO CASSE VIHIED ROTECTION IS REQUIRED. MORE OFFERENDIS ARE REPRESENDED AS VIHIEDUT POOR PROTECTION." FOR WORK ZORE ROCCOMMINISTRUCTURE OF A WORK OFFERENDIS AND TRANSPORT OF THE ROCK OFFERENDIS COMES, DRIVES, ETC), THE DESIGNATION IN AREAS UPON THE TYPE OF DRIVES USED IN THE AREA THAT WORKERS ARE LOCATED.

. THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR

THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE: OR

OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE ENGINEER OF AN OFFICE AT THE ENGINEER.

THE UNFORMED BY AND OFFICE, A PROTO, CAM MAY SELECTE AMONG THE USTED LOCATIONS AS APPROPRIATE AS THE

OPERATIONS PROCEED IN THE LOCALIZED QUALIFINING WORK ASEAS.

IN GREENAL, LESS CHAULDE BY POSTROOM IN PROVINCE OF AND ON THE SAME SIGE AS THE LANS RESTRICTIONS (OR AT THE

POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK

ZOMES

APPRIPAIRT.

THE LOS WORK AT THE DISECTION OF THE CONTRACTOR. THE CONTRACTOR IS SEPONABLE FOR SECLIMING THE ESSWICES OF
THE LOS WORK AT THE DISECTION OF THE CONTRACTOR. THE CONTRACTOR IS SEPONABLE FOR SECLIMING THE ESSWICES OF
THE LOS DITTOR AND PROPERTY AND ADDRESS.

THE LOS WITH THE APPROPRIATE ASSENCES AND COMMUNICATION THE INTENTION OF THE FLASS WITH RESPECT TO DUTIES
OF THE LOS DITTOR OF PLACEMENTS AND LIVED AND ADDRESS.

SINUST AT MAY AND SETTING THE TWO PARTIES.

SENUE REPOUNDED LOS SHAVE SEEN THAND APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE DO
THE ROBORT OF THE CONTRACTOR THE LOS DECISIONS THEY ARE REQUIRED TO MAKE WHILE DO
THE ROBORT OF THE CONTRACTOR TO THE CONTRACTOR TO THE STATE OF THE SHET, IN JOBGE TO ASSENS INTRACTIONS
REGISTED SHEED OF THE STATE OF THE CONTRACTOR OF THE SHET OF THE SHET IN JOBGE TO BE SHET OF THE SHET IN JOBGE TO ASSENS INTRACTIONS
REGISTED TO THE CONTRACTOR OF THE SHET OF THE SHET IN JOBGE TO THE CONTRACTOR AT THE END OF HIS/HEE SHET.

SHEFT. LEGS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TAKES ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOUSELY BASIS UNDER LITEM \$41, LAW EMPOREMENT OFFICES (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING SENSITY DESCRIPTION OF THE PAID CAR SHALL SHAPE BEEN CARRED TO THE GREATER SUMMANY.

ITEM 61, LAW EMPOREMENT OFFICES WITH PATROL CAR FOR ASSISTANCE. HOUSETHE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOWLY THAT REQUIRED WITH LAW REFORCEMENT ASSISTANCE.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR

THROUGHOUTH EQUARATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENGINE THE WRITTEN NOTIFICATION SHALL ENGINE THE REQUIRED THE FRAMES SET FORTH IN THE TRABE BEGIND TO HOME SET FOR THE THE TRAFFIC SET FOR THE THE TRAFFIC STATE OF THE PROJECT SHALL ENGINE THE TRAFFIC STATE OF THE PROJECT SHAFTER FROM THE PROJECT SHAFTER SHAFTER THE PROJECT SHAFTER THE PROJECT SHAFTER SHAFTER SHAFTER SHAFTER THE PROJECT SHAFTER THE PROJE

TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

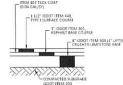
INFORMATION PHYSICAL SETUP OF ANY APPLICABLE AND SHALL UST THE SPECIFIC LOCATION, TYPE OF WORK, SOAD STATUS, DATE AND THAT OF RESTRICTION, DURATION, OF ASSTRICTION, ANDWEST OF A MASS MANTAINED, NUMBER OF ALMSS COLDS, DIMMINION PETROL CLEARANCE, MINIMAL WORLD OF REVEALED ANY APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT OF ANY APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT OF ANY APPLICABLE AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT OF ANY APPLICABLE AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT OF ANY APPLICABLE AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT OF ANY APPLICABLE AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT OF ANY APPLICABLE AND ANY OTHER INFORMATION AND ANY APPLICABLE AND ANY APPLICABLE AND ANY OTHER INFORMATION AND ANY APPLICABLE AND ANY

RAMP & \$2 W ROAD 12 HOL CLOSURES \$12 HC LANE \$2 WE RESTRICTIONS \$2 WE RESTRICTIONS \$1 KAPT OF CONSTRUCTION & ANY INNERSERS CANADAMEES N/A ANY INNERSERS CANADAMEES AND ANY INNERSERS CANADAMES AND ANY INNERSERS CANADAMESTS. 21 WERS 21 WERS 21 CALENDAR DAYS PRIOR TO CLOSURE 12 HOURS 8 < 2 WERS 14 CALENDAR DAYS PRIOR TO CLOSURE 11 CALENDAR DAYS PRIOR TO CLOSURE 21 WERS 14 CALENDAR DAYS PRIOR TO CLOSURE < 2 WERS 5 BUSINESS DAYS PRIOR TO CLOSURE</p>

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE

SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE OWNER. NAVE BEEN INCLUDED FOR USE AS DIRECTED BY THE OWNER FOR DUST CONTROL PURPOSES.

_ITEM 407 TACK COAT (0.04 GAL/SY) _ 1 1/2" ODOT ITEM 448, ASPHALT BASE COURSE B"-ODOT ITEM 304 (4" LIFTS) CRUSHED LIMESTONE BASE



CONCRETE PAVEMENT DETAIL CONCRETE SIDEWALK DETAIL ASPHALT PAVEMENT SECTION FOR DRIVEWAYS FOR DRIVEWAYS

MIN. COVER UTILITY GAS SUMP LINE ELECTRIC TELEPHONE CABLE TV

1 ITEM 448 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (2) ITEM 407 TACK COAT (APPLICATION RATE OF 0.1 GAL./SQ. YD.

(3) ITEM 448 2 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 , PG64-22 (4) ITEM 301 5" ASPHALT BASE

(5) ITEM 304 6" AGGREGATE BASE W/UNDERDRAIN (6) ITEM 609 CLERMONT COUNTY STANDARD ROLL CURB AND GUTTER

11'-8"

(7) ITEM 605 6"SHALLOW PIPE UNDERDRAIN (8) ITEM 608 CONCRETE WALK, 5"THICK, CLASS C CONCRETE

SORREL LANE TYPICAL SECTION

N.T.S.

Utilities Protection 1-800-362-2764

Sheet Title

GENERAL NOTES & TYPICAL SECTIONS

McGill Smith Punshon

Project Manager

Issue/Revision

CLERMONT CO. REV

SPLIT PH. 2A & 2B

ODOT COMMENTS

CLERMONT CO. REV

X-Reffs)

ISSUE

3700 Park 42 Drive

Phone 513 759 0004

18441004-ROAD-EXT

No. Date 04/07/23

11/27/23

12/20/23

01/04/24

01/29/24

01/30/2024

Suite 1908

JMR

DCA

18441.03

LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

Project Number Drawing Scale Sheet Number

AS NOTED 2/12 18441

SENERAL: ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST RULES AND REGULATIONS OF THE CLERMONT COUNTY WATER RESOURCES DEPARTMENT FOUND AT WRD.CLERMONTCOUNTYOHIO.GOV. IT IS THE INTENT OF THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS TO DESCRIBE A COMPLETE FUNCTIONING SYSTEM IN ALL RESPECTS, WHETHER OR NOT EVERY SUB-ELEMENT OF THE TOTAL SYSTEM IS ACTUALLY DEFINED IN WRITING AND/OR DETAIL. PAYMENT TO THE CONTRACTOR(S) SHALL BE INFERRED TO COVER WORK AND MATERIALS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM SUCH THAT WHEN FINAL PAYMENT IS MADE, THE SYSTEM IS COMPLETELY OPERABLE AND FUNCTIONS IN ALL RESPECTS AS REQUIRED BY THE CONTRACT DOCUMENTS.

THE WORK TO BE PERFORMED UNDER THESE SPECIFICATIONS INCLUDES FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE THE WORK CALLED FOR IN THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ELECTRIC, WATER, SANITARY FACILITIES AND WASTE DISPOSAL TO COMPLETE THE WORK.

A SITE VISIT IS HIGHLY RECOMMENDED PRIOR TO SUBMISSION OF BID.

THE EXISTING WATER MAIN IS SHOWN BASED ON FIELD SURVEYS AND THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE LOCATION OF ALL LITUITIES PRIOR TO THE START OF WORK

THE EXISTING WATER MAIN IS TO REMAIN IN SERVICE DURING CONSTRUCTION OF THE NEW

THE PROPOSED WATER MAIN SHALL BE INSTALLED AT A MINIMUM 4' BELOW THE PROPOSED GRADE OR AS DIRECTED BY THE ENGINEER.

CONTRACTOR IS RESPONSIBLE TO PROVIDE SUPPORT TO THE EXISTING UTILITY POLES. AS NECESSARY TO COMPLETE THE WORK CALLED FOR IN THE CONTRACT DRAWINGS AND

PAVEMENT: ALL PAVEMENT AND/ROADWAY SURFACE DISTURBED BY THE CONTRACTOR, SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE AND IN CONFORMANCE WITH THE REGULATIONS OF THE GOVERNING AUTHORITY OF SAID ROADWAYS. IN THE ABSENCE OF SUCH REGULATIONS, THE RESTORATION SHALL BE IN ACCORDANCE WITH INSTRUCTIONS BY THE OWNER'S REPRESENTATIVE WITH THE OBJECTION OF RESTORING THE PAVING OR ROADWAY SURFACE TO THE ORIGINAL CONDITION C

RESTORATION: TEMPORARY RESTORATION AND RESTORATION OUTSIDE OF THE LIMITS OF THIS CONSTRUCTION PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO VIDEO TAPE AND PHOTO GRAPH ALL AREAS THAT WILL BE DISTURBED AS A RESULT OF HIS CONSTRUCTION ACTIVITIES AND WILL DELIVER TO THE OWNER'S REPRESENTATIVE A COPY OF THE VIDEO TAPE AND PHOTOGRAPHS, ALL PICTURES SHALL BE LABELED WITH THE LOCATION WHERE TAKEN. NONCOMPLIANCE MAY RESULT IN THE CONTRACTOR'S LIABILITY FOR ALL DISPUTED PROPERTY RESTORATIONS

EROSION CONTROL: THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO COMPLETE THE WORK AS OUTLINED IN THESE DRAWINGS AND PROJECT SPECIFICATIONS AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. THIS WORK SHALL INCLUDE THE TIME FOLLOWING THE THIRD PARTY RESTORATION, ALL WORK SHALL BE PREFORMED IN ACCORDANCE WITH THE CLERMONT COUNTY WATER MANAGEMENT AND SEDIMENT CONTROL REGULATIONS AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE

THE EXISTENCE, LOCATION, AND CONDITION OF UTILITIES AND STRUCTURES, BOTH ABOVE AND BELOW GROUND, SHALL BE INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK. EXCAVATION IN THE VICINITY OF SUCH UTILITIES AND STRUCTURES, SHALL BE DONE CAREFULLY AND BY HAND IF NECESSARY. THE CONTRACTOR SHALL PROTECT ALL SUCH UTILITIES AND STRUCTURES, BOTH MARKED AND UNMARKED, AND BE HELD RESPONSIBLE FOR DAMAGE TO SAME. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ISOLATE BRACE SUPPORT SHEET, ETC. AND PROTECT THE EXISTING LITHLITIES FROM MOVING FITHER HORIZONTALLY OR VERTICALLY IF SUCH MOVEMENT DOES OCCUR DUE TO THE CONTRACTOR'S OPERATIONS, HE SHALL REPAIR THE UTILITY TO THE SATISFACTION OF THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL OWNERS OF ADJACENT UTILITIES, FIXTURES, AND/OR PROPERTY, OF HIS IMPENDING OPERATIONS, BUT IN NO WAY SHALL SUCH NOTICE RELIEVE THE CONTRACTOR OF HIS LIABILITY FOR DAMAGES TO SAID UTILITIES, FIXTURES, AND/OR PROPERTY. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS IN ADVANCE OF EXCAVATION IN THE VICINITY OF SAID UTILITY. FIELD LOCATION SHALL BE MADE BY THE UTILITY OR ITS AUTHORIZED AGENCY BEFORE ANY WORK IS PERFORMED BY THE CONTRACTOR. IF AT ANYTIME DURING WORK AN EXISTING LITHLITY IS DAMAGED IN ANY WAY THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE APPROPRIATE GOVERNING ENTITY AND THE OWNER'S

SHUT DOWNS AND SCHEDULING.

- 1 WEEK TO PLAN
- 48 HOURS NOTICE TO AFFECTED CUSTOMERS REQUIRED PRIOR TO SHUTDOWNS CONTRACTOR REQUIRED TO DISTRIBUTE THE SHUT DOWN NOTICES PROVIDED BY

TESTING AND DISINFECTION OF WATER MAIN
THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIAL AND
EQUIPMENT NECESSARY TO DISINFECT THE COMPLETE WATER PIPE LINE IN ACCORDANCE WITH AWWA C-651 AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE ALL PIPING AND APPLIETANCES MUST BE PROPERLY DISINEECT WITH A MINIMUM OF 50 ALL PIPING AND APPORTANCES WINST BE PROPERLY DISINFECT. WITH A MINIMUM OF 5 MILLIGRAMS PER LITER TOTAL CHLORINE RESIDUAL FOR 48 HOURS. THE PIPING MUST BE FLUSHED TO REMOVE ANY EXCESS CHLORINE. CHLORINE SOLUTION SHALL BE EVENLY APPLIED AND DISTRIBUTED THROUGHOUT THE PIPING.

A HYDROSTATIC TEST AS REQUIRED IN SECTION 4 OF THE STANDARD AWWA ATTIONS AT THE MALE APPLIED TO INDIVIDUAL VALVED-OFF SECTIONS OF THE MAINS AND FIRE HYDRANT LEADS EITHER BEFORE OR AFTER THE TRENCH IS BACKFILLED. THE PRESSURE DURING THE TEST SHALL BE MAINTAINED AT 200 PSI, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE, IN ANY SECTION BEING TESTED. THE DURATION OF EACH TEST SHALL BE AT LEAST TWO HOURS. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, MAKE ALL TAPS OR CONNECTIONS REQUIRED, AND PROVIDED ANY NECESSARY PIPING AND ALL NECESSARY ASSISTANCE FOR CONDUCTING

THE ONLY EXCLUSION OF TESTING IS TIE IN PIPING LESS THAN 18' IN LENGTH. IN THIS CASE. THE PIPE WILL BE SWABBED OR SPRAY DISINFECTED WITH CHLORIN SOLUTION, IN ACCORDANCE WITH AWWA C-657.

SPECS FOR PIPE, BENDS, VALVES AND APPURTANCES

DUCTUE IRON PIPE SHALL BE DUCTUE. CENTRIFUGALLY CAST TYPE IN ACCORDANCE DUCTIE FROM PIPE SHALL BE DUCTIEE, CENTINICODALET CAST TIPE IN ACCURDANCE WITH ANSI A21.51 (AWWAC-151) UNLESS OTHERWISE NOTED. FOR ALL IN-GROUND INSTALLATIONS THE PRESSURE CLASS SHALL BE CLASS 52, UNLESS A HIGHER CLASS IS REQUIRED BY LAYING CONDITIONS OR PRESSURE IN ACCORDANCE WITH ANSI A21.50 AND APPROVED BY THE OWNER'S REPRESENTATIVE. ALL DUCTILE PIPES SHALL HAVE BITUMINOUS COATED CEMENT LINING COMPLYING WITH AWWA C-104 AND SHALL HAVE AN OUTSIDE COATING OF BITUMASTIC ENAMEL OR APPROVED EQUAL. ALL DUCTILE IRON PIPES SHALL BE PROVIDED WITH EITHER MECHANICAL JOINT ENDS OR PUSH-ON

ALL FITTINGS, WALL PIPES AND SPECIALS SHALL BE OF DUCTILE IRON OR IN ACCRODANCE WITH ANSI A21.10 (AWWA C-153). ALL FITTINGS SHALL HAVE A BITUMINOUS COATED CEMENT LINING COMPLYING WITH AWWA C-104 AND SHALL HAVE AN OUTSIDE COATING COMPLYING WITH AWWA C-153 OR AN EPOXY COATING COMPLYING WITH AWWA C-116. ALL DUCTILE IRON FITTINGS SHALL BE PROVIDED WITH AND ASSEMBLED USING MECHANICAL JOINT ENDS AND RETAINER GLANDS.

CONCRETE THRUST BLOCKING, SUPPORTS AND/OR BUTTRESSES SHALL BE PROVIDED AT ALL TEES AND BENDS AND AT ANY OTHER LOCATIONS REQUIRED BY THE DISTRICT. THESE CONCRETE STRUCTURES SHALL BE BUILT TO THE LINES, GRADES AND DIMENSIONS SHOWN ON THE STANDARD DRAWINGS. CONCRETE USED FOR BLOCKING SHALL CONFORM TO CLASS C CONCRETE, HAVING A COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH. ALL CONCRETE SHALL BE MIXED BY MECHANICAL MEANS PRIOR TO INSTALLATION. THE INSTALLATION OF DRY CONCRETE WILL NOT BE

PIPE IOINTS RESTRAINTS SHALL BE FIELD LOK GASKET, AMERICAN FAST GRIP, OR APPROVED EQUAL AS DETERMINED BY OWNER'S REPRESENTATIVE, EXCEPT AS MODIFIED HEREIN. ALL FIRE HYDRANT LEADS AND FIRE HYDRANT ASSEMBLIES SHALL BE RESTRAINED USING MEGALUG SERIES 1100 MECHANICAL JOINT RESTRAINT OR SIGMA CORPORATION ONE-LOCK SERIES SLDE MECHANICAL JOINT RESTRAINT FOR DUCTILE RON PIPE OR APPROVED EQUAL AS DETERMINED BY OWNER'S REPRESENTATIVE

POLYETHYLENE ENCASEMENT SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5 METHODS A OR B AND THE COUNTY'S SPECIFICATIONS. THE POLYETHYLENE ENCASEMENT SHALL BE A LOW-DENSITY POLYETHYLENE FILM MADE FROM VIRGIN LOW-DENSITY POLYETHYLENE ROW ATERIAL CONFORMING TO ASTM D4976 AND SHALL BE A MINIMUM OF EIGHT MILS IN THICKNESS.

GATE VALVES: ALL GATE VALVES SHALL CONFORM TO AWWA C-509 OR C-515 EX ALL GATE VALVES SHALL CONFORM TO AWWA C-509 OR C-515 EXCEPT WEDGE NON-RISING STEM LEFT HAND OPEN (COUNTER CLOCKWISE) AND SHALL HAVE WEDGE, NOW-RISING STEIN, LET HAND DEFU (COUNTER CLUCKWISE), AND SHALL HAVE RUBBER "O". RING, PACKING SEALS AND MECHANICAL JOINT ENDS WITH A 250 PS PRESSURE RATING, UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. THE INTERNAL VALVE COATING SHALL BE IN ACCORDANCE WITH AWWA-C550. APPROVED MODELS ARE: AMERICAN FLOW CONTROL SERIES 2500, MUELLER 2362, US PIPE A-USP2, M&H 4067, M&H 7000, KENNEDY KS-RW, AND CLOW MODEL 2638.

VALVE BOXES SHALL BE EQUAL TO F-2450 SERIES AS MANUFACTURED BY CLOW CORP OR SIGMA CORPORATION VB261-8. VALVE BOX ASSEMBLY SHALL BE OF CAST IRON WITH STAY PUT COVER AND PROPERLY SIZED BASE FOR THE VALVE BEING FITTED. COVER SHALL BE MARKED "WATER". ALL BOXES SHALL BE FURNISHED WITH THE NECESSARY EXTENSIONS TO BRING THE TOP OF THE BOX TO THE FINISHED GRADE

ALL BUTTERFLY VALVES SHALL CONFORM TO THE AWWA BOTTERFET VALVES: ALL BOTTERFET VALVES SHALL CONFORM TO THE AWWA
STANDARD SPECIFICATION FOR RUBBER SEATED BUTTERFLY VALVES, DESIGNATION AWWA
C-504 OF THE LATEST REVISION EXCEPT AS MODIFIED HEREIN. VALVES SHALL BE
SUITABLE FOR FLOW IN EITHER DIRECTION AND SHALL BE BUBBLE TIGHT IN EITHER
DIRECTION. WAFER VALVES SHALL NOT BE ACCEPTABLE. INTERNAL VALVE COATING SHOULD BE IN ACCORDANCE WITH AWWA-C550. VALVES SHALL BE AWWA CLASS 250B DESIGNED FOR 250 PSI NON-SHOCK SHUT-OFF PRESSURE, VALVES AND APPURTENANCES DESIGNED FOR 25 HOUSE OF THE STATE OF THE ST RUBBER GASKETS, BODIES SHALL BE CAST IRON CONFORMING TO ASTM A126, CLASS B. OR ASTM A48, CLASS 40, OR DUCTILE IRON CONFORMING TO ASTM A536 GRADE 65-45-12. OR 70-50-05. UNLESS OTHERWISE APPROVED, SHAFTS SHALL BE STAINLESS STEEL CONFORMING WITH ASTM A276, TYPE 304, OR ASTM 564, TYPE 630, OR MONEL, TURNED, GROUND AND POLISHED. SHAFTS SHALL BE SECURED TO THE VALVE DISC BY A PROCESS SUCH AS BOLTING, RIVETING, THREADING, UPSETTING, OR CROSS-PINNING, USING CORROSION-RESISTANT METALS, CHEMICAL BONDING, ADHESIVES, OR WELDING SHALL NOT

BE USED.

VALVES SHALL BE DESIGNED TO SEAT AT 90 DEGREES TO THE PIPE AXIS AND SHALL BE VALUES SHALL BE DESIGNED TO SEAT AT 91 DEFENCES TO THE PIPE AND AND SHALL BE CONSTRUCTED OF CORROSION-RESISTANT MATERIALS. SEATS SHALL BE OF A RUBBER COMPOUND COMPLYING WITH THE REQUIREMENTS OF AWWA C-504. RUBBER SEATS SHALL BE ON THE BODY. OPERATORS SUITABLE FOR BURIED AND SUBMERGED SERVICE SHALL BE FURNISHED WITH EACH VALVE.

OPERATORS SHALL BE DESIGNED TO PRODUCE THE SPECIFIED OUTPLIT TOROUG WITH A MAXIMUM OPERATIONS SHALL BE DESIGNED TO PRODUCE THE SPECIFIED OUT POT TORQUE WITH A MAXIMUM INPUT TORQUE OF 150 FOOT-POUNDS APPLIED TO THE OPERATING NUT. OPERATORS SHALL BE TRAVELING NUT TYPE. THE TOTAL NUMBER OF TURNS APPLIED TO THE WRENCH NUT REQUIRED TO COMPLETELY OPEN (CLOSE) THE VALVE FROM COMPLETELY CLOSED (OPEN) POSITION SHALL BE NOT LESS THAN TWICE THE NOMINAL VALVE DIAMETER IN INCHES FOR VALVES LESS THAN 16 INCHES IN DIAMETER AND SHALL BE NOT LESS THAN 30 TURNS FOR 16 INCH AND LARGER VALVES. ALL OPERATORS SHALL BE FOR LEFT-HAND (COUNTER CLOCKWISE) OPENIN

APPROVED BUTTERFLY VALVES ARE: DEZURIK-250B, MUELLER LINESEAL XPII-250B, HENRY PRATT COMPANY-MODEL HP-250II, AND KENNEDY CLASS 250B.

VALVE BOXES SHALL BE EQUAL TO F-2450 SERIES AS MANUFACTURED BY CLOW CORP OR SIGMA CORPORATION VB261-8. VALVE BOX ASSEMBLY SHALL BE OF CAST IRON WITH STAY PUT COVER AND PROPERLY SIZED BASE FOR THE VALVE BEING FITTED. COVER SHALL BE MARKED "WATER". ALL BOXES SHALL BE FURNISHED WITH THE NECESSARY EXTENSIONS TO BRING THE TOP OF THE BOX TO THE FINISHED GRADE.

WATER SERVICE, FITTINGS, AND METER SETTING

DIRECT TAPS ARE TO BE USED FOR $\frac{\pi}{4}$ " CONNECTIONS, TAPPING SADDLES ARE TO BE USED FOR CONNECTIONS LARGER THAT $\frac{\pi}{4}$ ". TAPPING SADDLES SHALL BE MANUFACTURED FOR THE FORD METER BOX COMPANY STYLE 202BS WITH STAINLESS STEEL STRAP AND BRASS BODY WITH CC

CORPORATION STOPS- APPROVED CORPORATION STOPS SHALL BE:

- 3/4" AND 1"- FORD METER BOX COMPANY F1000-3-G-NL 1 为"- FORD METER BOX COMPANY FB1000-6-G-NL
- 2"- FORD METER BOX COMPANY FB1000-7-G-NL

WATER SERVICE LINES, WHICH EXTEND FROM THE WATER MAIN TO 3' BEYOND THE METER, SHALL BE TYPE "K" COPPER CONFORMING TO ASTM B-88 SPECIFICATIONS.

METER BOXES SHALL BE:

- ½" METER- OLD CASTLE HEAVY WALL METER PIT 0020-30 B BODY B-W 2 MSHI 1" METER- OLD CASTLE HEAVY WALL METER PIT 0020-30 BODY B-W 2 MSHI " AND 2"- OLD CASTLE HEAVY WALL METER PIT 0030-30 B BODY B-W 2 MSHI
- ALL METERS USED IN THE CLERMONT COUNTY WATER RESOURCES DEPARTMENT DISTRIBUTION ACCORDING TO THE WATER RESOURCES DEPARTMENT AND INSTALLED
 ACCORDING TO THE WATER RESOURCES DEPARTMENT AND INSTALLED
 ACCORDING TO THE WATER RESOURCES DEPARTMENT STANDARD DRAWINGS. WHERE EXISTING
 WATER SERVICES ARE BEING RELOCATED OR RECONNECTED, THE EXISTING WATER METER CAN BE

ANGLE VALVES FOR RELOCATED \S " X $\frac{3}{4}$ " and 1" water meters shall be in accordance with the following schedule and installed according to the clermont county water resources department standard drawings:

METER SIZE ANGLED CHECK VALVE %" X 3/4" ORD AV94-323-WG-N FORD HA94-323-G-NL OR APPROVED EQUAL FORD AV94-444-WG-NI FORD 194-44-G-NI

THE EXISTING WATER METER, YOKE AND EXPANSION WHEEL ASSEMBLY SHALL BE RE-USED AND RE-INSTALLED BY THE CONTRACTOR.

METER ASSEMBLIES FOR 1 %" AND 2" DOMESTIC METERS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND INSTALLED ACCORDING TO CLERMONT COUNTY WATER RESOURCES DEPARTMENT STANDARD DRAWINGS: 11/2" METERS- FORDVH76-18-11-66-G-NL, 2" METERS- FORD

COMPRESSION FITTINGS USED FOR RELOCATED AND RECONNECTED WATER METERS SHALL BE FORD GRIP JOINT COUPLING (C44-XX-G-NL STYLE), FORD PACK JOINT COUPLING (C44-XX-NL STYLE), OR APPROVED EQUAL.

CONTRACTOR MUST SUBMIT LITERATURE AND/OR CATALOG CUT SHEETS FOR REVIEW AND APPROVAL PRIOR TO ORDERING OF ALL MATERIAL AND FITTINGS TO BE USED ASSOCIATED WITH THE INSTALLATION OF 2" AND SMALLER SIGNLE, DOMESTIC WATER SERVICES.

SUBMIT LITERATURE DETAILING THE CONSTRUCTION METHOD TO BE USED TO PROVIDE TRENCHLESS INSTALLATION OF WATER SERVICES FOR REVIEW AND APPROVAL. TRENCHLESS SERVICE LINE INSTALLATION IS REQUIRED FOR ALL SERVICES CROSSING PUBLIC ROADWAYS.

3700 Park 42 Driv

Project Manage JMR Drawn By 1004-ROAD-EXT X-Ref(s)

Issue/Revision No. Date 04/07/23 ISSUE 11/27/23 CLERMONT CO. REV SPLIT PH. 2A & 2B 12/20/23 01/04/24 ODOT COMMENTS CLERMONT CO. REV 01/29/24

REVISION NO.



LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

Utilities Protection 1-800-362-2764

CLERMONT COUNTY
WATER RESOURCES D
4400 HASKELL LANE
BATAVIA, OHIO 45103

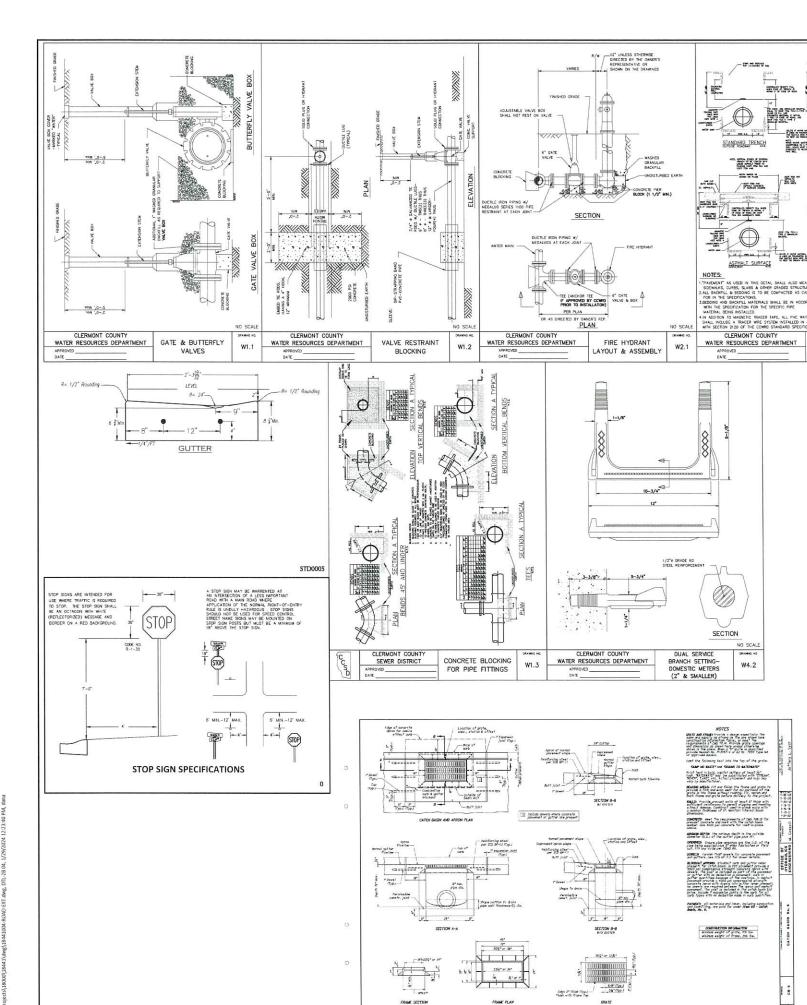
W 1-0

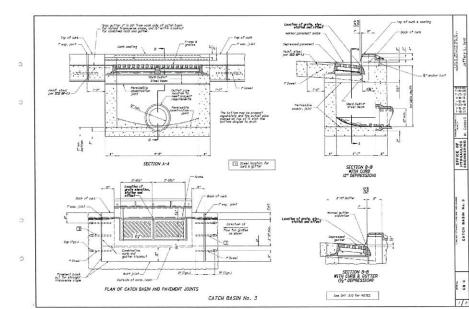
Sheet Title

WATER MAIN NOTES

Project Number 18441.03 Drawing Scale AS NOTED Sheet Number 3/12

18441





LOWERING DETAIL

WATER RESOURCES DEPARTMENT

NOTE DUCTILE ON ALL

W5.2

DE CONC.

MAT IS MADE WITH.

WITE WAS MADE WITHOUT PLANS WITE WAT IN COM-INCOME TO MILES THE

Section 11 and 15 and 1

CONCRETE SURFACE

POOR TO RECOVER WHO THE WAY TH

/75175s.

L. Frank

ASPHALT SURFACE

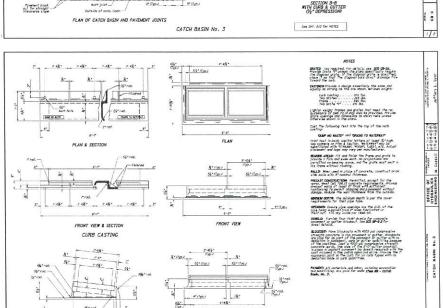
TRENCH SECTION

/ E- W

W5.1

F-0%*

END VIEW FRAME





LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

Suite 1908 Cincinnati OH 45241 Phone 513,759,0004

JMR Project Manager DCA X-Ref(s)

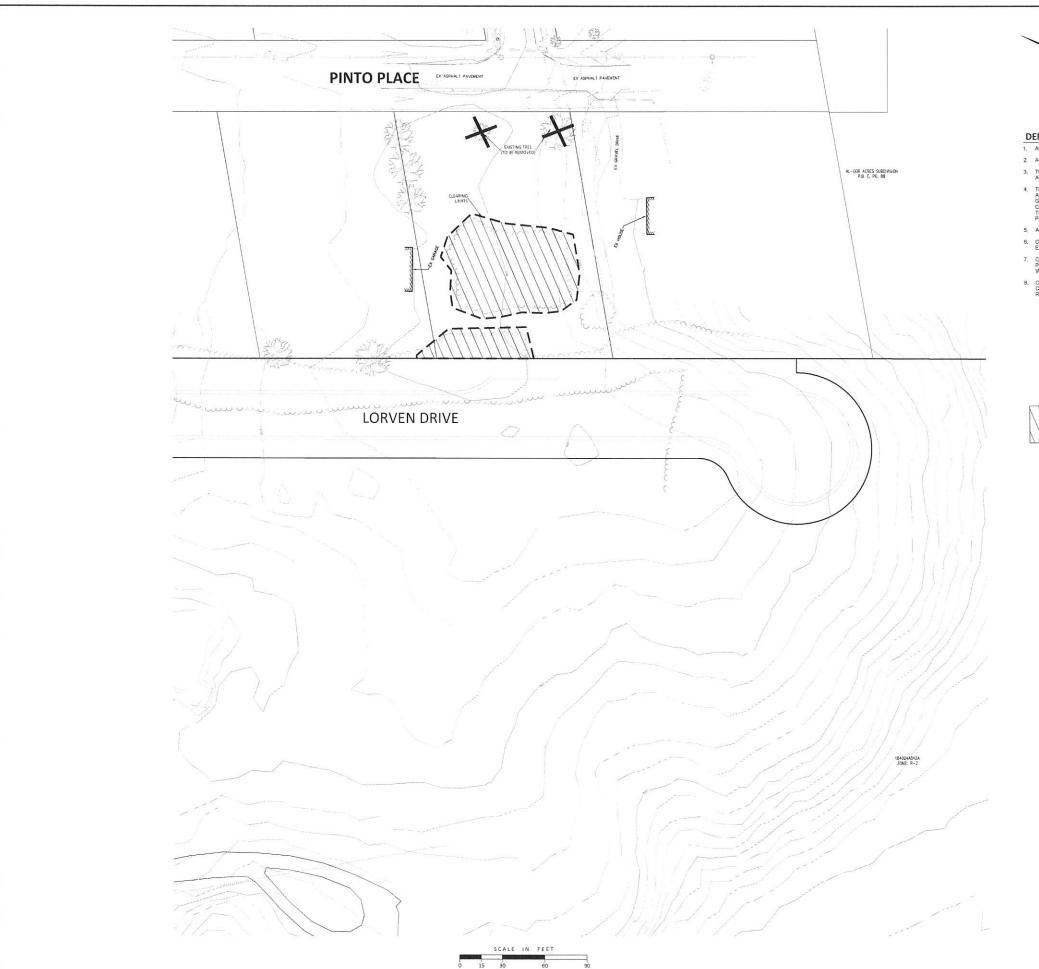
Issue/Revision No. Date 04/07/23 ISSUE 11/27/23 12/20/23 SPLIT PH. 2A & 2B ODOT COMMENTS 01/04/24 CLERMONT CO. REV 01/29/24

01/30/2024

DETAILS 18441.03 AS NOTED

Project Number Drawing Scale Sheet Number 4/12 18441

Sheet Title





DEMOLITION PLAN NOTES

- 1. ALL WORK SHALL COMPLY WITH LOCAL AND STATE CODES AND STANDARDS OF CONSTRUCTION.
- 2. 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.
- 4. 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 TO CONSTRUCTION AREA. EITHER IN SERVICE OR ABBOONED. NOR ISIT GUARANTEED THAT THEY ARE IN THE EXACT LOCATION AS INDICATED. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
- 5. ALL DEBRIS IS TO BE REMOVED AND HAULED OFFSITE.
- CONTRACTOR IS RESPONSIBLE FOR 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.



AREA TO BE CLEARED & GRUBBED 0.88 Ac.



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

Project Manager	JMR
Drawn By	DCA
DWG	18441004-ROAD-EXT
X-Ref(s)	

No.	Date
	04/07/23
	11/27/23
	12/20/23
	01/04/24
	01/29/24



LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

Sheet Title

CLEARING & DEMOLTION PLAN

Project Number Drawing Scale Sheet Number

mber 18441.03 ale AS NOTED mber 5/12

0]ECIS\18000\10441\10WB\18441004-0OAD-EAL.UWB, DENIO-28 US, 1\23\2024-0O5.54 PP

OHIO
Utilities Protection
SERVICE
Call Before You Dig

1-800-362-2764



1-800-362-2764

SCALE IN FEET

Phone 513.759.0004

JMR DCA 18441004-ROAD-EXT Project Manager X-Ref(s)

No. Date Issue/Revision 04/07/23 ISSUE 11/27/23 CLERMONT CO. REV 12/20/23 SPLIT PH. 2A & 2B ODOT COMMENTS 01/04/24 CLERMONT CO. REV 01/29/24



LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

IMPROVEMENT PLAN & PROFILES

Project Number 18441.03 AS NOTED Drawing Scale 6/12 Sheet Number

UTILITY PLAN NOTES

AL-GOR ACRES SUBDIVISION P.B. E, PG. 88

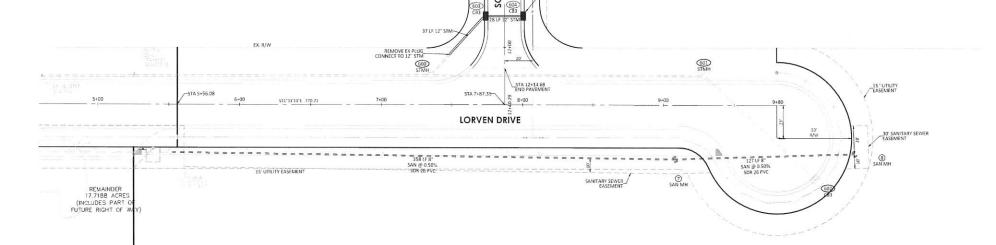
LOCATION OF EXISTING UTILITIES SHOWN HEREON IS APPROXIMATE AND IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. OTHER UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THIS PLAN. THE OWNER AND ENGINEER ASSUMES NO LIABILITY FOR THE LOCATION OF ANY AND ALL UTILITIES WITHIN THE LIMITS OF WORK, ANY DAMAGE MADE TO EXISTING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

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.

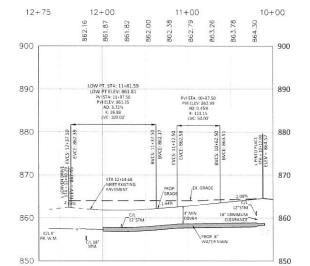
BACKFILL FOR UNDERGROUND UTILITIES AT ROAD CROSSINGS, PARKING AREAS AND WITHIN FIVE (5) FEET OF SIDEWALK OR EDGE OF PAVEMENT TO BE GRANULAR MATERIAL, OR CONTROLLED FILL. ALL OTHER BACKFILL FOR UNDERGROUND UTILITIES TO BE EXCAVATED MATERIAL. WATER MAIN REQUIRES GRANULAR BACKFILL AROUND AND 12" OVER TOP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

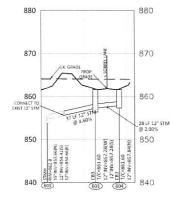


PINTO PLACE

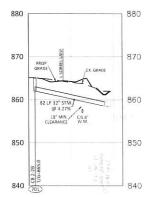
EX. R/W



1"=50' HOR. / 1"=10' VERT. T/C DENOTES TOP OF CURB

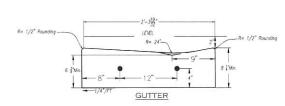


STORM SEWER 600-604



STORM SEWER 701-EX. CB

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



CLERMONT COUNTY STANDARD ROLL CURB AND GUTTER

SORREL DRIVE

18441

GRADING PLAN NOTES

- CUT/FILLS & BULK EARTHWORK FOR THE ROADWAY MUST BE PERFORMED UNDER THE OBSERVATION & GUIDANCE OF A STATE OF OHIO REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER.
- THE CONTRACTOR IS TO CONFIRM ALL EXISTING UTILITY LOCATIONS AND PROTECT THEM FROM DAMAGE. IF DISCREPANCIES EXIST, NOTIFY THE PROPER UTILITY COMPANY OR AGENCY. RELOCATION OF EXISTING UTILITIES WILL BE DONE IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY OR AGENCY RULES AND REGULATIONS.
- A PRE-CONSTRUCTION MEETING IS REQUIRED WITH A REPRESENTATIVE OF THE OWNER/DEVELOPER CLERMONT COUNTY S.W.C.D. AND GENERAL CONTRACTOR.
- 4. ESTABLISH VEGETATION ON ALL BARE AREAS AS PER O.E.P.A., N.P.D.E.S. REGULATIONS
- 5. CONTRACTOR IS RESPONSIBLE FOR N.P.D.E.S. INSPECTIONS DURING CONSTRUCTION.
- EROSION AND SEDIMENT CONTROLS SHALL BE ESTABLISHED AROUND THE PERIMETER OF THE SITE BEFORE ANY EARTH DISTURBING ACTIVITIES HAVE BEGUN. SILT FENCE SHOULD BE USED AS A TEMPORARY MEASURE AGAINST SILT BEING WASHED ONTO THE ADJACENT PROPERTIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ADJACENT PUBLIC ROADS & PRIVATE DRIVES CLEAN AND FREE OF MUD AND DEBRIS.
- RELOCATE AND RE-ESTABLISH CONSTRUCTION ENTRANCE AS NECESSARY TO ACCOMODATE DEMOLITION WORK, BUILDING CONSTRUCTION AND UTILITY CONSTRUCTION.

- 11. ROADWAYS SHALL BE GRADED TO ASSURE POSITIVE FLOW TOWARDS THE STORM SEWER INLETS.
- 12. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS

S.W.P.P.P NOTES

- PROJECT INVOLVES THE CONSTRUCTION OF TWO PUBLIC ROADWA
- AREA TO BE DISTURBED IS APPROXIMATELY 0.38 ACRES.

- THE PREDOMINATE SOIL TYPE IS JONESBORO ROSSMOYNE.

MIAMI TOWNSHIP 6101 MEIJER DRIVE MIAMI TOWNSHIP, OHIO 45150 513-248-3725

SWPPP CONTACT:

- UNLESS OTHERWISE NOTED. STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES "RAINWATER AND LAND DEVELOPMENT MANUAL CURRENT EDITION, SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.
- THE CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS SET FOURTH IN THE OHIO EPA PERMIT NO. CGP OHCOCOCOS SUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY" UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (MPDES).
- PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE.

- PROPER OPERATION AND MAINTENANCE.
 THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND
 SYSTEM OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED
 OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT
 AND WITH THE REQUIREMENTS OF SWIPS, PROPER OPERATION AND MAINTENANCE REVOILIES
 THE OPERATION OF PACKUP OF AUXILIARY FACILITIES OR SIMILAR YSTEMS, INSTALLED BY
 PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE
- 15 THE FOLLOWING ITEMS REQUIRE INSPECTION AT THE FREQUENCY NOTED BELOW:

QUARTERLY MOWING

CONSTRUCTION SEQUENCE

- 4. GRADING OF STREETS

- 8. REMOVAL OF EROSION AND SEDIMENT CONTROLS MEASURES

DUE TO THE DYNAMICS AND STAGING OF EARTH MOVEMENT. CONTRACTOR MAY NEED TO ALTER THE EROSION CONTROL MEASURES AS SHOWN HEREON. CONTRACTOR TO APPLY 18 M.P. JEST MANAGEMENT PRACTICES IN ORDER TO CONTROL THE RUNOFF OF SILT AND SEDIMENT.

ADDITIONAL SILT FENCE MAY BE REQUIRED AS SITE CONDITIONS DETERMINE.

- SHOULD THE FABRIC ON A FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY. THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE PREPARED FOR SEEDING.



1-800-362-2764

Phone 513,759,0004 JMR Project Manager DCA 18441004-ROAD-EXT Issue/Revision No. Date 04/07/23 11/27/23 CLERMONT CO. REV 12/20/23 SPLIT PH. 2A & 2B

01/29/24

X-Ref(s)

ISSUE

ODOT COMMENTS CLERMONT CO. REV



LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY NO. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

Sheet Title

GRADING & S.W.P.P. PLAN

18441.03 Project Number Drawing Scale AS NOTED Sheet Number

7/12

ESTABLISH VEGETATION ON ALL BARE AREAS AS PER O.E.P.A. N.P.D.E.S. REGULATIONS.

CONTRACTOR IS RESPONSIBLE FOR N.P.D.E.S. NSPECTIONS DURING CONSTRUCTION PERIOD.

SORREL LANE

INTERSECTION DETAIL

PINTO PLACE &

INTERSECTION DETAIL

SORREL LANE &

LORVEN DRIVE

10. TEMPORARY EROSION, MUD AND DEBRIS CONTROL USING SILT FENCE MUST BE PROVIDED AT ALL EXISTING AND PROPOSED OUTLET DITCHES SWALES, WATERCOURSES OR TEMPORARY PIPE OUTLETS WITHIN THE SITE LIMITS. EXCESS BUILD UP OF SEDIMENT AND DEBRIS DEPOSITED AT THESE TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED WHEN HALF FULL OF SEDIMENT AND CODING.

UPON COMPLETION OF CONSTRUCTION, REMOVE AND PROPERLY DISPOSE OF ALL EROSION AND SEDIMENT CONTROL BMP'S AND STABILIZE ALL DISTURBED AREAS.

- HORNER RUN IS THE FIRST NAMED STREAM RECEIVING RUNOFF FROM THIS SITE.
- NPDES STORM WATER GENERAL PERMIT NUMBER: TBD

STEVE KELLY

- SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT THE COURSE OF EARTH DISTURBING ACTIVITY. AND SHALL CONTINUE TO FUNCTION UNIT. THE UP SLOPE DEVELOPMENT AREA IS RESTABLISHED. AS CONSTRUCTION PROGRESSES AND THE TOPOGRAPHY IS ALTERED. APPROPRIATE CONTROLS MUST BE CONSTRUCTED OR EXISTING CONTROLS ALTERED TO ADDRESS THE CHANGING DRININGE PATTERNS.
- ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF DEMOLITION AND ARE TO FINAL GRADE AND TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATION ITEM 58, AND IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES STORM WATER GENERAL PERMIT.

SEMI ANNUAL: EROSION ALONG SHORELINE, EMBANKMENT EROSION, SEDIMENT ACCUMULATION, HYDROCARBON BUILD UP

- 6. PLACEMENT OF CURB & PAVEMENT

IF A TEMPORARY STOCKPILE IS CREATED, SILT FENCE SHALL BE PLACED AT THE TOE OF SLOPE

MAINTENANCE OF CONTROLS

18441

vegetation.

2. The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding.

3. Resoil shall be applied where needed to establish vegetation.

SEEDBED PREPARATION

SEEDBED PREPARATION

1. time-Agricultural ground limeston shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lbs./1,000 sq. ft. or 2 tons/ac.

at the rate of 100 lbs.1/1000ig. ft. or 2 tonius.

2. Fertilizer-Fertilizer shall be applied as recommended by a 100 lest. in a series of the series of the

section on dormant seeding.

DORMANT SEEDINGS

1. Seedings shall not be planted from
October 1 through November 20.

During this period the seeds are likely
to germinate, but probably will not be
able to survive the winter.

The following methods may be used for "Dormant Seeding": used for "Dormant Seeding":

*From October 1 through November
20, prepare the seedbed, and the
required amounts of lime and
fertilizer, then mulch and anchor.
After November 20, and before March
5, broadcast the selected seed
mixture, mulch and anchor. Increase
the seeding attes by 50 % for thi
type of seeding.

*From November 20 through March 15, when soil conditions permit, prepare the seedbed, line and fertilize, apply the selected seed misture, mulch and anchor. Increase the seeding rates by 50 % for this type of seeding.

Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.

Where feasible, except when a where leasure, except when a cultipacker type seeder is used, the seedbed should be firmed followin seeding operations with a cultipack roller or light drag. On sloping land seeding operations should be on the

Hydroseeders-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 mattings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.

3. 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.

Wood Cellulose Fiber-Wood cellulose iber binder shall be applied at a net fry weight of 750 lb./ac. The wood cellulose fiber shall be mixed with water and the nixture shall contain a maximum of 50 lbs./100 gal.

1. 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.

	Pe	rmanent Seeding		
4. 10.	5	eeding Rate	122	
Seed Mix	lb./ac. lb./1.000 ft. 2		Notes:	
		General Use		
Creeping Red Fescue Domestic Ryegrass Kentucky Bluegrass	20-40 10-20 10-20	1/2-1 1/4-1/2 1/4-1/2		
Tall Fescue	40	1		
Dwarf Fescue	40	1		
	Steep	Banks or Cut Slopes		
Tall Fescue	40	1		
Crown Vetch Tall Fescue	10 20	1/4 1/2	Do not seed later than Augus	
Flat Pea Tall Fescue	20 20	1/2 1/2	Do not seed later than Augus	
	Road	Ditches and Swales		
Tall Fescue	40	1		
Dwarf Fescue Kentucky Bluegrass	90 5	2 1/4		
		Lawns		
Kentucky Bluegrass Perennial Ryegrass	60 60	1 1/2 1 1/2		
Kentucky Bluegrass Creeping Red Fescue	60 60	1 1/2 1 1/2	For shaded areas	

Permanent Seeding

Mixture	Formula	lb./ac.	lb./1.000 ft. 1	Time	Mowing
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12	Fall, yearly or as needed.	Not closer than 3"
Tall Fescue	10-10-10	500	12		Not closer than 4"
Dwarf Fescue	10-10-10	500	12		Not closer than 2"
Crown Verch Fescue	0-20-20	400	10	Spring, yearly following establish-	Do not mow
Flat Pea Fescue	0-20-20	400	10	ment and every 4-7 yr. thereafter.	Do not mow

Seeding Dates	Species	lb./1.000 ft. 2	Per Ac
March 1 to August 15	Oats Tall Fescus Annual Ryegrass	3 1 1	4 bushel 40 lb. 40 lb.
	Perennial Ryegrass Tall Fescus Annual Ryegrass	1 1 1	40 lb. 40 lb. 40 lb.
August 16 to November 1	Rye Tall Fescus Annual Ryegrass	3 1 1	2 bushel 40 lb. 40 lb.
	Wheat Tall Fescus Annual Ryegrass	3 1 1	2 bushel 40 lb. 40 lb.
	Perennial Ryegrass Tall Fescus Annual Ryegrass	1 1 1	40 lb. 40 lb. 40 lb.

1. Structural erosion and sediment control practices such as disententia and dediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the common properties of properties of the second properties of the

prospecial in the a second in a complex property of the preparation is not possible.

4. Sold Amendments-Applications of temporary registation shall establish may require the use of soil text should be taken on the siste to predict the need for line and fertilizer.

5. Seeding, Method-Seed shall be caken on the siste to predict the need for line and fertilizer.

5. Seeding, Method-Seed shall be ceder, official considerations of the seeder, off

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

10 mil PLASTIC LINING

10

SANOBAG ON THE PLASTIC LINE

NOTES: 1. ACTUAL LAYOUT DETERMINED IN THE FIELD.

THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 32' OF THE TEMPORARY CONCRETE WASHOUT FACILITY

FLACGING ON -J SIDES

SECTION "A-A"

10" MINIMUM 0 0 0

PLAN NOT TO SCALE

TYPE "BELOW" GRADE

* Hydroseeders-If wood cellulo: is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft.

recommendations or wood chips applied at 6 tons/ac.

4. Anchoring Methods:
4. 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.

* Asphalt Emulsion-Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal, /ac.

* Synthetic Binders-Synthetic binder such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equivalent may be used at rates recommended by manufacturer. recommended by manufacturer.

*Wood Cellulose Fiber-Wood celluls
fiber binder shall be applied at a net
dry weight of 750 lb. Jac. The wood
cellulose fiber shall be mixed with
water and the mixture shall
contain a maximum of 50
lbs./100 gal.

4. Anchoring Methods:

CONCRETE: BLACK LETTERS
WASHOUT

B" DMA WIFE

unrotted small-grains traw applied at the rate of 2 tons/ac.or 90 his x/1,000 s. H. (two to three bales). The mulch shall be spread uniformly by hand or mechanically st the sol surface is covered. For uniform distribution of hand-spread mulch, divide area into approximate 1,000 s.d. it. sections and spread ted 45 lb. bales of straw in each section.

* Other-Other acceptable mulches include mulch matting applied according to manufacturer's

6. Culvert-A pipe or culvert : constructed under the entra needed to prevent surface w flowing across the entrance i being directed out onto pave-surfaces.

Inlet Protection in Swales, Ditch Lines or Yard Inlets

Silt Fence

-10" Maximum

FLOW

Seams between section of silt fence shall be overlapped with the end stakes of each section wrapped together before driving into the ground.

ground.

10. Maintenance-Silt tence shall allow runoff to pass only as diffuse flow through the genetatile. If runoff overtops the soll fence, flows under a rander desk, or in any other way the following shall be performed, appropriate J The fayout of the silt fence shall be changed, 2) Accumulated seed dement 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 chart below:

Time frame to apply erosion controls

Nithin two days of reaching final grad-

Within two days of the most recent

disturbance if the area will remain idle for more than 14 days

Within seven days of the most recent

days prior to transfer of permit coverage for the individual lot(s).

disturbance within the area For residential subdivisions, disturbe

Within seven days of the most recent

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

Table 1: Permanent Stabilization

Table 2: Temporary Stabilization

Area requiring permanent stabilization
Time frame to apply erosion controls

RUNGEF CONTROL PRACTICES. THE PROJECT SHALL INCORPORATE MEASURES WHICH CONTROL THE FLOW OF HUMBER FROM DISTURBED ARES AS OA TO PREVENT EROSION PRAINS. OWNERSIONS TO DIRECT FLOW AWAY FROM EXPOSED SOLIS AND PROTECTIVE GRADING PRACTICES. THESE PRACTICES SHALL DIVERT RUNGEF AWAY FROM DISTURBED AREAS AND STEPS SLOPE SHALL DIVERT RUNGEF AWAY FROM DISTURBED AREAS AND STEPS SLOPES WHERE PRACTICES.

Area requiring permanent stabilization

Any areas that will lie dormant for one year or more

water of the State and at final grade

Any other areas at final grade

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

ELEVATION

Silt Fence

SECTION

before upslope land disturbance begins.

2. All silf 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 wales or depressions, which may carry small concentrated flows to the stilf fence, are dissipated along its length.

3. To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.

4. Where possible, silt fence shall be placed on the flattest area available.

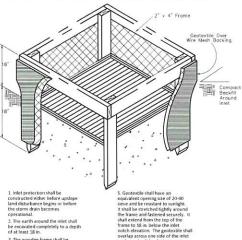
5. Where possible, vegetation shall be preserved for 5 ft. (or as much as possible) upslope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.

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.

on an ouequatery uniform trench depth.

8. The silt fence shall be placed with the stakes on the downslope side of the geotextile and so that 8-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.



5. 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 estend from the top of the frame to 18 in below the inflet man to 18 in below the inflet shall overlap a stretched to the shall overlap and the shall over

of at least 18 in.

3. The wooden frame shall be
constructed of 20 by-4 in.
construction goale launer. The
construction goale launer. The
construction goale launer. The
into the ground at four corners
of the laid and the launer of the launer
of the laid and the launer of the launer
of the launer of the launer of the launer
of the launer of the launer
of the launer of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer
of the launer Backfill shall be placed around the inlet in compacted 6-in. layers until the earth is even with notch elevation on ends and top elevatio on sides.

Specifications for Construction Entrance ond Not Less Than Wath of / [PLAN VIEW Rood or Other Existin lvert as Needed PROFILE

 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 apples). 3. 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.

5. 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 190 lbs.

7. Water Bar-A water bar shall be constructed as part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces.

EROSION AND SEDIMENT CONTROL MAINTENANCE NOTES 1. EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE MAINTAINED AS FOLLOWS:

A. INSPECTIONS. THE PERMITTEE SHALL ASSIGN "QUALIFIED INSPECTION PERSONNEL" TO CONDUCT INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND TO EVALULATE WHETHER THE SUPPLIE ADDITONAL AND PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE PROPOSED IN PART III.G. 1. GO THIS PERMIT OR WHETHER ADDITIONAL CONTROL MEASURES ARE FEQUIRED. AT A MINIMUM. PROCEDURES IN A SWP3 SHALL PROVIDE THAT ALL CONTROLS ON THE SITE ARE INSPECTED.

ONCE EVERY SEVEN CALENDAR DAYS.

B. 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 FROZEM).

C. THE BEGINNING AND ENDING DATES OF ANY REDUCED INSPECTION FREQUENCY SHALL BE DOCUMENTED IN THE SWP3.

D. ONCE A DEFINABLE AREA HAS ACHIEVED FINAL STABILIZATION, THE AREA MAY BE MARKEO 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:

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;

LOCATIONS, WHERE ADDITIONAL BIMPS 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.

E. 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. ERSOIN AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THOSE ARE OPERATING CORRECTLY JOISCHARGE 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.

F. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED EROSION CONTROL BARRIERS END RUNS. AND THE UNDERCUTTING OF BARRIERS BY RUNOFF.

G. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION HAS REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

H. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT CONTROL BARRIER IS NOT LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE APPROPRIATE GRADE ELEVATION, PREPARED AND SECEED.

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 RESULT'S OF THE INSPECTION, NAMES(S) AND QUALIFICATIONS OF PERSONNEL MAXING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OSBERVATIONS 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. WITH THE EXCEPTION OF A SCHIMENT SETLING POND. IT SHALL BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETLING 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 PERFORMITS 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 CONTRINED IN PART III. I.T OF THIS PERMIT. THE CONTROL PRACTICE SHALL BE IMPLEMENTED WITHIN 10 DAY'S FROM THE DATE OF THE INSPECTION. THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED. THE RECORD SHALL CONTRIN 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 REGRANDIG DISCHARGES OF STORM WATER FROM CONSTRUCTION ACTIVITIES, ALL EROSION AND SEDIMENT CONTROL, PLANS, AND STORM WATER

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 NOTFORM. MICORPORATED BY REFERENCE AND STORM SUBMITTAL OF A NOTFORM. MICORPORATED BY REFERENCE AND STORM SUBMITTAL OF A NOTFORM. MICORPORATED BY REFERENCE AND STORM SUBMITTAL OF A NOTFORM S

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 NO SEMIMENT CONTROL PRACTICES CONTAINED IN THIS PERMIT WILL RESULT IN NO REMIT OWNERS AND SET OF THE 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 DENNED ON A CASE-BY-CASE BASIS.

■ Engineering Suite 190B Cincinnati OH 4524

Phone 513,759,0004

JMR Project Manager Drawn By DCA X-Ref(s)

Issue/Revision	No.	Date
ISSUE		04/07/2
CLERMONT CO. REV		11/27/2
SPLIT PH. 2A & 2B		12/20/2
ODOT COMMENTS		01/04/2
CLERMONT CO. REV		01/29/24



LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

Sheet Title

S.W.P.P.P. NOTES & DETAILS Project Number 18441.03

AS NOTED Drawing Scale Sheet Number 8/12

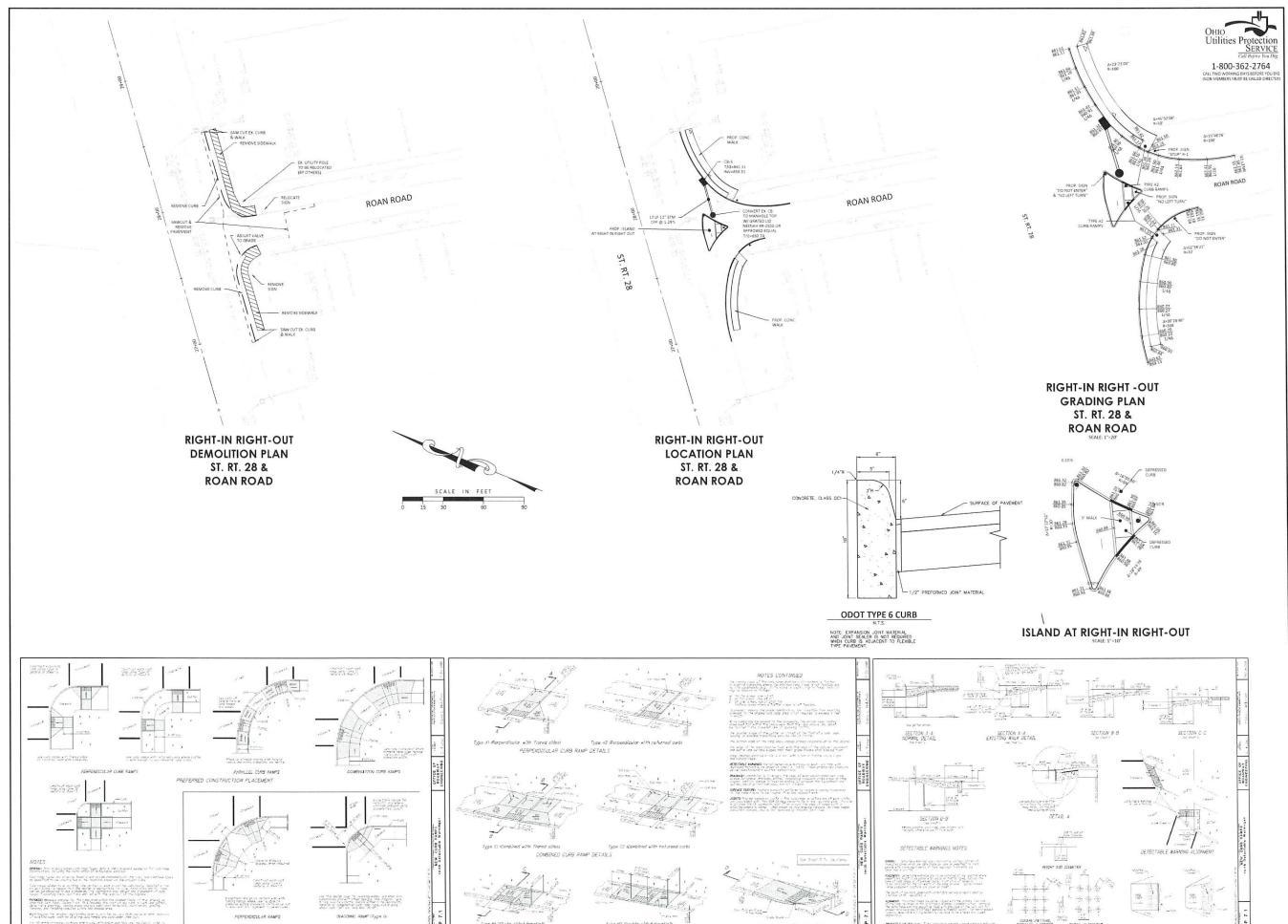
18441

Utilities Pro SERVICE

1-800-362-2764

CONCRETE WASHOUT DETAIL

OHIO



PARALLEL CUPB RAMP DETAILS

MSP DESIGN McGill Smith Punshon

Architecture 3700 Park 42 I
 Engineering Suite
 Landscape Architecture Cincinnatul 4
 Planning Phone 513.759.
 Surveying www.mspdesign

Project Manager JMR
Drawn By DCA
DWG 18441004-ROAD-EXT
X-Ref(s) ---

01/30/2024

LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

heet Title

RIGHT IN RIGHT OUT

Project Number 18441.03
Drawing Scale AS NOTED
Sheet Number 9/12
File Number 18441



1	■ Architecture	3700 Park 42 D
1	■ Engineering	Suite 1
1	■ Landscape Architecture	Cincinnati OH 45
1	■ Planning	Phone 513,759.0
1	■ Surveying	www.mspdesign.

Project Manager	JN
Drawn By	DO
DWG	18441004-ROAD-E
X-Ref(s)	

Issue/Revision	No.	Date
ISSUE		04/07/2
CLERMONT CO. REV		11/27/2
SPLIT PH. 2A & 2B		12/20/2
ODOT COMMENTS		01/04/2
CLERMONT CO. REV		01/29/2

Copyright 2024, McGILL SMITH PUNSHI



LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

OHIO
Utilities Protection
SERVICE

TRAFFIC CONTROL PLAN

Sheet Title

Project Number 18441.03
Drawing Scale AS NOTED
Sheet Number 10/12
File Number 18441

Call Before You Dig

1-800-362-2764

CALL TWO WORKING DAYS BEFORE YOU DIG
(NOM MEMBERS MUST BE CALLED DIRECTLY)



3700 Park 42 Drive Suite 1908 Cincinnati OH 45241 Phone 513.759.0004 www.mspdesign.com

JMR DCA 18441004-ROAD-EXT Project Manager Drawn By DWG X-Ref(s)

Issue/Revision	No.	Date
ISSUE		04/07/2
CLERMONT CO. REV		11/27/2
SPLIT PH. 2A & 2B		12/20/2
ODOT COMMENTS		01/04/2
CLERMONT CO. REV		01/29/24



01/30/2024

LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

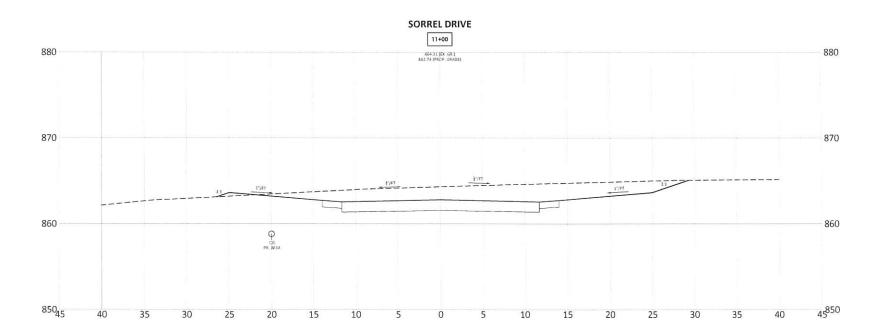
Sheet Title

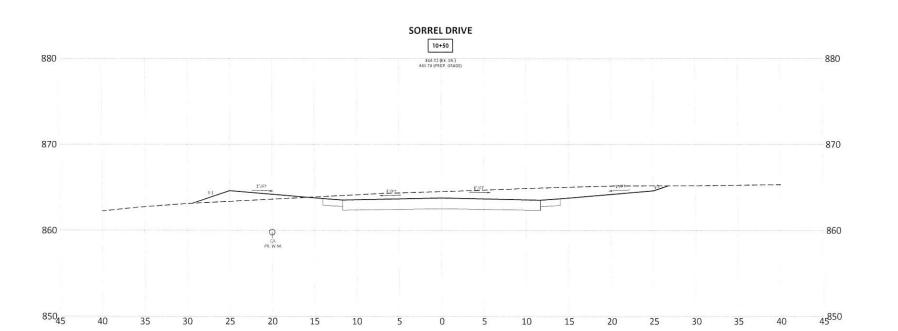
CROSS SECTIONS

Project Number AS NOTED Drawing Scale 11/12 Sheet Number 18441

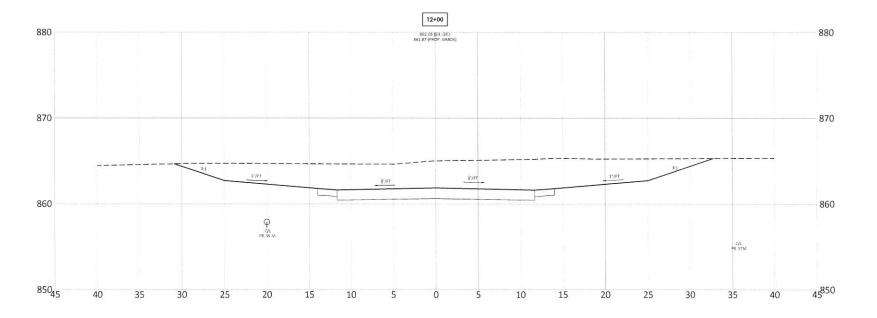
SERVICE Call Before You Dig 1-800-362-2764

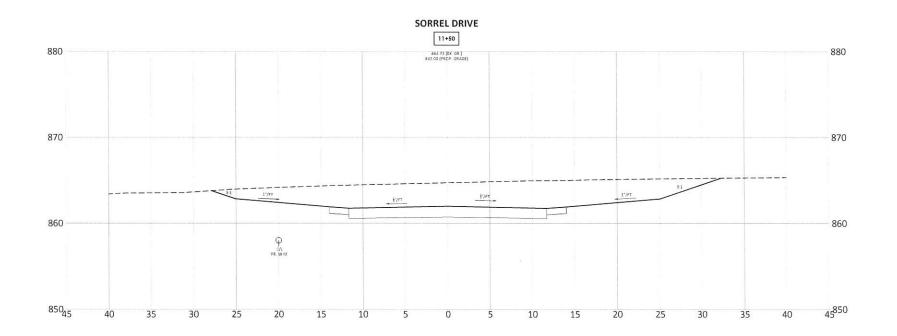
SCALE IN FEET





SORREL DRIVE





3700 Park 42 Drive Suite 1908 Cincinnati OH 45241 Phone 513.759.0004 www.mspdesign.com

JMR DCA 18441004-ROAD-EXT

No. Date

04/07/23

11/27/23 12/20/23

01/04/24

01/29/24

01/30/2024

Project Manager Drawn By DWG X-Ref(s)

Issue/Revision

SPLIT PH. 2A & 2B ODOT COMMENTS

CLERMONT CO. REV

ISSUE

LORVEN DRIVE - PHASE 2B SORREL LANE EXTENSION & SR-28 INTERSECTION JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

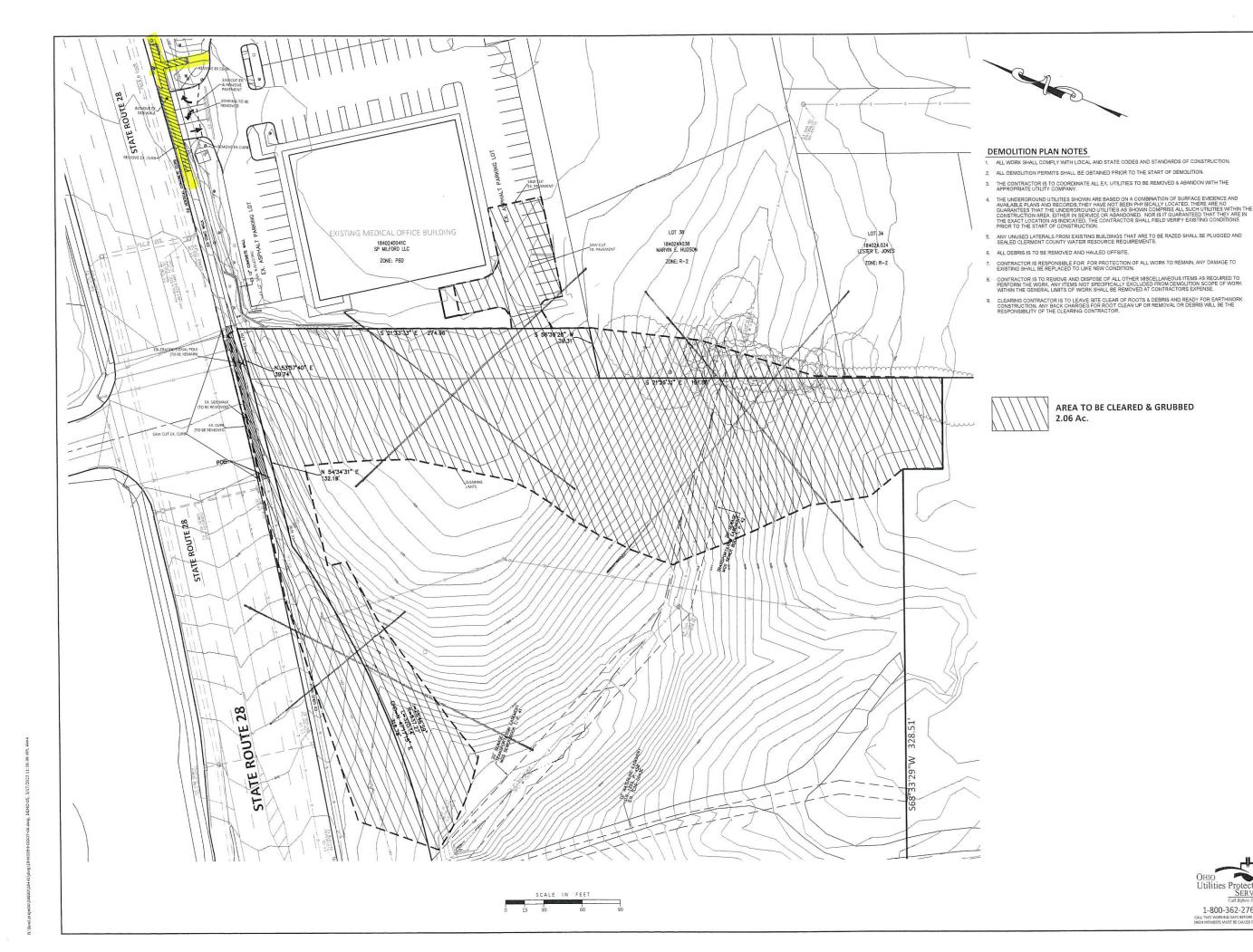
1-800-362-2764

SCALE IN FEET

CROSS SECTIONS 18441.03

Project Number AS NOTED Drawing Scale 12/12 18441

Sheet Number





3700 Park 42 Drive Suite 1908 Cincinnati OH 45241 Phone 513.759.0004 www.mspdesign.com

Project Manager JMR DCA Drawn By DWG X-Ref(s)

No. Date Issue/Revision 09/24/22 ISSUE ODOT COMMENTS REVISED 12/16/22 02/10/23

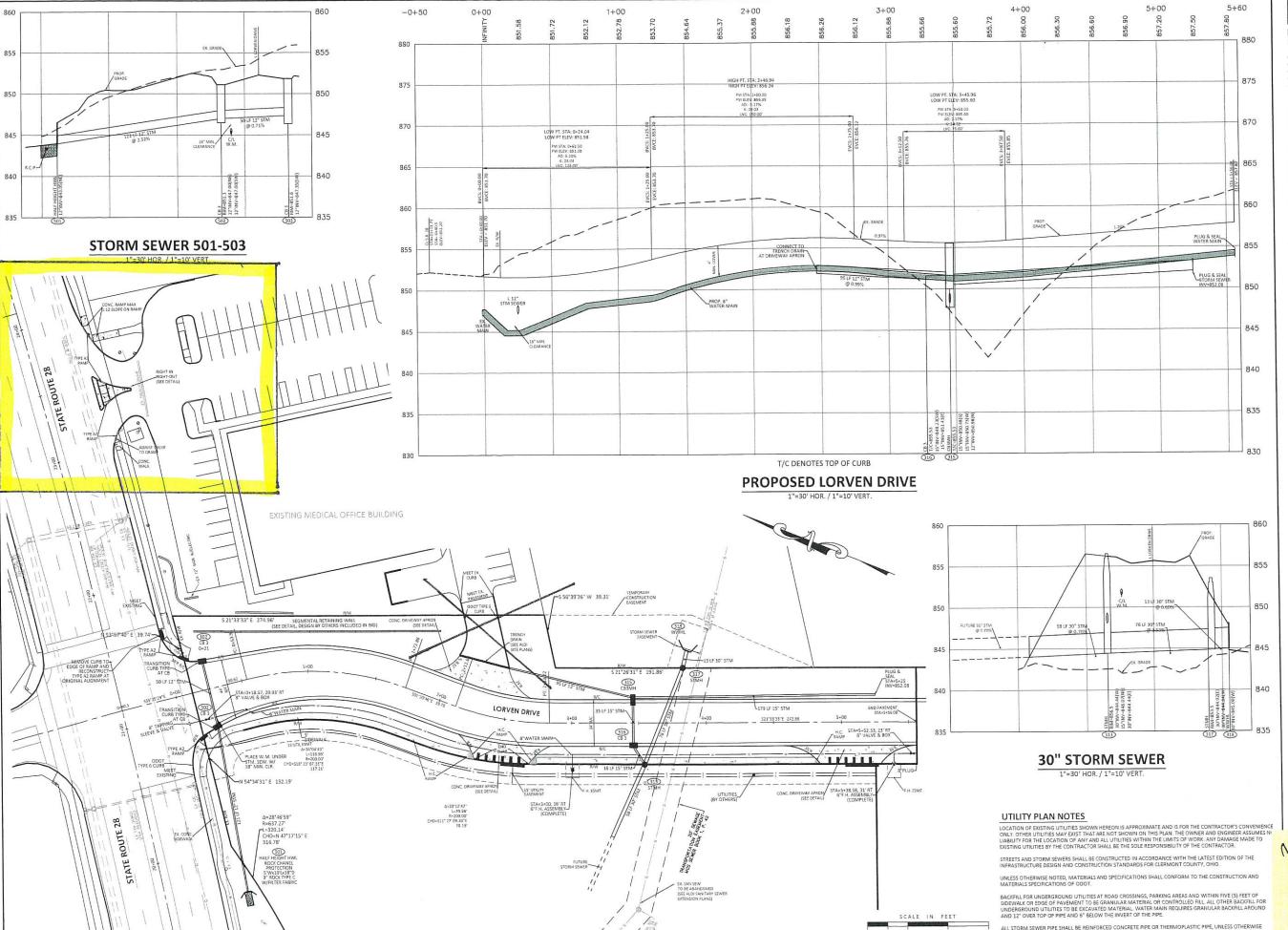
LORVEN DRIVE PUBLIC ROADWAY IMPROVEMENTS JONES MILITARY SURVEY No. 991 MIAMI TOWNSHIP CLERMONT COUNTY, OHIO

1-800-362-2764

Sheet Title

CLEARING & DEMOLTION PLAN

Project Number 18441.00 Drawing Scale AS NOTED Sheet Number 5/23 18441





Architecture 3700 Park 42 Drive
 Engineering Suite 1908
 Landscape Architecture Planning Phone 513.759.0004
 Surpaying Sway myndiging.cm

 Project Manager
 JMR

 Drawn By
 DCA

 DWG
 18441054-0D0T-00

 X-Ref(s)
 --

ssue/Revision	No.	Date
SSUE		09/24/2
ODOT COMMENTS		12/16/2
REVISED INTERSECTION		02/10/2
ODOT COMMENTS		04/06/2
		-
	-	-
	-	-
		-

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

OHIO
Utilities Protectio
SERVIC
SERVIC
1-800-362-760

MEDICAL OFFICE RIGHTIN RIGHT OUT



