

ALDI STORE #76

CITY OF MASSILLON, OHIO ERIE STREET SOUTH

OWNER

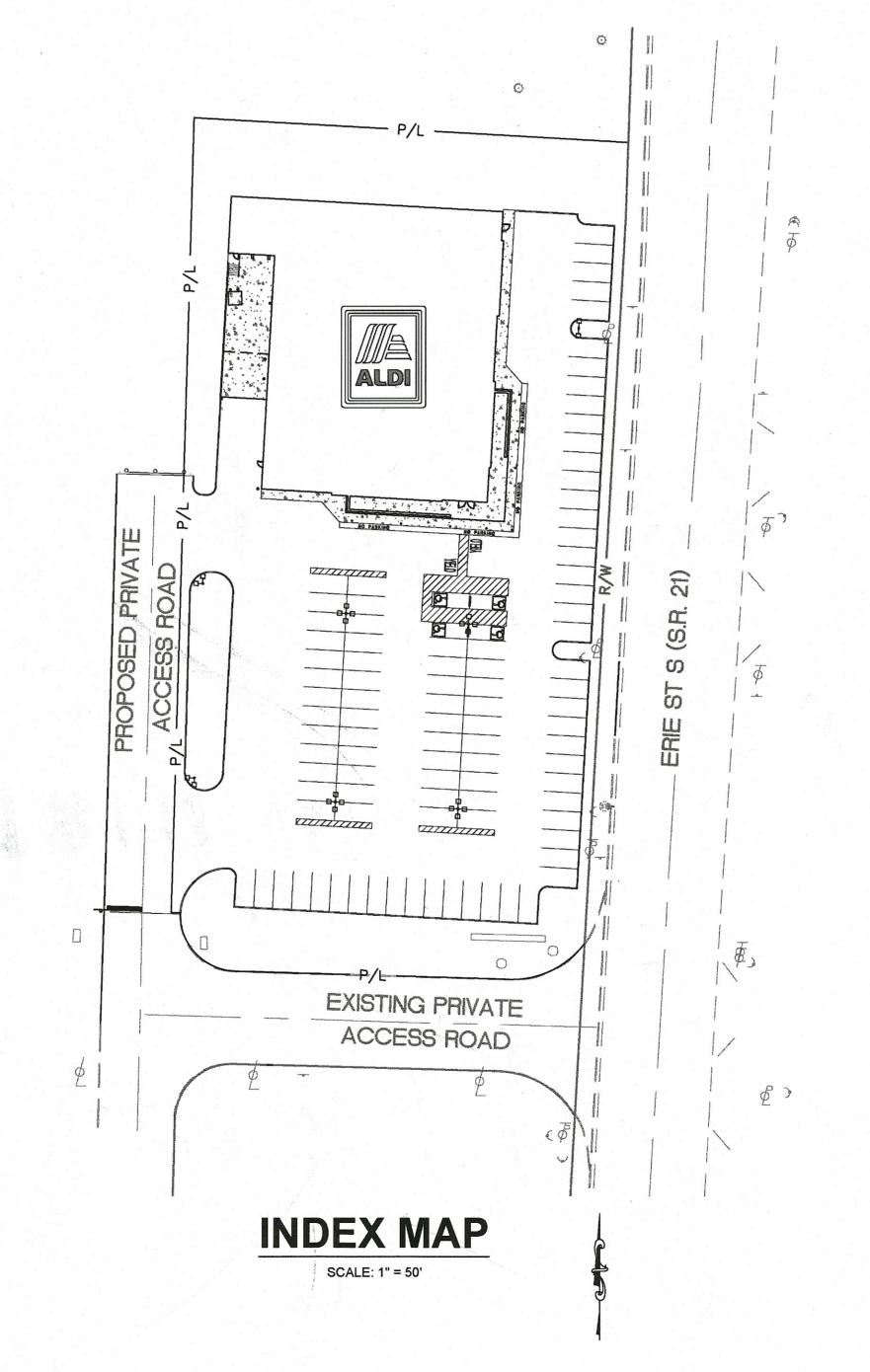
ALDI, INC. 1319 W 130TH STREET HINCKLEY, OHIO 44233 PHONE: (330) 273-7351 CONTACT: KEVIN MCCLURE EMAIL: kevin.mcclure@aldi.us

ENGINEER

ms consultants, inc. 2221 SCHROCK ROAD COLUMBUS, OHIO 43229 PHONE: (614) 898-7100 CONTACT: IAN AULTMAN EMAIL: iaultman@msconsultants.com

SURVEYOR

ms consultants, inc. 2221 SCHROCK ROAD COLUMBUS, OHIO 43229 PHONE: (614) 898-7100 CONTACT: CHAD SNOW EMAIL: csnow@msconsultants.com



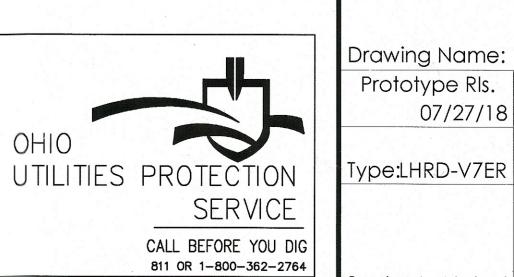
OVER SHEET	C-101
SENERAL NOTES	C-102
SITE SURVEY	1 OF 1
EMOLITION PLAN & PHASE I SWPPP	C-104
SITE PLAN	C-105
SITE DETAILS	C-106
SITE DETAILS	C-107
GRADING PLAN	C-108
ITILITY PLAN	C-109
ITILITY DETAILS	C-110
ITILITY DETAILS	C-111
ITILITY DETAILS	C-112
WPPP	C-113
WPPP NOTES & DETAILS	C-114
SWPPP NOTES & DETAILS	C-115
CCESS ROAD - PLAN AND PROFILE	C-116
TORM DRAINAGE - PLAN AND PROFILE	C-117
HOTOMETRIC PLAN	1 OF 1

CITY OF MASSILLON APPROVAL

THIS 15T DAY OF FEBRUARY , 20 19 ONLY APPROVED PLANS SIGNED BY THE CITY ENGINEER ARE TO BE USED FOR CONSTRUCTION.

JASON M. POPIEL, P.E.

PLANS APPROVED BY STARK SOIL AND WATER CONSERVATION DISTRICT PER LETTER DATED 29 OF OCT. , 20 18.



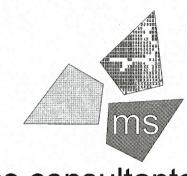
Revisions:	Do
그리네 마르네는 테마테이 (1855년 1952년 네. 그리네 1865년) 1887	

Date:

08/31/18

Issued:

Client Review Se

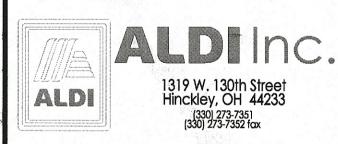


ms consultants, inc. engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY: KEA REVIEWED BY:



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDI Inc. Store #: 76 Massillon, OH Erie Street South Massillon, Ohio 44646

Stark County Project Name & Location:

Cover Sheet

Drawing Name: Prototype Rls. 07/27/18

Scale: As Noted Drawing No.

Project No.

40192-93

C-101

GENERAL

OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2016, SHALL GOVERN THIS PROJECT UNLESS OTHERWISE SPECIFIED. ODOT SPECIFICATIONS SHALL ONLY BE USED AS A GUIDE FOR MATERIAL & INSTALLATION METHODS AND SHALL NOT BE UTILIZED FOR PAYMENT AND/OR PRICE ESCALATION PROCEDURES. ALL LABOR & MATERIALS WILL BE PAID AT CONTRACTOR'S BID PRICE. NO PRICE ESCALATION WILL BE CONSIDERED.

BUILDERS AND CONTRACTORS MUST HOLD TO ELEVATIONS ESTABLISHED BY ENGINEERS.

ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER SHALL NOT BE CONNECTED TO THE SANITARY LATERAL.

STANDARD MANHOLE AND CATCH BASIN HEAVY DUTY FRAME AND COVER SHALL BE USED ON ALL MANHOLES UNLESS OTHERWISE SHOWN ON PLANS.

PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS REPORT AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION/PROJECT MANAGER OF ANY DISCREPANCY BETWEEN SOILS REPORT AND PLANS. ETC.

THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS.. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.

ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON SURVEY OR AVAILABLE RECORD INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.

ALL WORK WITHIN THE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION AND SPECIFICATIONS.

CONTRACTOR SHALL COORDINATE ANY MAINTENANCE OF TRAFFIC WITH THE OWNER'S REPRESENTATIVE AND THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL AT ALL TIMES INSURE THAT SWPPP MEASURES PROTECTING EXISTING DRAINAGE FACILITIES BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE CONSTRUCTION OR LAND ALTERATION. (SEE STORM WATER POLLUTION PREVENTION PLAN NOTES AND DETAILS).

GEOMETRIC POINTS AND COORDINATES FOR BUILDING CORNERS ARE PROVIDED TO CONTRACTOR. VERIFY AND NOTIFY ENGINEER PRIOR TO BEGINNING CONSTRUCTION IF DISCREPANCY IS FOUND.

UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN THE PAVED AREAS PRIOR TO REMOVAL OF TEMPORARY SEDIMENT CONTROLS, AS DIRECTED BY THE CITY AND/OR CONSTRUCTION/PROJECT MANAGER. IF POWER WASHING IS USED, NO SEDIMENT LADEN WATER SHALL BE WASHED INTO THE STORM SYSTEM, ALL SEDIMENT LADEN MATERIAL ON PAVEMENT OR WITHIN THE STORM SYSTEM SHALL BE COLLECTED AND REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL EXPLORATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS, NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLAN AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING AS REQUIRED ABOVE, OF SUCH DIFFERING CONDITIONS.

NO RECYCLED MATERIAL SHALL BE PERMITTED UNLESS OTHERWISE AUTHORIZED. GRANULATED SLAG (GS) SHALL NOT BE PERMITTED.

SEEDING AND MULCHING

THE AREAS TO BE SEEDED SHALL INCLUDE ALL AREAS WITHIN THE WORK LIMITS AND AS DESCRIBED ON THE PLANS. ALL AREAS OUTSIDE OF THE SPECIFIED LIMITS WHERE THE VEGETATIVE GROWTH THAT HAVE BEEN INJURIOUSLY DISTURBED OR DESTROYED BY THE CONTRACTOR INCLUDING THOSE AREAS PREVIOUSLY DEFINED SHALL BE RESTORED AND SEEDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

PERMITS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS NECESSARY TO PERFORM ALL WORK WITHIN AND/OR ADJACENT TO THE RIGHT-OF-WAY OF ALL ROADS AND HIGHWAYS. ALL FEES, BONDS, INSURANCES AND ANY OTHER COSTS REQUIRED BY THE OWNER OF SAID ROADS AND HIGHWAYS SHALL BE PROVIDED BY THE CONTRACTOR COST OF SECURING PERMITS, FEES, BONDS, INSURANCES, ETC., SHALL BE INCLUDED IN THE PRICE FOR THE PERTINENT WORK.

WATER CONTROL

THE CONTRACTOR IS REQUIRED TO AND IS RESPONSIBLE FOR CONTROL OF GROUNDWATER WITHIN ANY EXCAVATIONS TO A MINIMUM OF TWO (2) FEET BELOW THE BOTTOM OF EXCAVATION FOR THE REQUIRED IMPROVEMENTS. ALL IMPROVEMENTS ARE TO BE CONSTRUCTED IN A DRY TRENCH OR EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE MADE FOR DEWATERING.

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ALL SURFACE RUNOFF AND DIVERTING FROM ANY OPEN EXCAVATIONS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR DAMAGES OR REQUIRED REWORK RESULTING FROM SURFACE WATER ENTERING EXCAVATIONS.

UTILITIES

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM SURVEY AND AVAILABLE RECORD INFORMATION.

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

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY-EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY ARE INSTALLED. THE MARKING OR LOCATION SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

COMPACTION AND PROOFROLLING

UNLESS OTHERWISE STATED IN THE GEOTECHNICAL REPORT

ALL AREAS RECEIVING NEW FILL, AND ALL AREAS AT GRADE TO RECEIVE PAVEMENTS AND FLOOR SLABS, SHALL BE COMPACTED IN THE UPPER 12 INCHES OF EXPOSED SUBGRADE TO A MINIMUM 98 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE IN ACCORDANCE WITH ASTM D-698 (STANDARD) WITHIN +/-2 PERCENT OF OPTIMUM MOISTURE CONTENT, AND PROOFROLLED. AREAS TO BE CUT SHOULD BE CUT TO THEIR FINAL GRADE PRIOR TO COMPACTING AND PROOFROLLING.

PROOFROLLING SHALL BE PERFORMED USING RUBBER-TIRED EQUIPMENT WEIGHING A MINIMUM OF 20 TONS, AND MUST BE OBSERVED BY THE ENGINEER.

RESTORATION OF EXISTING FACILITIES

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, AND MACHINES NEEDED AND NECESSARY TO REPAIR AND RECONSTRUCT TO THEIR ORIGINAL CONDITION OR BETTER MEDIANS, RETAINING WALLS, BRIDGES IN PART, SIDEWALKS, CURBS, CATCH BASINS, FENCES, STORM SEWERS, WATER LINES, VALVES, HYDRANTS, GAS LINES, WATER SERVICE LINES, GAS SERVICE LINES, EXISTING MANHOLES, TREES, SHRUBS, (TREES TO BE REPLACED SHALL BE 3" CALIPER MEASUREMENT AND SHALL BE REPLACED IN KIND) AND ANY OTHER STRUCTURES WHICH HAVE BEEN REMOVED, RELOCATED, AND/OR DISTURBED IN PART OR BEEN REMOVED. RELOCATED, AND/OR DISTURBED IN PART OR WHOLE AS THE RESULT OF THE FACILITIES AND APPURTENANCE THERETO. THE WORK SHALL ALSO INCLUDE THE REMOVAL AND DISPOSAL OF EXCESS MATERIALS RESULTING FROM REPAIR, RECONSTRUCTION AND RESTORATION. LIGHTS, SIGNS AND BARRICADES SHALL BE PROVIDED AND TRAFFIC MAINTAINED PER ALL FEDERAL, STATE AND LOCAL REGULATIONS.

REVIEW OF DRAINAGE AND UTILITY FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER AND CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING UTILITIES WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK, RECORDS OF INSPECTIONS SHALL BE KEPT IN WRITING BY THE ENGINEER.

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

ALL EXISTING UTILITIES INSPECTED 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 CONTRACTORS OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

THE CONTRACTOR SHALL CONDUCT HIS OPERATION SO AS TO MAINTAIN AT ALL TIMES FLOWS THROUGH EXISTING FACILITIES TO REMAIN IN PLACE AND THROUGH EXISTING UTILITIES TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED AND PLACED INTO USE.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS NOT TO DISRUPT SEWER OR WATER FLOWS THROUGH EXISTING FACILITIES. SHOULD ANY EXISTING FACILITY REQUIRE BEING MOVED, REPLACED. RELOCATED, OR BE ALTERED AS TO LINE OR GRADE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FOR CONTINUOUS. UNINTERRUPTED USE OF SAID FACILITY WITH THE COST OF SAID PROVISION BEING INCLUDED IN THE PRICE BID FOR PIPE, UNLESS SPECIFICALLY ITEMIZED AND PROVIDED FOR IN THE PROPOSAL.

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

THE REMOVAL AND REPLACEMENT OF ALL EXISTING PIPE DRAINS WHICH WOULD NORMALLY BE REMOVED IN VARIOUS EXCAVATION ITEMS SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR THE RESPECTIVE ITEMS, UNLESS OTHERWISE ITEMIZED IN THE PLANS.

THE UPSTREAM ENDS OF ALL PIPE INTERCEPTED BY EARTHWORK OPERATIONS (AND WHERE INDICATED, THE END OF THE PIPE LINES TO BE ABANDONED IN PLACE) SHALL BE EFFECTIVELY BLOCKED AND COVERED, BROKEN PIECES OF PIPE OR TILE SHALL BE REMOVED UNTIL A WHOLE UNDAMAGED LENGTH OF PIPE IS ENCOUNTERED. THIS PIPE END SHALL BE BLOCKED WITH A 6" WALL OF CONCRETE, OR 8" WALL OF BRICK LAID IN MORTAR, OR A PRECAST CLAY OR CONCRETE STOPPER CEMENTED IN PLACE.

TRAFFIC MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES, ON ALL ROADS, HIGHWAYS, AND STREETS. THE CONTRACTOR SHALL COMPLY FULLY WITH THE REGULATIONS SET FORTH IN THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING MAINTENANCE OF TRAFFIC PLAN TO APPROPRIATE AGENCIES PRIOR TO ANY WORK PERFORMED IN THE RIGHT OF WAY.

DEMOLITION NOTES

- REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED, SALVAGED, OR
- REMOVE ITEMS INDICATED; CLEAN, SERVICE, AND OTHERWISE PREPARE THEM FOR REUSE; STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEMS IN LOCATIONS INDICATED.
- PROTECT ITEMS INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING DEMOLITION. WHEN PERMITTED BY THE ENGINEER ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING DEMOLITION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.
- 4. CONTRACTOR SHALL SCHEDULE DEMOLITION ACTIVITIES WITH THE CONSTRUCTION/PROJECT MANAGER INCLUDING THE FOLLOWING: A. DETAILED SEQUENCE OF DEMOLITION AND REMOVAL WORK, WITH STARTING AND ENDING DATES FOR
 - EACH ACTIVITY DATES FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES
 - IDENTIFY AND ACCURATELY LOCATE UTILITIES AND OTHER SUBSURFACE STRUCTURAL, ELECTRICAL, OR MECHANICAL CONDITIONS.
- REGULATORY REQUIREMENTS: COMPLY WITH LOCAL AND GOVERNING EPA NOTIFICATION REGULATIONS BEFORE STARTING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- 7. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE WILL NOT BE PERMITTED.
- OBTAIN APPROVED BORROW SOIL MATERIALS OFF-SITE WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE ON-SITE.
- MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
- A. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY ENGINEER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND TO GOVERNING AUTHORITIES.
- 10. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
- 11. UTILITY REQUIREMENTS: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITY SERVING THE SITE
- ARRANGE TO SHUT OFF AND CAP UTILITIES WITH UTILITY COMPANIES AND FOLLOW THEIR RESPECTIVE UTILITY KILL AND CAP POLICIES.
- 12. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT SURFACES AND AREAS.
 - A. ERECT TEMPORARY PROTECTION, BARRICADES AS PER LOCAL GOVERNING AUTHORITIES. PROTECT EXISTING SITE IMPROVEMENTS AND APPURTENANCES TO REMAIN.
- 13. EXPLOSIVES: USE OF EXPLOSIVES WILL NOT BE PERMITTED
- 14. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
- 15. CLEAN ADJACENT BUILDINGS AND IMPROVEMENT OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.
- 16. DAMAGES: PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY DEMOLITION OPERATIONS AT THE CONTRACTORS COST.
- 17. GENERAL: PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
- 18. BURNING: OPEN BURNING IS NOT PERMITTED ON SITE

BELOW GRADE CONCRETE SLABS.

- 19. ASBESTOS: IF ANY MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE ENCOUNTERED, DO NOT DISTURB THE MATERIALS. IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER.
- 20. BELOW-GRADE DEMOLITION: DEMOLISH FOUNDATION WALLS AND OTHER BELOW-GRADE DEMOLITION, AS FOLLOWS: A. COMPLETELY REMOVE, BELOW-GRADE DEMOLITION, INCLUDING FOUNDATION WALLS FOOTINGS, AND
- 21. FILLING BELOW-GRADE AREAS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF BUILDINGS AND PAVEMENTS WITH MATERIALS ACCORDING TO REQUIREMENTS PER GEOTECHNICAL REPORT, CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE PRIOR TO FILLING ANY AREAS TO OBSERVE FILL PROCEDURES.
- 22. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. A. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING
- 23. CONTRACTOR TO NEATLY SAW CUT EXISTING PAVEMENT TO REMAIN PRIOR TO CURB, GUTTER, PAVEMENT ETC REMOVAL.
- 24. THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS WITH SMALL HANDHELD GRINDERS OR SCARIFIERS OR OTHER METHODS, WITH THE APPROVAL OF THE ENGINEER. TAKE CARE DURING MAKING REMOVAL NOT TO SCAR, DISCOLOR OR OTHERWISE DAMAGE THE PAYMENT SURFACE. DO NOT OVER PAINT OR USE OTHER METHODS OF COVERING MARKINGS INSTEAD OF REMOVAL.

12/06/18 Engineering Comments Date: Revisions:

Issued:

Permit Set

Client Review Set

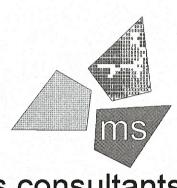
Date:

08/31/18

09/26/18

DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

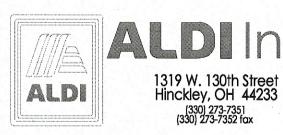
KEA

DRAWN BY:

REVIEWED BY:



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDI Inc. Store #: 76 Massillon, OH

Erie Street South

Massillon, Ohio 44646 Stark County

Project Name & Location:

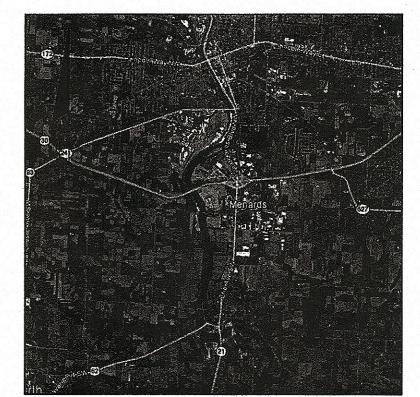
General Notes

Drawing Name: Project No. Prototype Rls. 07/27/18 40192-93 Type:LHRD-V7ER C-102

LATH B-1 LATH B-3 LATH P-5 GRATE=988.90' € 12" CPP N/S=984.0' LATH B-5 PARCEL No.: 10000723 MENARD, INC. 44.06 ACRES INSTR.#200702090007297 INSTR.#200701260004717 PART OF OUTLOT 1044 3725 ERIE ST. ZONE TYPE: B3 LATH P-4 ZONING DESCRIPTION: GENERAL BUSINESS DISTRICT CONCRETE WATER LINE EASEMENT GRATE=988.29' VOL. 532 PG. 258 E 18" CPP W=982.09' L 12" CPP S=982.29' E 12" CPP N=983.29' 18" CPP S=981.41' 18" CPP E=981.41' LATH P-1 OHIO EDISON COMPANY EASEMENT INSTR.# 1999028861 W/ELEC.&CDMM. DROP 瓦 18" CPP N=981.20' 瓦 24" CPP S=981.20' - Gravel/Dirt E 8" PVC N/S=967.64" SANITARY EASEMENT INSTR.# 200809120040936 - BELL SYSTEMS 12" CPP N/S=983.09' CONTROL VALVE GRATE=982.14' 瓦 36" CPP W=974.44" L 36" CPP S≒973.54' £ 12" CPP E=974.36' 元 12" CPP W=974.66' 元 12" CPP S=974.66' CONCRETE FULL OF DEBRI PRIVATE, ÁCCESS RD (48' PAVEMENT WIDTH) TC=981.16' ₹ 36" CPP E=974.86" TC=982.28' DOMINION 12" CPP N=975.68' NO. DATE DESCRIPTION BY PARCEL No.: 10000724 TACO BELL OF AMERICA, INC. 0.96 ACRES INSTR.#201006180022753 LOT 17336 INSTR.#201005260019638 ZONE TYPE: B3, GENERAL BUSINESS DISTRICT

SITE SURVEY

SITUATED IN THE STATE OF OHIO **COUNTY OF STARK** CITY OF MASSILLON PART OF OUTLOT 1044 INSTRUMENT No. 200702090007297 LOCATED IN NW QUARTER SECTION 29, TOWNSHIP 10N, RANGE 9W



LOCATION MAP

VERTICAL DATUM

NETWORK. THE VERTICAL COMPONENT OF THE VRS NETWORK (NATIONAL GEODETIC SURVEY).

CONTROL POINTS

CONTROL #1

E. 2,240,974.617

ELEV. = 992.18"

§" REBAR WITH A C.G. DEIBEL #6673 IDENTIFYING CAP AT AN ANGLE POINT ALONG THE WESTERLY RIGHT OF WAY OF ERIE ST., +/- 8.5' BACK OF CURB OF ERIE ST. & +/-62.3' NORTH OF A POWER/LIGHT POLE.

CONTROL #2

N. 398,613.159'

E. 2,240,947.786'

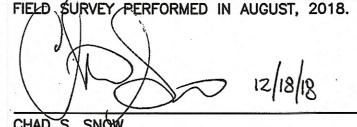
§" REBAR WITH A C.G. DEIBEL #6673 IDENTIFYING CAP AT NORTHEASTERLY CORNER OF THE LOT 17336 AT THE WESTERLY RIGHT OF WAY OF ERIE ST., +/- 0.3' BACK OF CURB & +/- 7.1' NORTH OF THE CENTER OF A TRAFFIC PULLBOX.

UTILITY STATEMENT:

THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES AS SHOWN HEREON. THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN APPROXIMATELY PLATTED BASED ON LOCATIONS FROM AN ACTUAL FIELD SURVEY, AND/OR INFORMATION OBTAINED FROM RECORD PLANS AND MAPS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN HEREON ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

DRAWING PREPARED BY:

THE FOREGOING SITE SURVEY WAS PREPARED BY ms consultants, inc. UNDER THE DIRECTION AND SUPERVISION OF CHAD S. SNOW FROM AN ACTUAL



REGISTER PROFESSIONAL SURVEYOR No. 8559



LEGEND

₩S WATER SERVICE VALVE FLAG +G GAS LINE MARKER [] ELECTRIC BOX G GAS VALVE G GAS METER TREE HTEL TELEPHONE LINE MARKER TELE/COMM PEDESTAL S SIGNAL POLE M ELECTRIC METER → SIGN ← GUY WIRE ϕ TELEPHONE/POWER POLE ϕ POWER POLE P POST DE LIGHT POLE SIGNAL PED. CO CLEANOUT FIRE HYDRANT CURB INLET S SANITARY MANHOLE CATCH BASIN (ROUND) (ST) STORM MANHOLE (1) UNKNOWN VALVE OLP.F. IRON PIN FD. @P.F. IRON PIPE FD. TELE/POWER/LIGHT POLE

RW RIGHT OF WAY

———— B——— SURVEY BASELINE

----ST-----ST-----STORM SEWER

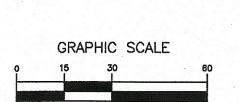
-----S-----S-----SANITARY SEWER

— G—— G—— GASLINE

— — — — PARCEL/LOT LINE

---- EASEMENT LINE

EDGE OF PAVEMENT



----W-----W------WATERLINE

BASIS OF BEARING

'NORTH' FOR THIS SURVEY IS BASED ON THE WESTERLY RIGHT OF WAY OF ERIE STREET BETWEEN FOUND MONUMENTS AS SHOWN & BEING

NORTH 03° 13' 25" EAST

AS ESTABLISHED BY A VRS/GNSS SURVEY AND IS REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE.

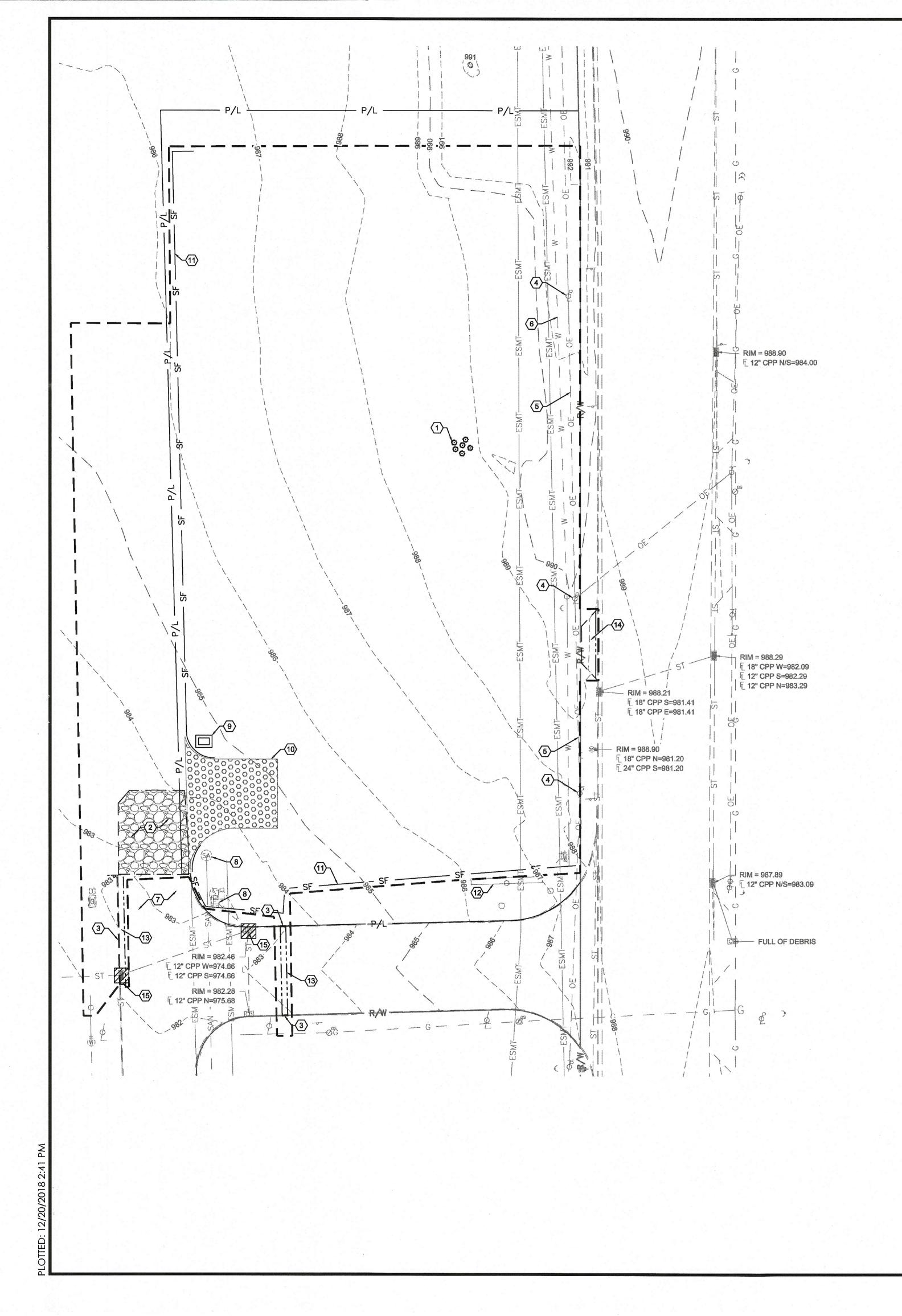
	CONSULTING ENGINEERS & PLAN 2821 SCHEOCK ROAD, COLUMBUS, OHD 44 PEIONE (614) 898-7100 PAX (614) 898-7
	ms consultants,
CLIENT	ALDI, INC.
	MASSILLON, OHIO
	ERIE STREET
LOCATION	3725

ns consultants, inc. CONSULTING ENGINEERS & PLANNERS
2221 SCHROCK ROAD, COLUMBUS, OHIO 43229
PHONE (614) 898-7100 PAX (614) 898-7570

SITE SURVEY

DRAWN BY: CHECKED BY: CREW CHIEF: PROJECT No.

MDK CSS MKD SCALE: DATE: 09/17/2018



- A. ALL EXISTING UTILITIES, TOPOGRAPHY AND PROPERTY INFORMATION ARE TAKEN FROM A SURVEY OF LAND SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK, STATE OF OHIO, BY SURVEYOR: ms consultants, inc., 2221 SCHROCK ROAD, COLUMBUS, OHIO 43229.
- B. BY GRAPHICAL PLOTTING ONLY, THIS SITE IS SITUATED IN FEMA FLOOD ZONE X PER FIRM #39151C0194E, EFFECTIVE SEPTEMBER 29, 2011.
- C. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION.
- D. CONTRACTOR TO REMOVE AND DISPOSE OF ALL DEBRIS AND OTHER MATERIALS RESULTING FROM DEMOLITION AND CONSTRUCTION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- E. ALL EXISTING UTILITIES ARE SHOWN HEREIN AS REFERENCE ONLY AND ARE BASED ON RECORD OF THE VARIOUS UTILITY COMPANIES AND A FIELD SURVEY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF ALL UTILITIES PRIOR TO DEMOLITION ACTIVITIES.
- F. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
- G. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- H. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE STATE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- I. CONTRACTOR SHALL CONFINE ALL STOCKPILING OF DEMOLITION MATERIALS TO WITHIN THE LIMITS OF THE SUBJECT PROPERTY.
- J. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO DEMOLITION, SEE C-114 AND C-115 FOR NOTES AND DETAILS.
- K. CAUTION: OVERHEAD LINES ARE PRESENT ON SITE. CONTRACTOR TO TAKE SPECIAL CARE TO PREVENT DAMAGE TO THE LINES AND COORDINATE WITH UTILITY OWNER.

KEYED NOTES:

- EXISTING SHRUBS AND VEGETATION TO BE REMOVED.
- (2) EXISTING GRAVEL PAVEMENT TO BE REMOVED AND DISPOSED OF.
- EXISTING CURB TO BE REMOVED AND DISPOSED OF.
- 4) EXISTING UTILITY POLE AND GUY WIRES TO REMAIN.
- 5) EXISTING OVERHEAD WIRE TO REMAIN.
- EXISTING WATER LINE TO REMAIN
- (7) EXISTING PAVEMENT TO REMAIN.
- 8 EXISTING UTILITY STRUCTURE TO REMAIN.
- CONCRETE WASHOUT, SEE DETAIL ON SHEET C-114. A MANUFACTURED OUTPAK CONCRETE WASHOUT BIN OR OTHER APPROVED EQUAL MAY BE UTILIZED TO
- LIMIT DISTURBANCE OF SURROUNDING AREAS.

 CONSTRUCTION ENTRANCE, SEE DETAIL ON SHEET C-114.
- SILT FENCE, SEE DETAIL ON SHEET C-114. SILT FENCE AT TOE OF SLOPE SHALL BE REINFORCED TO PREVENT FAILURE.
- 12 EXISTING MENARDS SITE SIGN TO REMAIN.
- EXISTING MENARDS SITE SIGN TO REMAIN.
- EXISTING CONCRETE DRIVE TO BE REMOVED AND DISPOSED OF.

EXISTING ASPHALT PAVEMENT TO BE REMOVED AND DISPOSED OF.

- INLET PROTECTION, SEE DETAIL ON SHEET C-114.

LEGEND

LEGEND	
FEATURE	DESCRIPTION
OE	OVERHEAD ELECTRIC LINE
G	GAS LINE
— — — SAN —	SANITARY SEWER
ST	STORM SEWER
	WATER MAIN
SF	SILT FENCE
P/L	PROPERTY LINE
	CONSTRUCTION LIMITS
ESMT	EASEMENT
	FULL-DEPTH SAW CUT LINE
0000	CONSTRUCTION ENTRANCE
	GRAVEL PAVEMENT
(SA)	SANITARY STRUCTURE
(CR)	STORM STRUCTURE
(班)	WATER VALVE
太	FIRE HYDRANT
E	ELECTRICAL STRUCTURE
ϕ	LIGHT POLE
$\overline{\phi}$ ϕ $\overline{\phi}$	UTILITY POLE
•	GUY WIRE
Ø _{es}	GAS STRUCTURE
© ©	SHRUBBERY
	CONCRETE WASHOUT
	INLET PROTECTION

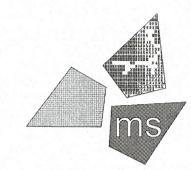




lss	ued:	Date:
(Client Review Set	08/31/18
F	Permit Set	09/26/18
E	Engineering Comments	12/06/18
Re	evisions:	Date:

DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc. engineers, architects, planners 2221 Schrock Road

Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY: KEA

REVIEWED BY:

Seal

ATE OF ONLY AND AULTMAN AULTMAN AULTMAN AUSTERE

PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDINC.

1319 W. 130th Street
Hinckley, OH 44233
(330) 273-7351
(330) 273-7352 fax

ALDI Inc. Store #: 76 Massillon, OH

Erie Street South

Massillon, Ohio 44646

Stark County

Project Name & Location:

Demolition Plan & Phase I SWPPP Drawing Name:

Prototype Rls.

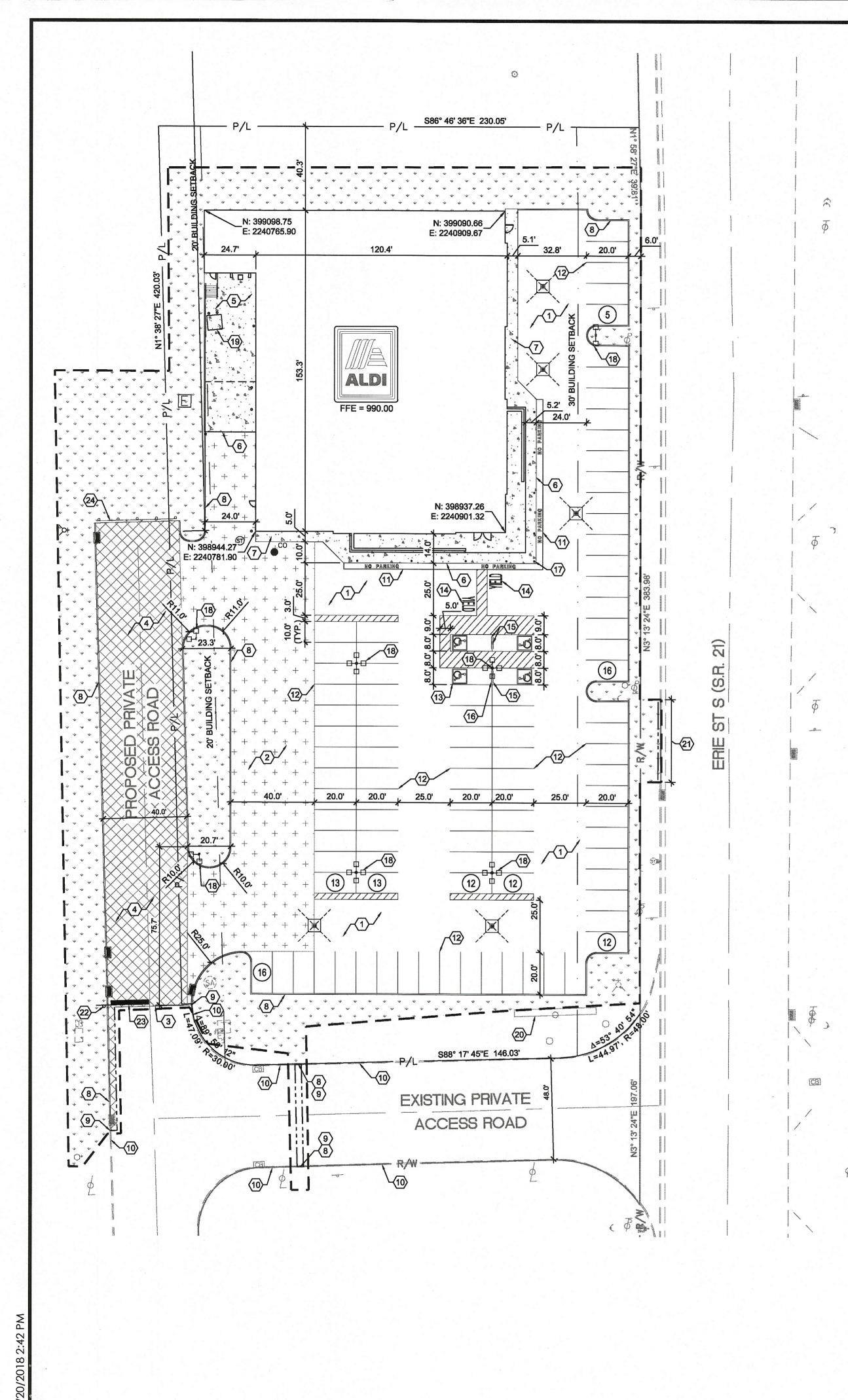
07/27/18

Type:LHRD-V7ER

C-104

Project No.

40192-93



- A. ALL EXISTING UTILITIES, TOPOGRAPHY AND PROPERTY INFORMATION ARE TAKEN FROM A SURVEY OF LAND SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK, STATE OF OHIO, BY SURVEYOR: ms consultants, inc., 2221 SCHROCK ROAD, COLUMBUS, OHIO 43229.
- B. BY GRAPHICAL PLOTTING ONLY, THIS SITE IS SITUATED IN FEMA FLOOD ZONE X PER FIRM #39151C0194E, EFFECTIVE SEPTEMBER 29, 2011.
- C. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION, AND IS RESPONSIBLE FOR
- D. PROVIDE SMOOTH TRANSITION FROM NEWLY PAVED AREAS TO EXISTING PAVED AREAS AS NECESSARY. THE EXISTING EDGE OF PAVEMENT SHALL BE FREE OF ALL LOOSE DEBRIS AT ALL AREAS WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT. THE EDGE OF EXISTING CONCRETE PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW CONCRETE PAVEMENT IS INDICATED TO JOIN EXISTING.
- E. ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED.
- F. ALL PAVEMENT MARKINGS DEPICTING PARKING SPACES, ACCESSIBLE PARKING SPACES, BARRIER FREE SYMBOLS, ACCESS AISLES, NO PARKING SIGNAGE, RESTRICTED PARKING AREAS, DRIVE LANES, VEHICULAR DIRECTION ARROWS AND STOP BARS SHALL BE APPLIED WITH MECHANICAL EQUIPMENT AND TEMPLATES AT THE LOCATIONS AND LENGTHS SHOWN ON THE PLANS (TWO COATS ALL LOCATIONS). PAINT SHALL BE WHITE IN COLOR (UNLESS OTHERWISE SPECIFIED) AND SHALL MEET ALL APPLICABLE REQUIREMENTS OF LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- G. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- H. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND ADDITIONAL INFORMATION.
- I. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
- J. ALL EXCAVATED AREAS TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEWLY SEEDED/SODDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL. HOLD SOIL DOWN 1" FROM PAVEMENT ELEVATION. CONTRACTOR TO SUPPLY STRAW MULCH WHERE GRASS SEED HAS
- K. ALL RADII ARE 5.0 FEET UNLESS OTHERWISE SHOWN. ALL RADII INDICATED ON PLANS SHALL BE CONSTRUCTED AS CIRCULAR ARCS.
- L. PROPOSED BUILDING AND PARKING ARE PARALLEL AND PERPENDICULAR TO THE EASTERN PROPERTY LINE HAVING THE BEARING N 03° 13' 24" E AND

KEYED NOTES:

- PROPOSED STANDARD DUTY ASPHALT PAVEMENT. SEE DETAIL ON SHEET C-106.
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL ON SHEET C-106.
- PROPOSED ASPHALT PAVEMENT TO BE FLUSH WITH EXISTING.
- PROPOSED ACCESS ROAD PAVEMENT PER CITY OF MASSILLON REQUIREMENTS. SEE CROSS SECTION FOR PRIVATE ROAD DETAIL ON SHEET C-106.
- PROPOSED CONCRETE LOADING DOCK. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS.
- PROPOSED CONCRETE TO BE FLUSH WITH ADJACENT ASPHALT PAVEMENT.
- PROPOSED CONCRETE SIDEWALK. SEE STRUCTURAL PLANS FOR DETAILS.
- PROPOSED 6" CONCRETE CURB PER ODOT ROADWAY STANDARD CONSTRUCTION DRAWING BP-5.1 ITEM 609 TYPE 6.
- TAPER LAST 10' OF NEW CURB TO MEET AND MATCH CONFIGURATION AND ELEVATION OF EXISTING ADJOINING CURB.
- EXISTING CONCRETE CURB TO REMAIN.
- PROPOSED PAINTED "NO PARKING" MARKINGS. SEE DETAIL ON SHEET C-106.
- PROPOSED PAINTED PARKING STRIPING (TYPICAL). ALL PARKING STRIPES ARE TO BE 4" PAINTED WHITE, UNLESS OTHERWISE NOTED ON THE PLANS,
- - PROPOSED PAINTED HANDICAP PARKING SYMBOL (TYP. OF 4). SEE DETAILS ON SHEET C-106.
- PROPOSED PAINTED "YIELD" MARKINGS PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SECTION 3B.20.
- GENERAL CONTRACTOR TO PROVIDE AND INSTALL (3) POLE-MOUNTED "VAN ACCESSIBLE" HANDICAP PARKING SIGNS. SIGNS PROVIDED BY CONTRACTOR SHALL MEET LOCAL REQUIREMENTS. SEE DETAIL ON SHEET C-106.
- GENERAL CONTRACTOR TO PROVIDE AND INSTALL (1) POLE-MOUNTED HANDICAP PARKING SIGNS. SIGNS PROVIDED BY CONTRACTOR SHALL MEET LOCAL REQUIREMENTS. SEE DETAIL ON SHEET C-106.
- PROPOSED BOLLARD (TYP. OF 16). SEE STRUCTURAL AND ARCHITECTURAL PLANS FOR DETAILS.
- PROPOSED LIGHT POLE. SEE SHEET C-106 FOR BASE DETAIL. SEE ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS FOR ADDITIONAL DETAILS.
- PROPOSED DUMPSTER. SEE ARCHITECTURAL PLANS FOR DETAILS.
- EXISTING MENARDS SITE SIGN TO REMAIN. PROPOSED ALDI SIGN TO BE ADDED TO PYLON. CONTRACTOR TO COORDINATE WITH OWNER. SEE ELECTRICAL
- PROPOSED 6" CONCRETE. CURB AND GUTTER PER ODOT ROADWAY STANDARD CONSTRUCTION DRAWING BP-5.1 ITEM 609 TYPE 2. MATCH EXISTING ADJACENT CURB SECTIONS.
- GENERAL CONTRACTOR TO PROVIDE AND INSTALL ONE (1) POLE MOUNTED "STOP" SIGN PER ODOT ITEM 630.
- PROPOSED PAINTED 24" WIDE STOP BAR, 18 FT. IN LENGTH PER ODOT ITEM 641.
- PROPOSED GUARDRAIL PER ODOT ITEM 606.

LECEND

LEGEND	
FEATURE	DESCRIPTION
	CONCRETE
	STANDARD DUTY ASPHALT PAVEMENT
+ + +	HEAVY DUTY ASPHALT PAVEMENT
	ACCESS ROAD PAVEMENT
* * * *	GRASS / LANDSCAPED AREA
	FULL-DEPTH SAWCUT LINE
	CONSTRUCTION LIMITS
	BUILDING SETBACK LINE
EXISTING PROPOSED	
(SA)	SANITARY STRUCTURE
THE PARTY IN THE P	

GUY WIRE

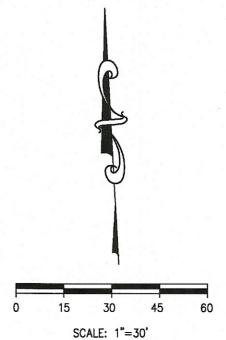
SHRUBBERY

GAS STRUCTURE

	SQ. FT.	ACRES	PERCENT		
TOTAL SITE AREA	99,861	2.29			STORM STRUCTURE
BUILDING	19,200	0.44	19.2	*	
PAVEMENT AND WALK	56,466	1.30	56.5	(費)	WATER VALVE
EXISTING PERVIOUS	99,861	2.29	100.0		
EXISTING IMPERVIOUS	0	0.00	0.0	点	FIRE HYDRANT
TOTAL PROPOSED PERVIOUS	24,195	0.56	24.2		
TOTAL PROPOSED IMPERVIOUS	75,666	1.74	75.8		ELECTRICAL STRUCTURE
PARKII	NG D	ΔΤΔ	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		LIGHT POLE
	JIRED		VIDED	$ \bar{\mathcal{E}} $ $ \bar{\mathcal{E}} $ $ \bar{\mathcal{E}}$	UTILITY POLE

STANDARD 60 HANDICAP** 4	95
HANDICAP** 4	90
	4
TOTAL* 64	99

SITE DATA

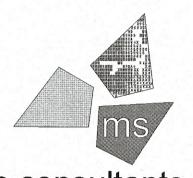




Issued: Date: Client Review Set 08/31/18 Permit Set 09/26/18 12/06/18 Engineering Comments Date: Revisions:

DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc. engineers, architects, planners

KEA

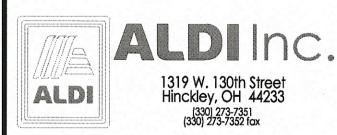
2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY:

REVIEWED BY:



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDI Inc. Store #: 76 Massillon, OH Erie Street South Massillon, Ohio 44646

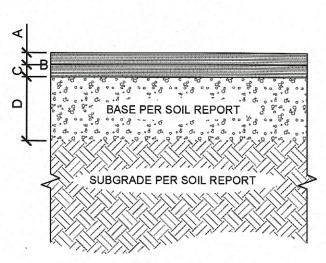
Stark County

Project Name & Location: Site Plan

Drawing Name: Prototype Rls. Project No. 07/27/18 40192-93

Type:LHRD-V7ER

C-105



STANDARD DUTY PAVING

A = 1.5" ASPHALT CONCRETE (ODOT ITEM 441, TYPE 1, SURFACE COURSE)

(ODOT ITEM 304)

- B = TACK COAT (0.05 GAL/S.Y.) C = 1.5" ASPHALT CONCRETE
- (ODOT ITEM 441, TYPE 2, INTERMEDIATE COURSE) D = 6.0" OF AGGREGATE BASE

NOTES:
A. SUBGRADE COMPACTION: CBR= 5

- B. BASE COURSE TO CONFORM TO ODOT STANDARDS FOR BASE COURSE COMPACTED TO
- 100% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY
- C. ALL SUBGRADE AND PAVEMENT OPERATIONS AND MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF THE CURRENT ODOT SPECIFICATIONS

ASPHALT PAVING SECTION C106 N.T.S.

HEAVY DUTY PAVING

(ODOT ITEM 441, TYPE 1, SURFACE COURSE)

(ODOT ITEM 441, TYPE 2, INTERMEDIATE COURSE)

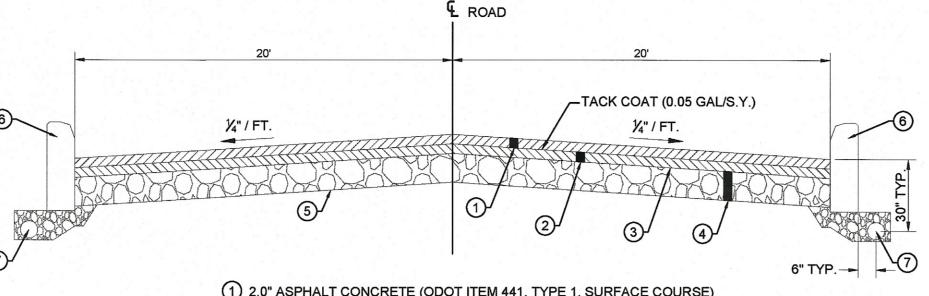
A = 2.0" ASPHALT CONCRETE

B = TACK COAT (0.05 GAL/S.Y.)

D = 9.0" OF AGGREGATE BASE

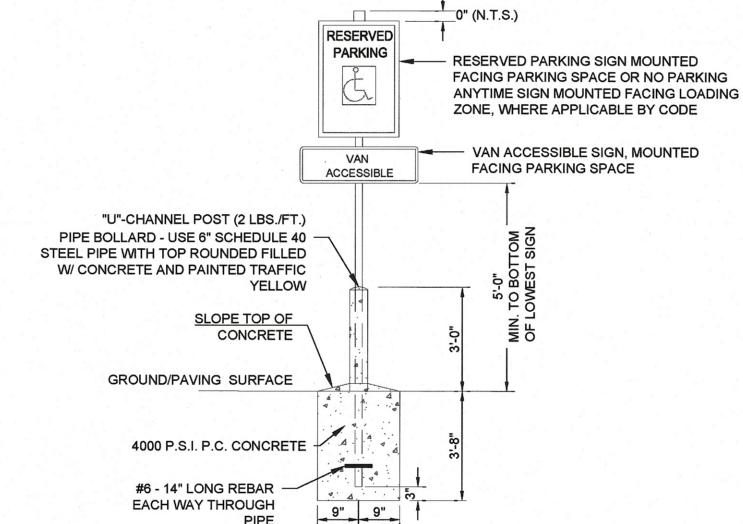
(ODOT ITEM 304)

C = 3.0" ASPHALT CONCRETE

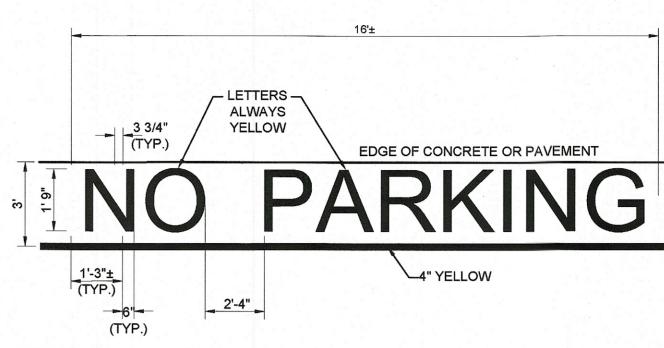


- (1) 2.0" ASPHALT CONCRETE (ODOT ITEM 441, TYPE 1, SURFACE COURSE)
- 2 3.0" ASPHALT CONCRETE (ODOT ITEM 441, TYPE 2, INTERMEDIATE COURSE)
- 3 ITEM 408 BITUMINOUS PRIME COAT (0.35 GAL/SQ. YD)
- (4) 12.0" OF AGGREGATE BASE (2 EQUAL LAYERS) (ODOT ITEM 304)
- (5) ITEM 204 SUBGRADE COMPACTION
- (6) ODOT TYPE 6 CONCRETE CURB
- 7 ITEM 605 6-INCH SHALLOW PIPE UNDERDRAIN WITH SOCK (ITEM 707.31)

B TYPICAL CROSS SECTION FOR PRIVATE ACCESS ROAD

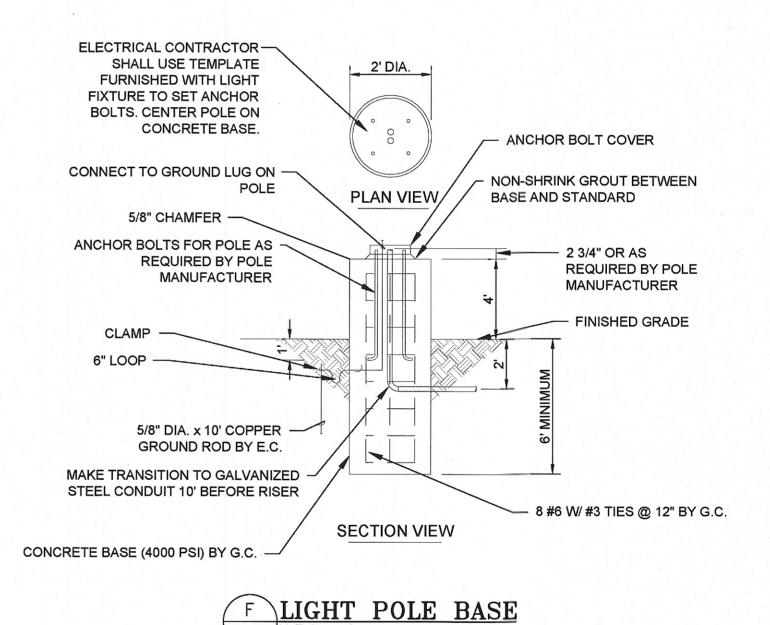


E POLE-MOUNTED HANDICAP PARKING SIGN C106 N.T.S.



NOTES:
1. CONTRACTOR SHALL APPLY TWO (2) COATS OF PAINT 2. REFER TO SITE PLAN FOR NUMBER AND LOCATION.

C NO PARKING LETTERING





Issued:

Client Review Set

Engineering Comments

Permit Set

Revisions:

DO NOT SCALE PLANS Copying, Printing, Software and other processes required to

Date

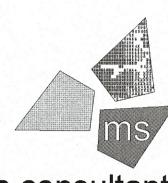
08/31/18

09/26/18

12/06/18

Date:

produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc. engineers, architects, planners 2221 Schrock Road

KEA

Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY:

REVIEWED BY:

PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDIInc. 1319 W. 130th Street Hinckley, OH 44233 (330) 273-7351 (330) 273-7352 fax

ALDI Inc. Store #: 76 Massillon, OH Erie Street South Massillon, Ohio 44646

Stark County

Project Name & Location:

Site Details

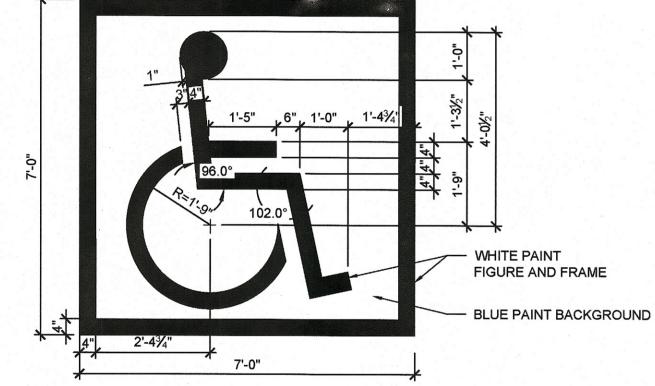
Drawing Name: Prototype Rls. 07/27/18

40192-93

Project No.

Type:LHRD-V7ER

C-106



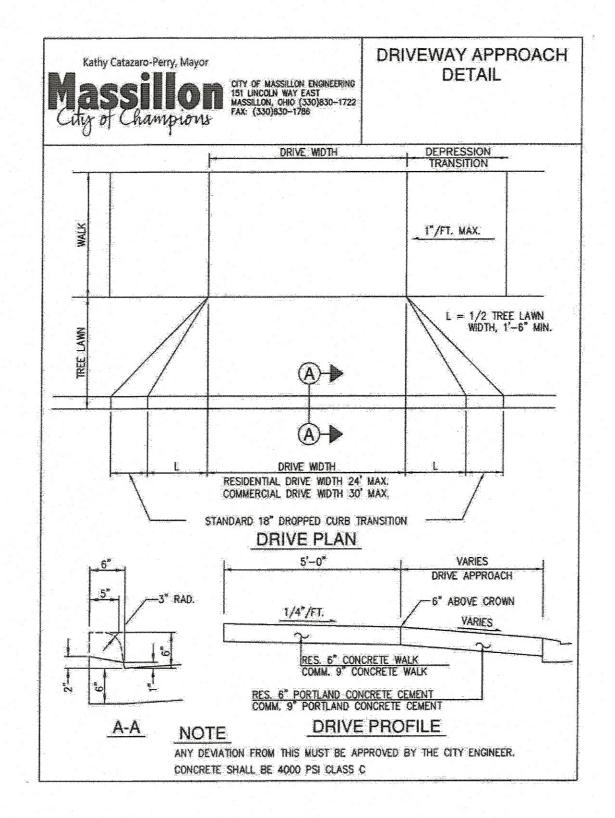
NOTES:
A. SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL.

B. BOTTOM OF SYMBOL FRAME TO BE LOCATED 6" FROM ACCESS DRIVE, INTO PARKING SPACE. C. SYMBOL IS REQUIRED TO CONTRAST WITH BACKGROUND.

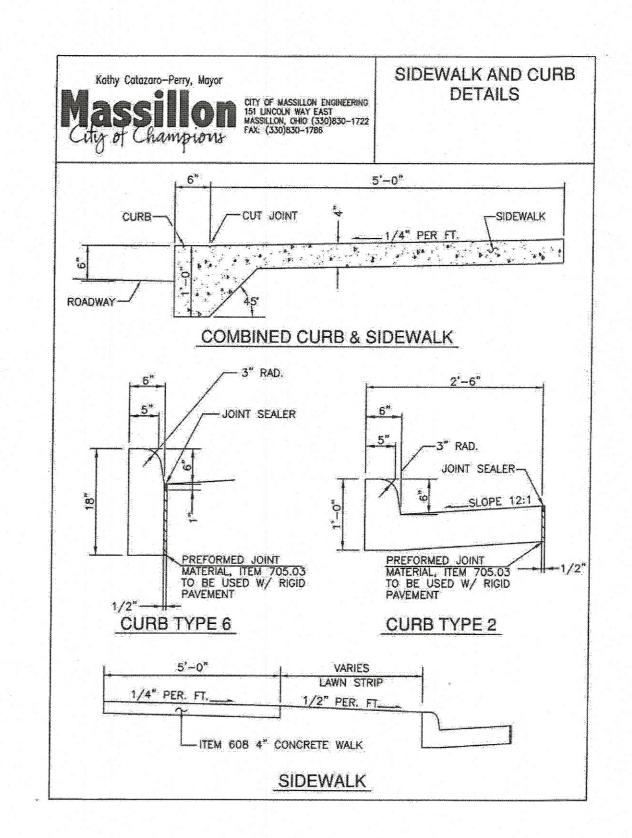
D. USE WHITE ON BLUE (COLOR #105090 IN FEDERAL STANDARD 5952) (2) COATS.

D SYMBOL OF ACCESSIBILITY
C106 N.T.S.

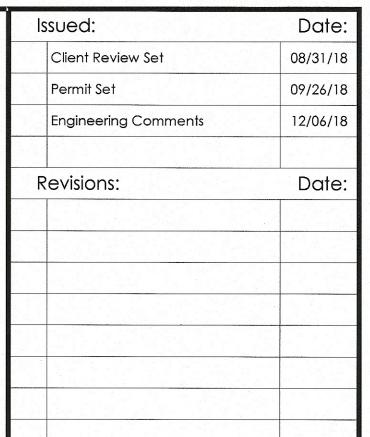
#6 - 14" LONG REBAR -EACH WAY THROUGH PIPE





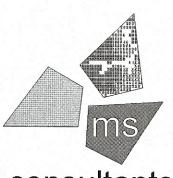


B SIDEWALK AND CURB C107 N.T.S.



DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc. engineers, architects, planners 2221 Schrock Road

KEA

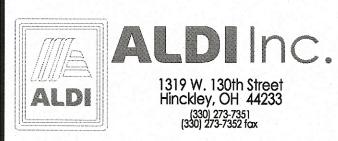
Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY:

REVIEWED BY:



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDI Inc. Store #: 76 Massillon, OH

Erie Street South Massillon, Ohio 44646

Stark County

Project Name & Location:

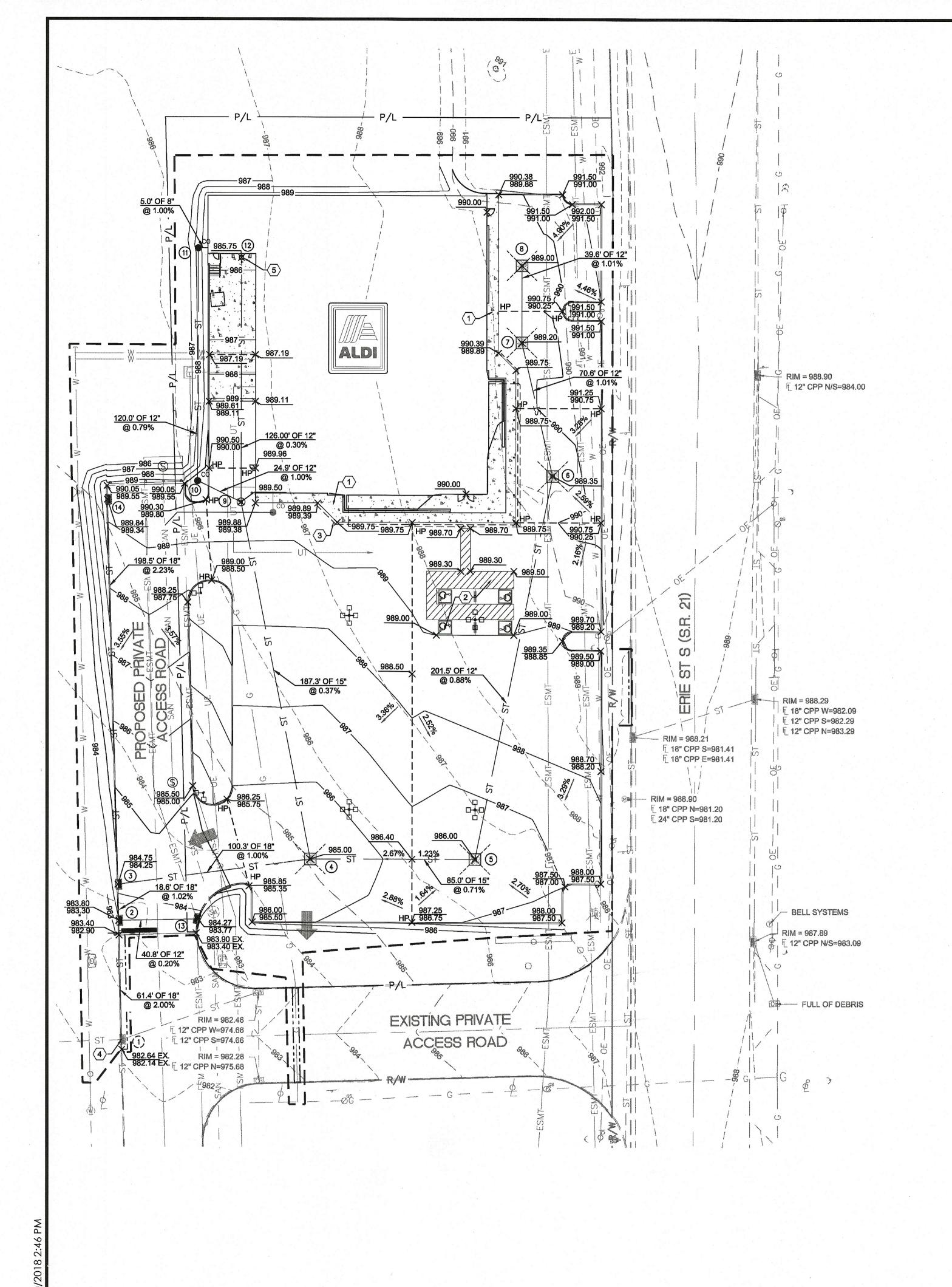
Site Details

Drawing Name: Prototype Rls. 07/27/18

Project No.

40192-93 Type:LHRD-V7ER

C-107



- A. ALL EXISTING UTILITIES, TOPOGRAPHY AND PROPERTY INFORMATION ARE TAKEN FROM A SURVEY OF LAND SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK, STATE OF OHIO, BY SURVEYOR: ms consultants, inc., 2221 SCHROCK ROAD, COLUMBUS, OHIO 43229.
- ALL CONSTRUCTION METHODS AND MATERIAL MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
- ALL PROPOSED SPOT ELEVATIONS SHOWN ARE TOP OF CURB AND FINAL GRADE ELEVATIONS UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- OWNER IS RESPONSIBLE FOR MAINTAINING AND CLEANING PROPOSED STORM SYSTEM AS NEEDED SO AS WATER STORAGE AREAS ARE NOT REDUCED.
- CONTRACTOR TO VERIFY ALL EXISTING GRADES AND CONTACT ENGINEER PRIOR TO BEGINNING WORK IF DISCREPANCY IS FOUND. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT, VERIFY
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATION IS AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
 - ALL WORK SHALL BE PERFORMED FROM PRIVATE PROPERTY. ALL TRAFFIC LANES MUST REMAIN OPEN AT ALL TIMES.

COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS TO NOT CAUSE DAMAGE.

- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES DURING CONSTRUCTION AND ALL DAMAGE SHALL BE REPAIRED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER OR CITY.
- CONTRACTOR SHALL INSTALL AND BACKFILL STRUCTURES AND TRENCHES PER DETAIL ON SHEET C-110.
- ALL 12", 15", AND 18" STORM CONDUITS ARE ADS N-12 SMOOTH INTERIOR HDPE PIPE OR APPROVED EQUAL.
- ALL CATCH BASINS SHALL BE 24" X 24" PRECAST PER CITY OF MASSILLON STANDARD CONSTRUCTION DETAILS DWG MASS5622 ALL CURB INLETS SHALL BE 24" X 36" PRECAST PER CITY OF MASSILLON STANDARD CONSTRUCTION DETAILS DWG MASS7030.
- THIS SITE IS IN AN AREA OF MINIMAL FLOOD HAZARD, PER FEMA FLOODMAP 39151C0194F (EFF. 9/14/2018).

KEYED NOTES:

- CONTRACTOR TO MAINTAIN 2.00% MAX CROSS SLOPE ON SIDEWALK.
- CONTRACTOR TO MAINTAIN MAX 2.00% SLOPE IN ALL DIRECTIONS IN HANDICAP ACCESSIBLE AREA.
- PROPOSED UNDERDRAIN AND ROOFDRAIN SYSTEM. SEE DETAILS ON SHEET C-110.
- CONNECT PROPOSED STORM SYSTEM OUTLET TO EXISTING STORM SEWER SYSTEM.
- TRUCK WELL INLET. SEE INLET DETAILS ON SHEET C-110. INLET TO BE CONNECTED TO PROPOSED STORM SEWER SYSTEM.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
980.50 EX.	980.50 980.00	TOP OF CURB TOP OF PAVEMENT
980.00 EX.	980.00	FINISHED GRADE SPOT ELEVATION
	0.50%	GRADE SLOPE
	HP	HIGH POINT
ST	ST	STORM MAIN
		LIMITS OF DISTURBANCE
980	980	MAJOR CONTOUR LINES
981	981 ——	MINOR CONTOUR LINES
		CATCH BASIN
	S	STORM STRUCTURE
		MAJOR FLOOD ROUTING

STORM STRUCTURE DATA

- EXISTING CURB INLET TC: 982.14 EX: 36" INV (W) = 974.44 EX: 12" INV (E) = 974.36 PR: 18" INV (N) = 979.50 EX: 36" INV (S) = 973.54
 - 8 PROPOSED CATCH BASIN TC: 989.00 PR: 12" INV (S) = 985.90
- PROPOSED CURB INLET TC: 983.30 PR: 18" INV (N,S) = 980.73 PR: 12" INV (E) = 981.23 3 PROPOSED CURB INLET
- PR: 15" INV (S) = 982.86 PR: 12" INV (N,W) = 983.11
- PR: 18" INV (N,S,E) = 980.92 PROPOSED CATCH BASIN TC: 985.00 PR: 18" INV (W) = 981.92
 - TC: 988.50 PR: 12" INV (S) = 984.31 PR: 15" INV (E) = 982.17 PR: 15" INV (N) = 982.17
- 5 PROPOSED CATCH BASIN PR: 15" INV (W) = 982.77 PR: 12" INV (N) = 983.02
- 6 PROPOSED CATCH BASIN TC: 989.35 PR: 12" INV (N,S) = 984.79
- PROPOSED CATCH BASIN TC: 989.20 PR: 12" INV (N,S) = 985.50

- PROPOSED MANHOLE TC: 989.50
- PROPOSED MANHOLE
 TO: 000 00 TC: 990.28 PR: 12" INV (NW,S) = 983.36

PROPOSED MANHOLE

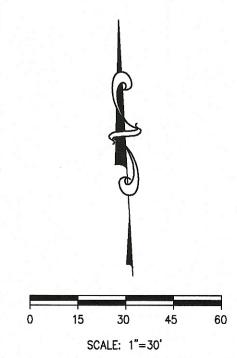
PR: 8" INV (E) = 984.64 PROPOSED TRUCK WELL INLET

TC: 985.75

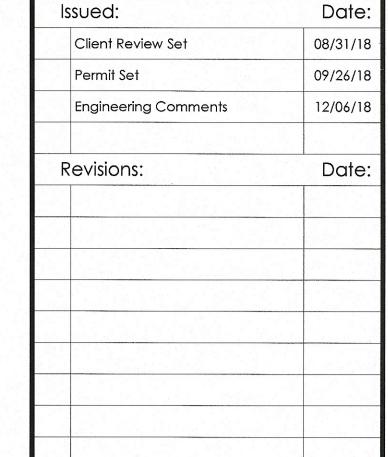
PROPOSED CURB INLET TC: 983.77 PR: 12" INV (W) = 981.31

PR: 12" INV (S) = 983.49

PROPOSED CURB INLET TC: 989.34 PR: 18" INV (S) = 985.34

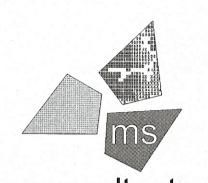






DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



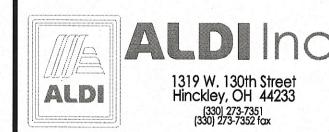
ms consultants, inc. engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY: KEA

REVIEWED BY:



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDI Inc. Store #: 76 Massillon, OH

Erie Street South Massillon, Ohio 44646

Stark County

Project Name & Location:

Grading Plan

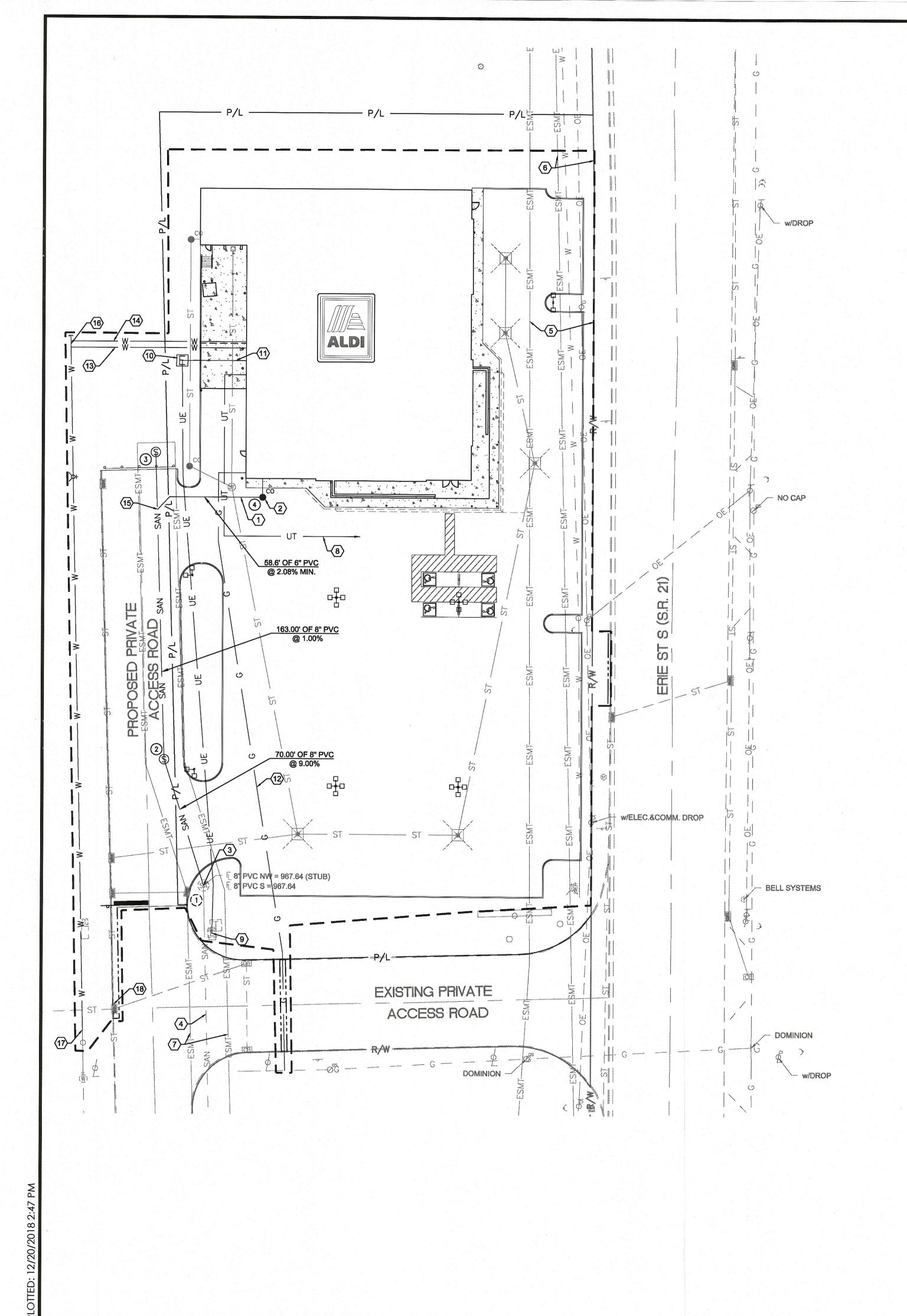
Drawing Name:

Prototype Rls. 07/27/18

40192-93 Type:LHRD-V7ER

C-108

Project No.



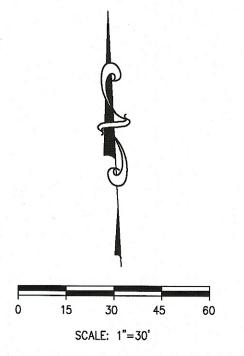
- ALL EXISTING UTILITIES, TOPOGRAPHY, UTILITIES AND PROPERTY INFORMATION ARE TAKEN FROM A SURVEY OF LAND SITUATED IN THE CITY OF HILLIARD, COUNTY OF FRANKLIN, STATE OF OHIO, BY SURVEYOR: ms consultants, inc, 2221 SCHROCK ROAD, COLUMBUS, OHIO 43229.
- B. ALL CONSTRUCTION METHODS AND MATERIAL MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
- C. ALL EXISTING UTILITIES, ARE TAKEN FROM SURVEY AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND UTILITIES ADJACENT TO OR UPON PREMISES SHOWN ON PLAN.
- D. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. PROPOSED UTILITIES SHOULD TIE INTO EXISTING UTILITIES AT A POINT INDICATED ON PLANS.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS BEFORE CONSTRUCTION IS TO START, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATION IS AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES DURING CONSTRUCTION AND ALL DAMAGE SHALL BE REPAIRED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER OR CITY.
- THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS TO NOT CAUSE DAMAGE.
- H. STORM SEWER SHOWN HERE FOR REFERENCE ONLY. SEE SHEET GRADING PLAN ON SHEET C-108.
- CONTRACTOR TO VERIFY ELEVATIONS OF EXISTING SANITARY SEWER PRIOR TO CONSTRUCTION AND NOTIFY OWNER AND ENGINEER 3 DAYS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 4' OVER PROPOSED WATER SERVICE.
- THERE SHALL BE A MINIMUM TEN-FOOT HORIZONTAL SEPARATION BETWEEN WATER TAPS, WATER SERVICES, PRIVATE WATER SYSTEMS, AND ANY SANITARY AND/OR STORM SEWER SYSTEMS. WHERE 10-FEET HORIZONTAL SEPARATION CANNOT BE OBTAINED, THE BOTTOM OF THE WATER LINE SHALL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- SEE PLUMBING PLANS FOR CONTINUATION OF UTILITY LINES INTO BUILDING.
- M. CONTRACTOR SHALL INSTALL AND BACKFILL ALL UTILITY PIPES, CONDUITS, STRUCTURES, AND TRENCHES PER DETAIL ON SHEET C-110.

KEYED NOTES:

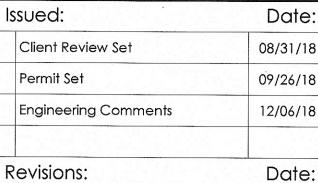
- PROPOSED 6" P.V.C. SANITARY SEWER. ASTM F-794, SDR-26. SEWER TO HAVE MINIMUM SLOPE OF 2.08%.
- PROPOSED SANITARY CLEANOUT (TYP.). SEE DETAIL ON SHEET C-110.
- PROPOSED 8" SANITARY TO CONNECT TO EXISTING MANHOLE. CORE INTO EXISTING STRUCTURE.
- EXISTING 8" SANITARY SEWER MAIN.
- EXISTING 30' ELECTRICAL EASEMENT
- EXISTING 10' WATER EASEMENT.
- EXISTING 10' SANITARY EASEMENT.
- PROPOSED UNDERGROUND TELEPHONE SERVICE. CONTRACTOR TO COORDINATE WITH UTILITY OWNER.
- CONNECT TO EXISTING ELECTRICAL STRUCTURES. CONTRACTOR TO COORDINATE WITH UTILITY OWNER.
- PROPOSED ELECTRIC TRANSFORMER. CONTRACTOR TO COORDINATE LOCATION AND CONNECTION WITH UTILITY OWNER.
- PROPOSED ELECTRICAL SERVICE. CONTRACTOR TO COORDINATE CONDUIT SIZE, NUMBER OF CONDUITS, CONNECTIONS, AND BEND RADII WITH UTILITY OWNER AND MEP PLANS. CONTRACTOR TO COORDINATE CONNECTION TO TRANSFORMER WITH UTILITY OWNER.
- PROPOSED 2" GAS LINE FOR ANTICIPATED NG LOAD OF 905 MBH AT 10" W.C., CONFIRM AND COORDINATE WITH MEP PLANS. ALL MATERIALS AND INSTALLATION ARE TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. CONTRACTOR TO COORDINATE LOCATION OF GAS MAIN AND CONNECTION CONNECTION WITH UTILITY OWNER.
- PROPOSED 6" DUCTILE IRON FIRE SERVICE LINE. INCLUDE IN BASE BID ALL VALVES, PIPING, STRUCTURES, ETC. THAT WILL BE REQUIRED
- PROPOSED 2" TYPE K COPPER DOMESTIC SERVICE LINE. INCLUDE IN BASE BID ALL VALVES, PIPING, STRUCTURES, ETC. THAT WILL BE REQUIRED
- PROPOSED 8X6 WYE WITH RISER CONNECTION.
- PROPOSED 10" DUCTILE IRON WATER LINE. INCLUDE IN BASE BID ALL VALVES, PIPING, STRUCTURES, ETC. THAT WILL BE REQUIRED.
- CONNECT TO EXISTING 10" WATER LINE. CONTRACTOR TO COORDINATE LOCATION AND CONNECTION WITH UTILITY OWNER.
- CORE DRILL EXISTING PRECAST CATCH BASIN AND CONNECT NEW STORM SEWER PIPE TO INLET WITH A CONCRETE COLLAR.

SANITARY STRUCTURE DATA

- EXISTING MANHOLE TC: 983.85 EX: 8" (NW,S) = 967.64
- PROPOSED MANHOLE PR: 8" (N,S) = 973.94
- PROPOSED MANHOLE TC: 986.50 PR: 8" (S) = 975.57
- PROPOSED CLEANOUT PR: 6" (N,W) = 984.79

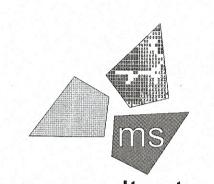






DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc. engineers, architects, planners

2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

KEA

DRAWN BY:

Seal

REVIEWED BY:



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDIInc. 1319 W. 130th Street Hinckley, OH 44233 (330) 273-7351 (330) 273-7352 fax

ALDI Inc. Store #: 76 Massillon, OH Erie Street South Massillon, Ohio 44646

Stark County Project Name & Location:

Utility Plan

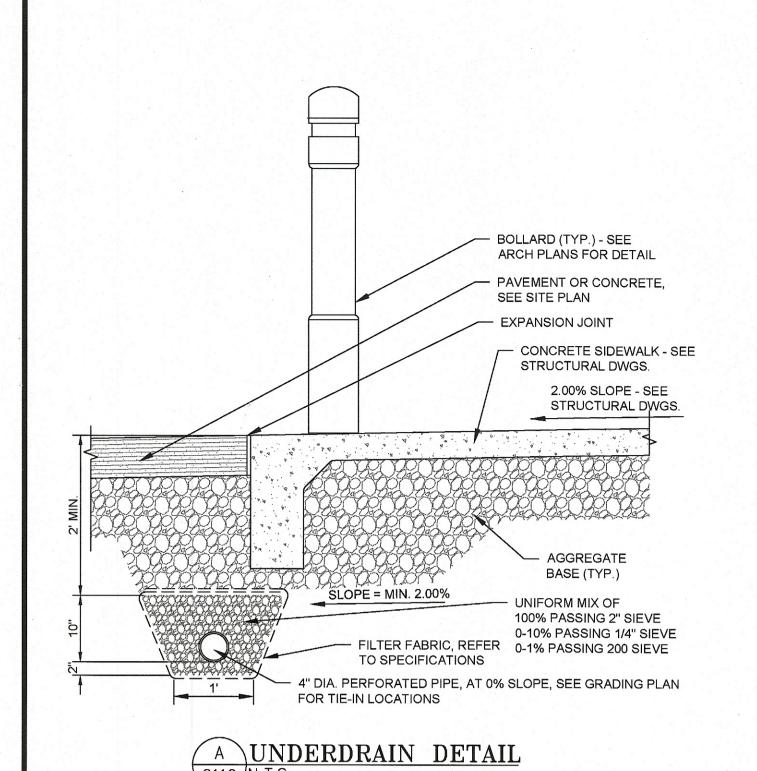
Drawing Name:

Prototype Rls. 07/27/18

40192-93 Type:LHRD-V7ER

C-109

Project No.



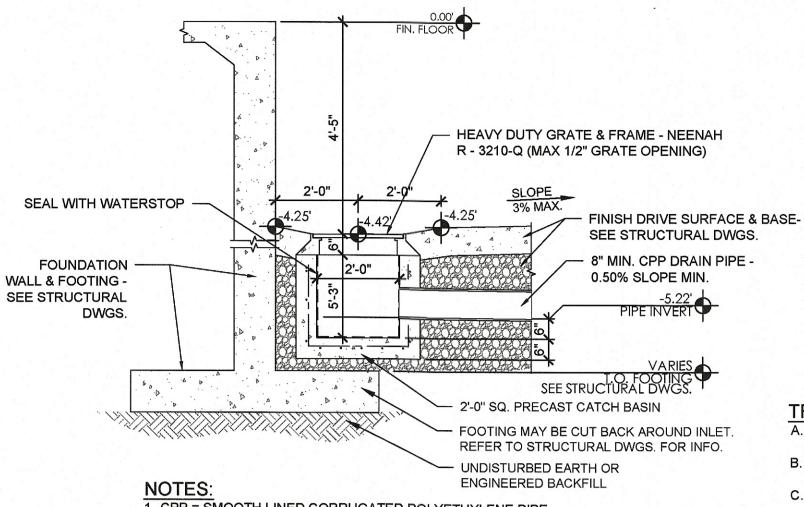
MANHOLE FOR PAVED #3 REBAR EACH WAY 2.5'x2.5' CONCRETE - INSTALL FLUSH WITH GRADE COLLAR (8" THICKNESS IN LANDSCAPE AREA ONLY MINIMUM) ASPHALT OR CONCRETE PAVING SEE GRADING PLAN **CLEANOUT PLUG, 3" BELOW PAVING OR 1"** ABOVE FINAL LANDSCAPE GRADE LONG SWEEP WYE CRUSHED AGGREGATE, COMPACTED TO 98% STD. FLOW-PROCTOR TRENCH BACKFILL . SINGLE CLEANOUT-PER DETAIL "INDICATED "C.O." ON PLANS" DOUBLE CLEANOUT - INDICATED "D.C.O." ON PLANS

NOTES
A. CLEANOUT LOCATIONS INDICATED ON GRADING AND UTILITY PLANS AS "CO" FOR SINGLE CLEANOUT AND "DCO" FOR DOUBLE CLEAN OUT.
B. PROVIDE CLEANOUTS AS SPECIFIED:
C. ZURN Z-1400 CLEANOUTS IN NON-TRAFFIC AREAS AND SIDEWALKS
C. ZURN-1449 CLEANOUTS IN LANDSCAPED AREAS

ZURN Z-1400 HD CLEANOUTS IN TRAFFIC AREAS WITH A "SERVICE STATION" TYPE

B PIPE CLEANOUT DETAIL
C110 N.T.S.

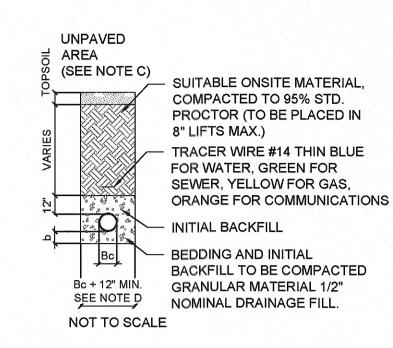
MANHOLE, OPW #104 A12 - DOVER CORP./OPW DIV.



1. CPP = SMOOTH LINED CORRUGATED POLYETHYLENE PIPE 2. PVC = POLYVINYL CHLORIDE PIPE

LESS THAN 12" SHALL BE PVC
 12" OR GREATER SHALL BE CPP

C110 N.T.S. WELL INLET DETAIL



TRENCH / BACKFILL NOTES

A. BEDDING THICKNESS UNDER PIPE BARREL b, SHALL BE 1/8 OF Bc; 6" MIN. Bc IS OUTSIDE DIAMETER OF PIPE AT BELL.

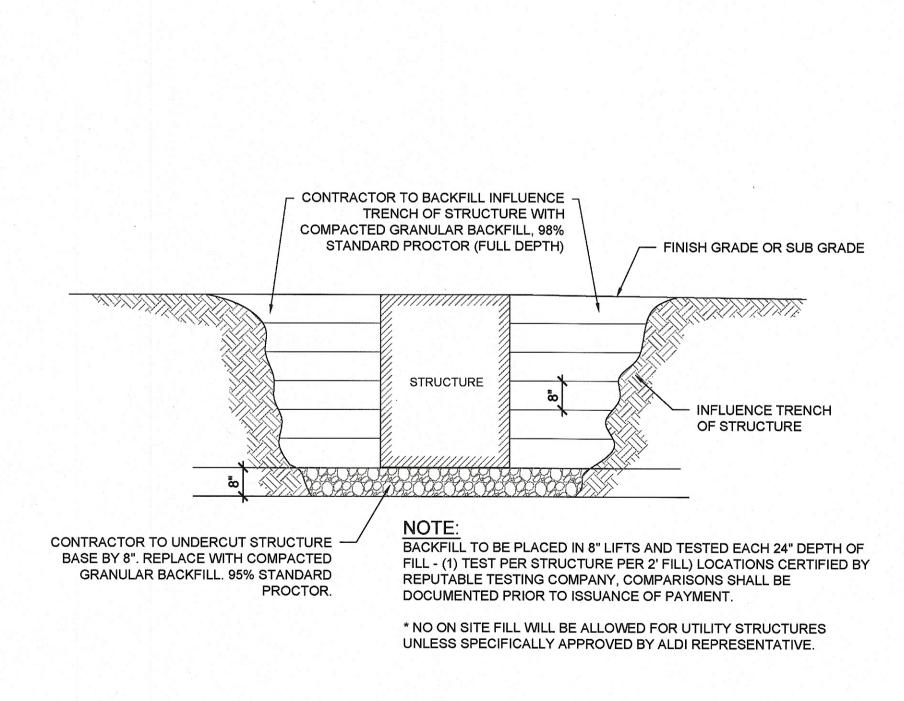
B. THE HAUNCH AREA OF THE PIPE MUST BE FULLY SUPPORTED; THEREFORE THE BEDDING MATERIAL SHALL BE HAND PLACED AND COMPACTED UNDER THE PIPE HAUNCH.

C. IF UNPAVED AREA IS WITHIN 10' OF PAVEMENT OR STRUCTURE THEN FOLLOW TRENCH GUIDELINES FOR PAVED AREA.

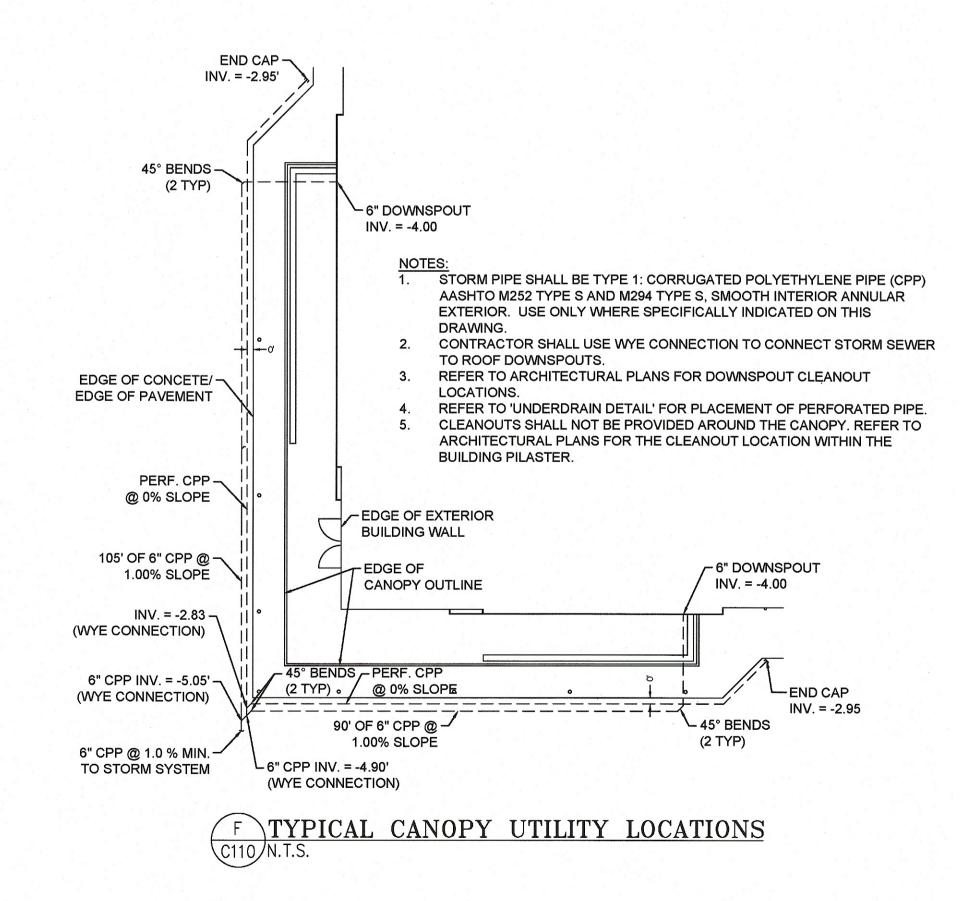
D. PIPE DIAMETER OF 4" OR SMALLER SHALL HAVE A MAXIMUM TRENCH WIDTH OF 12".

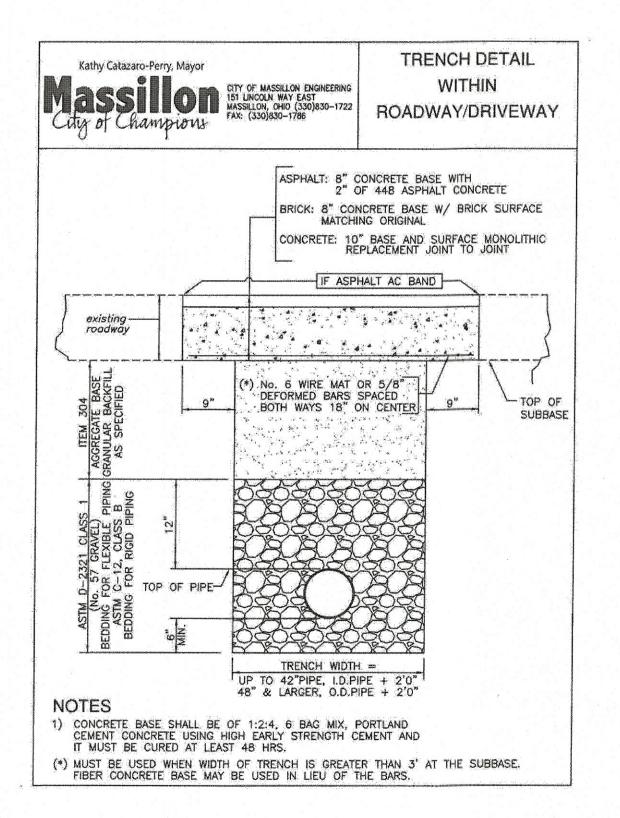
E. BEDDING AND INITIAL BACKFILL SHALL BE SAND FOR ALL UTILITY CONDUIT CARRYING WATER, ELECTRIC, GAS, AND TELEPHONE.

D TRENCH BACKFILL DETAIL C110 N.T.S.

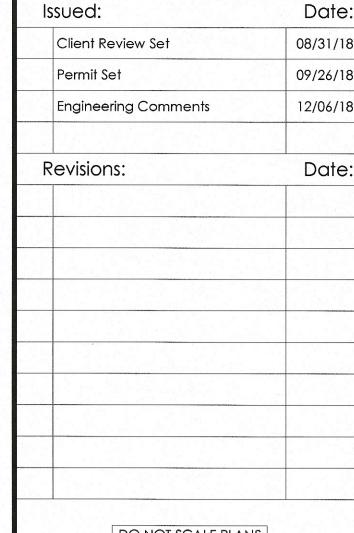


FILITY STRUCTURE BACKFILL DETAIL



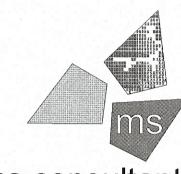






DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc.

KEA

engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

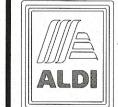
DRAWN BY:

REVIEWED BY:

Se



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



1319 W. 130th Street Hinckley, OH 44233 (330) 273-7351 (330) 273-7352 fax

ALDI Inc. Store #: 76
Massillon, OH
Erie Street South

Massillon, Ohio 44646 Stark County

Project Name & Location:

Utility Details

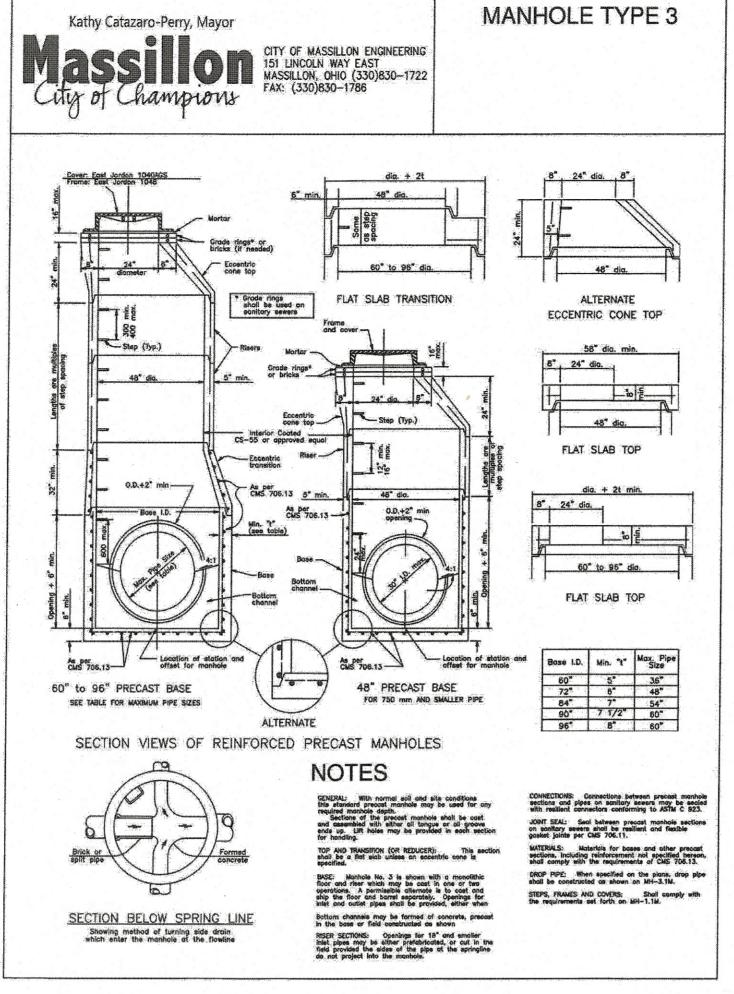
Drawing Name:
Prototype Rls.
07/27/18

40192-93

Project No.

Type:LHRD-V7ER

C-110



A MANHOLE TYPE 3

1040AGS COVER PRODUCT NUMBER 00103722 -1 1/2" RAISED LETTERING DESIGN FEATURES MATERIALS COVER-GRAY IRON ASTM A48 CL358 DESIGN LOAD HEAVY DUTY COATING TPICS 1040AGS DIPPED OPEN AREA ASTM A48 CLSES ✓ DESIGNATES MACHINE SURFACE PROD. NO. MO/DA/YEX 1 1/2" RAISED LETTERING **BOTTOM VIEW** Ø 25 1/4" O.D. OF GASKET GROOVE → DETAIL D SECTION A-A Corporate Headquarters 301 Spring Street PO Box 439 EJIW EASTJORDAN DRAWING DETAILS East Jordan, MI ORIGINAL DRAWING: 313 3/28/2010 49727-0439

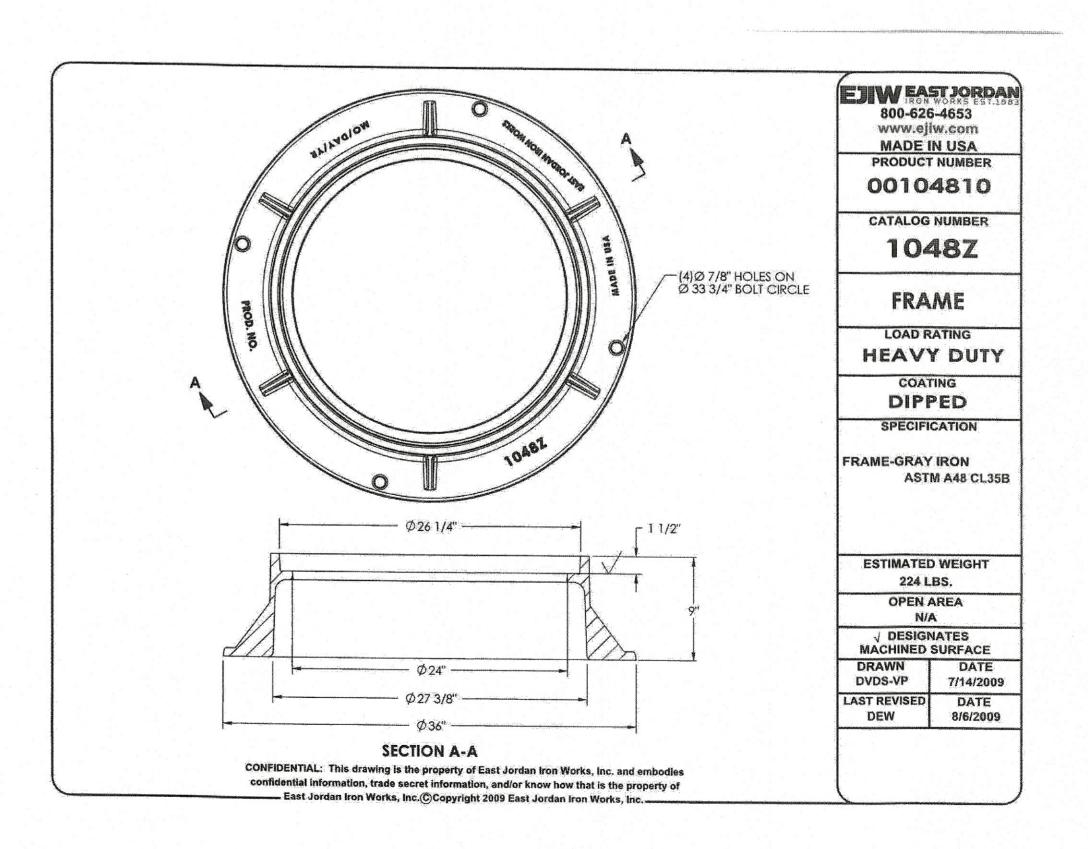
B EAST JORDAN MANHOLE COVER C111 N.T.S.

Weights (lbs/kg.) dimensions (inches/mm., and drowings provided for your guidance.
We reserve the light to madify specifications without prior notice.

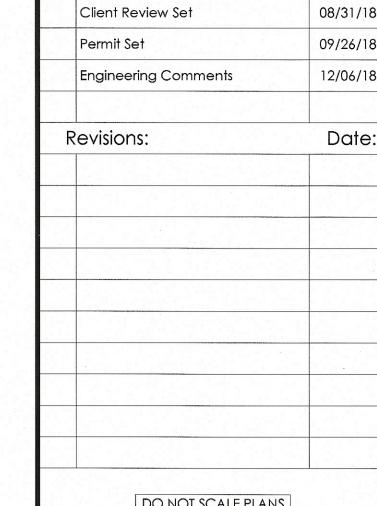
CONFIDENTIAL: This drawing is the property of East Jordan Iron works, Inc., and embodies confidential information, registered marks, trade secret information, and/or know how that is the property of East Jordan Iron Works, Inc. S/Copyright 2009 East Jordan Iron Works, Inc.

800.874.4100

GROUP*



C EAST JORDAN MANHOLE FRAME C111 N.T.S.

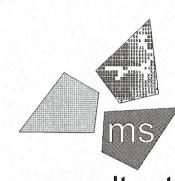


Issued:

Date:

DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc. engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

KEA

DRAWN BY:

REVIEWED BY:

DEF 4/13/2018



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



1319 W. 130th Street Hinckley, OH 44233 (330) 273-7351 (330) 273-7352 fax

ALDI Inc. Store #: 76 Massillon, OH Erie Street South

Massillon, Ohio 44646 Stark County

Project Name & Location:

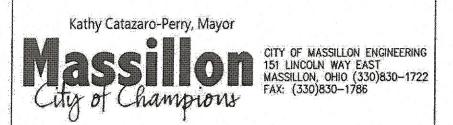
Utility Details

Drawing Name: Prototype Rls. 07/27/18

Project No. 40192-93

Type:LHRD-V7ER

C-111



SANITARY NOTES

SANITARY SEWER SPECIFICATIONS

SANITARY SEWER CONSTRUCTION PROPOSED FOR THIS PROJECT SHALL CONFORM TO THE LATEST CITY OF MASSILLON STANDARDS AND CONSTRUCTION AND MATERIALS SPECIFICATIONS, TEN STATE STANDARDS, AND THE LATEST EDITION OF THE ODOT CMS, OR MODIFIED BY THE CONTRACT DRAWINGS. IF A CONFLICT ARISES BETWEEN SAID STANDARDS IT SHALL BE AT THE DISCRETION OF THE CITY OF MASSILLON ENGINEER AS TO WHICH STANDARD SHALL GOVERN. THE PROJECT CONTRACT DRAWINGS SHALL GOVERN UNLESS NOTED OTHERWISE. SANITARY GRANTY SEWER PIPE AND FITTINGS SHALL BE PVC SDR 35 CONFORMING TO ASTM D-3034 UNLESS OTHERWISE NOTED. PVC COMPOUNDS SHALL CONFORM TO ASTM D-1784 PVC PIPE AND FITTINGS SHALL HAVE BELL AND SPICOT TYPE JOINTS CONFORMING TO ASTM D-3212 AND GASKETS CONFORMING TO ASTM F-477 BACKFILL IN SEWER TRENCHES SHALL CONFORM TO ODOT ITEM 603.10 AND BE PLACED IN LAYERS SUFFICIENT TO MEET THE COMPACTION REQUIREMENT OF 100% OF MAXIMUM BACKFILL IN SEVER TRENCHES SHALL CONFORM TO DOD'T ITEM 803.10 AND BE PLACED IN LAYERS SUFFICIENT TO MEET THE COMPACTION REQUIREMENT OF TOUT OF MAXIMUM LABORATORY DRY DENSITY PER ASTM D-698 AND THOROUGHLY COMPACTED WITH MACHINE MOUNDED COMPACTION EQUIPMENT. THE PLACING OF BACKFILL MATERIAL SHALL BE CONTINUED UNTIL THE TRENCH IS ENTIRELY FILLED AND COMPACTED WITH THE APPROVED GRANULAR MATERIAL TO THE GRADE CALLED FOR ON THE CONTRACT DRAMMOS. EXCAVATED MATERIAL CONFORMING TO GOOT ITEM 203 SHALL BE USED FOR BACKFILLING EXISTING STRUCTURES (AFTER REMOVAL) ONLY. CRUSHED GRAVEL CONFORMING TO GRADATION REQUIREMENTS OF ODOT ITEM 304 OR APPROVED EQUAL AS SHOWN IN ODOT TABLE 703-1 SHALL BE USED FOR BACKFILLING ALL SEWER TRENCH AREAS SHOWN ON THE PLANS AND AS DIRECTED BY THE CITY OF MASSILLON ENGINEER. FLOODING, JETTING, OR PUDDLING OF BACKFILL MATERIAL WILL NOT BE PERMITTED UNLESS APPROVED BY THE CITY OF MASSILLON ENGINEER. FLOODING, JETTING, OR PUDDLING OF BACKFILL MATERIAL WILL NOT BE PERMITTED UNLESS APPROVED BY THE CITY OF MASSILLON ENGINEER. COMPACTION TESTING OF THE BACKFILL BY A GEOTECHNICAL ENGINEER. MAY BE REQUIRED BY THE OWNER AT THE EXPENSE OF THE CONTRACTOR. SANITARY SEWERS SHALL BE AIR TESTED FOR LEAKAGE AND MANDREL TESTED FOR DEFLECTION. THE MAXIMUM ALLOWABLE PIPE DEFLECTION SHALL BE 5%

SANITARY SEWER MANHOLE FRAMES SHALL CONFORM TO EAST JORDON TYPE MASSILLON 1048 OR APPROVED EQUAL. SANITARY SEWER MANHOLE LIDS SHALL CONFORM TO EAST JORDON TYPE MASSILLON 1040AGS OR APPROVED EQUAL. PRIOR TO FINAL PAYMENT FOR AND ACCEPTANCE OF SANITARY SEWER INSTALLATION THE RESULTS OF THE AIR PRESSURE TESTS, TELEVISION TESTS AND MADREL TESTS SHALL BE FORWARDED TO THE CITY OF MASSILLON ENGINEER.

DEFLECTION TESTING

MAXIMUM ALLOWABLE PIPE DEFLECTION (REDUCTION IN VERTICAL INSIDE DIAMETER) SHALL BE 5%. DEFLECTION TESTS OF PIPE SHALL BE PERFORMED NOT SOONER THAN 30 DAYS AFTER THE BACKFILL HAS BEEN PROPERLY PLACED AND BEFORE FINAL ACCEPTANCE. LOCATIONS WITH EXCESS DEFLECTION SHALL BE EXCAVATED AND REPAIRED BY RE-BEDDING OR REPLACEMENT OF THE PIPE AT THE CONTRACTOR'S EXPENSE. DEVICES FOR TESTING INCLUDE A DEFLECTION ETER, OR PROPERLY SIZED (60, NO-GO) MANDREL OR SEWER BALL. THE DEFLECTION TESTING MUST BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES, FOR THE PURPOSE OF DEFLECTION MEASUREMENTS, THE BASE INSIDE PIPE DIAMETERS WITHOUT DEFLECTION ARE PROVIDED IN TABLE A. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE APPLIED TO THE BASE INSIDE DIAMETER IN DETERMINING THE MINIMUM PERMISSIBLE DIAMETER. IT MUST BE EMPHASIZED THAT TO INSURE ACCURATE TESTING, THE LINES MUST BE THOROUGHLY CLEANED.

TABLE A
INSIDE DIAMETERS FOR DEFLECTION MEASUREMENTS
OF ASTM D 3034 SDR 35 / SDR 21 PVC SEWER PIPE

SIZE	SDR	AVG. O.D.	BASE I.D.	DEFLECTION MANDREL
6*	35	6.275	5.742	5.54
8"	35	8.400	7.665	7.28
10"	35	10.500	9.563	9.08
12"	35	12.500	11.361	10.79

ALL SANITARY SEWERS, 8-INCH DIAMETER AND LARGER, MUST PASS AN INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE A COMPLETE INTERNAL INSPECTION DVO TO THE CITY OF MASSILLON ENGINEERING DEPARTMENT. THE RECORDING PROCEDURE SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON ENGINEERING DEPARTMENT STANDARDS. LEAKAGE TESTS

LEAKAGE TESTS SHALL BE PERFORMED WHICH MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING. THE TESTING METHODS SELECTED SHOULD TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGN LIFE OF THE SEWER COMPLETED AND ACCEPTED. WATER (HYDROSTATIC) TEST

THE LEAKAGE EXPILITATION OR INFILITATION SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY [9L/(MM OF PIPE DIAMETER KM D)] FOR ANY SECTION OF THE SYSTEM. AN EXPILITATION OR INFILITATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET (0.6 M).

AIR TESTING WILL BE CONDUCTED AS THE PROJECT IS BEING CONSTRUCTED. AT NO TIME WILL MORE THAN 900 FEET OF PIPE BE INSTALLED BEFORE AIR TESTING IS PERFORMED; SEWAGE WILL NOT BE DIVERTED TO ANY SECTION OF PIPE, REGARDLESS OF LENGTH, UNTIL ALL TESTING IS COMPLETED AND ACCEPTED. AFTER BACKFILLING A MANHOLE TO MANHOLE REACH OF SANITARY SEWER LINE, THE CONTRACTOR SHALL, AT HIS EXPENSE, CONDUCT THE LINE ACCEPTANCE TESTS. THE TESTS SHALL BE PERFORMED ACCORDING TO THE STATED PROCEDURES AND LINDER THE SUPERVISION OF THE CITY OF MASSILLON ENGINEER OR HIS REPRESENTATIVE. EQUIPMENT USED SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS AND BE APPROVED BY THE CITY OF MASSILLON ENGINEER:

6: FROM SEALED LINE TO CONTROL PANEL FOR CONTINUALLY MONITORING AIR PRESSURE RISE IN THE SEALED LINE.

TEST EQUIPMENT TESTING PROCEDURES SHALL BE AS FOLLOWS:

ALL PNEUMATIC PLUGS SHALL BE SEAL TESTED BEFORE BEING USED IN THE ACTUAL TEST INSTALLATION. ONE LENGTH OF PIPE SHALL BE LAID ON THE GROUND AN SEALED AT BOTH ENDS WITH THE PNEUMATIC PLUGS TO BE CHECKED. THE SEALED PIPE SHALL BE PRESSURED TO 5 PSIG. THE PLUGS MUST HOLD AGAINST THIS PRESSURE WITHOUT HAVING TO BE BRACED.

AFTER A MANHOLE TO MANHOLE REACH OF PIPE HAS BEEN BACKFILLED AND CLEANED, AND THE PNEUMATIC PLUGS ARE CHECKED BY THE ABOVE PROCEDURE. THE PLUGS SHALL BE PLACED IN THE LINE AT EACH MANHOLE. LOW PRESSURE AIR SHALL BE SLOWLY INTRODUCED INTO THIS SEALED LINE UNTIL THE INTERNAL AIR PRESSURE REACHES APPROXIMATELY 4 Kathy Catazaro-Perry, Mayor

CITY OF MASSILLON ENGINEERING 151 LINCOLN WAY EAST MASSILLON, OHIO (330)830-1722 FAX: (330)830-1786

SANITARY NOTES

CONTINUED: AIR TESTING AS PER ASTM F1417

AT LEAST TWO MINUTES SHALL BE ALLOWED FOR THE AIR PRESSURE TO STABILIZE. WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE 3.5 PSIG, THE AIR HOSE FROM THE CONTROL PANEL TO THE AIR SUPPLY SHALL BE DISCONNECTED. THE PORTION OF THE LINE BEING TESTED SHALL BE TERMED "ACCEPTABLE" IF THE TIME REQUIRED IN MINUTES FOR THE PRESSURE TO DECREASE FROM 3.5 TO 2.5 PSIG (GREATER THEN THE AVERAGE BACK PRESSURE OF ANY GROUNDWATER THAT MAY BE OVER THE PIPE) SHALL NOT BE LESS THAN THE TIME SHOWN FOR THE GIVEN DIAMETERS IN THE FOLLOWING TABLE:

PIPE MINIMUM DIAMETER TIME		MINIMUM FOR	TIME FOR LONGER	SPECIFICATION TIME LENGTH (L) SHOWN, MINUTES							
IN.	TIME MINUTES	MINUTES TIME, FT.	LENGTH, S	100 FT.	150 FT.	200 FT.	250 FT.	300 FT.	350 FT.	400 FT.	450 FT.
4	3:46	597	0.380 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	0.854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
8	7:34	298	1.520 L	7:34	7:34	7:34	7:36	7: 36	8:52	10:08	11:24
10	9:26	239	2.374 L	9:26	9: 26	9:26	9:53	11:52	13:51	15:49	17:48
12	11:20	198	3.416 L	11/20	11:20	11:24	14:15	17:05	19:56	22: 47	25:38
15	14:10	159	6.342 L	14:10	14:10	17:46	22:15	26;42	31:09	35: 36	40:04
18	17:0	133	7.692 L	17:00	19:13	25:38	32:09	38:27	44:52	51:16	57:41

IN AREAS WHERE GROUND WATER IS KNOWN TO EXIST, THE CONTRACTOR SHALL INSTALL A 1/2 INCH DIAMETER CAPPED PIPE NIPPLE APPROXIMATELY 10 INCHES LONG, THROUGH THE MANHOLE WALL ON TOP OF ONE OF THE SANITARY SEWER LINES ENTERING THE MANHOLE. THIS SHALL BE DONE AT THE THE SANITARY SEWER LINE IS INSTALLED.

IMMEDIATELY PRIOR TO THE PERFORMANCE OF THE LINE ACCEPTABILITY TEST, THE GROUND WATER SHALL BE DETERMINED BY REMOVING THE PIPE CAP, BLOWING AIR THROUGH THE PIPE NIPPLE IN THE GROUND SO AS TO CLEAR IT, AND THEN CONNECTING A CLEAR PLASTIC TUBE TO THE NIPPLE. THE PLASTIC TUBE SHALL BE VERTICAL AND A MEASUREMENT OF THE HEIGHT, IN FEET OF WATER OVER THE INVERT OF THE PIPE, SHALL BE TAKEN AFTER THE WATER HAS STOPPED RISING IN THIS PLASTIC TUBE. THE HEIGHT, IN FEET OF WATER OVER THE INVERT OF THE PIPE, SHALL BE TAKEN AFTER THE WATER HAS STOPPED RISING IN THIS PLASTIC TUBE. AIR TEST PRESSURE IS TO BE INCREASED BY 0.433 PSI FOR EACH FOOT THE GROUND WATER IS ABOVE THE INVERT OF THE SEWER LINE BEING TESTED. THE ALLOWABLE DROP OF ONE POUND AND THE TIMING OF THE TEST REMAIN THE SAME.

IF A LINE ACCEPTABILITY TEST IS BEING CONDUCTED ON MORE THAN ONE MANHOLE REACH OF PIPE, THE ENTIRE SECTION BEING TESTED SHALL MEET THE LINE ACCEPTABILITY REQUIREMENTS AS IF ONLY ONE (1) OF THE MANHOLE REACHES IN THE SECTION WERE BEING TESTED. NEGATIVE AIR PRESSURE (VACUUM) TESTING OF MANHOLES AS PER ASTM C-1244

PREPARATION OF THE MANHOLE: A. ALL LIFT HOLES SHALL BE PLUGGED.

B. ALL PIPES ENTERING THE MANHOLE SHALL BE TEMPORARILY PLUGGED, TAKING CARE TO SECURELY BRACE THE PIPES AND PLUGS TO PREVENT THEM FROM BEING DRAWN INTO THE MANHOLE.

A. THE TEST HEAD SHALL BE PLACED AT THE TOP OF THE MANHOLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A VACUUM OF 10 IN. OF MERCURY SHALL BE DRAWN ON THE MANHOLE, THE VALVE ON THE VACUUM LINE OF THE TEST HEAD CLOSED; AND THE VACUUM FUMP SHUT OFF. THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9 IN OF MERCURY. THE MANHOLE SHALL PASS IF THE TIME FOR THE VACUUM READING TO DROP FROM 10 IN. OF MERCURY TO 9 IN. OF MERCURY MEETS OR EXCEEDS THE VALUES INDICATED IN TABLE BELOW.

BEPTH (FT) 30 33 36 42 48 54 60 66 TIME, IN SECONDS 8 11 12 14 17 20 23 26 29 10 14 15 18 21 25 29 33 36 12 17 18 21 25 30 35 39 43 14 20 21 25 30 35 39 43 14 20 21 25 30 35 41 46 51 16 22 24 39 34 40 46 52 58 18 25 27 32 38 45 52 59 65	A Print A Print			MINIMU		IMES FOR ETER, IN.	MANITULE			
### TIME, IN SECONDS 8	иеми (гт) —	30	33	36	42	48	54	60	66	72
8 11 12 14 17 20 23 26 29 10 14 15 18 21 25 29 33 36 12 17 18 21 25 30 35 39 43 14 20 21 25 30 35 41 46 51 16 22 24 39 34 40 46 52 58 18 25 27 32 38 45 52 59 65					TIME, I	N SECOND	S			
10 14 15 18 21 25 29 33 36 12 17 18 21 25 30 35 39 43 14 20 21 25 30 35 41 46 51 16 22 24 39 34 40 46 52 58 18 25 27 32 38 45 52 59 65	8	11	12	14	17	20	23	26	29	33
14 20 21 25 30 35 41 46 51 16 22 24 39 34 40 46 52 58 18 25 27 32 38 45 52 59 65	10	14	15	18	21	25	29	33	36	41
16 22 24 39 34 40 46 52 58 18 25 27 32 38 45 52 59 65	14	20	21	25	30	35	41	46	51	57
18 25 27 32 38 45 52 59 65	16	22	24	39	34	40	46	52	58	67
	18	25	27	32	38	45	52	59	65	73

CLEAN WATER STATEMENT

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE FROMBITED.

RELATION TO WATER MAINS SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. WORKING AREA

NO EXCAVATION WITH SIDE SLOPES STEEPER THAN 2:1 AND/OR DEEPER THAN 2', OPEN CASTINGS AND PIPES SHALL BE LEFT EXPOSED WHEN THE SITE IS UNATTENDED BY THE CONTRACTOR. THE CONTRACTOR SHALL SECURE ALL SUCH EXCAVATIONS, OPEN CASTINGS AND PIPES AGAINST UNAUTHORIZED ENTRY COVERING WITH STEEL PLATES, TEMPORARY BACKFILLING, FENCING AND SECURITY SERVICES SHALL BE INCLUDED IN THE PRICE BID FOR THE WORK. FINAL APPROVAL

A VIDEO IN THE FORM OF DVD WILL BE MADE BY THE CONTRACTOR AND SUBMITTED TO THE CITY OF MASSILLON ENGINEER PRIOR TO THE PROJECT COMMENCING. AFTER THE FINAL INVOICE IS SUBMITTED THE SITE SHALL BE VIDEOED AGAIN BY THE CONTRACTOR. ANY DISCREPANCIES WILL BE RESOLVED PRIOR TO FINAL PAYMENT. AS BUILT DRAWINGS SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE CITY OF MASSILLON ENGINEER IN A CLEAR AND LEGENDABLE MANNER PRIOR TO FINAL INVOICE. COST OF THIS WORK SHALL BE INCLUDED IN ITEM 623 CONSTRUCTION STAKING

A SANITARY SEWER GENERAL NOTES

	Permit Set	0	9/26/1
	Engineering Comments	1	2/06/1
F	Revisions:		Date

Issued:

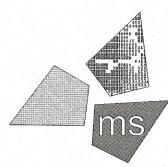
Client Review Set

Date:

08/31/18

DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



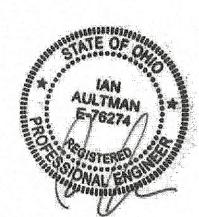
ms consultants, inc.

KEA

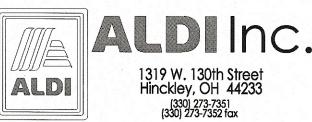
engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY:

REVIEWED BY:



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDI Inc. Store #: 76

Massillon, OH Erie Street South

Massillon, Ohio 44646 Stark County

Project Name & Location:

Utility Details

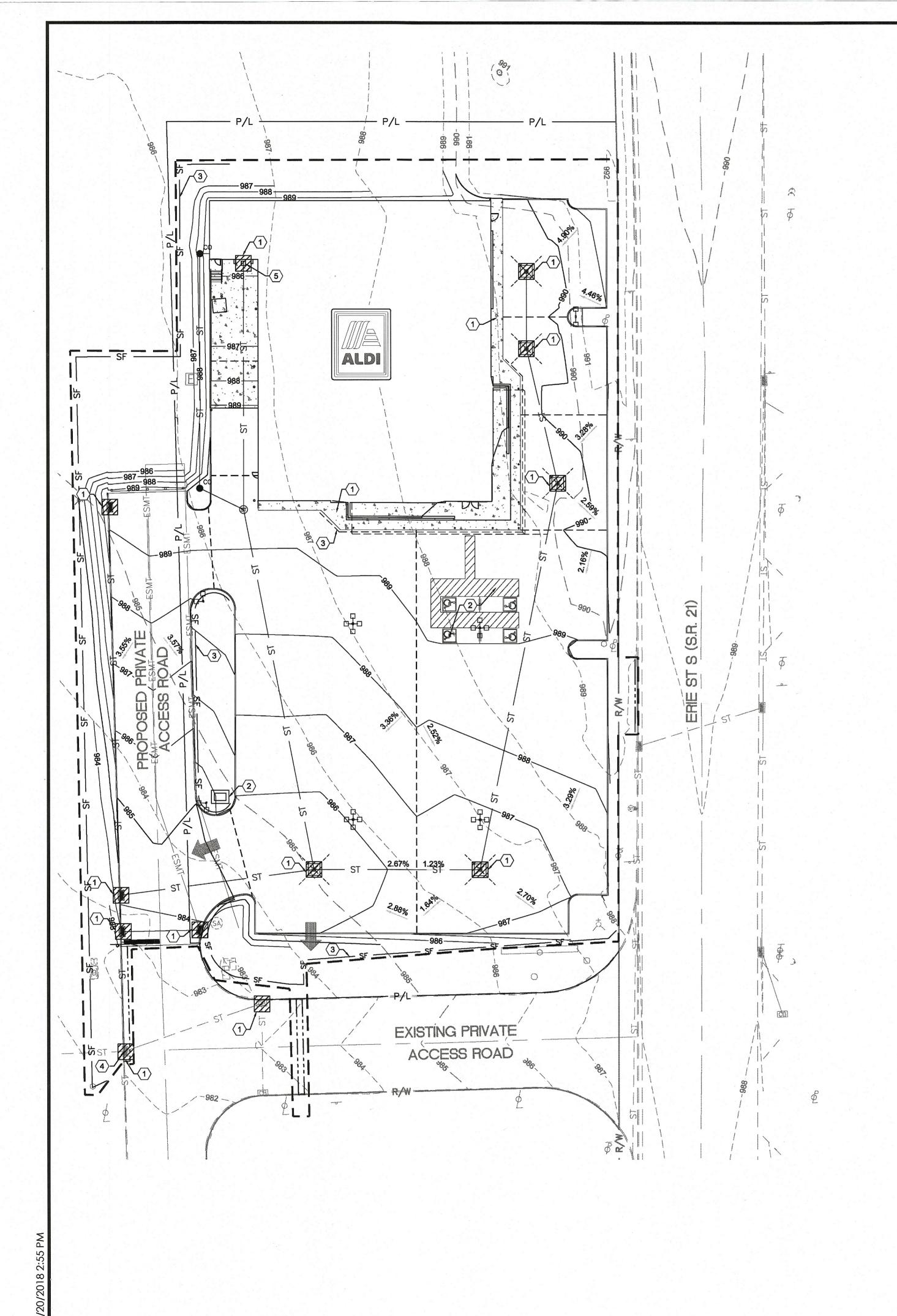
Drawing Name: Prototype Rls. 07/27/18

Project No. 40192-93

Type:LHRD-V7ER

C-112

Drawing No. Scale: As Noted



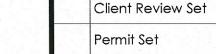
KEYED NOTES:

- 1) INLET PROTECTION, SEE DETAIL ON SHEET C-114.
- CONCRETE WASHOUT, SEE DETAIL ON SHEET C-114. A MANUFACTURED OUTPAK CONCRETE WASHOUT BIN OR OTHER APPROVED EQUAL MAY BE UTILIZED TO LIMIT DISTURBANCE OF SURROUNDING AREAS.
- SILT FENCE, SEE DETAIL ON SHEET C-114. SILT FENCE AT TOE OF SLOPE SHALL BE REINFORCED TO PREVENT FAILURE.

LEGEND

FEATURE DESCRIPTION **INLET PROTECTION** ----- SF ----- SILT FENCE LIMITS OF DISTURBANCE CONCRETE WASHOUT AREA MAJOR FLOOD ROUTING TRUCK WELL INLET CATCH BASIN STORM MANHOLE

THE CONTRACTOR SHALL PREVENT AND/OR REDUCE AND CONTROL SOIL EROSION RESULTING FROM THE PROPOSED IMPROVEMENTS. THE USE OF SILT FENCING, JUTE MATTING, TEMPORARY SEEDING, SILT CHECKS, INLET PROTECTION AROUND ALL CATCH BASINS, STABILIZED CONSTRUCTION ENTRANCE(S), ETC. WILL BE REQUIRED. SEDIMENT CONTROL STRUCTURES/DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL RAINWATER AND LAND DEVELOPMENT - OHIO'S STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION. SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH ON THE APPROVED STORM WATER POLLUTION PREVENTION PLAN IF APPLICABLE, OR AS DETAILED ON THE CONSTRUCTION PLANS, AS SPECIFIED BY THE CITY OF MASSILLON.



Issued:

08/31/18 09/26/18 12/06/18 Engineering Comments

Date:

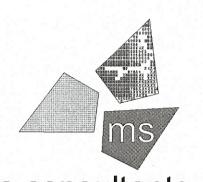
Date:

Revisions:

DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate.

Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc. engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

KEA

DRAWN BY:

REVIEWED BY:

PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



ALDIInc. 1319 W. 130th Street Hinckley, OH 44233 (330) 273-7351 (330) 273-7352 fax

ALDI Inc. Store #: 76 Massillon, OH

Erie Street South

Massillon, Ohio 44646

Stark County

Project Name & Location:

SWPPP

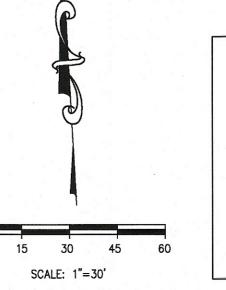
Drawing Name:

Prototype Rls. 07/27/18

40192-93 Type:LHRD-V7ER

C-113

Project No.





SITE DATA
OWNER/DEVELOPER: ALDI, INC. PLAN DESIGNER: ms consultants, inc. 2221 SCHROCK ROAD COLUMBUS, OHIO 43229 DEVELOPMENT TYPE: COMMERCIAL SITE ACREAGE: 2.29 DISTURBED ACREAGE: 2.36 PRE-DEVELOPMENT RUNOFF COEFFICIENT: 0.20 POST-DEVELOPMENT RUNOFF COEFFICIENT: 0.65 SITE VEGETATION: GRASS

ADJACENT AREAS: COMMERCIAL RECEIVING WATERS: SITE ROUTES THROUGH EXISTING STORM SYSTEM AND IS ULTIMATELY TRIBUTARY TO THE TUSCARAWAS RIVER

STORM WATER MANAGEMENT: EXISTING DETENTION POND

THE SITE DRAINS TO THE SOUTHWEST, AND TIES INTO THE EXISTING REGIONAL DETENTION BASIN THAT WAS SIZED TO ACCOMMODATE THE DEVELOPMENT OF THE FUTURE OUTLOTS BOTH IN WATER QUANTITY AND WATER QUALITY.

CpA - CHILI SILT LOAM, 0 TO 2 PERCENT SLOPES CpB - CHILI SILT LOAM, 2 TO 6 PERCENT SLOPES

SEQUENCE OF CONSTRUCTION:

- 1. CONTACT STARK SOIL AND WATER CONSERVATION DISTRICT TO SCHEDULE A PRE-CONSTRUCTION MEETING AT (330) 451-7644 PRIOR TO EARTH MOVING ACTIVITY.
- 2. INSTALL SILT FENCE AND INSTALL INLET PROTECTION FOR PHASE 1 SWPPP AT THE LOCATIONS INDICATED PRIOR TO ANY EARTH DISTURBANCE.
- 3. DEMOLISH AND DISPOSE OF PAVEMENT AND DRIVES AS INDICATED. 4. CONSTRUCT CONCRETE WASHOUT AREA.
- CONSTRUCT STORM SEWER SYSTEM AND OTHER UTILITIES. INSTALL INLET PROTECTION.
- 6. CONSTRUCT BUILDING AND PAVEMENT AREAS. RESTORE INLET PROTECTION. BEGIN FINAL GRADING THROUGHOUT THE REMAINDER OF SITE
- 8. INSTALL LANDSCAPING AND SPREAD PERMANENT SEEDING ON NON-PAVED AREAS OF THE SITE. 9. ONCE 70% VEGETATIVE COVERAGE IS ACHIEVED, REMOVE SILT FENCE AND INLET PROTECTION.

MAINTENANCE NOTES:

THE OWNER'S REPRESENTATIVE WILL INSPECT ALL EROSION PREVENTION AND SEDIMENTATION CONTROL MEASURES AT LEAST TWICE WEEKLY AND AT LEAST 72 HOURS APART, AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT TO ASSURE THAT THE MEASURES ARE FUNCTIONING PROPERLY. THE OWNER/CONTRACTOR SHALL KEEP INSPECTION REPORTS, COPIES OF WHICH SHALL BE PROVIDED TO THE CITY OF MASSILLON UPON REQUEST. MAINTENANCE NEEDS OF VEGETATION, EPSCs, AND OTHER PROTECTIVE MEASURES ARE TO BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT STORM EVENT OR WITHIN 7 DAYS OF IDENTIFICATION, WHICHEVER IS SOONER.

CONSTRUCTION ROAD/CONSTRUCTION ENTRANCE

BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.

FILTER FABRIC FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY

SEDIMENT THAT IS COLLECTED WILL BE DISTRIBUTED ON THE PROTECTED PORTION OF THE SITE AND STABILIZED. ALL STOCKPILES OF EARTH AND TOPSOIL WILL BE PROTECTED WITH TEMPORARY SEEDING OR OTHER MEANS TO PREVENT EROSION.

SHOULD THE FABRIC ON A SILT 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 SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF (1/2) THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

INLET PROTECTION:

ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS (INLET PROTECTION), WHICH WILL BE MAINTAINED AND MODIFIED AS REQUIRED AS CONSTRUCTION PROGRESSES.

THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRS MADE AS NEEDED.

SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF (1/2) THE DESIGN OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.

ANY SEDIMENT BLOCKING DRAINAGE AT INLETS THAT CREATES STANDING WATER ON ROADWAYS AND/OR DRIVEWAYS SHALL BE

INLET PROTECTION STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

GENERAL LAND CONSERVATION NOTES:

ALL STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED ACCORDING TO THE FOLLOWING CRITERIA:

- PERMANENT STABILIZATION AREAS THAT WILL BE DORMANT FOR MORE THAN A YEAR. WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.
- AREAS WITHIN 50 FT OF A STREAM AND AT FINAL GRADE. WITHIN 2 DAYS OF REACHING FINAL GRADE. ANY OTHER AREAS AT FINAL GRADE. WITHIN 2 DAYS OF REACHING FINAL GRADE.
- TEMPORARY STABILIZATION AREAS WITHIN 50 FT OF A STREAM AND NOT AT FINAL GRADE. WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF
- THE AREA WILL REMAIN IDLE FOR MORE THAN 21 DAYS. ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 21 DAYS BUT LESS THAN 1 YEAR, AND NOT WITHIN
- 50 FT OF A STREAM. WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA.
- DISTURBED AREAS THAT WILL BE IDLE OVER WINTER SHALL BE STABILIZED PRIOR TO THE ONSET OF WINTER

ALL STORM SEWER, SANITARY SEWER, WATER MAIN AND SERVICE TRENCHES SHALL BE SEEDED AND MULCHED WITHIN 14 DAYS AFTER BACKFILL IF INSTALLATION IS THROUGH STABILIZED AREAS. NO MORE THAN 250 FEET OF TRENCH WILL BE OPEN AT ANY ONE

ELECTRICAL POWER, TELEPHONE, CABLE TELEVISION AND GAS SUPPLY TRENCHES SHALL BE COMPACTED, SEEDED AND MULCHED WITHIN 14 DAYS AFTER BACKFILL IF INSTALLATION IS THROUGH STABILIZED AREAS.

ALL TEMPORARY DIVERSIONS, SEDIMENT BASIN EMBANKMENTS AND EARTH STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER WITHIN 7 DAYS AFTER GRADING.

ANY DISTURBED AREA NOT STABILIZED WITH SEEDING, SODDING, PAVING OR BUILT UPON BY NOVEMBER 1ST, OR AREAS DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HYDRO MULCH AT THE RATE OF ONE (1) TON PER ACRE AND OVER-SEEDED BY APRIL 15TH.

AT THE COMPLETION OF CONSTRUCTION, ALL DENUDED AREAS SHALL BE STABILIZED AND TEMPORARY SEDIMENTATION & EROSION CONTROLS SHALL BE REMOVED ONCE THE SITE HAS BEEN STABILIZED.

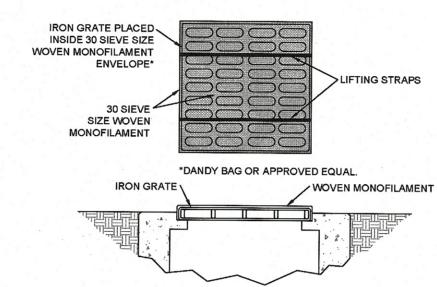
THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES AND THE REMOVAL OF THE EROSION AND SEDIMENT CONTROL DEVICES AFTER THE NOTICE OF TERMINATION IS EXECUTED.

DUST CONTROL

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

SPECIFICATIONS FOR DUST CONTROL

- 1. VEGETATIVE COVER AND/MULCH APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 21 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
- 2. WATERING SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS. 3. SPRAY-ON ADHESIVES APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURER'S
- INSTRUCTIONS. 4. STONE GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR
- COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS. 5. BARRIERS EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR
- OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL. OPERATION AND MAINTENANCE - WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL. STREET CLEANING - PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED,



UTILIZING A STREET SWEEPER OR BUCKET -TYPE END LOADER OR SCRAPER.

CATCH BASIN INLET PROTECTION

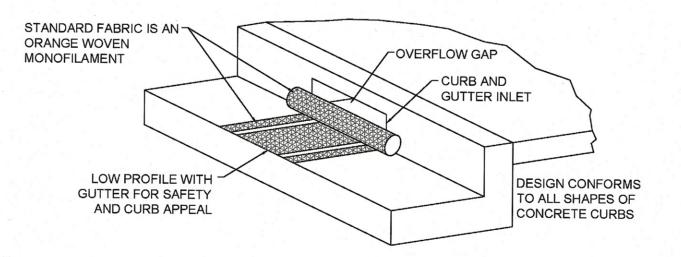
NSTALLATION AND MAINTENANCE GUIDELINES

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

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

CATCH BASIN INLET PROTECTION TO BE REMOVED ONCE 70% OF SITE VEGETATION HAS BEEN ESTABLISHED.

BEAVER DAM® OR APPROVED EQUAL



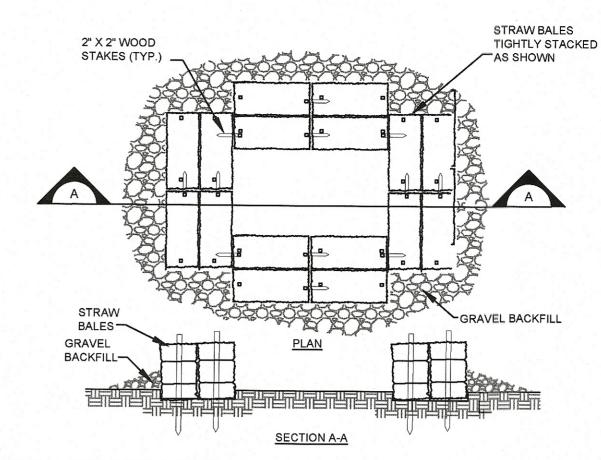
CURB INLET PROTECTION

INSTALLATION AND MAINTENANCE GUIDELINES

THE EMPTY DAM SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW ON POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME (STREET SIDE FIRST), THEN LOWER BACK EDGE WITH DAM INTO PLACE. THE DAM SHOULD BE PARTIALLY BLOCKING THE CURB HOOD WHEN INSTALLED PROPERLY.

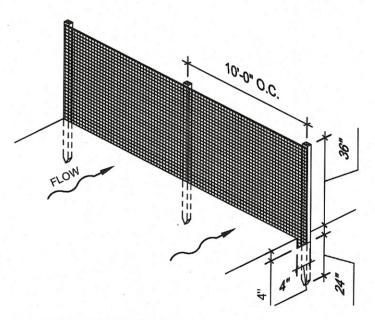
REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DAM. AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

CURB INLET PROTECTION TO BE REMOVED ONCE 70% OF SITE VEGETATION HAS BEEN ESTABLISHED.



CONCRETE WASHOUT

- 1. A MANUFACTURED OUTPAK WASHOUT CONCRETE WASHOUT BIN OR OTHER APPROVED EQUAL MAY BE UTILIZED TO LIMIT DISTURBANCE OF SURROUNDING AREAS.
- 2. THE RESIDUE OR CONTENTS OF ALL CONCRETE MIXERS, DUMP TRUCKS, OTHER CONVEYANCE EQUIPMENT AND FINISHING TOOLS SHALL BE WASHED INTO CONCRETE CLEAN-OUT STRUCTURES CONSISTING OF A STRAW BALE BARRIER WITH GRAVEL BACKFILL. THE LENGTH AND WIDTH OF THESE STRUCTURES SHALL BE AS DETERMINED BY THE CONTRACTOR TO FACILITATE THE PARTICULAR EQUIPMENT USED. THESE STRUCTURES SHALL BE CONSTRUCTED ON LEVEL GROUND AT LEAST 100' FROM THE NEAREST WATERCOURSE, DRAINAGE SWALE OR INLET. AT NO TIME SHALL THE STRUCTURE BE ALLOWED TO BE MORE THAN 50% FULL. THE CONTRACTOR SHALL MAINTAIN THESE PONDS UNTIL ALL CONCRETE PLACEMENT IS COMPLETE FOR THE PROJECT.
- 3. EMBED THE STRAW BALES 4" INTO THE SOIL. PROVIDE TWO ROWS OF BALES, AS SHOWN ON THE DETAIL, WITH ENDS AND CORNERS TIGHTLY ABUTING. ORIENT THE STRAW BALES LENGTHWISE WITH BINDINGS AROUND THE SIDES OF THE BALES SO THE WIRE DOES NOT CONTACT THE SOIL. DRIVE 2"X2" WOOD STAKES THROUGH EACH BALE, TO SECURELY ANCHOR THE BALE AND CONNECT ADJACENT BALES. GRAVEL BACKFILL SHALL BE PROVIDED AND TAMPED AROUND THE OUTSIDE
- PERIMETER OF THE BALES TO PREVENT EROSION AND FLOW AROUND THE BALES. 4. THE INTENT OF THESE STRUCTURES IS TO COLLECT ALL CONCRETE WASH OUT WATER AND ALLOW IT TO DRY TO A SOLID MATERIAL. AFTER DRYING, THE SOLID MATERIAL CAN BE REMOVED WITH A LOADER OR EXCAVATOR FOR PROPER DISPOSAL. WASH OUT WILL NOT BE PERMITTED IN ANY OTHER AREAS.
- 5. USE THE MINIMUM AMOUNT OF WATER TO WASH THE VEHICLES AND EQUIPMENT. NEVER DISPOSE OF WASH OUT INTO THE STREET, STORM INLET, DRAINAGE SWALE OR WATERCOURSE. DISPOSE OF SMALL AMOUNTS OF EXCESS DRY CONCRETE, GROUT AND MORTAR IN THE TRASH. ANY SOAPS THAT ARE UTILIZED SHALL BE PHOSPHATE-FREE AND
- 6. ADDITIONAL CONCRETE CLEAN-OUT STRUCTURES SHALL BE CONSTRUCTED WITHIN THE SPECIFIED AREA AS NEEDED BASED UPON THE VOLUME OF WASH OUT GENERATED DAILY.
- 7. AREA UNDER AND AROUND CONCRETE WASHOUT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS BEFORE CLOSEOUT AND CONCLUSION OF PROJECT



TEMPORARY SILT FENCE

- 1. THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.
- 2. THE HEIGHT OF A SEDIMENT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
- 3. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
- 4. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
- 5. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- 6. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 7. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- 8. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSURE POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
- . THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC. 10. SEDIMENT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE
- UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

- SEDIMENT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 2. SHOULD THE FABRIC ON A SEDIMENT 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. 3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS
- REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER. 4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SEDIMENT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

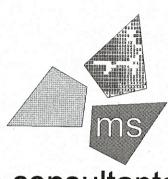
	2010.
Client Review Set	08/31/18
Permit Set	09/26/18
Engineering Comments	12/06/18
Revisions:	Date:

Date:

Issued:

DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc.

engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY:

KEA

REVIEWED BY:

Seal



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



(330) 273-7351 (330) 273-7352 fax ALDI Inc. Store #: 76

Hinckley, OH 44233

Massillon, OH Erie Street South

Stark County roject Name & Location:

Massillon, Ohio 44646

SWPPP Notes & Details

Drawing Name: Prototype Rls. 07/27/18

40192-93

Project No.

Type:LHRD-V7ER

C-114

Scale: As Noted

Drawina No.

TEMPORARY SEEDING

TEMPORARY SEEDINGS ESTABLISH TEMPORARY COVER ON DISTURBED AREAS BY PLANTING APPROPRIATE RAPIDLY GROWING ANNUAL GRASSES OR SMALL GRAINS. TEMPORARY SEEDING PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS, GRASSES, WHICH ARE QUICK GROWING, ARE SEEDED AND USUALLY MULCHED TO PROVIDE PROMPT, TEMPORARY SOIL STABILIZATION. IT EFFECTIVELY MINIMIZES THE AREA OF A CONSTRUCTION SITE PRONE TO EROSION AND SHOULD BE USED EVERYWHERE THE SEQUENCE OF CONSTRUCTION OPERATIONS ALLOWS VEGETATION TO BE ESTABLISHED.

SPECIFICATIONS FOR TEMPORARY SEEDING:

SEEDING DATES	SPECIES	LB/1000 SF	LB/ACREA
MAR 1 TO AUG 15	OATS	3	128-4 BUSHEL
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYGRASS	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	ANNUAL RYEGRASS	1.25	55
	PERENNIAL RYEGRASS	3.25	142
	CREEPING RED FESCUE	0.40	17
	KENTUCKY BLUEGRASS	0.40	17
	OATS	3	128-3 BUSHEL
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
AUG 16 TO NOV	RYE	3	112-3 BUSHEL
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	WHEAT	3	120-2 BUSHEL
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	PERENNIAL RYE	1	40
	TALL FESCUE	1	40
	ANNUAL RYEGRASS	1	40
	ANNUAL RYEGRASS	1.25	40
	PERENNIAL RYEGRASS	3.25	40
	CREEPING RED FESCUE	0.40	40
	KENTUCKY BLUEGRASS	0.40	

- 1. 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
- 2. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEEDED WITHIN 7 DAYS
- 3. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHOULD NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
- 4. SOIL AMENDMENTS TEMPORARY VEGETATION SEEDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED.
- SEEDING METHOD SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. 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:

- 1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH. WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES ON FAVORABLE, VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
- MATERIALS: 2.1. STRAW IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT A RATE OF 2 TONS
- PER ACRE OR 90 LBS./ 1,000 SQ. FT. (2-3 BALES) HYDROSEEDERS IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2000 LBS./ AC. OR 46 LB./
- 1,000-SQ.-FT. OTHER OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO
- MANUFACTURER[IFS RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TON/ AC. 3. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING
- 3.1. 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 LEFT TO A LENGTH OF APPROXIMATELY 6 INCHES. MULCH NETTING NETTING SHALL BE USED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
- NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
- SYNTHETIC BINDERS SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TRACK OR EQUIVALENT MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
- WOOD-CELLULOSE FIBER WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WT. OF 750 LB./AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. / 100 GAL.

PERMANENT SEEDING

PERENNIAL VEGETATION IS ESTABLISHED ON AREAS THAT WILL NOT BE RE-DISTURBED FOR PERIODS LONGER THAN 12 MONTHS. PERMANENT SEEDING INCLUDES SITE PREPARATION, SEEDBED PREPARATION, PLANTING SEED. MULCHING, IRRIGATION AND MAINTENANCE.

PERMANENT VEGETATION IS USED TO STABILIZE SOIL, REDUCE EROSION, PREVENT SEDIMENT POLLUTION, REDUCE RUNOFF BY PROMOTING INFILTRATION, AND PROVIDE STORMWATER QUALITY BENEFITS OFFERED BY

SPECIFICATION FOR PERMANENT SEEDING

SITE PREPARATION:

- 1. SUBSOILER, 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
- SEEDBED PREPARATION AND SEEDING. 3. TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

SEEDBED PREPARATION:

- 1. TEST THE SOIL CONDITIONS FOR FEEDING BEFORE STARTING SEEDING AND MULCHING. 2. LIME AGRICULTURAL GROUND LIMESTONE 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 POUNDS PER 1,000-SQ. FT. OR 2 TONS PER ACRE. 3. FERTILIZER FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. CONTRACTOR SHALL
- PERFORM LAB TESTING ON SOIL AND PROVIDE A CERTIFIED FERTILIZER RATIO FOR THE SITE SOILS AND SPECIFIED SEED MIX. 4. 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 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

SEEDING DATES AND SOIL CONDITIONS:

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.

DORMANT SEEDINGS:

- 1. SEEDINGS SHOULD NOT BE MADE 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.
- 2. THE FOLLOWING METHODS MAY BE USED FOR DORMANT SEEDING: 2.1. FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE
- OF SEEDING. 2.2. FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZE, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE
- SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING. 2.3. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR
- HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED. 2.4. WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

MULCHING:

- MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL.
- 2.1. STRAW IF STRAW IS USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 POUNDS (TWO TO THREE BALES) PER 1,000-SQ. FT. THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY APPLIED 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.
- 2.2. HYDROSEEDERS IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE APPLIED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
- 2.3. OTHER OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.
- 3. STRAW AND MULCH ANCHORING METHODS-STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO
- MINIMIZE LOSS BY WIND OR WATER: 3.1. 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 INCHES. 3.2. MULCH NETTING NETTING SHALL BE USED ACCORDING TO THE MANUFACTURER[]FS RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF
- CONCENTRATED RUNOFF AND ON CRITICAL SLOPES. 3.3. ASPHALT EMULSION ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURE OR AT
- THE RATE OF 160 GALLONS PER ACRE. 3.4. SYNTHETIC BINDERS SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET,
- TERRA TACK OR EQUIVALENT MAY BE USED AT RATES SPECIFIED BY THE MANUFACTURER. WOOD CELLULOSE FIBER WOOD CELLULOSE FIBER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER WITH THE

PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY WEATHER OR ON ADVERSE SITE CONDITIONS, WHICH REQUIRE ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH. IRRIGATION RATES SHALL BE MONITORED TO PREVENT EROSION AND DAMAGE TO SEEDED AREAS FROM EXCESSIVE RUNOFF. CONTRACTOR SHALL MAINTAIN PERMANENT SEEDING FOR UP TO ONE YEAR FROM SUBSTANTIAL COMPLETION TO FIX, REPAIR, WATER, REFERTILIZE AND/OR RESEED GRASSED AREAS.

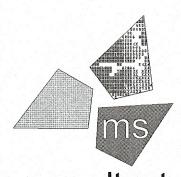
MIXTURE CONTAINING A MAXIMUM OF 50 POUNDS CELLULOSE PER 100 GALLONS OF WATER.

	SEED	ING RATE	NOTES	
SEED MIX	LBS/ACRE LBS/1,000 S		NOTES	
	GENI	ERAL USE		
CREEPING RED FESCUE	20-40 ½-1		FOR CLOSE MOWING AND FOR	
DOMESTIC RYEGRASS	10-20	1/4-1/2	WATERWAYS WITH <2.0 FT/SEC VELOCITY	
KENTUCKY BLUEGRASS	20-40	1/2-1		
TALL FESCUE	40-50	1-11/4		
TURF-TYPE (DWARF) FESCUE	90	21/4		
	STEEP BANK	S OR CUT SLOPES		
TALL FESCUE	40-50	1-11/4		
CROWN VETCH	10-20	1/4-1/2	DO NOT SEED LATER THAN AUGUST	
TALL FESCUE	20-30	1/2-3/4		
FLAT PEA	20-25	1/2-3/4	DO NOT SEED LATER THAN	
TALL FESCUE	20-30	1/2-3/4	AUGUST	
	ROAD DITCH	HES AND SWALES		
TALL FESCUE	40-50	1-11/4		
TURF-TYPE (DWARF) FESCUE	90	21/4		
KENTUCKY BLUE GRASS	5	1/10		
	L	AWNS		
KENTUCKY BLUEGRASS	100-120	2		
PERENNIAL RYEGRASS		2		
KENTUCKY BLUEGRASS	100-120	2	FOR SHADED AREAS	
CREEPING RED FESCUE		1-1/2		

	Issued:	Date:
	Client Review Set	08/31/18
	Permit Set	09/26/18
	Engineering Comments	12/06/18
	Revisions:	Date:
_		
	그렇게 되고 있었는 그 이번 얼마나를 받는 바로 이용했다. 얼마나	

DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc. engineers, architects, planners 2221 Schrock Road

KEA

IA

Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY:

REVIEWED BY:

PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



1319 W. 130th Street Hinckley, OH 44233 (330) 273-7351 (330) 273-7352 fax

ALDI Inc. Store #: 76 Massillon, OH Erie Street South

Massillon, Ohio 44646

Stark County Project Name & Location:

SWPPP Notes & **Details**

> Drawing Name: Prototype Rls.

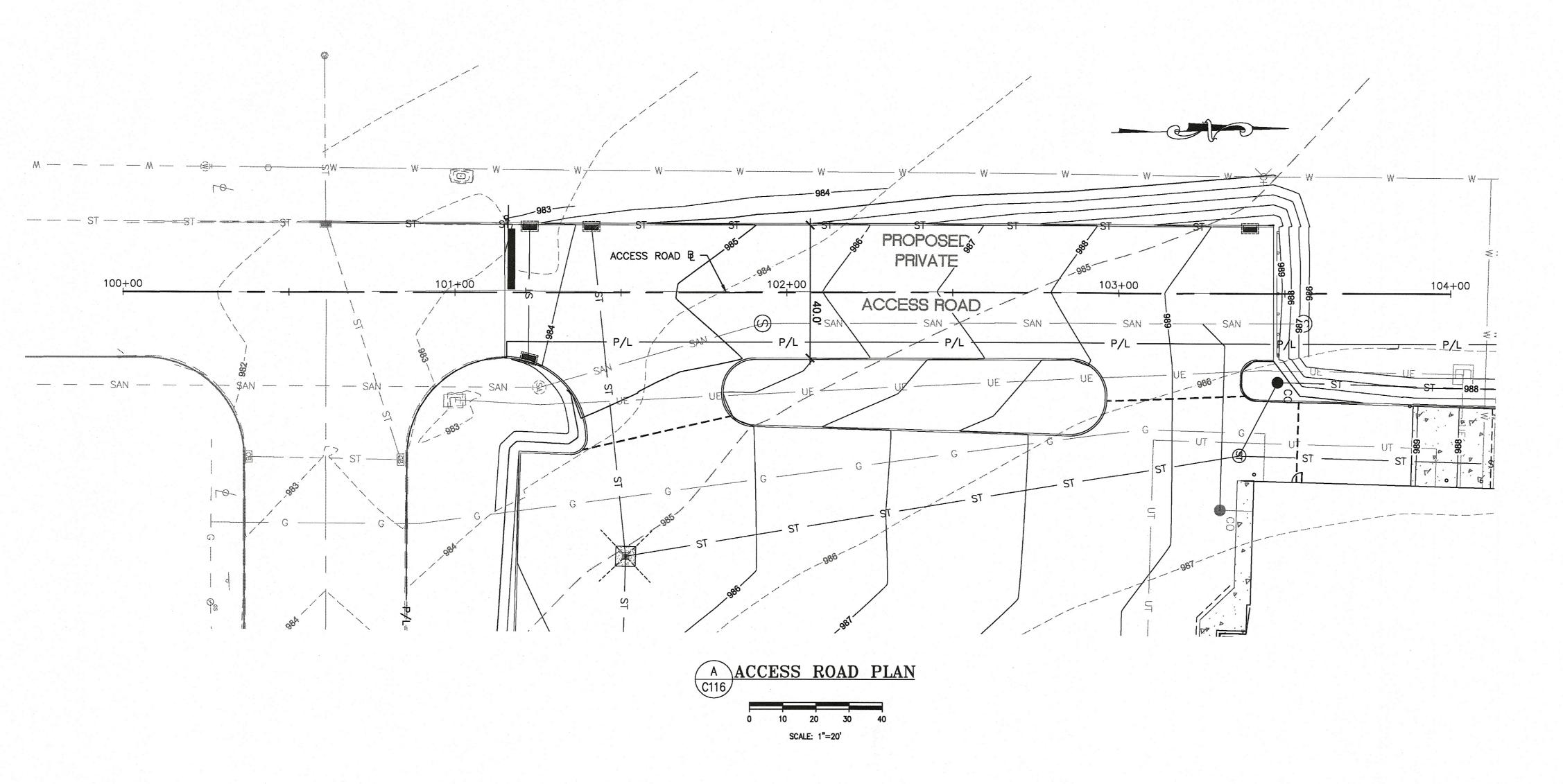
> > 07/27/18

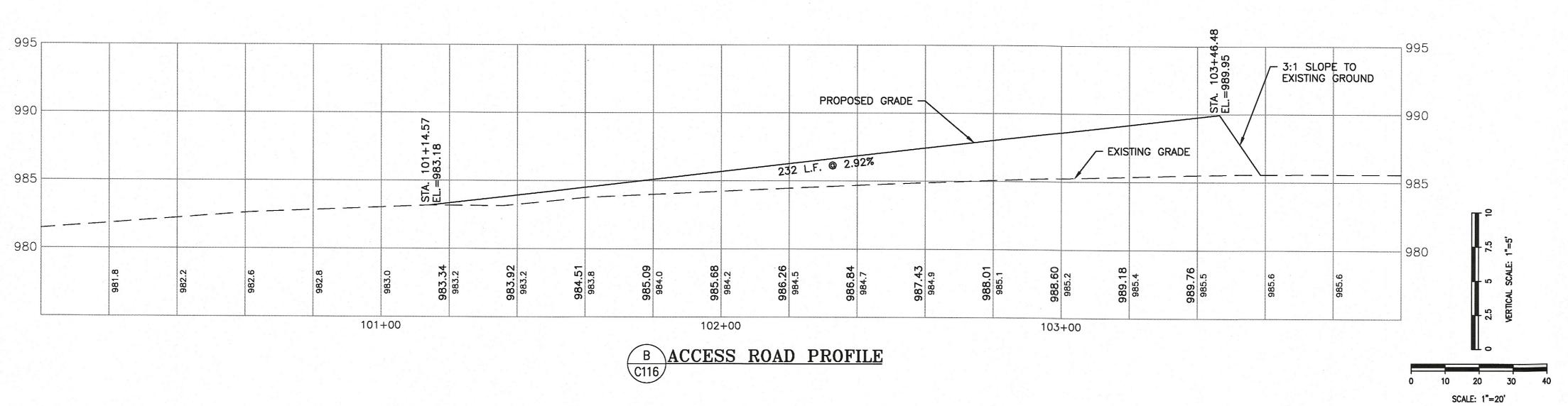
Type:LHRD-V7ER

C-115

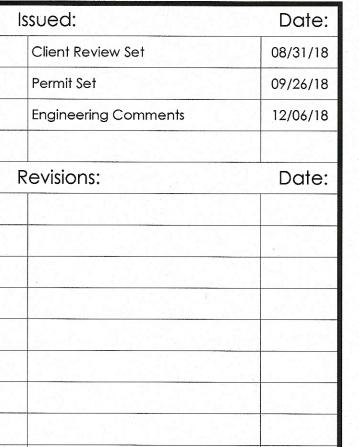
Project No.

40192-93



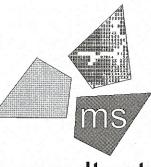






DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact ms consultants with any need for additional dimensions or clarifications.



ms consultants, inc.

KEA

engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229-1547 phone 614.898.7100 fax 614.898.7570

DRAWN BY:

REVIEWED BY:



PROFESSIONAL OF RECORD: IAN AULTMAN No. E-76274 EXP. DATE: 12/31/19



1319 W. 130th Street Hinckley, OH 44233 (330) 273-7351 (330) 273-7352 fax

ALDI Inc. Store #: 76 Massillon, OH Erie Street South Massillon, Ohio 44646

Stark County

Project Name & Location:

Access Road -Plan and Profile
Drawing Name:

Prototype Rls. Project

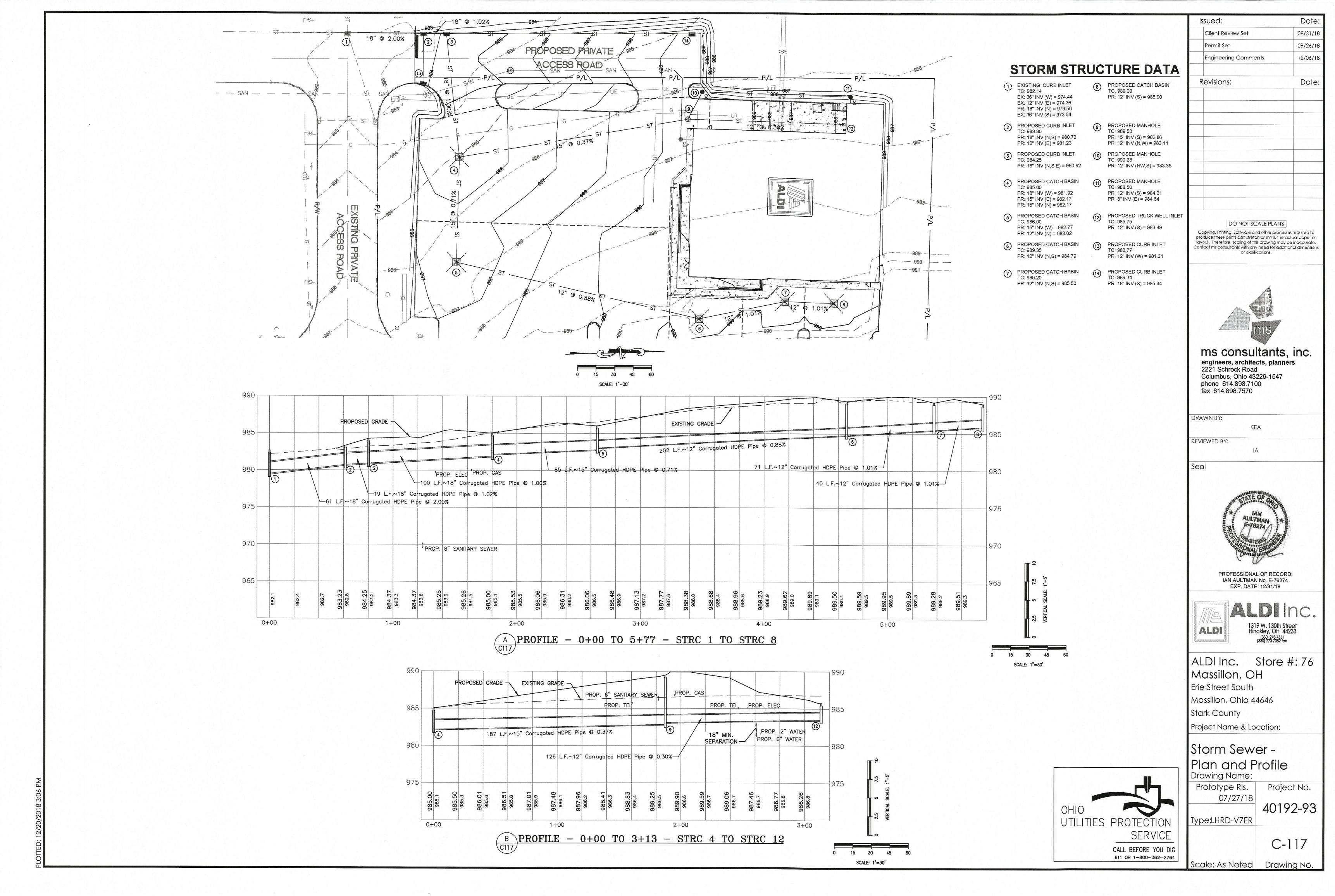
07/27/18

Type:LHRD-V7ER

C-116

Project No.

40192-93



Symbol	Qty	Label	Arrangement	LLF	Lum. Lumens	Lum. Watts	Description
	9	L22	SINGLE	1.000	4210	31	CPY250-B-DM-F-C-UL-CS-30K
	4	L34	4@90°	1.000	11648	86	OSQ-A-NM-4ME-B-57K-UL-CS w/OSQ-DACS
0	5	L24	SINGLE	1.000	2029	58.9	CL-20364LEDD-SAT-CLR-SB
Į	2	L32-90	2@90	1.000	11648	86	OSQ-A-NM-4ME-B-57K-UL-CS w/OSQ-DACS
₩ 	1	L32-180	BACK-BACK	1.030	11648	86	OSQ-A-NM-4ME-B-57K-UL-CS w/OSQ-DACS
>	4	L21	SINGLE	1.000	4270	31	XSPW-B-WM-3ME-4L-30K-UL-CS-P

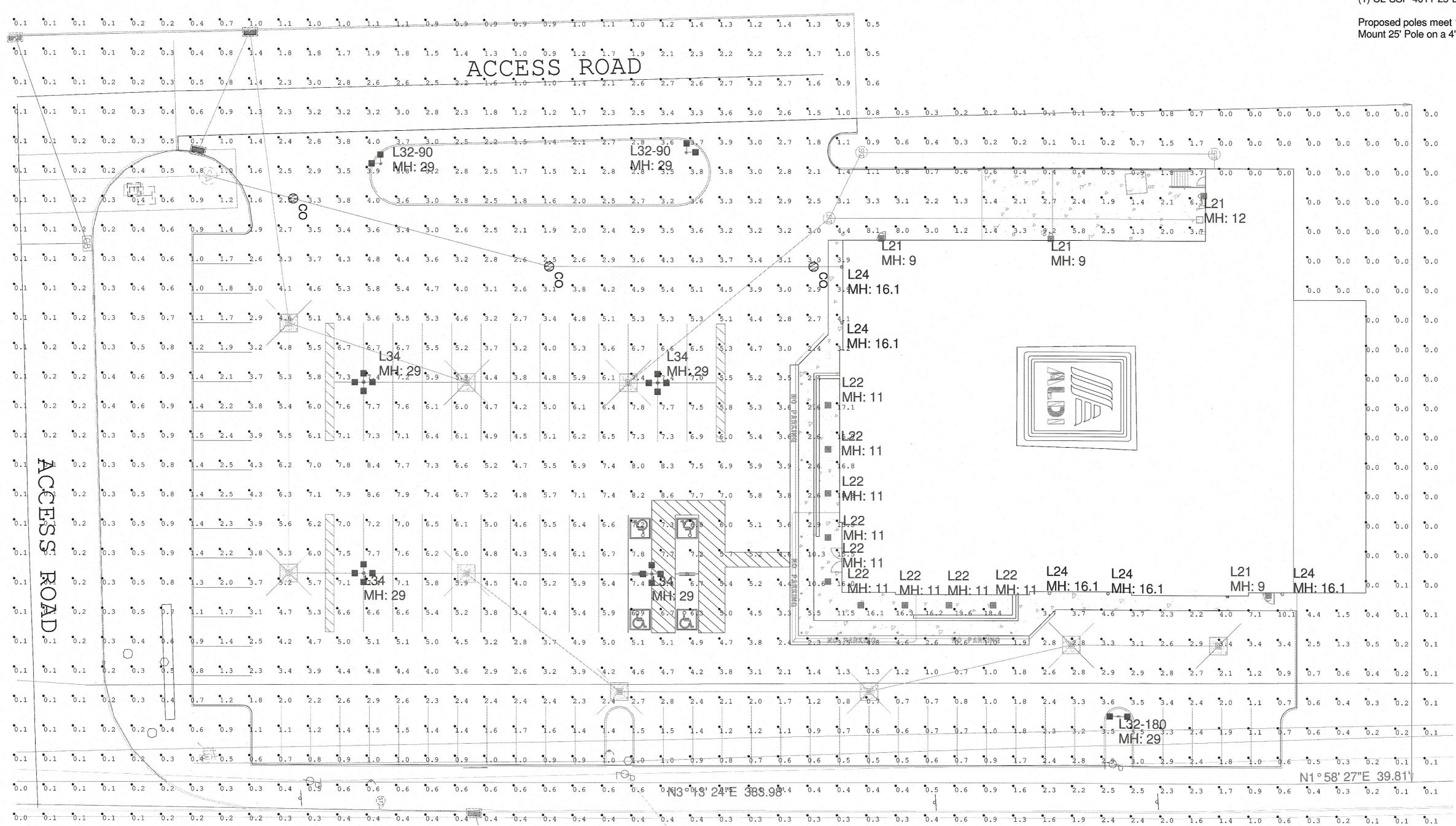
Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
All Calc Points	Fc	2.50	19.6	0.0	N.A.	N.A.
Paved Parking	Fc	3.83	9.2	0.5	7.66	18.40

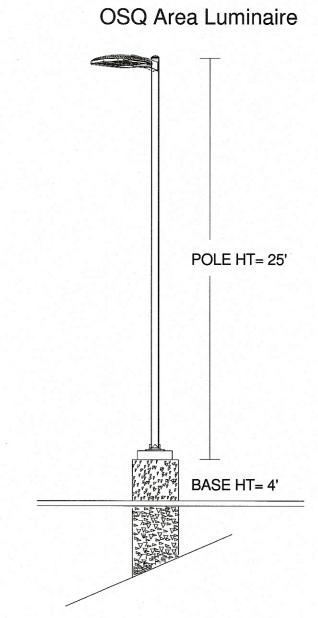
NATIONAL ACCOUNT PRICING, PLEASE CALL MIKE KREINER AT CREE LIGHTING: 224-250-1561 OR MIKE.KREINER@CREE.COM

Additional Required Equipment: (22) OSQ-DACS Direct Arm Mount

(4) CL-SSP-4011-25-D6-PS (25' x 4" x 11ga STEEL SQUARE POLE, 4@90) (2) CL-SSP-4011-25-D3-PS (25' x 4" x 11ga STEEL SQUARE POLE, 2@90) (1) CL-SSP-4011-25-D2-PS (25' x 4" x 11ga STEEL SQUARE POLE, 2@180)

Proposed poles meet 120 MPH sustained winds. Mount 25' Pole on a 4' Concrete Base to Achieve MH=29'.





stomer responsible to verify ordering information/

catalogue number prior to placing order.

1200 92nd Street - Sturtevant, WI 53177 www.cree.com - (800) 236-6800

Project Name: Aldi #76 - 3725 Erie Street South Massillon, Ohio

/ SR-32735 Scale: 1"=20' Footcandles calculated at grade Date:9/18/2018

Filename: ALD-180918MAOHCJW.AGI Layout by: Collin Witherow Illumination results shown on this lighting design are based on project parameters provided to Cree, Inc. used in conjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results.

The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting, or energy code.

