

DOLLAR GENERAL - MASSILLON, OH STORE # TBD

ZONING REQUIREMENTS

ZONING
B1 - LOCAL BUSINESS DISTRICT

SETBACKS
BUILDING SETBACKS: FRONT = 25'
SIDE = 20'
REAR = 20'
PARKING SETBACKS: FRONT = 6'
SIDE = 6'
REAR = 6'

PROPOSED USE
RETAIL STORE

PARKING
REQUIRED: 46 SPACES
1 SPACE FOR EVERY 200 SFT OF GROSS FLOOR AREA: 9100 SFT / 200 SFT = 46
PROVIDED: 46 SPACES
BARRIER FREE SPACES 2

ALL BARRIER FREE SPACES DESIGNED PER ADA REQUIREMENTS

TYPICAL PARKING SPACE DIMENSION = 9'x20'
DRIVE AISLE WIDTHS = 45' AND 40'

BUILDING AREA

THE BUILDING IS SINGLE-STORY (18') WITH A TOTAL AREA OF 9100 SFT. SEE FLOOR PLAN AND ELEVATIONS FOR MORE DETAIL.

OWNER

MASSILLON DG, LLC
361 SUMMIT BLVD, SUITE 110
BIRMINGHAM, AL 35243
205.968.9220

LEGAL DESCRIPTION

THE SURVEYED PROPERTY IS THE SAME AS THE PARCEL AS DESCRIBED IN OLD REPUBLIC NATIONAL TITLE INSURANCE CORPORATION COMMITMENT NUMBER 01-13131206-01T, BEARING AN EFFECTIVE DATE OCTOBER 25, 2013.

SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK, STATE OF OHIO:

KNOWN AS AND BEING OUT LOT 816 IN SAID CITY, ACCORDING TO THE PRESENT NUMBERING OF LOTS THEREIN.

LEGEND:

- STANDARD-DUTY BITUMINOUS PAVEMENT
- HEAVY-DUTY BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT AND SIDEWALK
- NEW CURB AND GUTTER

SITE LEGEND

- HMA HMA PAVEMENT
- DE DUMPSTER ENCLOSURE (SEE DETAIL)
- IC INTEGRAL SIDEWALK/CURB (SEE DETAIL)
- DR DELIVERY ACCESS RAMP (SEE DETAIL)
- ADA ADA RAMP (SEE DETAIL)
- CS CURB STOP (TYP.)
- DB DETENTION BASIN
- BS PROPOSED BUILDING SIGN
- PS PROPOSED PYLON/MONUMENT SIGN

BENCHMARKS

BM # 1 ELEVATION = 1073.68
TOP NUT ON HYDRANT

BM # 2 ELEVATION = 1072.40
TOP NUT ON HYDRANT

NOTES

- PROVIDE CURB CUTS/RAMPS AT ALL BARRIER FREE ACCESS POINTS.
- PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE CURRENT OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- SIGN DETAILS AND LOCATIONS SHOWN IN CONCEPT ONLY. CONTRACTOR TO PULL SIGN PERMIT AND ENSURE LOCAL SIGN ORDINANCE IS OBSERVED.
- DRIVEWAY LAYOUT AND CONNECTION TO LINCOLN ST. W. (SR-172) AND SHALL COMPLY WITH CITY OF MASSILLON STANDARDS AND ALL ASPECTS OF THE DRIVE PERMIT.
- ALL WORK REQUIRING PERSONS OR VEHICLES WITHIN SR-172 OR LANEDALE AVE R/W AND TRAFFIC CONTROL DEVICES AND PROCEDURES SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ITEM 614 (MAINTAINING TRAFFIC) OF THE CONSTRUCTION MATERIALS AND SPECIFICATIONS, CURRENT EDITIONS.
- THE DEVELOPER (PERMITEE) IS RESPONSIBLE FOR ALL UTILITY RELOCATIONS.

DRAWING INDEX

SHT # DESCRIPTION

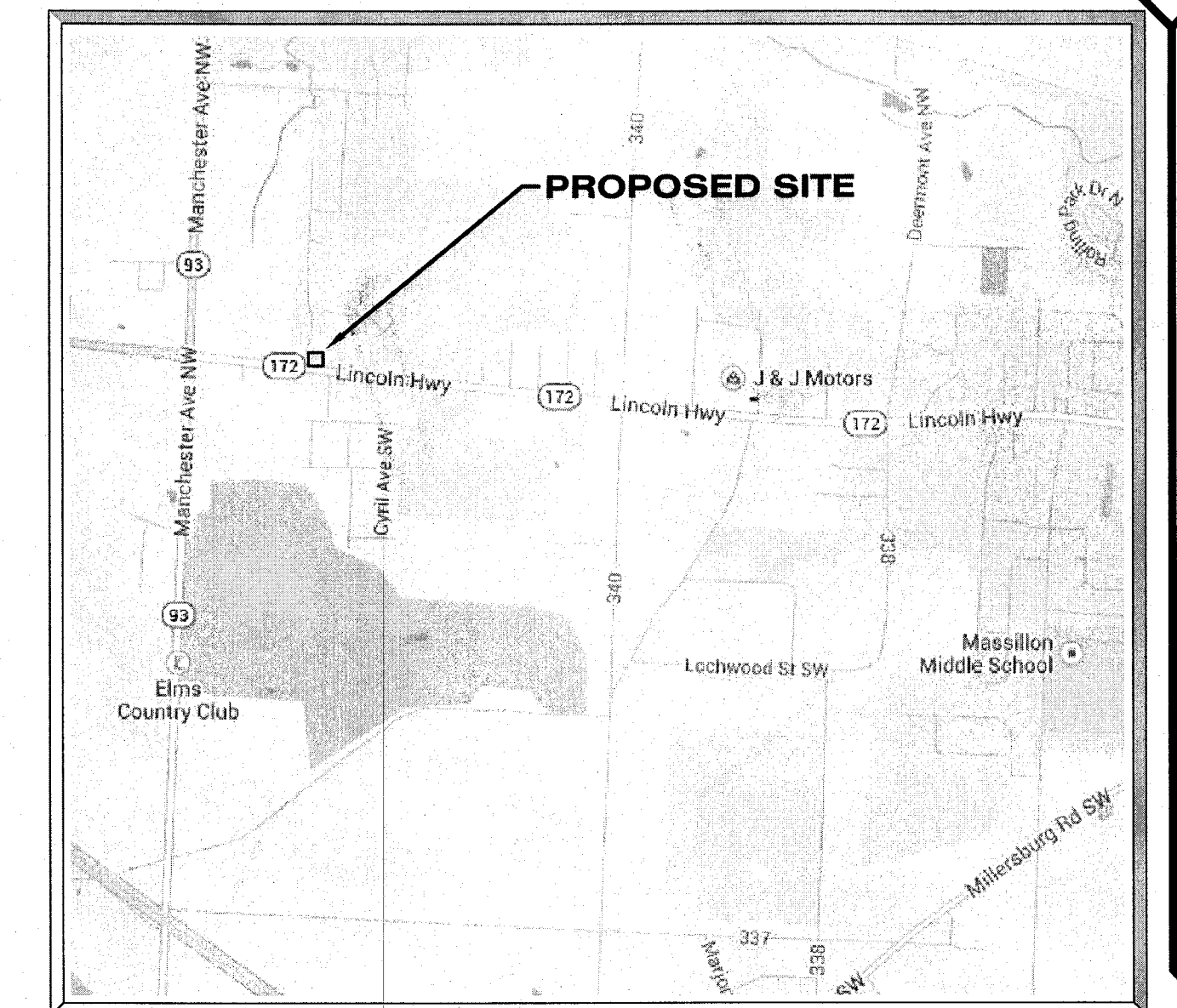
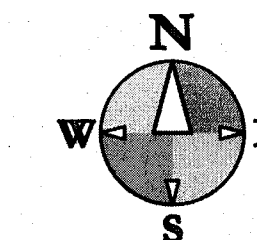
- C-1 - SITE LAYOUT PLAN
- C-2 - EXISTING CONDITIONS - DEMO PLAN
- C-3 - SITE UTILITY PLAN
- C-4 - GRADING-SESC PLAN
- C-5 - DETAILS
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- L-1 - LIGHTNING PLAN
- L-2 - LANDSCAPE PLAN
- I-1 - IRRIGATION PLAN
- S-1 - SWPPP SITE PLAN
- S-2 - SWPPP DETAILS

STRIPING LEGEND	
YELLOW CURBING AND BOLLARDS - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY AND METAL SURFACES FREE OF HEAVY RUST 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY YELLOW B55Y300
STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PROMAR TRAFFIC MARKING PAINT YELLOW TM5495
HANDICAP STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PROMAR TRAFFIC MARKING PAINT "H.C." BLUE

OHIO COUNTY MAP

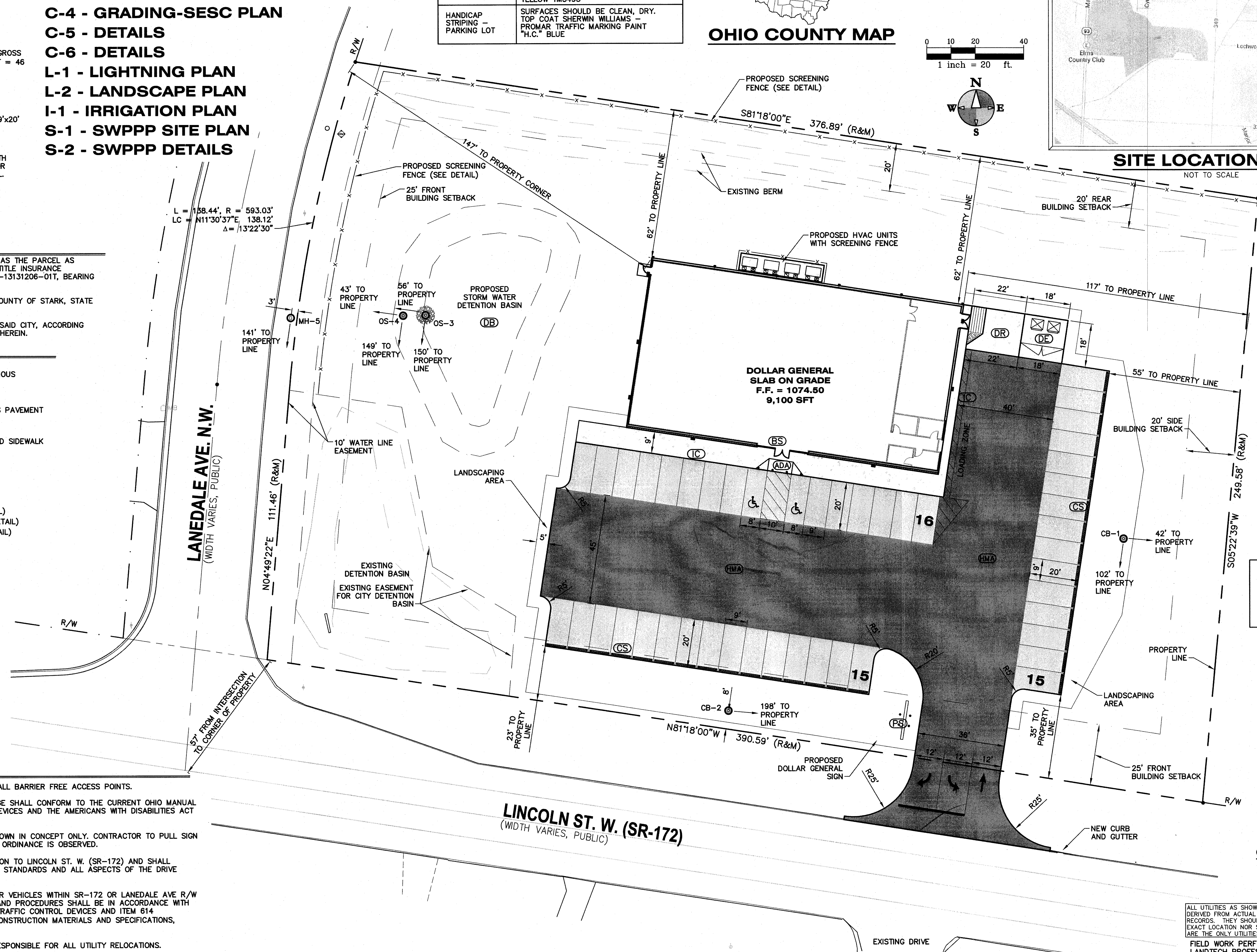


0 10 20 40
1 inch = 20 ft.



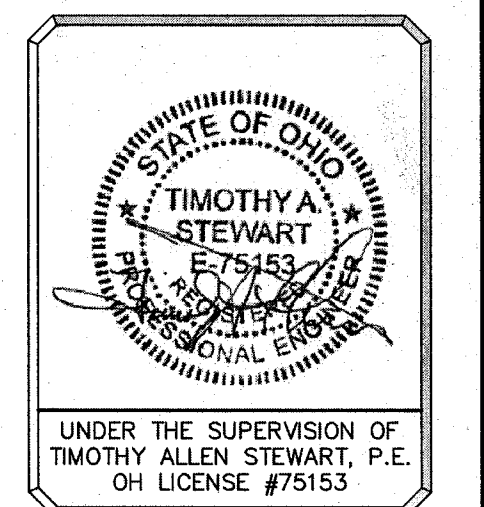
SITE LOCATION MAP

NOT TO SCALE



APPROVED BY THE MASSILLON CITY ENGINEER THIS _____ DAY OF _____
KEITH A. DYLEWSKI, P.E., P.S.

ONLY APPROVED SIGNED PLANS BY THE CITY ENGINEER ARE TO BE USED FOR CONSTRUCTION.



ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.
FIELD WORK PERFORMED BY: LANDTECH PROFESSIONAL SURVEYING

SITE LAYOUT PLAN
DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
CAPITAL GROWTH - BUCHALTER

Sheet Title:
Project:
Client:
3/11/14
Sheet
C-1

hurley & stewart, llc
2800 south 11th street
Kalamazoo, michigan 49009
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hurley & stewart

Job No. 14-003B P.M.BG D.R.T. AS QA/QC 3/11/14
ISSUED FOR REVISIONS: 3/11/14
SITE PLAN SUBMITTAL

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NOTES

- ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES. ALL DEMOLITION OPERATIONS SHALL COMPLY WITH OSHA REGULATIONS INsofar AS THEY APPLY TO THE REQUIRED WORK. SOIL EROSION AND SEDIMENTATION CONTROL ITEMS SHALL BE IN PLACE PRIOR TO DEMOLITION.
- THE CONTRACTOR SHALL REMOVE AND CLEAR ALL TREES, BRUSH, FENCES, BUILDINGS, CURB, AND ASPHALT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL DEMOLITION MATERIAL SHALL BE PROPERLY REMOVED FROM THE SITE AND DISPOSED OF IN A LEGALLY DESIGNATED DISPOSAL AREA. PERMITS AND FEES FOR DISPOSAL OF DEMOLITION MATERIAL SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL DEMOLISH AND REMOVE ANY ITEMS REMAINING FROM THE EXISTING BUILDING, IN ITS ENTIRETY, INCLUDING WALLS, FOUNDATIONS AND FOOTINGS. ALL BUILDING DRAINS AND UTILITY LEADS SHALL BE LOCATED AND PROPERLY PLUGGED. UTILITY LEAD WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
- BACKFILL EXCAVATED AREAS WITH CLEAN GRANULAR FILL COMPACTED TO 95% OF THE MATERIAL UNIT WEIGHT BY MODIFIED PROCTOR.

EXISTING STRUCTURE DATA

EX CB #1
RIM = 1071.39
INV. 12" CPP N = 1068.99
INV. 12" CPP W = 1069.09
INV. 12" CPP S = 1068.86

EX CB #2
RIM = 1068.30
INV. 12" CPP N = 1065.17
INV. 12" CPP W = 1065.24
INV. 15" CPP SW = 1064.85

EX CB #3
RIM = 1068.81
INV. 24" RCP N = 1062.91
INV. 24" RCP S = 1062.76

EX CB #4
RIM = 1069.54
INV. 15" CPP NE = 1062.29
INV. 15" CPP E = 1064.39
INV. 5" CLAY SE = 1063.89
INV. 36" RCP E = 1061.84
INV. 36" RCP W = 1061.79

EX CB #5
RIM = 1071.22
INV. 18" CLAY NE = 1064.72
INV. 18" CLAY SE = 1065.62
INV. 24" RCP S = 1064.02
INV. 36" RCP E = 1064.12
INV. 36" RCP W = 1063.92

RIM = 1071.52
INV. 18" CLAY W = 1066.87

EX SAN MH #7
RIM = 1068.68
INV. 10" PVC N = 1058.96
INV. 10" PVC W = 1059.01
INV. 10" PVC E = 1059.66

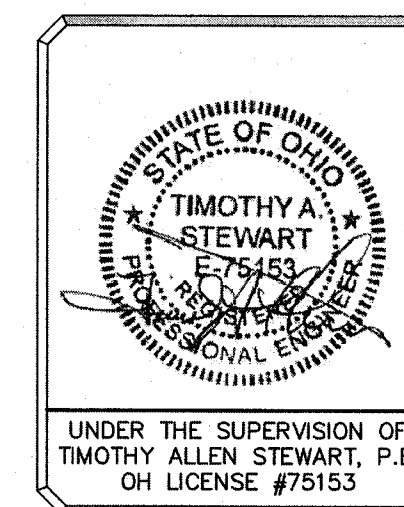
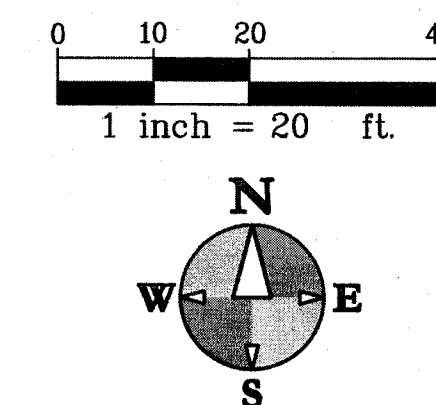
BENCHMARKS

BM #1 ELEVATION = 1073.68
TOP NUT ON HYDRANT

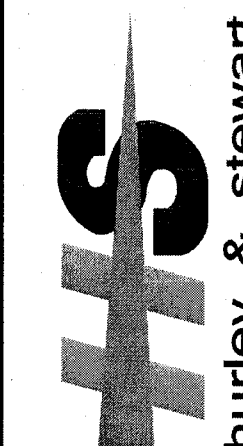
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TOP NUT ON HYDRANT

REMOVALS LEGEND

- ***** CURB REMOVAL
- ////// SAWCUT
- PAVEMENT/SIDEWALK REMOVAL
- ***** UTILITY LINE REMOVAL
- TREE REMOVAL
- REMOVE
- SALVAGE
- LIMITS OF CONSTRUCTION



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Job No.: 14-0038 P.M.BG Drft: 3/11/14
ISSUED FOR REVISIONS: 3/11/14
1 SITE PLAN SUBMITTAL

EXISTING CONDITIONS - DEMO PLAN
DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
CAPITAL GROWTH - BUCHALTER

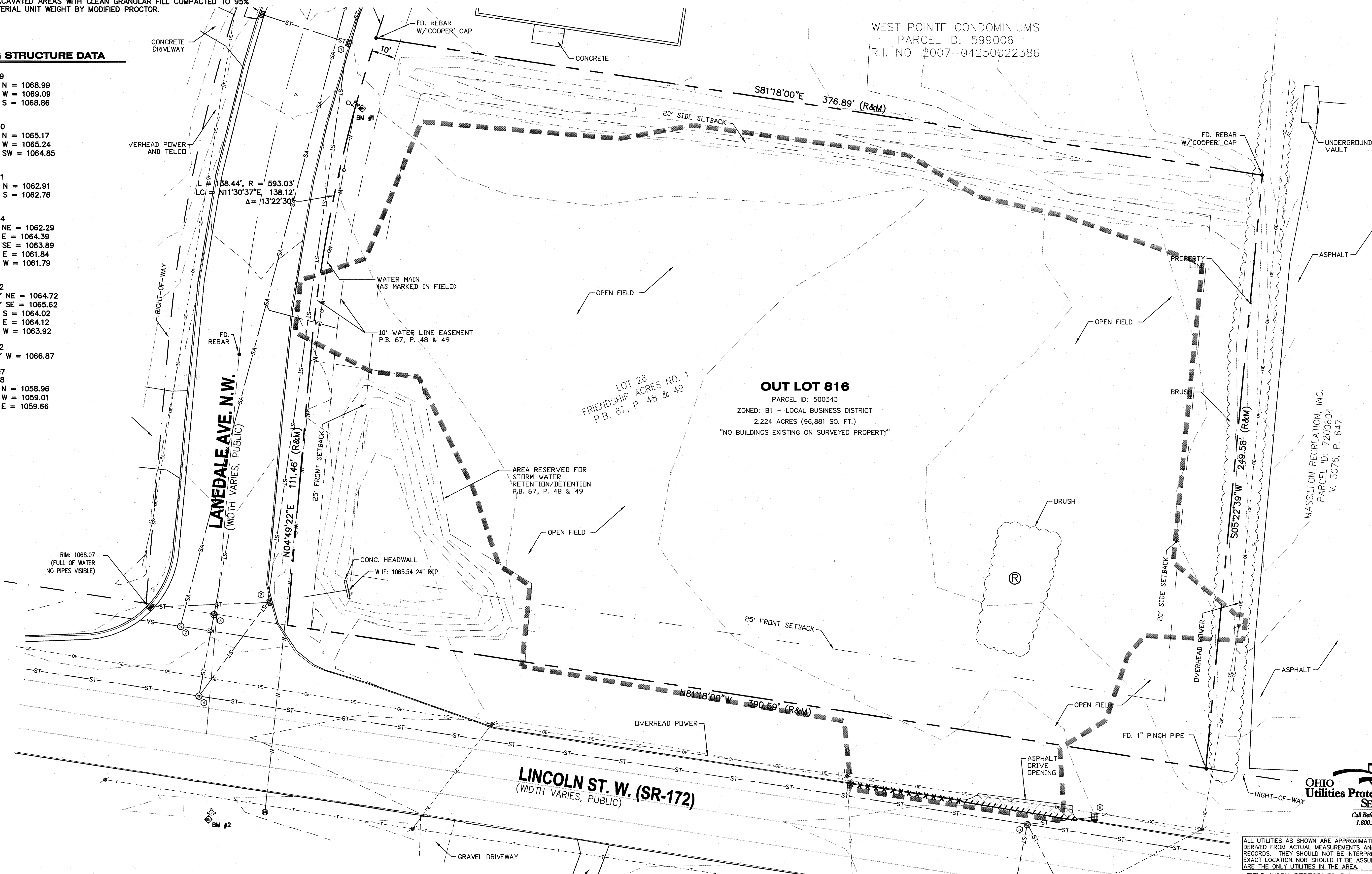
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Client:

3/11/14
Sheet

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ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

FIELD WORK PERFORMED BY:
LANDTECH PROFESSIONAL SURVEYING



DRAWING LOCATION: 15-14-0038 (03-Massillon, OH (Lincoln - Lanesdale)) - FINAL DRAWINGS-C-3 Site Utility Plan.dwg LAST SAVED BY: BLS/STW ON 3/11/2014

UTILITY NOTES

1. FOR PROTECTION OF UNDERGROUND UTILITIES, CALL THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATING.
2. ALL MATERIAL AND CONSTRUCTION WILL BE IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) DATED JANUARY 1,2010. ODOT SPECIFICATIONS ARE SUBJECT TO THE CURRENT ADDENDA. IN ADDITION, ALL WORK WILL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL AND STATE STANDARDS AND REGULATIONS.
3. ALL BEDDING MATERIAL TYPES ARE TO BE PER ODOT SPEC. 603.06.
4. ALL BACKFILL MATERIAL TYPES ARE TO BE PER ODOT SPEC. 603.10.
5. GRANULAR MATERIAL OR CDF SHALL BE USED FOR BACKFILLING ALL TRENCHES UNDER PAVEMENT AND/OR ANY PORTION OF THE TRENCH THAT IS WITHIN 5 FT. OF THE PAVEMENT EDGE OR CURB. PAVEMENT SHALL INCLUDE BUT IS NOT LIMITED TO; ROADWAYS, SIDEWALKS, SERVICE WALKS, DRIVEWAY APPROACHES, PARKING LOTS OR ANY PROPOSED PAVED SURFACE.
6. SOIL EROSION AND SEDIMENTATION BEST MANAGEMENT PRACTICE (BMP) MEASURES WILL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND WILL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING ALL GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES ARE IN PLACE.
7. COORDINATE ALL UTILITY LOCATIONS AND ELEVATIONS WITH MECHANICAL DRAWINGS AND BUILDING CONTRACTOR PRIOR TO INSTALLATION.
8. REMOVE SEDIMENT FROM ALL STRUCTURES ONCE PAVING IS COMPLETE AND REMOVE SILT SACKS.
9. SANITARY SEWER MATERIALS AND INSTALLATION SHALL COMPLY WITH THE CITY OF MASSILLON REQUIREMENTS. COORDINATE WORK AND INSPECTIONS WITH CITY OF MASSILLON SEWER AND WASTE COLLECTION.
10. WATER SUPPLY MATERIALS AND INSTALLATION SHALL COMPLY WITH CITY OF MASSILLON UTILITIES REQUIREMENTS AND SPECIFICATIONS. COORDINATE CONNECTIONS WITH CITY OF MASSILLON ENGINEERING DEPT.
11. STORM SEWER MATERIALS SHALL BE ADS N-12(HDPE) OR ASTM C-76 CL IV (RCP) AS NOTED ON THE PLAN
12. CONTRACTOR TO COORDINATE PRIVATE UTILITY CONNECTIONS WITH UTILITY COMPANIES.
13. PLACE SANITARY CLEANOUT EVERY 100' AND/OR AT BENDS ON ALL 6" SANITARY SEWER LEADS.
14. ALL STRUCTURE CASTINGS TO BE EAST JORDAN IRON WORKS OR APPROVED EQUAL. SEE STRUCTURE TABLE FOR SPECIFIC CASTING AT EACH STRUCTURE.
15. THE CONTRACTOR SHALL INSTALL PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.
16. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR GROUNDWATER AND SOILS INFORMATION. ANY UTILITIES REQUIRING DEWATERING SHALL BE INSTALLED TO THE THE STARK COUNTY STANDARDS AND INCLUDED IN THE INSTALLATION COSTS. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING NECESSARY TO CONSTRUCT UTILITIES IN THE DRY.
17. PROVIDE 1" BURRIED CONDUIT FROM ELECTRICAL PANEL TO LOCATION OF THE SIGN BASE. A TEMPORARY 3' TALL STAKE SHALL BE PROVIDED AT THE SIGN LOCATION UNTIL THE SIGN IS PERMANENTLY INSTALLED.
18. UNDERGROUND ELECTRICAL SHALL BE PROVIDED TO THE SITE LIGHT POLES.
19. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

BENCHMARKS

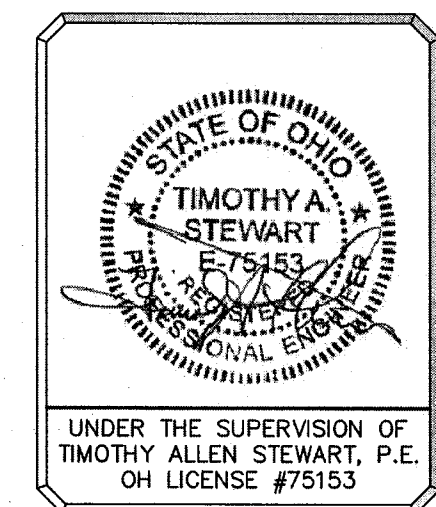
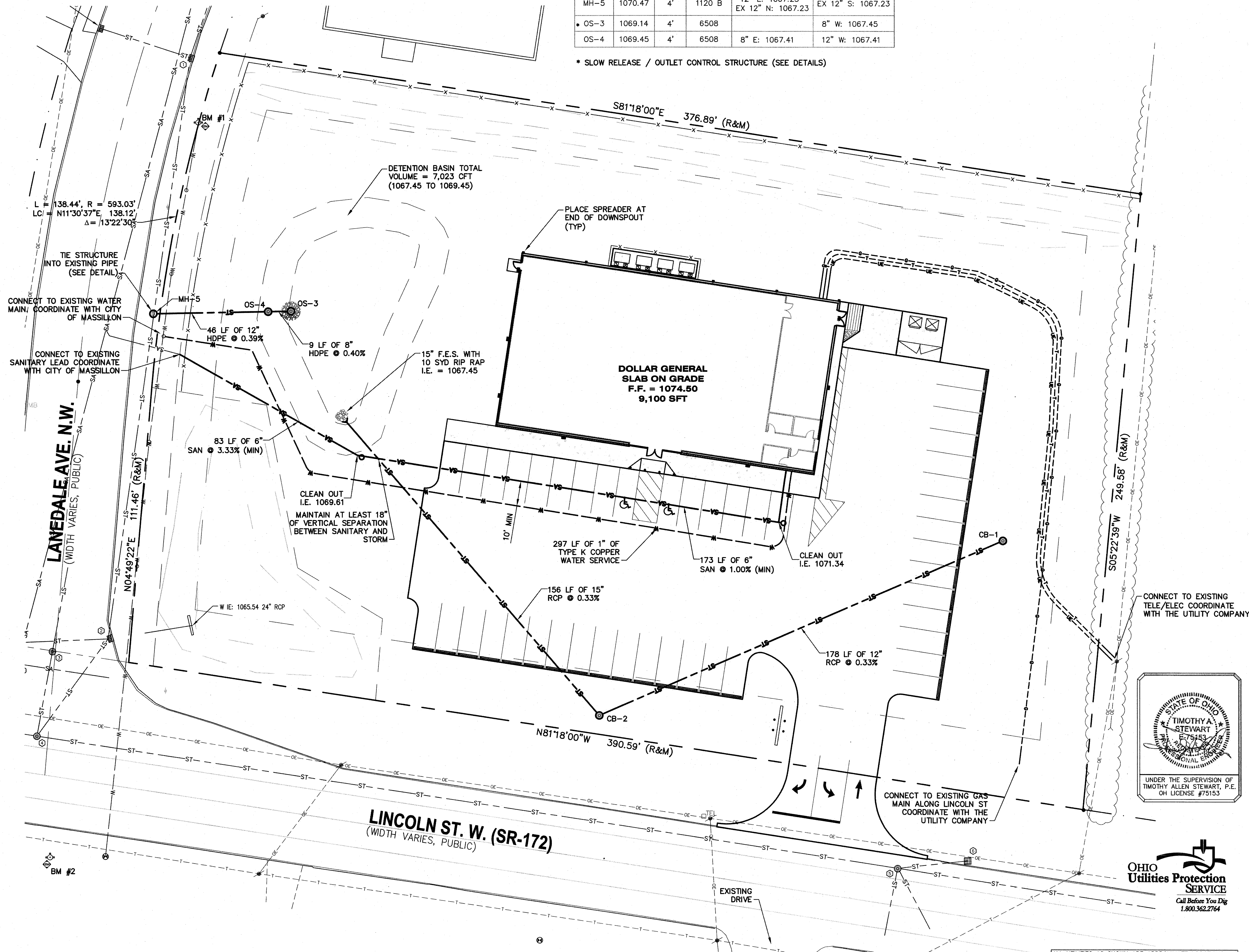
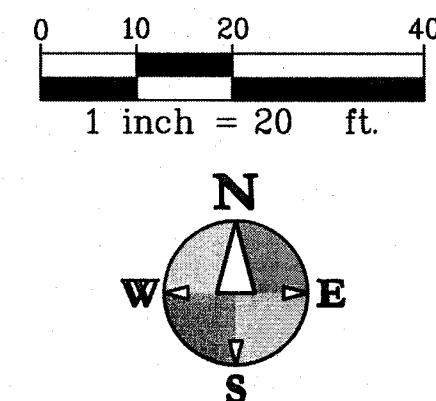
BM # 1 ELEVATION = 1073.68
TOP NUT ON HYDRANT

BM # 2 ELEVATION = 1072.40
TOP NUT ON HYDRANT

STORM SEWER STRUCTURE SCHEDULE

STR. #	RIM EL.	DIAM.	CASTING	PIPES IN:	PIPES OUT
CB-1	1070.98	4'	5105 M1		12" SW: 1068.55
CB-2	1070.88	4'	5105 M1	12" NE: 1067.96	15" NW: 1067.96
MH-5	1070.47	4'	1120 B	12" E: 1067.23 EX 12" N: 1067.23	EX 12" S: 1067.23
OS-3	1069.14	4'	6508		8" W: 1067.45
OS-4	1069.45	4'	6508	8" E: 1067.41	12" W: 1067.41

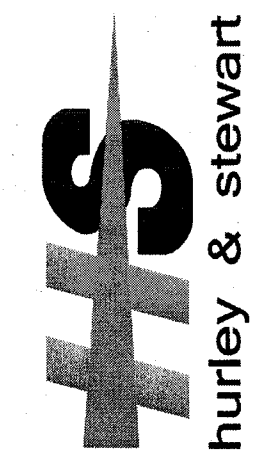
* SLOW RELEASE / OUTLET CONTROL STRUCTURE (SEE DETAILS)



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Job No.: 14-0038 P.M.: BG Drt.: QA/QC 3/11/14
ISSUED FOR REVISIONS: 3/11/14
J SITE PLAN SUBMITTAL

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SITE UTILITY PLAN
PROJECT: DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
CAPITAL GROWTH - BUCHALTER

Sheet Title:
Project: DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
Client:

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SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

KEY	DETAIL	CHARACTERISTICS
1	Stripping & Stockpiling Topsoil	Topsoil may be stockpiled above borrow areas to act as a diversion. Stockpile should be temporarily seeded.
5	Seeding	Inexpensive & very effective. Stabilizes soil, thus minimizing erosion. Permits runoff to infiltrate soil, reducing runoff volume. Should include prepared topsoil bed.
13	Riprap, Rubble, Gabions	Used where vegetation is not easily established. Effective for high velocities or high concentrations. Permits runoff to infiltrate soil. Dissipates energy flow of system outlets.
15	Paving	Protects areas which cannot otherwise be protected, but increases runoff volume and velocity. Irregular surface will help slow velocity.
35	Storm Sewer	System removes collected runoff from site, particularly from paved areas. Can accept large concentrations of runoff. Conducts runoff to municipal sewer system or stabilized outfall location. Use catch basins to collect sediment.
36	Catch Basin, Drain Inlet	Collects high velocity concentrated runoff. May use filter cloth over inlet.
54	Geotextile Silt Fence	Use geotextile and posts or poles. May be constructed or prepackaged. Easy to construct and locate as necessary.

XX TEMPORARY MEASURE

YY PERMANENT MEASURE

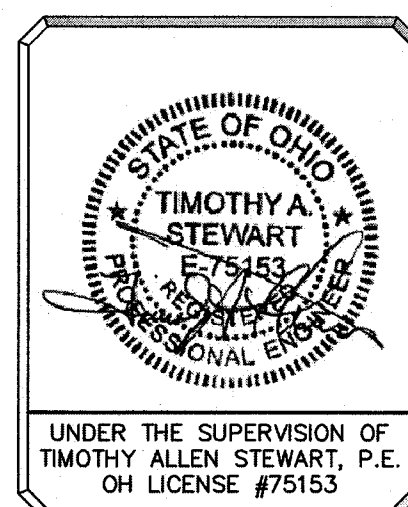
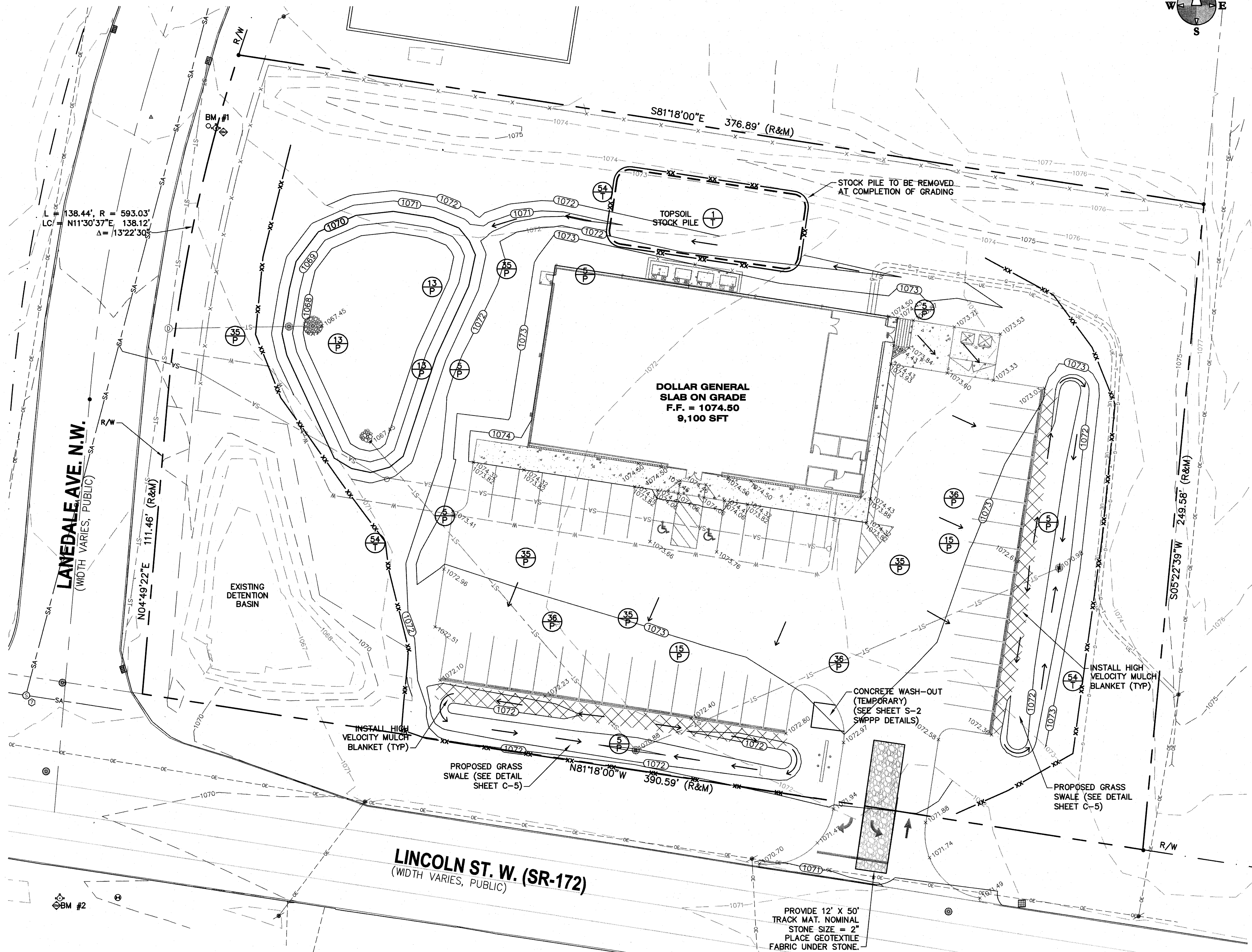
GRADING - SESC NOTES

- MATCH EXISTING GRADES AROUND PERIMETER WITH SLOPES AS SHOWN.
- ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT GRADES AT EDGE OF METAL (EOM) UNLESS OTHERWISE NOTED.
- ALL SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO MASS GRADING.
- ALL EXCAVATION AND SITE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT, PSI PROJECT NO. 0145687 ISSUED 11/05/2013.
- ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID TRACKING SOIL ONTO ADJACENT ROADWAYS. SCRAPE ROAD AT THE END OF EACH WORKDAY AND SWEEP AT LEAST ONCE A WEEK.
- ANY DISTURBED AREA THAT WILL BE LEFT UNWORKED 5 DAYS OR LONGER MUST BE SEEDED AND MULCHED OR SODED TO ESTABLISH VEGETATION FOR TEMPORARY STABILIZATION. BASINS TO BE SEEDED AND MULCH BLANKETS APPLIED IMMEDIATELY TO PROVIDE A STABLE BASE AND AVOID EXCESSIVE EROSION.
- STRAW MULCH BLANKETS SHALL BE USED ON 3:1 SLOPES OR GREATER. ALL SLOPES ON SITE SHALL BE 4:1 OR LESS, UNLESS OTHERWISE DIRECTED BY ENGINEER.
- ROAD RIGHTS-OF-WAY MUST BE STABILIZED WITH SEED AND MULCH WITHIN 5 DAYS OF COMPLETING UTILITY WORK IN THE RIGHT-OF-WAY.
- AREAS OF EARTH CHANGE THAT ARE DISTURBED BEYOND THE FALL SEEDING DEADLINE (NOV. 1) MUST BE TEMPORARILY STABILIZED WITH A MINIMUM OF STRAW MULCH SECURELY CRIMPED TO THE GROUND.
- ACCUMULATED SEDIMENT TO BE REMOVED FROM STORM SYSTEM UPON COMPLETION OF CONSTRUCTION. ALL TEMPORARY CONTROLS TO BE REMOVED AFTER SITE IS STABILIZED AND VEGETATION ESTABLISHED.

BENCHMARKS

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TOP NUT ON HYDRANT

BM # 2 ELEVATION = 1072.40
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SITE PLAN SUBMITTAL

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Sheet Title: GRADING-SESC PLAN
Project: DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
Client: CAPITAL GROWTH - BUCHALTER

Sheet: 3/11/14
Sheet: C-4

3/11/14

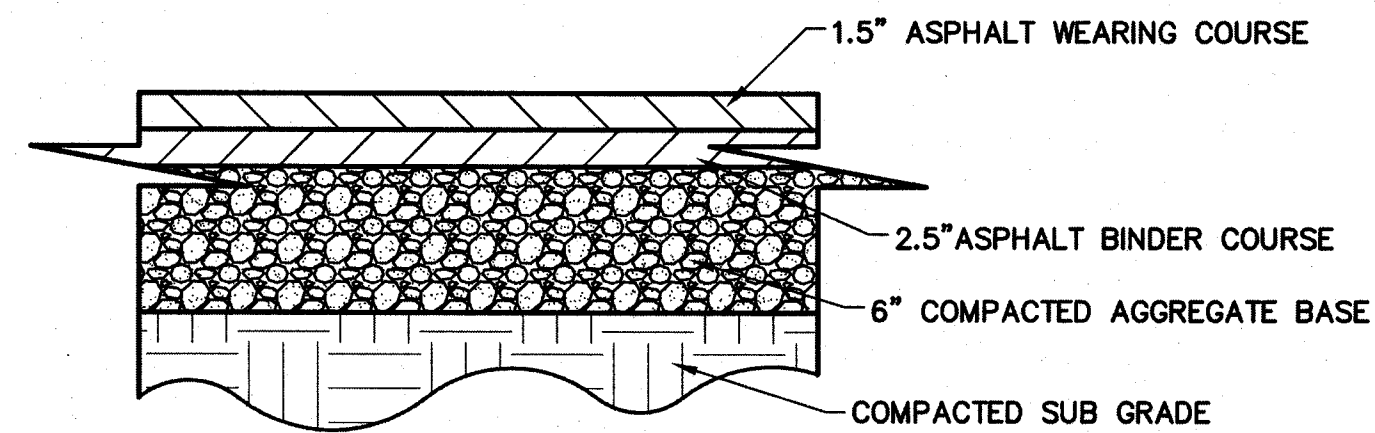
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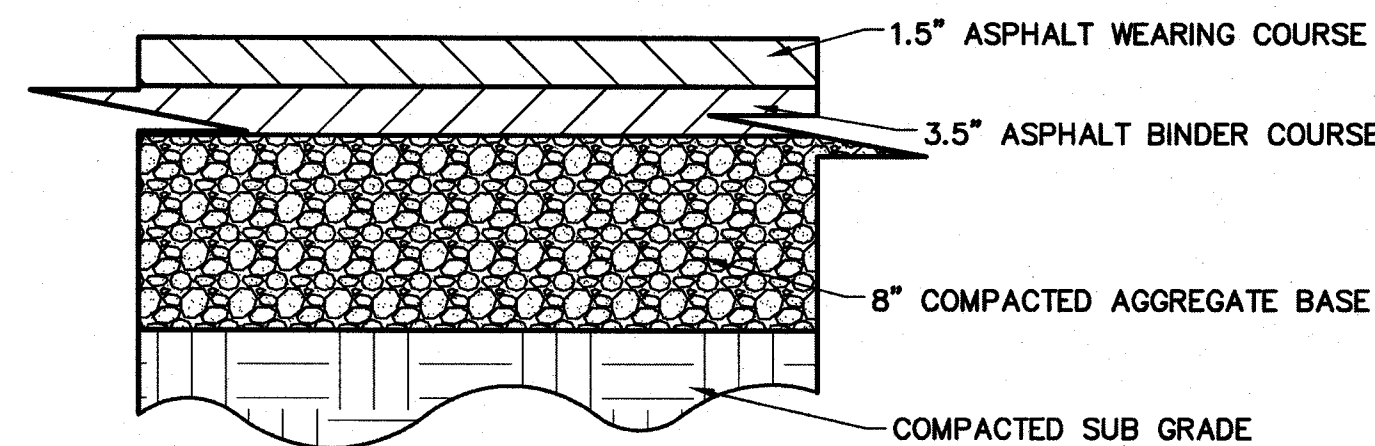
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PAVEMENT NOTES:

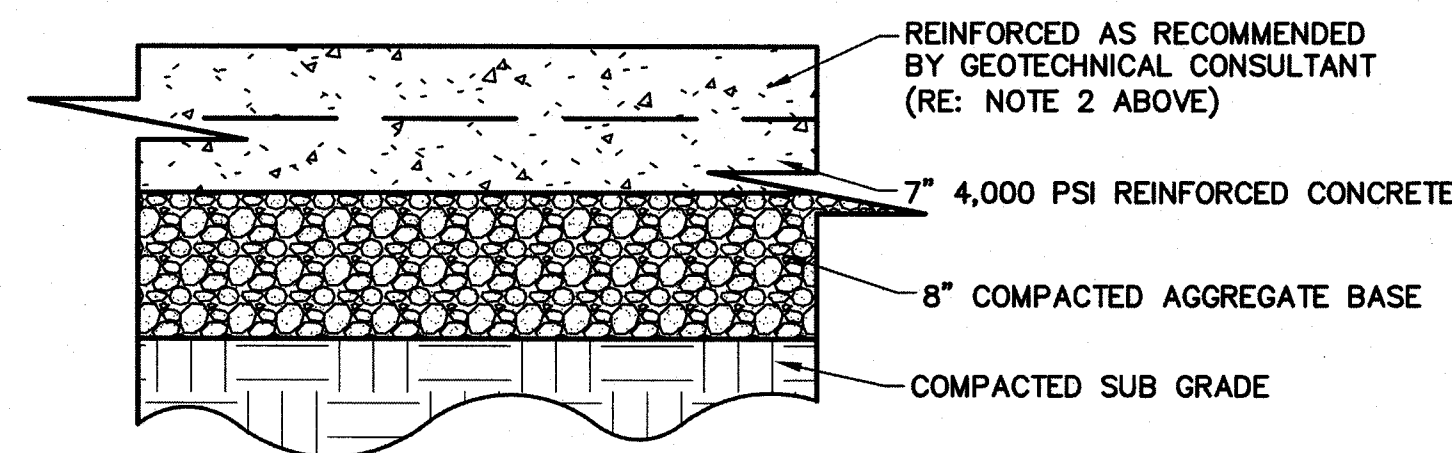
1. THE SUBGRADE MATERIALS SHALL BE PROOF ROLLED AND/OR SCARIFIED AND COMPACTED PRIOR TO PLACEMENT OF BASE MATERIAL. WHERE EXISTING SUBGRADE MATERIALS ARE UNSUITABLE, THEY SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT MATERIAL IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
2. HEAVY DUTY CONCRETE PAVEMENT AND STANDARD DUTY CONCRETE PAVEMENT (AS RECOMMENDED BY THE GEOTECHNICAL REPORT OR DOLLAR GENERAL MINIMUMS) SHALL BE STEEL REINFORCED. REINFORCEMENT TYPE SHALL BE PRIOR APPROVED BY DOLLAR GENERAL.
3. CONCRETE PAVEMENT PLAN SHALL BE PROVIDED TO DOLLAR GENERAL FOR PRIOR APPROVAL. ALL JOINTS MUST BE SEALED WITH AN APPROVED SEALANT. STEEL REINFORCING SHALL BE USED AT JOINTS. REFER TO ACI 330R (GUIDE FOR DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS) FOR JOINT DESIGN AND LAYOUT.



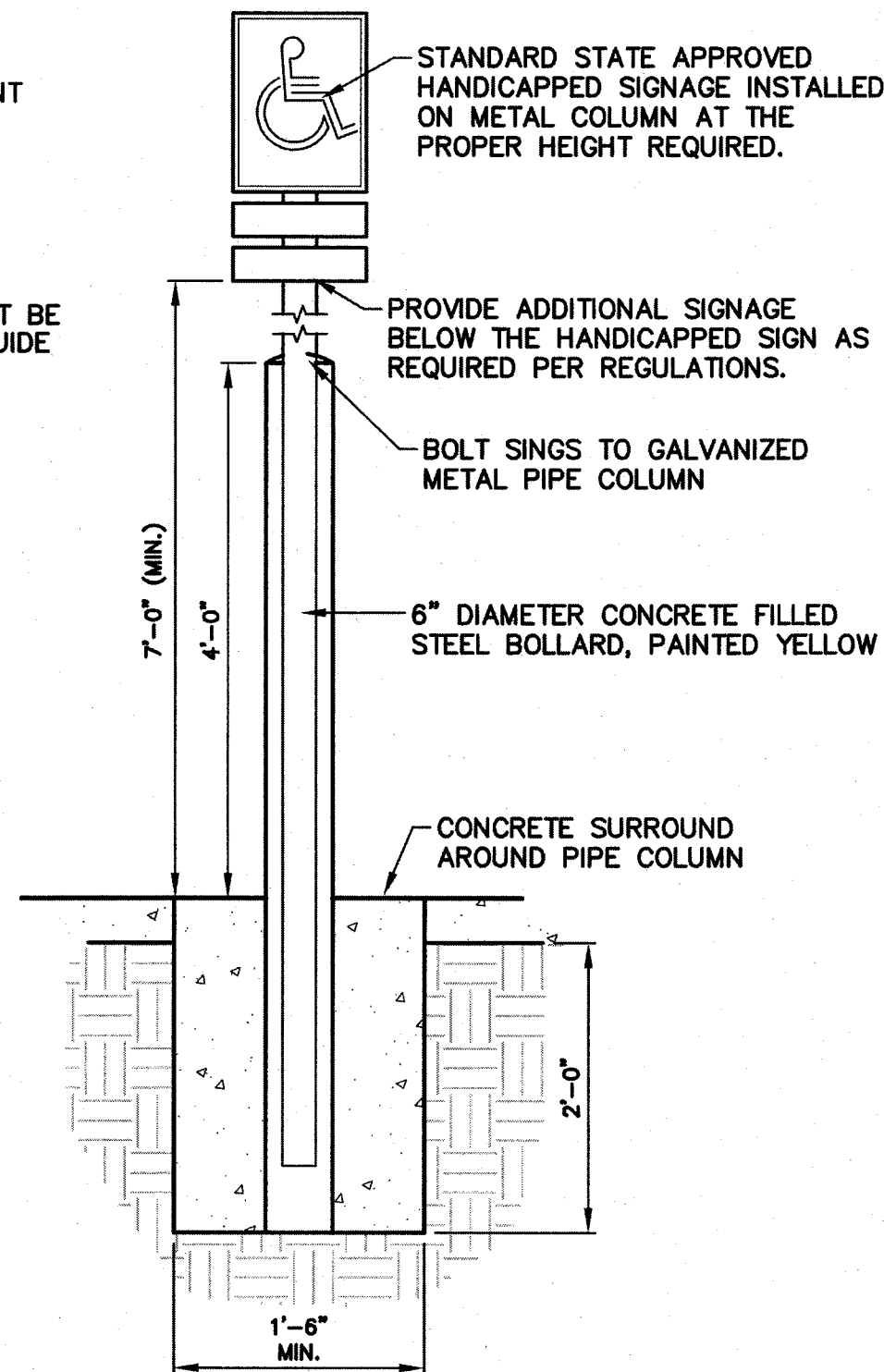
STANDARD DUTY ASPHALT DETAIL
NOT TO SCALE



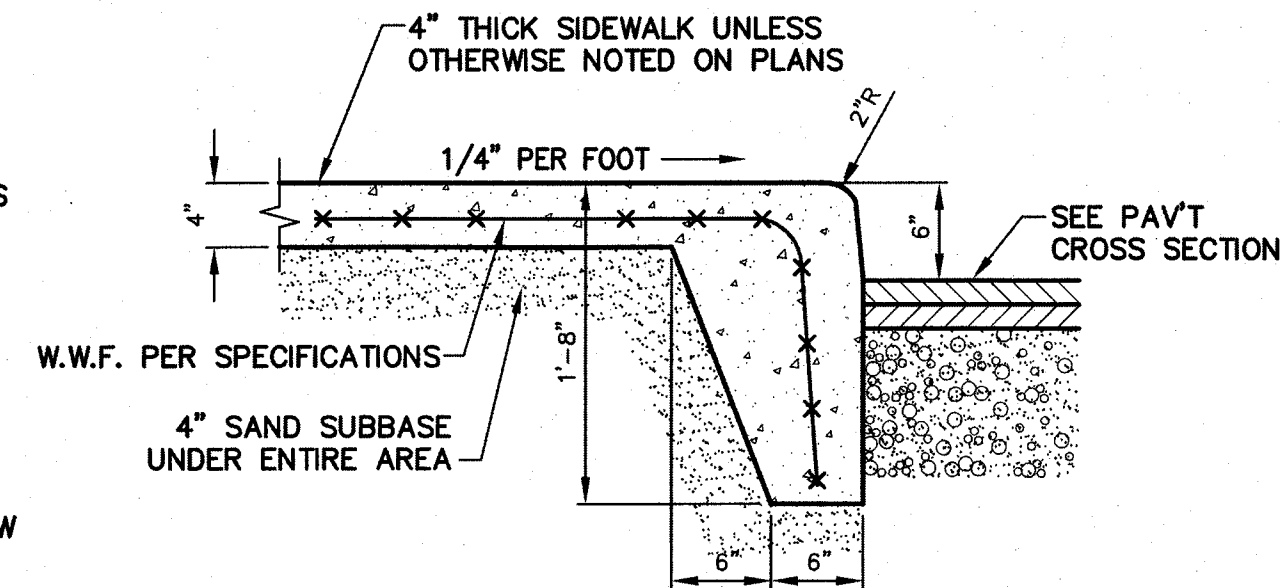
HEAVY DUTY ASPHALT DETAIL
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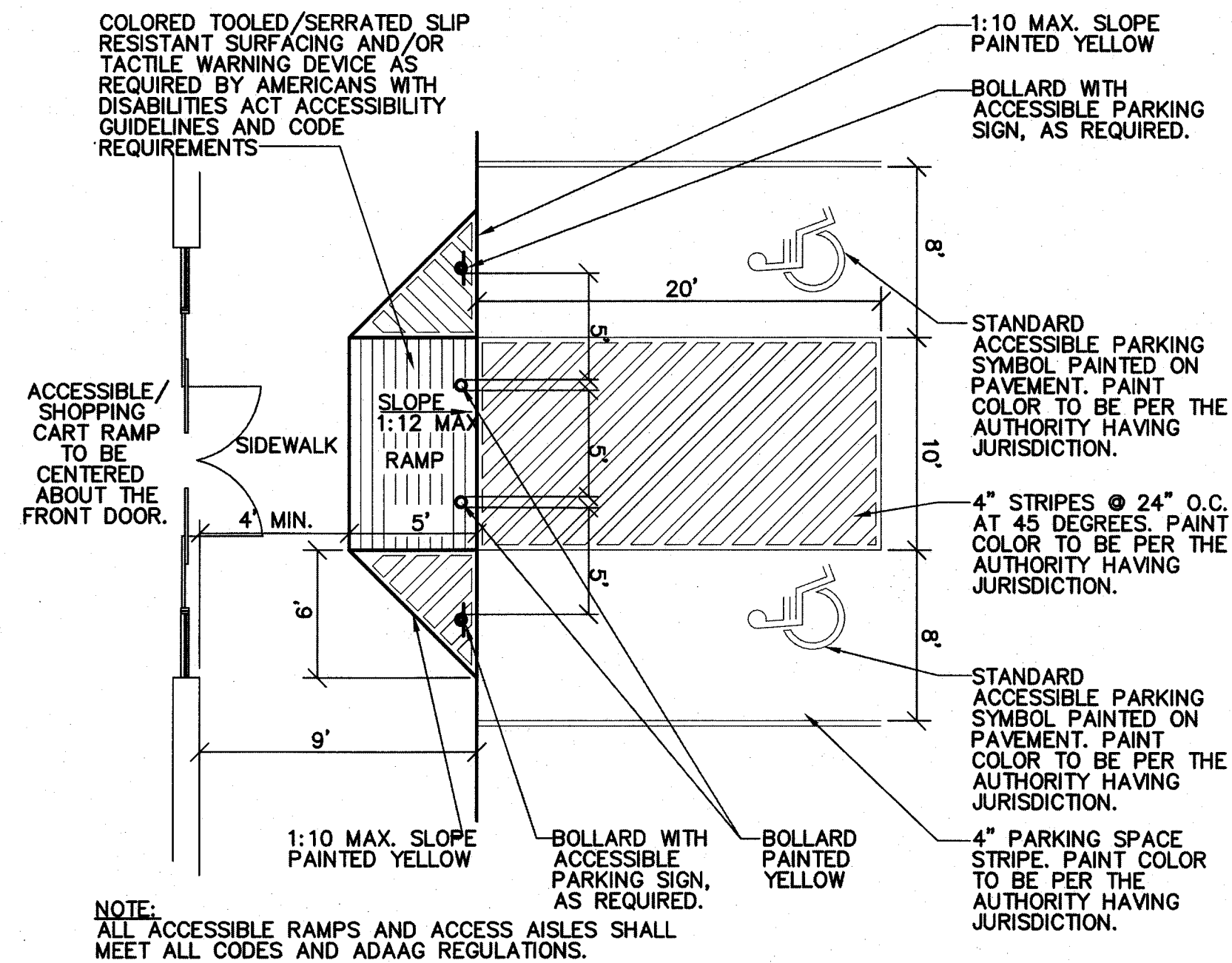
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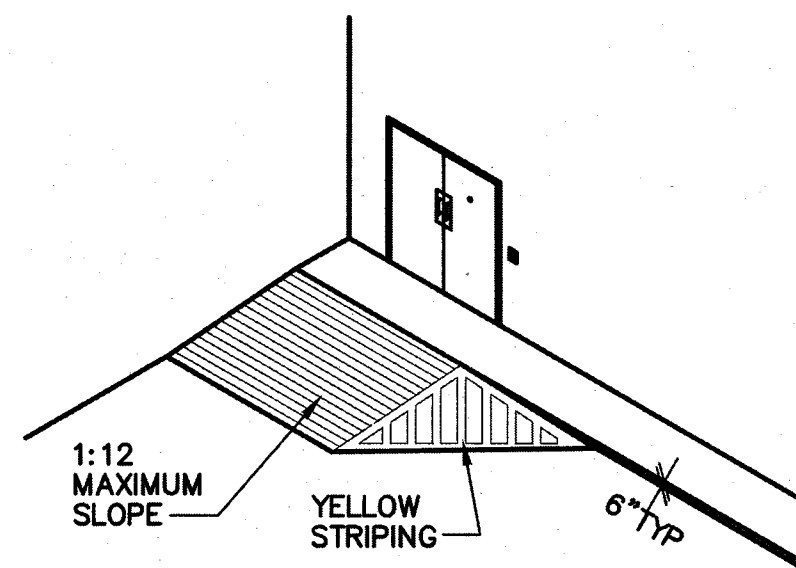
HANDICAP PARKING SIGN DETAIL
NOT TO SCALE



INTEGRAL SIDEWALK/CURB
NOT TO SCALE



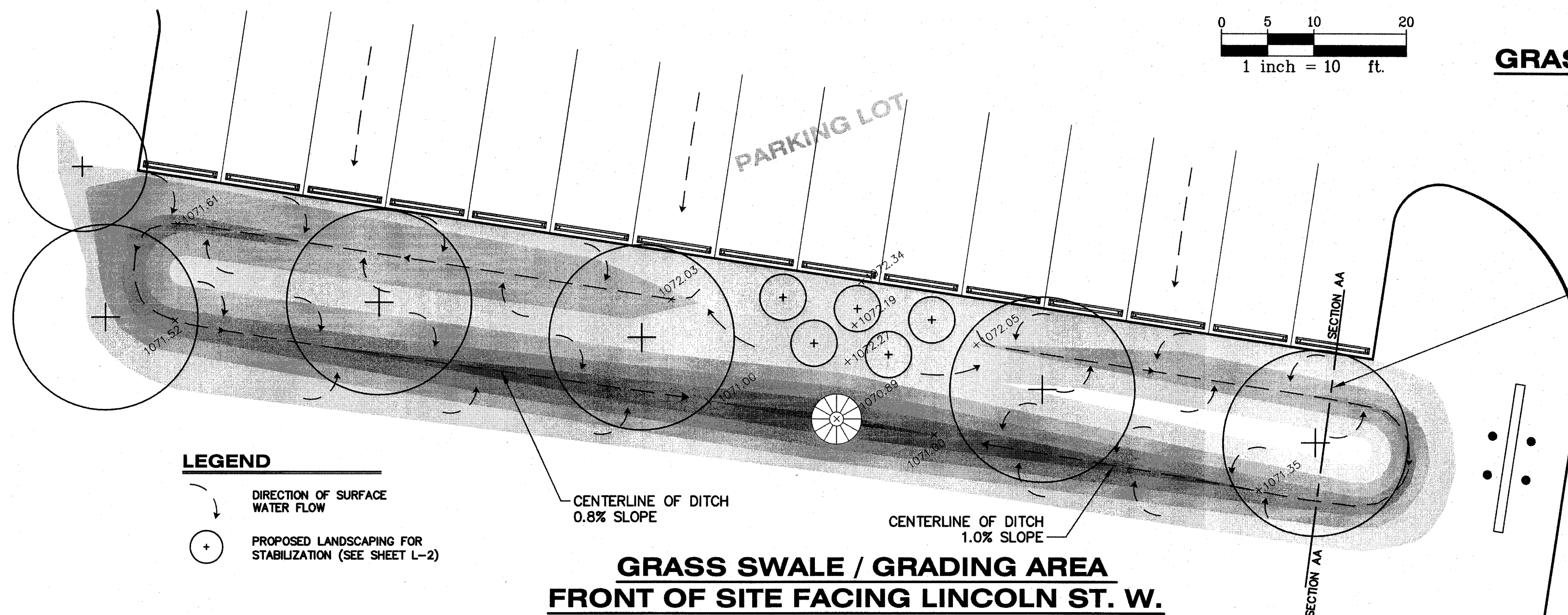
HANDICAP PARKING DETAIL
NO SCALE



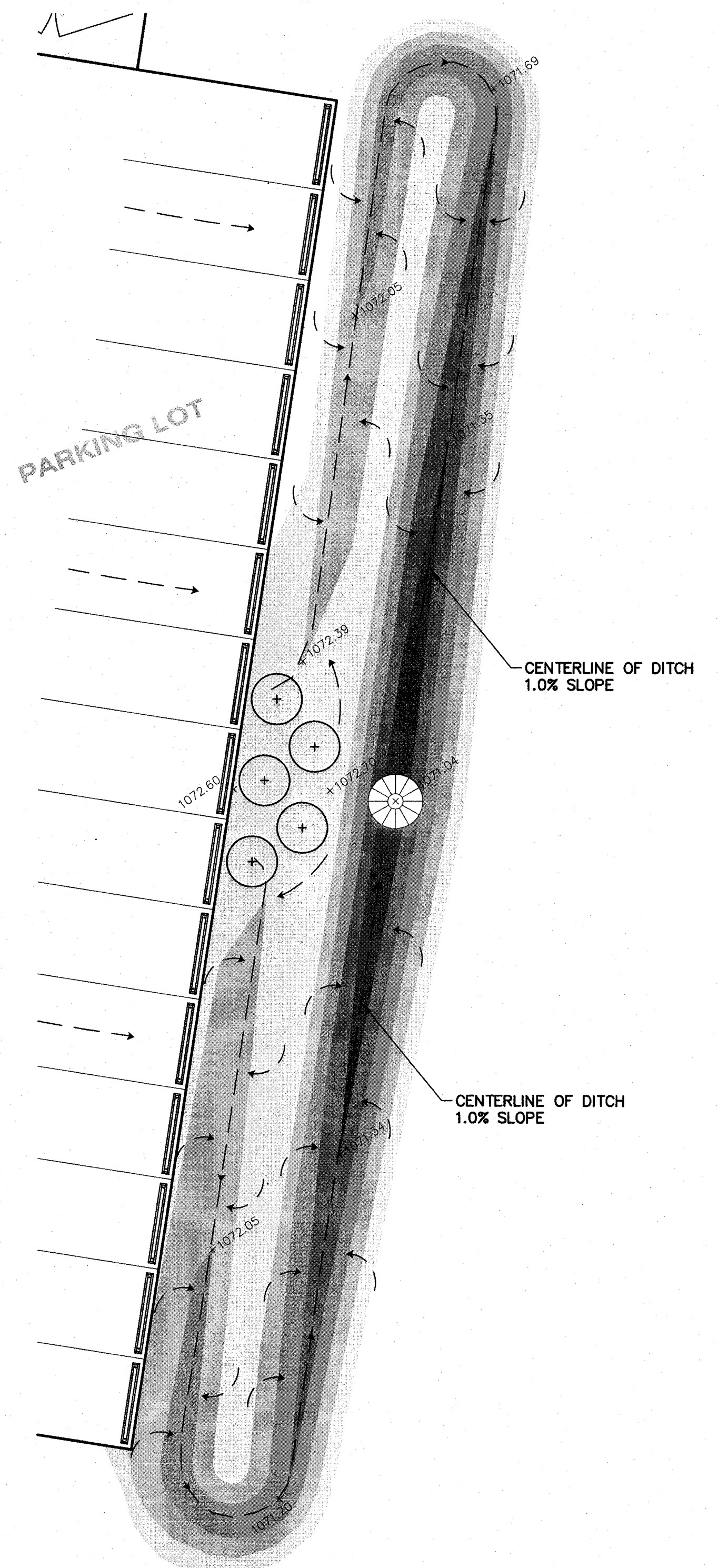
DELIVERY ACCESS RAMP
NOT TO SCALE

LEGEND

720	PROPOSED CONTOUR HIGHLIGHTED	720	EXISTING CONTOUR HIGHLIGHTED
719	PROPOSED CONTOUR NORMAL	719	EXISTING CONTOUR NORMAL
SA	PROPOSED SANITARY SEWER	SA	EXISTING SANITARY SEWER
ST	PROPOSED STORM SEWER	ST	EXISTING STORM SEWER
C	PROPOSED CATV	C	EXISTING CATV
OE	PROP ELEC (OVERHEAD)	OE	EXIST ELEC (OVERHEAD)
UE	PROP ELEC (UNDERGROUND)	UE	EXIST ELEC (UNDERGROUND)
F	PROPOSED FIBEROPTICS	F	EXISTING FIBEROPTICS
G	PROPOSED GAS LINE	G	EXISTING GAS LINE
T	PROPOSED TELEPHONE LINE	T	EXISTING TELEPHONE LINE
W	PROPOSED WATER MAIN	W	EXISTING WATER MAIN
X	PROPOSED TREELINE	X	EXISTING TREELINE
X	PROPOSED FENCE	X	EXISTING FENCE
CB	CURB CATCH BASIN	CB	EXISTING FENCE
SCB	SQUARE CATCH BASIN	GM	GAS METER
RCB	ROUND CATCH BASIN	TM	TELEPHONE MANHOLE
MS	MANHOLE STORM	TP	TELEPHONE PEDESTAL
MS	MANHOLE SANITARY	TP	TELEPHONE POLE
SC	SANITARY CLEANOUT	SG	PROPOSED SPOT GRADE
FH	FIRE HYDRANT	SG	EXISTING SPOT GRADE
WV	WATER VALVE	BM	BENCH MARK
WV	WATER VALVE IN VAULT	PB	POST/BOLLARD
WM	WATER METER	SI	SIGN
WR	WATER REDUCER	MB	MAILBOX
LP	LIGHT POLE	SB	SOIL BORING
PP	POWER POLE	MW	MONITOR WELL
GW	GUY WIRE		
EM	ELECTRIC MANHOLE		
EM	ELECTRIC METER		

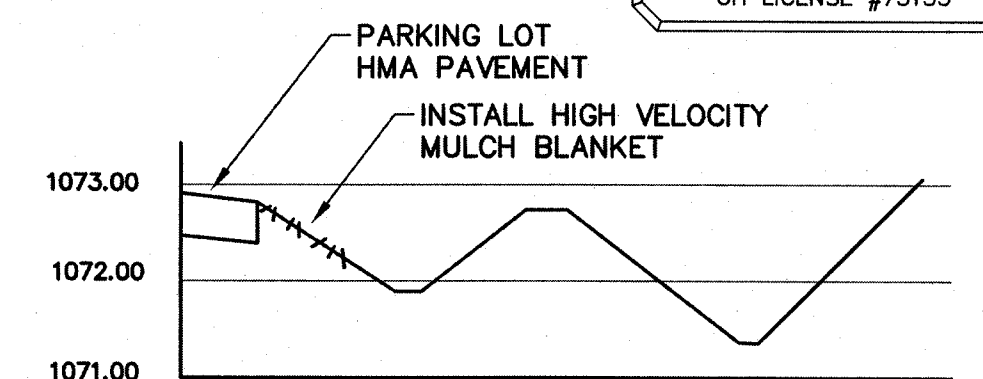


GRASS SWALE / GRADING AREA
FRONT OF SITE FACING LINCOLN ST. W.

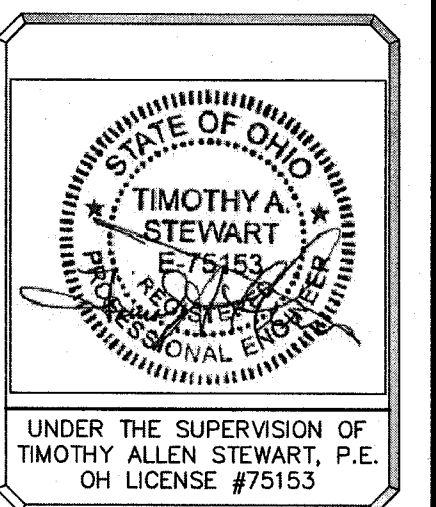


GRASS SWALE / GRADING AREA
EAST SIDE OF SITE

SECTION AA CENTERLINE
(SEE BELOW)



TYPICAL SECTION AA



DETAILS
DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
CAPITAL GROWTH - BUCHALTER

Sheet Title:
Project:
Client:

3/11/14
Sheet

C-5

Job No: 14-003B P.M.BG Drft: Q4/QC 3/11/14
ISSUED FOR REVISIONS: 3/11/14
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Kalamazoo, michigan 49009
269.552.4960 fax 269.552.4961
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Diagram illustrating the installation of a geotextile fence. The diagram shows a cross-section of the ground with a horizontal line representing the geotextile filter fabric. Fence posts are driven into the ground, and the geotextile fabric is attached to them. The diagram includes the following labels and dimensions:

- FASTEN TOPS OF FENCE POSTS AT JOINTS**: Points to the top of the fence posts.
- SPACING 6' MAX.**: Indicates the maximum distance between fence posts.
- FENCE POST DRIVEN INTO GROUND 1' MIN.**: Points to the bottom of a fence post.
- GEOTEXTILE FILTER FABRIC**: Points to the horizontal line representing the fabric.
- 6" ANCHOR TRENCH**: Points to the trench dug into the ground for the geotextile fabric.
- 1' MIN.**: Points to the depth of the anchor trench.
- SUPPORT FENCE**: Points to the fence line.

The diagram illustrates a slope stabilization system. A vertical line represents the 'GEOTEXTILE FILTER FABRIC FASTENED ON UPHILL SIDE TOWARD EARTH DISRUPTION'. To the left of this fabric is the 'UNDISTURBED VEGETATION'. To the right, a 'RIDGE OF COMPACTED EARTH ON UPHILL SIDE OF FILTER FABRIC' is shown. An arrow labeled 'SHEET FLOW' points down the slope. At the base of the ridge, a '6"x6" ANCHOR TRENCH' is indicated. A vertical dimension line shows a '1' MIN' distance from the base of the ridge to the bottom of the trench.

SILT FENCE DETAILS

CASTING AS SPECIFIED.
SET IN MORTAR.

FINISHED GRADE
SLOPE TOWARD CB

CONCRETE RINGS
(12" MAX) PLASTER
INSIDE AND OUT

24"

MANHOLE STEPS

DIA. AS REQUIRED

PRECAST ECCENTRIC CONE.
USE FLAT TOP FOR LOW
DEPTH OF COVER.

ASTM C-443 GASKETED
JOINTS, TYP.

CONCRETE MANHOLE PRECAST
SECTION PER ASTM C-478.
SIZE PER PLAN. BASE SECTION
TO HAVE INTEGRAL FLOOR.

INLET PIPE
IF REQUIRED

OUTLET PIPE

KOR-N-SEAL GASKET,
OR EQUAL (TYP).
SEAL W/ MORTAR.

2' MIN. SUMP

SAND LEVELING

A technical diagram showing a 45° wye fitting assembly. A horizontal pipe at the top is capped with a 'CAP'. A 'CONC. COLLAR—O.D. PIPE PLUS 12"X8" MIN. DEPTH' is shown around the cap. A 'LONG 45° ELBOW' connects the cap to a 'WYE' fitting. The wye fitting splits the flow into two parallel horizontal pipes at the bottom. Labels with leader lines point to each component.

INSTALL 3/4" Ø STL. DROP ROD W/
RETAINER SLEEVES AND KEEPER
ROD ON STL. POST FRAME

8" X 8" X 3/4" GALV. STL. PLATE-
RECEIVER—CAST INTO CONC.

2" SQ. GALV. STL. POST FRAME-
(PAINT). MITER AND FULLY WELD
CORNERS. PROVIDE TOP, BOTTOM
AND 1 INTERMEDIATE SQ. STL.
SUPPORTS PROTECT AND CONNECT
WOODEN SIDING TO SUPPORTS

Technical drawing of a dumpster enclosure, showing a top view and a side view.

Top View Dimensions:

- Overall width: 11'-0"
- Overall depth: 19'-0"
- Front opening width: 7'-0"
- Distance from front opening to dumpster: 2"-4" SPACING
- Distance from dumpster to back wall: 4x4
- Distance from dumpster to side wall: 1X6
- Distance from dumpster to back wall: 2X4

Side View Dimensions:

- Overall height: 72"
- Bottom opening height: 1'-2" SPACE
- Bottom opening width: 4"

Materials and Construction Details:

- 6" CONCRETE SLAB REINFORCED WITH 6x6-10/10 W.W.F. ON 4" MIN. SAND FILL.
- 10' LONG 4x4 WOLMANIZED POSTS SET IN 8"Ø HOLES FILLED WITH CONCRETE
- 1X6 TREATED WOODEN SIDING ON 2x4 NAILERS TOP, CENTER AND BOTTOM ATTACH NAILERS TO FACE OF POSTS
- 4" MAX SPACING

Diagram illustrating the cross-section of an Outlet Control Structure. The structure is shown with a vertical riser on the left and a horizontal outlet pipe on the right. The riser is labeled "OVERFLOW RISER TO 1069.8". The outlet pipe is labeled "12\" OUTLET PIPE". A vertical dimension of "2' SUMP" is indicated for the depth of the structure. The diagram also shows a "TEE WITH 12\" UT 10\" HOLE" and a "BOTTOM OF PLUG LOW-RELEASE". The structure is shown with a "2' SUMP" depth. The diagram includes a note: "INVERT ELEVATIONS AS INDICATED ON PLAN".

OUTLET CONTROL STRUCTURE

NOT TO SCALE

IF AN UNOBSTRUCTED VIEW EXISTS OF A RESIDENTIAL BUILDING BETWEEN TENANT PARCEL AND ADJACENT PARCEL, THEN LESSOR SHALL CONSTRUCT A PRIVACY FENCE IN ACCORDANCE WITH TENANT'S PROTOTYPE CRITERIA SET PLANS AND ANY APPLICABLE GOVERNMENTAL REQUIREMENTS.

NOTE:

1. WOOD TO BE TREATED PINE. USE GALVANIZED NAILS FOR FASTENING. GALVANIZED NAILS FOR FASTENING.
2. NUMBER OF BOARDS WILL VARY DEPENDING ON SPACE BETWEEN BOARDS AND ACTUAL WIDTH OF BOARDS.





Diagram illustrating the connection of a roof drain to a storm sewer:

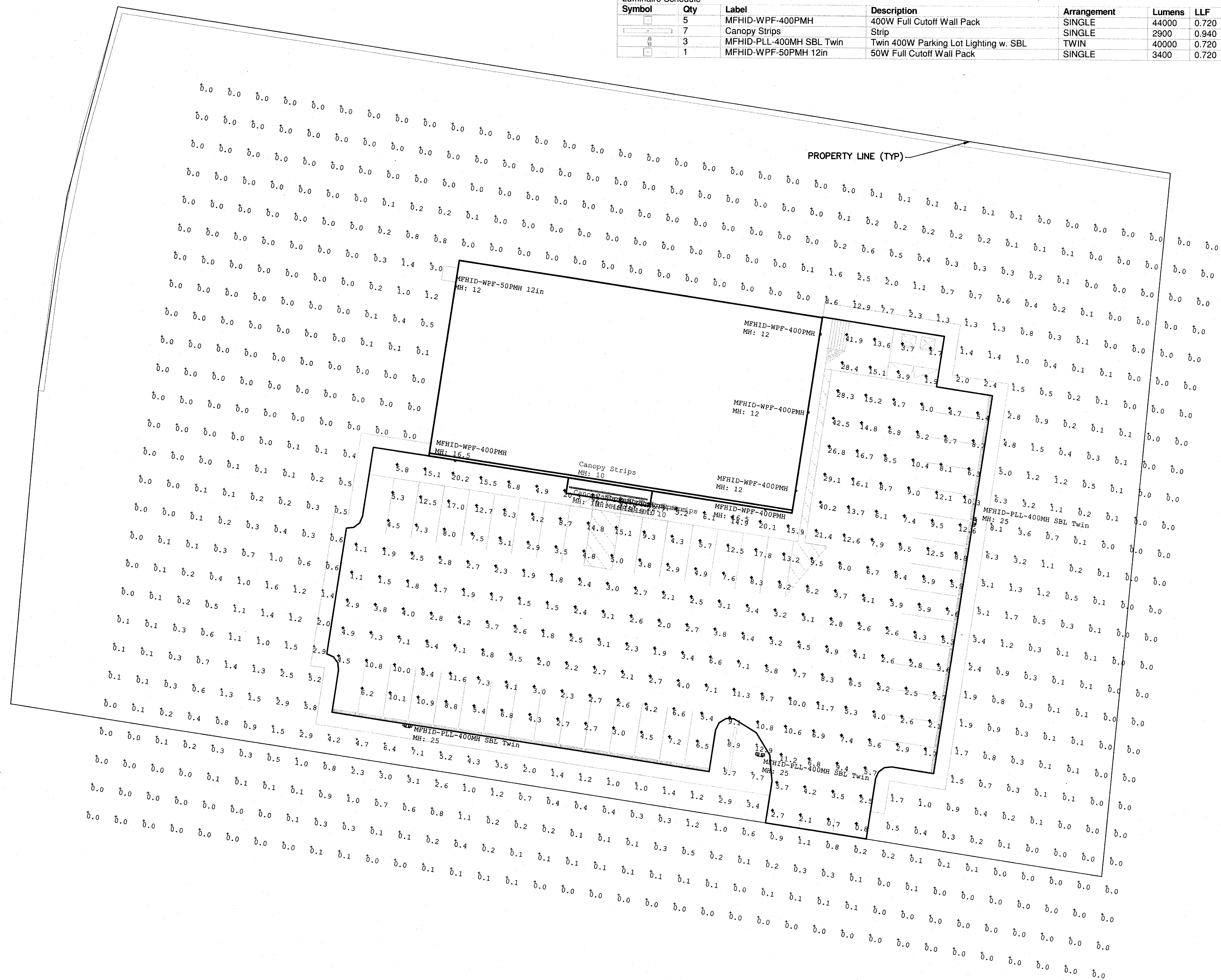
- DOWNSPOUT PER BUILDING PLANS
- PROVIDE RUBBER BOOT AND AIR GAP IN DOWNSPOUT. SLIDE ROOF DRAIN OR DOWNSPOUT INTO BOOT.
- GROUND SURFACE
- BUILDING WALL AND FOOTING
- 90° LONG RADIUS ELBOW
- 45° LONG RADIUS ELBOW
- 6" PVC AT 1.0% MIN. LENGTH AS NEEDED
- SAND BEDDING
- TEE
- CONNECT TO STORM SEWER AS SHOWN ON PLANS

ROOF LEAD/ DOWNSPOUT DETAIL



BOM Schedule		
Qty	Part Number	Description
5	MFHID-WPF-400MH	400W Full Cutoff Wall Packs
1	MFHID-WPF-50PMH	50W Full Cutoff Wall Packs
6	MFHID-PLL-400MH	400W Parking Lot Lighting ***NOTE: DO NOT tilt fixtures up, keep at 0 degree horizontal plane.
3	HW-F188A	25' Parking Lot Pole
3	HW-HID-PLL-MB	Twin Tenon Mounting Bracket
6	HW-HID-PLL-SBL16	16" Housing Backlight Shield

Luminaire Schedule						
Symbol	Qty	Label	Description	Arrangement	Lumens	LLF
	5	MFHID-WPF-400PMH	400W Full Cutoff Wall Pack	SINGLE	44000	0.720
	7	Canopy Strips	Strip	SINGLE	2900	0.940
	3	MFHID-PLL-400MH SBL Twin	Twin 400W Parking Lot Lighting w. SBL	TWIN	44000	0.720
	1	MFHID-WPF-50PMH 12in	50W Full Cutoff Wall Pack	SINGLE	3400	0.720



Luminaire Location Summary			
Label	Fix. Ht.	Orient	Tilt
Canopy Strips	10	0	0
Canopy Strips	10	0	0
Canopy Strips	10	0	0
Canopy Strips	10	0	0
Canopy Strips	10	0	0
Canopy Strips	10	0	0
Canopy Strips	10	0	0
MFHID-WPF-400PMH	12	0	0
MFHID-WPF-400PMH	12	0	0
MFHID-WPF-400PMH	12	0	0
MFHID-WPF-50PMH 12in	12	180	0
MFHID-PLL-400MH SBL Twin	25	90	0
MFHID-PLL-400MH SBL Twin	25	90	0
MFHID-PLL-400MH SBL Twin	25	180	0
MFHID-WPF-400PMH	16.5	270	0
MFHID-WPF-400PMH	16.5	270	0



Harris Lighting
Innovative Efficient Solutions

UTILITY NOTES

- ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS
DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE
RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE
EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY
ARE THE ONLY UTILITIES IN THE AREA.
- FIELD WORK PERFORMED BY:**
LANDTECH PROFESSIONAL SURVEYING



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Job No.: 14-003B P.M.:BG Drft: --- QA/QC: 3/11/14

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LIGHTNING PLAN
GENERAL - MASSILLON, OH (PARCEL 500343)
CAPITAL GROWTH - BUCHALTER

Sheet Title.

Project:

Client:

3/11/14

Sheet

L-1

DRAWING LOCATION: H:\14-0038 (03 Massillon, OH (Urban - Landscaping)) FINAL DRAWINGS\1-2 Landscape Plans.dwg LAST SAVED BY: ASTORSON ON 3/11/2014

NOTE:
STAKING OF BALL AND BURLAP TREES REQUIRED
AT THE DISCRETION OF THE CONTRACTOR.
CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF
ALL STAKING AT END OF ONE YEAR WARRANTY
PERIOD.

PRUNE ANY BROKEN OR
CROSSED OVER
BRANCHES. DO NOT
CUT TERMINAL LEADER.

USE FLEXIBLE GUYS AND
TIES WITH A BROAD
SMOOTH SURFACE. TIE
AT ONE THIRD FULL
HEIGHT OF TREE. REMOVE
AFTER ONE YEAR.
PRUNE SUCKERS AT
ROOT BALL.
ADD MYCORRHIZAL
LANDSCAPE INOCULANT
TO PLANTING HOLE WITH
BACKFILL.

CREATE WATERING DISH
WITH MULCH RING AT
EDGE OF PLANTING HOLE.

3 - WOOD OR STEEL
STAKES SIZED
APPROPRIATELY TO
STABILIZE TREE.

CUT AND REMOVE ALL
WRAPPING INCLUDING
TWINE, BURLAP AND WIRE
CAGES FROM TOP ONE
THIRD OF ROOT BALL.

DIG HOLE 2
TIMES THE WIDTH
OF ROOT BALL.

REMOVE ANY TAGS,
RIBBONS, OR PACKAGING
FROM TREE BRANCHES
AND TRUNK.

PLANT TREE SO TOP OF
ROOT BALL IS LEVEL
WITH EXISTING GRADE.
TREES LOCATED IN SOD
AREAS SHALL HAVE A
MULCH RING AROUND
THEM WITH STEEL EDGING
3" HARDWOOD MULCH.
LEAVE 3" RING
UNMULCHED AT TREE
BASE.

SCARIFY EDGES OF
PLANTING HOLE PRIOR
TO BACKFILLING.

BACKFILL WITH 1/3
MANURE, 1/3 COMPOST,
AND 1/3 NATIVE SOIL.
USE WATER TO SETTLE OUT
VOIDS IN BACKFILLED SOIL.

PLACE ROOT BALL ON
UNDISTURBED SOIL.

DECIDUOUS TREE

NOT TO SCALE

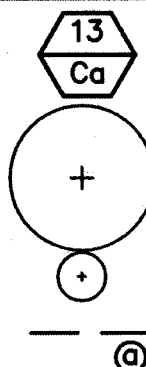
LANDSCAPE NOTES:

- TILL ALL LANDSCAPE AREAS TO A DEPTH OF 4" MINIMUM.
- ALL LAWN AREAS LABELED 'SEED' SHALL BE SEEDED AND MULCHED WITH THE FOLLOWING MIXTURE: 15% IMPROVED PERENNIAL RYEGRASS, 30% FINE FESCUE, 30% KENTUCKY BLUEGRASS, AND 25% ANNUAL RYE AT A RATE OF 8-10 LBS/1000 SFT. PROVIDE 19-19-19 STARTER FERTILIZER AT A RATE OF 5-7 LBS/1000 SFT.
- AREAS LABELED 'SOD' TO BE PLANTED WITH UPLAND MINERAL SOIL GROWN BLUEGRASS SOD. SOD TO HAVE BEEN HARVESTED WITHIN 24 HOURS OF PLANTING. ENSURE A SOURCE OF WATER BEFORE SCHEDULING SOD PLANTING. PREPARE SOIL TO RECEIVE SOD WITH A 19-19-19 STARTER FERTILIZER AT A RATE OF 5-7 LBS/1000 SFT.
- PROVIDE QUALITY, SIZE, GENUS, SPECIES, AND VARIETY OF EXTERIOR PLANTS INDICATED, COMPLYING WITH APPLICABLE REQUIREMENTS IN ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK." MEASURE ACCORDING TO ANSI Z60.1 STANDARDS.
- ALL PLANTINGS SHALL BE THOROUGHLY WATERED BY THE LANDSCAPE CONTRACTOR AT THE TIME OF PLANTINGS.
- WARRANT TREES FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
- REMOVE AND REPLACE DEAD PLANTS IMMEDIATELY. REPLACE PLANTS THAT ARE MORE THAN 25% DEAD OR IN AN UNHEALTHY CONDITION AT END OF WARRANTY PERIOD. A LIMIT OF ONE REPLACEMENT OF EACH PLANT WILL BE REQUIRED, EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH REQUIREMENTS.
- MAINTAIN TREES FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, TIGHTENING AND REPAIRING STAKES AND GUY SUPPORTS, AND RESETTNG TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY VIABLE PLANTINGS. SPRAY AS REQUIRED TO KEEP TREES FREE OF INSECTS AND DISEASE.
- BEGIN LAWN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL ACCEPTABLE LAWN IS ESTABLISHED: A MINIMUM OF 60 DAYS AFTER SUBSTANTIAL COMPLETION.
- MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, USING CHEMICAL TREATMENT TO ELIMINATE BROADLEAF AND NOXIOUS WEEDS, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH LAWN.
- PROTECT ADJACENT AND ADJOINING STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND PLANTINGS FROM HYDROSEEDING OVER-SPRAY AND DAMAGE CAUSED BY PLANTING OPERATIONS.
- REMOVE STONES LARGER THAN 1" IN ANY DIMENSION AND REMOVE STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEIOUS MATTER FROM SITE.
- MAINTAIN LAWN UNTIL A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90% OVER ANY 10 SQFT AND BARE SPOTS DO NOT EXCEED 5 BY 5 INCHES.

IRRIGATION NOTES:

- ALL LANDSCAPE AREAS AND LAWNS ADJACENT TO PAVED AREAS AND/OR STREETS ARE TO BE FULLY IRRIGATED.
- IRRIGATION SYSTEM TO INCLUDE ALL SPRAY HEADS, VALVES AND CONTROLLERS.
- A SEPARATE METER AND BACKFLOW PREVENTER WILL BE REQUIRED.
- LOCATE HEADS A MINIMUM OF 2'-0" FROM EDGE OF PAVEMENT/ CURB.

LEGEND



NUMBER AND TYPE OF PLANTS TO BE PROVIDED
AND INSTALLED.

PROPOSED DECIDUOUS TREE

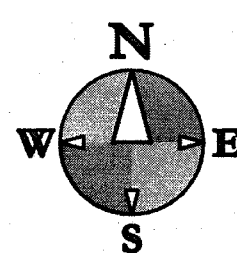
PROPOSED DECIDUOUS SHRUB

STEEL LANDSCAPE EDGING.

Planting Schedule Trees

Symbol	Latin Name	Common Name	Size	Container Type	Comments
Ac	Abies concolor	Concolor Fir	5' Ht.	B&B	Sheared well shaped
Cc	Cercis canadensis	Redbud	1" Cal.	B&B	4' min height
Gt	Gleditsia triacanthos inermis 'Suncole'	Sunburst Honeylocust	8' Ht.	B&B	
Qc	Quercus coccinea	Scarlet Oaks	8' Ht.	B&B	
Fc	Forsythia x 'Cortasol'	Gold Tide Forsythia	#5	Cont.	3' min spread

0 10 20 40
1 inch = 20 ft.



LANEDALE AVE. N.W.
(WIDTH VARIES, PUBLIC)

N04°49'22"E 111.46' (R&M)

LINCOLN ST. W. (SR-172)
(WIDTH VARIES, PUBLIC)



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DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE
RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE
EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY
ARE THE ONLY UTILITIES IN THE AREA.
FIELD WORK PERFORMED BY:
LANDTECH PROFESSIONAL SURVEYING

LANDSCAPE PLAN
DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
CAPITAL GROWTH - BUCHALTER

Sheet Title:
Project:
Client:

3/11/14

Sheet

L-2

Job No.: 14-0038 P.M.: BG Drft.: AS QA/QC: 3/11/14

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1 SITE PLAN SUBMITTAL

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GENERAL IRRIGATION SPECIFICATIONS

1. The irrigation system is diagrammatic based upon the information provided by the owner or the owner's representative. The successful contractor is responsible to install a system that will properly cover all areas indicated on the design. Actual layout of piping, sprinkler heads, valves, controllers and other related equipment shall be determined on site. Minor field changes shall be made at no additional cost to the owner.

It is the responsibility of the irrigation contractor to be familiar with all grade differences, locations of walls, structures and utilities and make the necessary adjustments to accommodate the irrigation system as shown on the drawings. There may be times when it is obvious in the field that unknown obstructions, grades or dimensions that exist might not have been considered in the engineering, such obstructions should be brought to the attentions of the owner's authorized representative. In the event that this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions and costs that occur.

2. This system shall be installed using accepted and quality installation standards as used in the industry. All manufacturers specifications will be followed.

3. Mainline shall be buried a minimum of 12" of cover and a maximum of 18" of cover. Lateral line piping a minimum of 12" of cover. All backfill surrounding the pipe shall be cleaned of materials larger than 1" in size. Backfill shall be added in 6" increments and mechanically tamped.

4. There will be no substitutions or changes to the irrigation design allowed without direct, written approval from the Irrigation Consultant. For information, contact Wolf Creek Company, Inc.

5. System design is based on pressure and flow information provided by others, static pressure was given as 70 psi and the size of the P.O.C. is as indicated on the drawing. The irrigation contractor shall verify water pressures prior to construction. Report differences between requirements and the actual readings to the owner's representative. A booster pump may be necessary if the required pressure is not available. Additional costs shall be submitted to the owner as a change order.

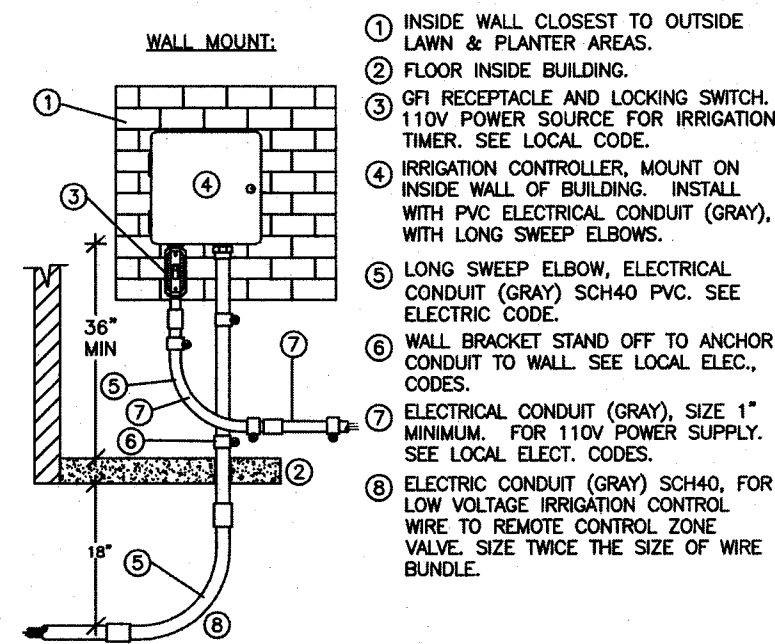
6. Piping shown in paved area without sleeve is diagrammatic and shall be located inside of the planted area or turf area approximately 1' from any hardscape.

7. All valves shall be placed in valve boxes as shown in the details and all electrical connections shall be sealed with waterproof connectors. Control wire shall be solid copper wire U.L. approved for direct burial in the ground. See details.

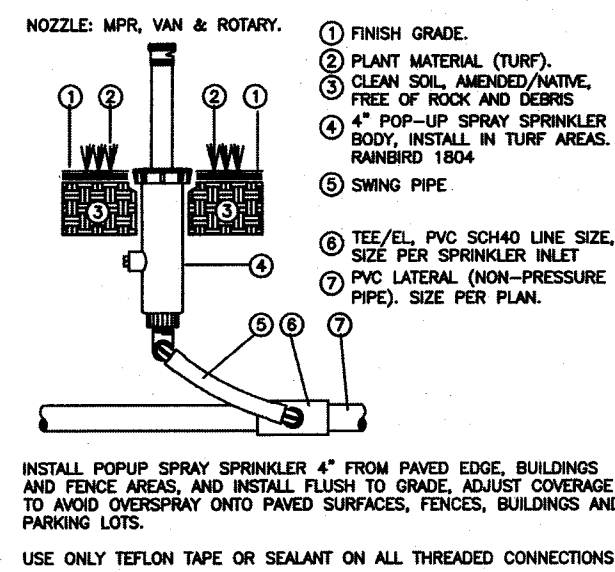
8. Controller, rain sensor, meter, tap and backflow locations are as shown on the plan or as stated in the details and legend. All information is to be verified prior to any installation of the project.

9. The Irrigation Contractor is responsible for all clean up associated with his work.

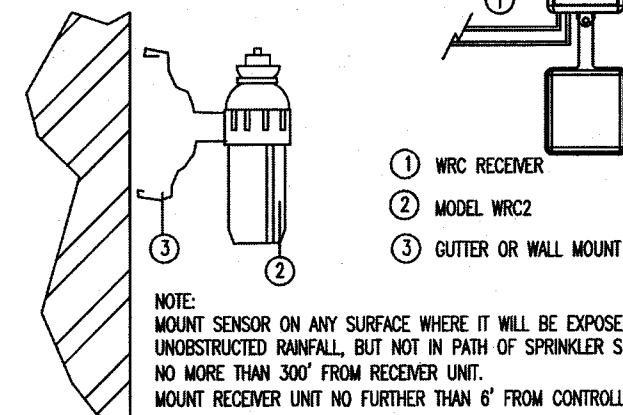
10. Irrigation contractor shall all provide the first winterization, spring turn on, head adjustments and controller maintenance in bid.



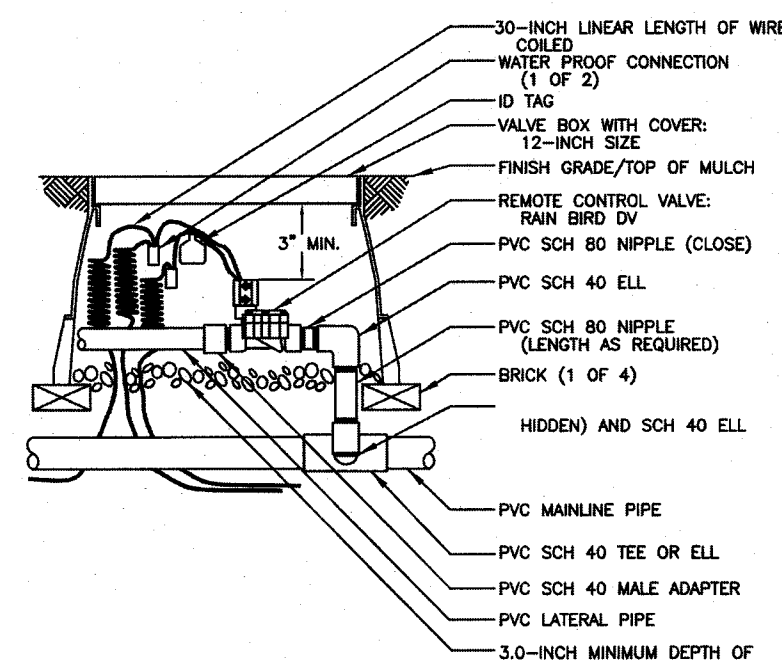
1 RAINBIRD ESP CONTROLLER



2 RAINBIRD 1804 4" POP UP



3 RAINBIRD RAIN SENSOR



4 RAINBIRD DV-100 ELECTRIC VALVE

IRRIGATION LEGEND

- PVC Class 200 Mainline, Size as noted on plans
- PVC Class 200 Lateral pipe, Size as noted on plans
- Sch 40 PVC Sleeving

A Rainbird ESP LX Controller

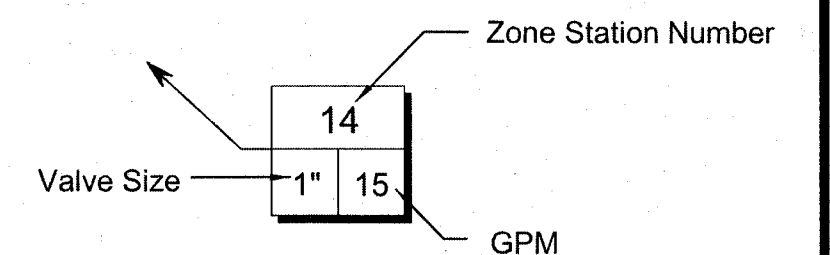
RS Rainbird Rain Sensor

● Rain Bird 5004-PC Turf Rotor

20 Rain Bird 3504-PC Turf Rotor

15 Rainbird 1804 4" pop up spray with mpr nozzles, end and strip nozzle

BF Backflow Preventer



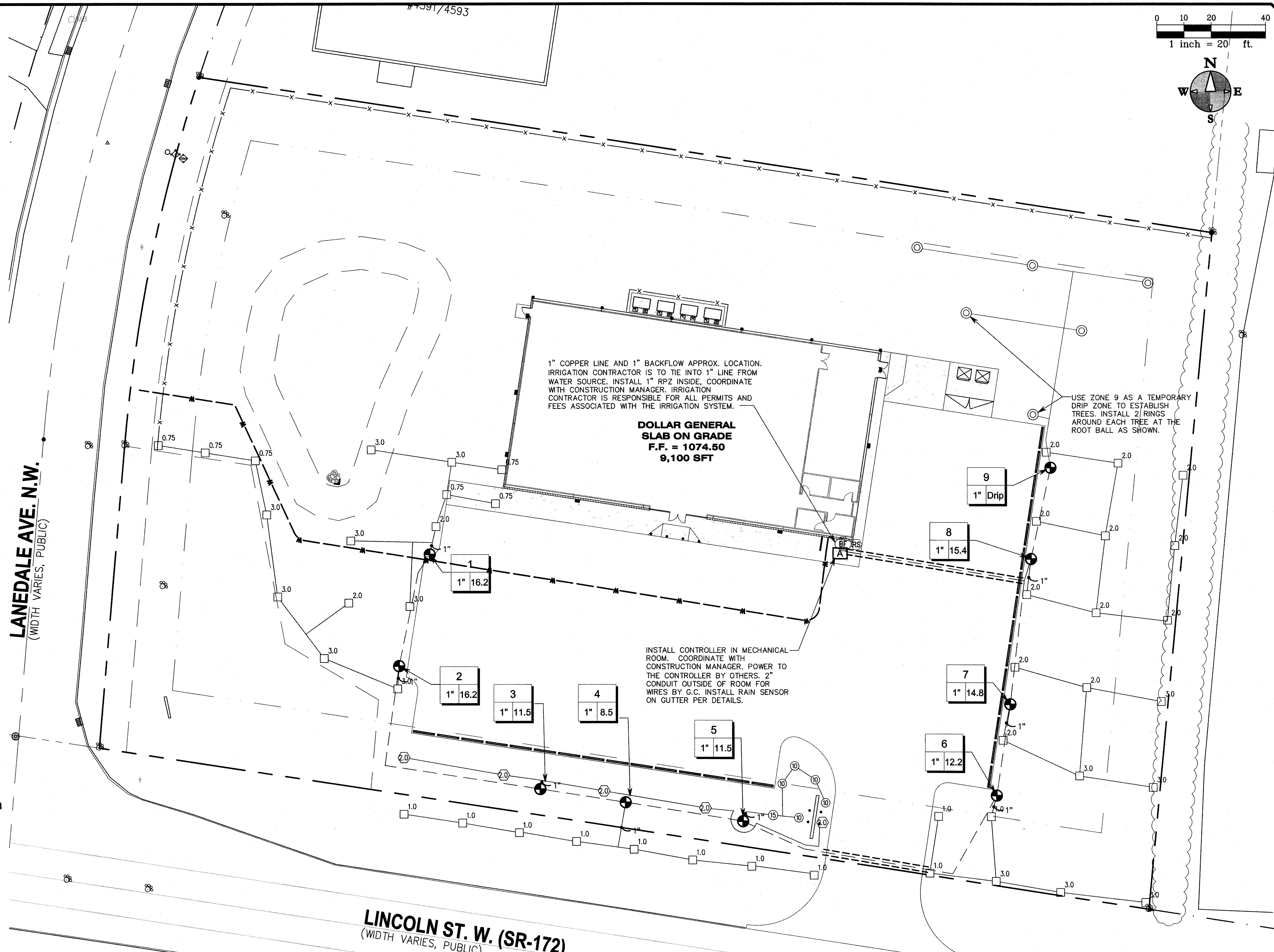
WC3 DESIGN
Irrigation Design & Consulting
www.wc3design.com
Tel: (412) 475-0045

Columbus, OH • Louisville, KY
Pittsburgh, PA

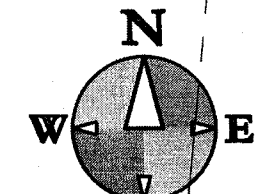


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FIELD WORK PERFORMED BY:
LANDTECH PROFESSIONAL SURVEYING



0 10 20 40
1 inch = 20' ft.



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Kalamazoo, michigan 49009
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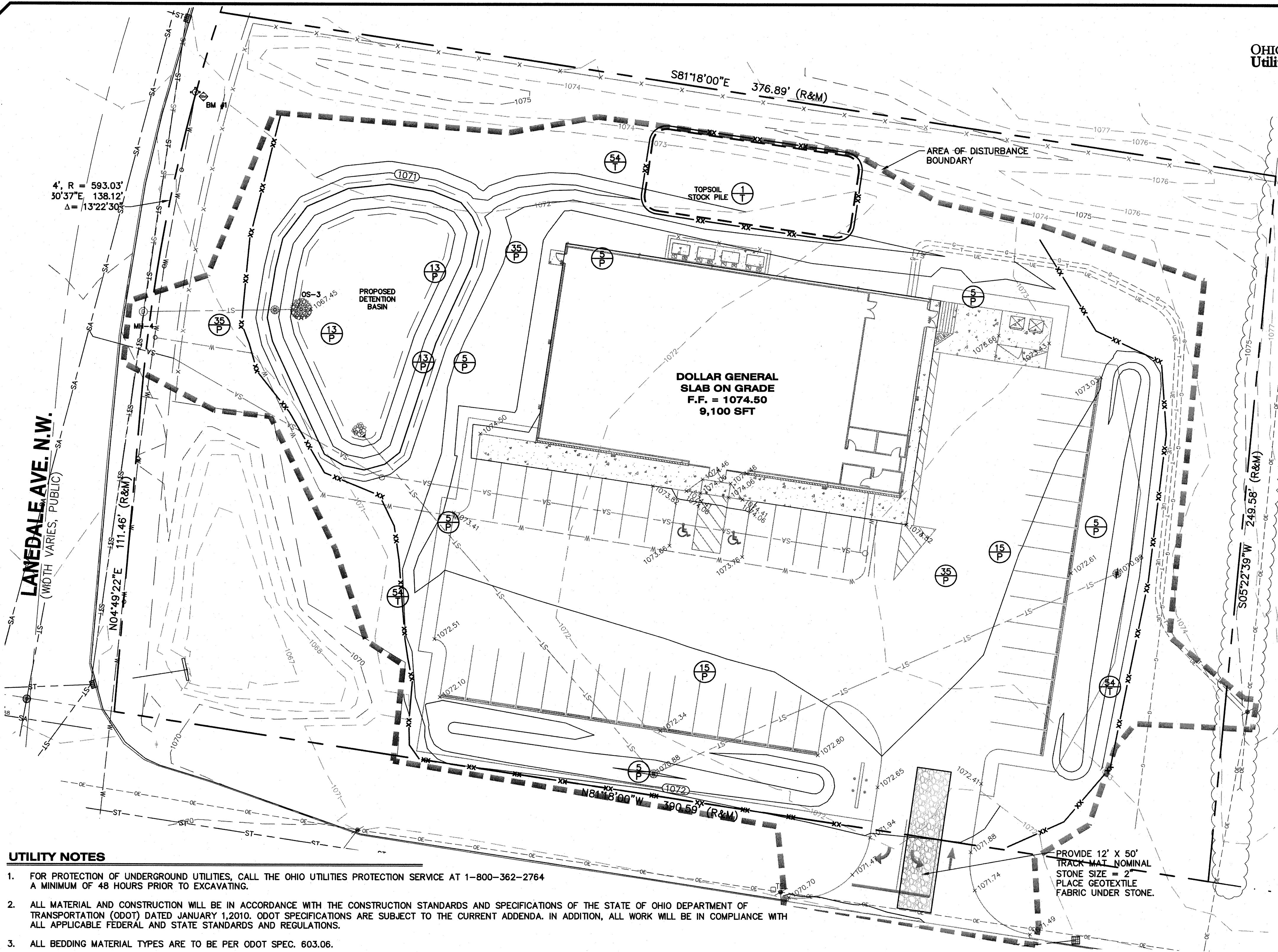
hurley & stewart

Job No: 14-003B P.M.BG Drt: --- QA/QC: 3/11/14
ISSUED FOR REVISIONS: 3/11/14
SITE PLAN SUBMITTAL

IRRIGATION PLAN
DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
CAPITAL GROWTH - BUCHALTER

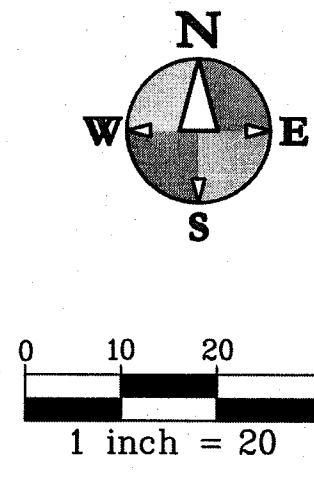
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3/11/14
Sheet
1-1



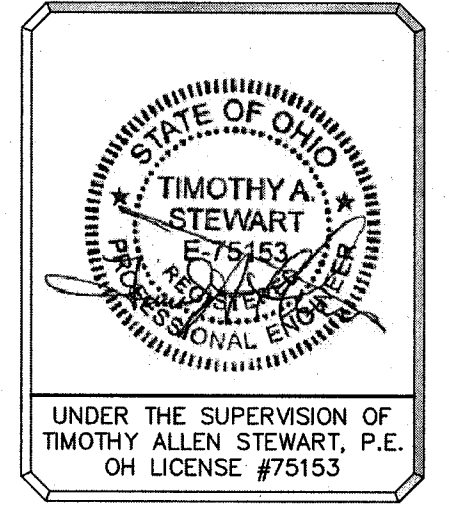
ALL UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

FIELD WORK PERFORMED BY:
LANDTECH PROFESSIONAL SURVEYING



SITE AREA:
TOTAL SITE AREA: 2.22 ACRES
TOTAL DISTURBED AREA: 1.72 ACRES

SITE SOILS:
SITE CLASSIFICATION "D"
SANDY SILT
USCS CLASSIFICATION: SM AND ML



GRADING - SESC NOTES

1. MATCH EXISTING GRADES AROUND PERIMETER WITH SLOPES AS SHOWN.
2. ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT GRADES AT EDGE OF METAL (EOM) UNLESS OTHERWISE NOTED.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPROVED SOIL EROSION CONTROL PLAN AND THE PERMIT AS ISSUED BY STARK COUNTY. SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO MASS GRADING.
4. ALL EXCAVATION AND SITE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT, TERRACON PROJECT NO. N4125110 ISSUED JULY 26, 2012.
5. ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK.
6. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID TRACKING SOIL ONTO ADJACENT ROADWAYS. SCRAPE ROAD AT THE END OF EACH WORKDAY AND SWEEP AT LEAST ONCE A WEEK.
7. ANY DISTURBED AREA THAT WILL BE LEFT UNWORKED 5 DAYS OR LONGER MUST BE SEEDED AND MULCHED OR SODDED TO ESTABLISH VEGETATION FOR TEMPORARY STABILIZATION. BASINS TO BE SEEDED AND MULCH BLANKETS APPLIED IMMEDIATELY TO PROVIDE A STABLE BASE AND AVOID EXCESSIVE EROSION.
8. STRAW MULCH BLANKETS SHALL BE USED ON 3:1 SLOPES OR GREATER. ALL SLOPES ON SITE SHALL BE 4:1 OR LESS, UNLESS OTHERWISE DIRECTED BY ENGINEER.
9. ROAD RIGHTS-OF-WAY MUST BE STABILIZED WITH SEED AND MULCH WITHIN 5 DAYS OF COMPLETING UTILITY WORK IN THE RIGHT-OF-WAY.
10. AREAS OF EARTH CHANGE THAT ARE DISTURBED BEYOND THE FALL SEEDING DEADLINE (NOV. 1) MUST BE TEMPORARILY STABILIZED WITH A MINIMUM OF STRAW MULCH SECURELY CRIMPED TO THE GROUND.
11. ACCUMULATED SEDIMENT TO BE REMOVED FROM STORM SYSTEM UPON COMPLETION OF CONSTRUCTION. ALL TEMPORARY CONTROLS TO BE REMOVED AFTER SITE IS STABILIZED AND VEGETATION ESTABLISHED.
12. SEE SHEET L-1 FOR PERMANENT AND TEMPORARY SEEDING NOTES.
13. SEE SHEET L-1 FOR BEST MANAGEMENT PRACTICES AND CONSTRUCTION SEQUENCE SCHEDULE.
14. 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.

STORM SEWER STRUCTURE SCHEDULE

STR. #	RIM EL.	DIAM.	CASTING	PIPES IN:	PIPES OUT
CB-1	1070.98	4'	5105 M1		12" SW: 1068.55
CB-2	1070.88	4'	5105 M1	12" NE: 1067.96	15" NW: 1067.96
MH-5	1070.47	4'	1120 B	12" E: 1067.23 EX 12" N: 1067.23	EX 12" S: 1067.23
OS-3	1069.14	4'	6508		8" W: 1067.45
OS-4	1069.45	4'	6508	8" E: 1067.41	12" W: 1067.41

*SEE SHEET C-5 FOR OUTLET CONTROL STRUCTURE DETAILS

UTILITY NOTES

1. FOR PROTECTION OF UNDERGROUND UTILITIES, CALL THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATING.
2. ALL MATERIAL AND CONSTRUCTION WILL BE IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) DATED JANUARY 1,2010. ODOT SPECIFICATIONS ARE SUBJECT TO THE CURRENT ADDENDA. IN ADDITION, ALL WORK WILL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL AND STATE STANDARDS AND REGULATIONS.
3. ALL BEDDING MATERIAL TYPES ARE TO BE PER ODOT SPEC. 603.06.
4. ALL BACKFILL MATERIAL TYPES ARE TO BE PER ODOT SPEC. 603.10.
5. GRANULAR MATERIAL OR CDF SHALL BE USED FOR BACKFILLING ALL TRENCHES UNDER PAVEMENT AND/OR ANY PORTION OF THE TRENCH THAT IS WITHIN 5 FT. OF THE PAVEMENT EDGE OR CURB. PAVEMENT SHALL INCLUDE BUT IS NOT LIMITED TO; ROADWAYS, SIDEWALKS, SERVICE WALKS, DRIVEWAY APPROACHES, PARKING LOTS OR ANY PROPOSED PAVED SURFACE.
6. SOIL EROSION AND SEDIMENTATION BEST MANAGEMENT PRACTICE (BMP) MEASURES WILL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND WILL BE MAINTAINED AT ALL TIMES UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING ALL GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES ARE IN PLACE.
7. CONTRACTOR IS TO DESIGNATE A SITE DUMP/WASH AREA PRIOR TO STARTING CONSTRUCTION FOR SUCH PURPOSES AS WASHING OUT CONCRETE TRUCKS AND DUMPING NON-HAZARDOUS WASTE MATERIALS. DUMPING OR DISCHARGE OF ANY WASTE MATERIALS TO ANY SEWERS IS PROHIBITED. HAZARDOUS WASTES ARE TO BE REMOVED OFF SITE AND PROPERLY DISPOSED OF CONSISTENT WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
8. COORDINATE ALL UTILITY LOCATIONS AND ELEVATIONS WITH MECHANICAL DRAWINGS AND BUILDING CONTRACTOR PRIOR TO INSTALLATION.
9. REMOVE SEDIMENT FROM ALL STRUCTURES ONCE PAVING IS COMPLETE AND REMOVE SILT SACKS.
10. SANITARY SEWER MATERIALS AND INSTALLATION SHALL COMPLY WITH THE OHIO EPA AND STARK COUNTY REQUIREMENTS. COORDINATE WORK AND INSPECTIONS WITH THE OHIO EPA AND STARK COUNTY.
11. WATER SUPPLY MATERIALS AND INSTALLATION SHALL COMPLY WITH THE OHIO EPA REQUIREMENTS AND SPECIFICATIONS.
12. CONTRACTOR TO COORDINATE PRIVATE UTILITY CONNECTIONS WITH UTILITY COMPANIES.
13. PLACE SANITARY CLEANOUT EVERY 100' AND/OR AT BENDS ON ALL 6" SANITARY SEWER LEADS.
14. ALL STRUCTURE CASTINGS TO BE EAST JORDAN IRON WORKS OR APPROVED EQUAL. SEE STRUCTURE TABLE FOR SPECIFIC CASTING AT EACH STRUCTURE.
15. THE CONTRACTOR SHALL INSTALL PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.
16. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR GROUNDWATER AND SOILS INFORMATION. ANY UTILITIES REQUIRING DEWATERING SHALL BE INSTALLED TO STARK COUNTY STANDARDS AND INCLUDED IN THE INSTALLATION COSTS. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING NECESSARY TO CONSTRUCT UTILITIES IN THE DRY.
17. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
18. ADS FLEXSTORM INLET FILTERS ARE TO BE INSTALLED IN EACH CATCH BASIN WITHIN THE PARKING AREA. COORDINATE FILTER MODEL AND INSTALLATION METHOD WITH MANUFACTURER.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

KEY	DETAIL	CHARACTERISTICS
5	Seeding	Inexpensive & very effective Stabilizes soil, thus minimizing erosion Permits runoff to infiltrate soil, reducing runoff volume Should include prepared topsoil bed
13	Riprap, Rubble, Gabions	Used where vegetation is not easily established Effective for high velocities or high concentrations Permits runoff to infiltrate soil Dissipates energy flow at system outlets
15	Paving	Protects areas which cannot otherwise be protected, but increases runoff volume and velocity Irregular surface will help slow velocity
35	Storm Sewer	System removes collected runoff from site, particularly from paved areas Can accept large concentrations of runoff Conducts runoff to municipal sewer system or stabilized outfall location Use catch basins to collect sediment
36	Catch Basin, Drain Inlet	Collects high velocity concentrated runoff May use filter cloth over inlet. See paved storm sewer inlet detail.
54	Geotextile Silt Fence	Use geotextile and posts or poles May be constructed or preplaced Easy to construct and locate as necessary

THE OVERALL SEDIMENT AND EROSION CONTROL SCHEME IS DESIGNED TO PREVENT POLLUTED RUNOFF FROM LEAVING THE SITE BOUNDARIES OR ENTERING THE EXISTING STORM SYSTEM DURING CONSTRUCTION. SILT FENCE IS IMPLEMENTED AT ALL CONSTRUCTION PERIMETERS AND THE TOPSOIL STOCK PILE AREA.

SWPPP NOTES

WATER QUALITY WILL BE ADDRESSED THROUGH THE INSTALLATION OF ADS FLEXSTORM INLET FILTERS.

I, THE UNDERSIGNED, CERTIFY THAT I UNDERSTAND AND WILL ADHERE TO THE REQUIREMENTS, TERMS, AND CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN REVIEWED AND APPROVED BY THE STARK SOIL AND WATER DISTRICT FOR COMPLIANCE WITH THE STARK COUNTY WATER QUALITY REGULATIONS FOR THE ABOVE REFERENCED PROJECT.

OWNER _____ DATE _____

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2800 south 11th street
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www.hurleystewart.com

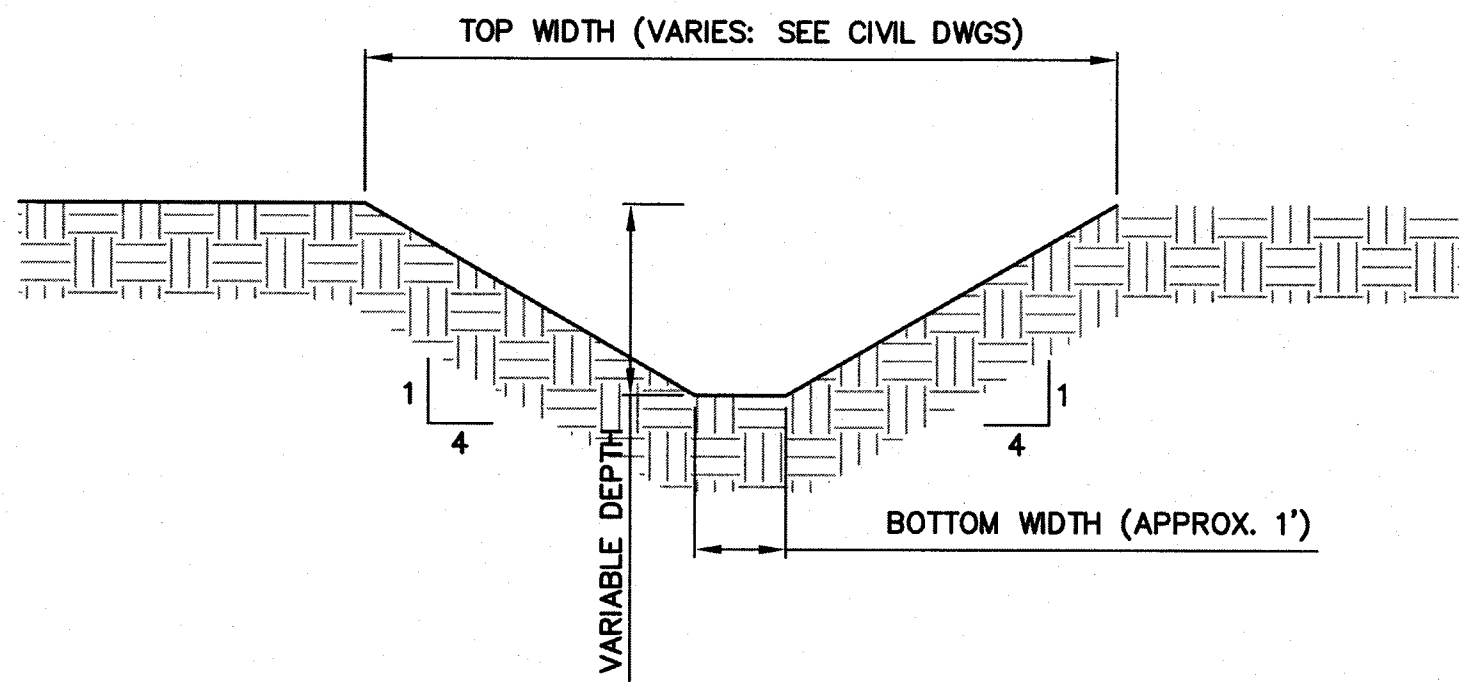
hurley & stewart

Job No: 14-003B P.M.BG Drft: A/E-QA/QC 3/11/14
ISSUED FOR: REVISIONS:
SITE PLAN SUBMITTAL 3/11/14

SWPPP SITE PLAN
DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
CAPITAL GROWTH - BUCHALTER

Sheet Title:
Project:
Client:
4/22/13
Sheet
S-1

DRAWING LOCATION: H:\14-0038 (00-Massillon, OH) 3/11/14
FINAL EXAMINING: S-2 SWPPP Details.dwg LAST SAVED BY: ATRAINER ON 3/11/2014



GRASSED SWALE DETAIL
NO SCALE

GRASSED SWALE: OPERATION & MAINTENANCE

1. ALL TREES, BRUSH, STUMPS, AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE.
2. THE CHANNEL SHALL BE EXCAVATED AND SHAPED TO THE PROPER GRADE AND CROSS SECTION.
3. FILL MATERIAL USED IN THE CONSTRUCTION OF THE CHANNEL SHALL BE WELL COMPACTED IN UNIFORM LAYERS NOT EXCEEDING 9 INCHES USING THE WHEEL TREADS OR TRACKS OF THE CONSTRUCTION EQUIPMENT TO PREVENT UNEQUAL SETTLEMENT.
4. EXCESS EARTH SHALL BE GRADED OR DISPOSED OF SO THAT IT WILL NOT RESTRICT FLOW TO THE CHANNEL OR INTERFERE WITH ITS FUNCTIONING.
5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE SPECIFICATIONS FOR PERMANENT SEEDING, VEGETATIVE PRACTICES, SODDING AND MATTING.
6. CONSTRUCTION SHALL BE SEQUENCED SO THAT NEWLY CONSTRUCTED CHANNELS ARE STABILIZED PRIOR TO BECOMING OPERATIONAL. TO AID IN THE ESTABLISHMENT OF VEGETATION, SURFACE WATER MAY BE PREVENTED FROM ENTERING THE NEWLY CONSTRUCTED CHANNEL THROUGH THE ESTABLISHMENT PERIOD.
7. GULLIES THAT MAY FORM IN THE CHANNEL OR OTHER EROSION DAMAGE THAT OCCURS BEFORE THE GRASS LINING BECOMES ESTABLISHED SHALL BE REPAIRED WITHOUT DELAY.

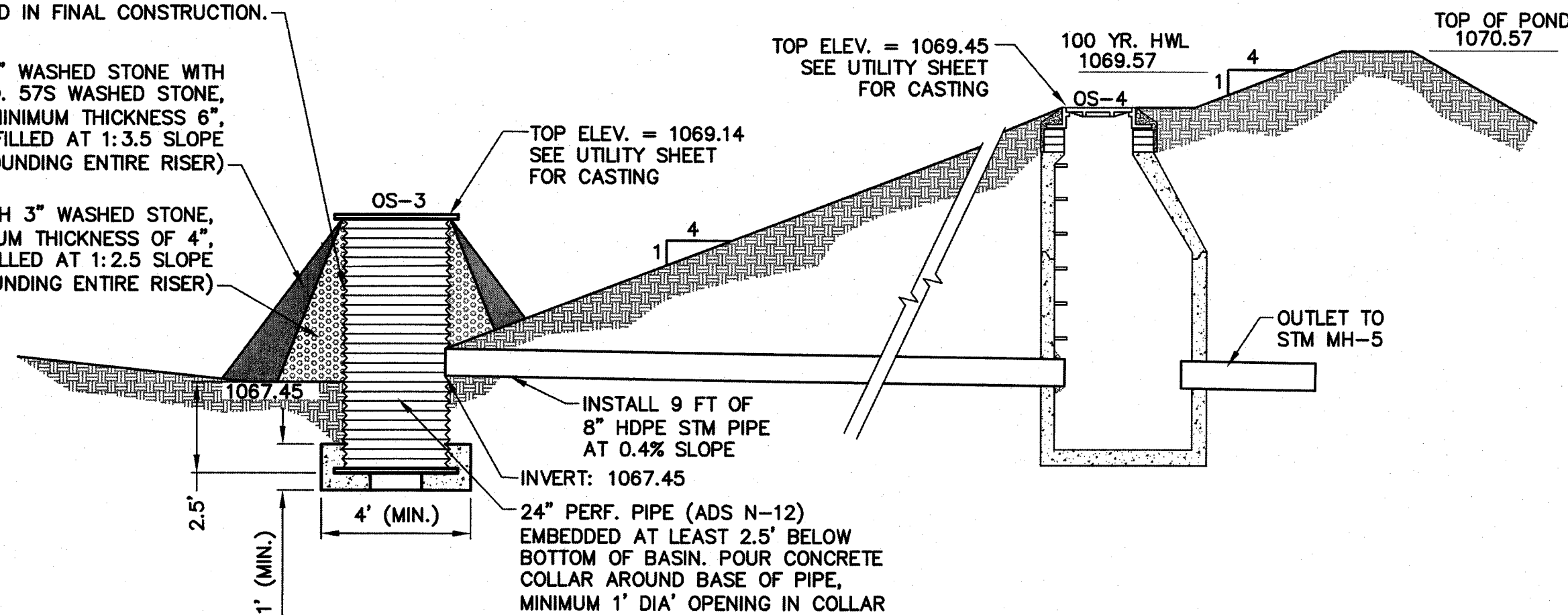
SUMMARY OF DETENTION BASIN DRAINAGE CALCULATIONS

STORM DESIGN FREQUENCY (YEARS)	WATER QUALITY	1	2	5	10	10 DURING CONSTRUCTION	25	50	100
PRE-DEVELOPED PEAK FLOW (CFS)	N/A	1.56	1.72	3.3	4.07	4.07	4.85	5.85	6.25
POST-DEVELOPED UNCONTROLLED PEAK FLOW (CFS)	N/A	2.89	3.1	5.06	5.95	5.95	6.85	7.98	8.43
POST-DEVELOPED PEAK FLOW FROM BASIN (CFS)		1.12	1.18	1.67	1.87	1.87	2.00	2.18	2.32
DESIGN PEAK WATER ELEVATION (FT)		1068.22	1068.28	1068.77	1068.99	1068.99	1069.2	1069.47	1069.57
DESIGN STORAGE VOLUME REQUIRED (CF)		2302	2478	4223	5067	5067	5953	7102	7552
AS-CONSTRUCTED PEAK FLOW FROM BASIN (CFS)									
AS-CONSTRUCTED PEAK WATER ELEVATION (FT)									
AS-CONSTRUCTED STORAGE VOLUME PROVIDED (CFT)									

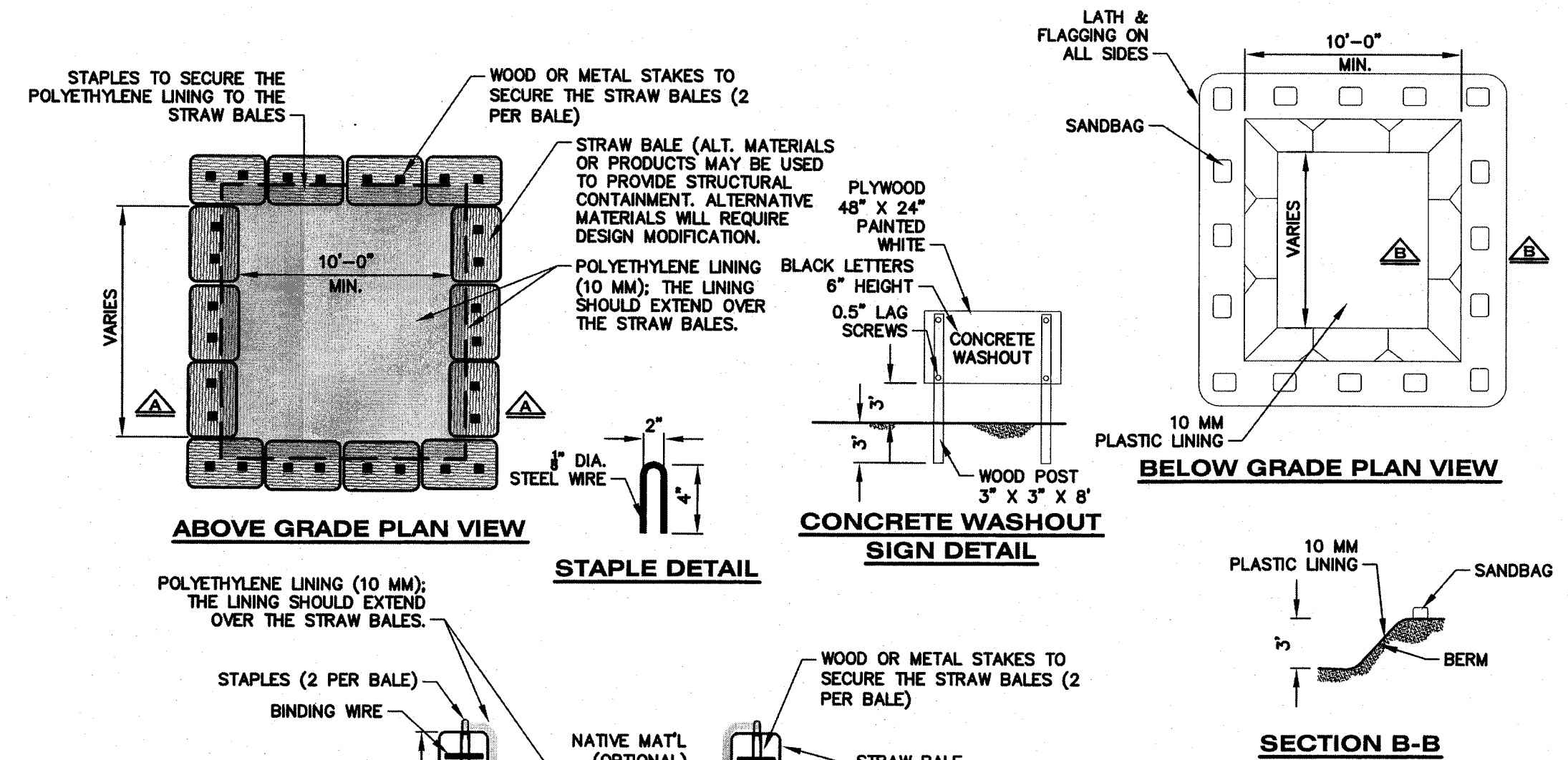
INSTALL GEOTEXTILE FABRIC AND STONE AROUND PIPE DURING CONSTRUCTION. ONCE TURF IS ESTABLISHED, REMOVE FABRIC AND STONE AND PLACE NEW CLEAN STONE. NO GEOTEXTILE FABRIC IS REQUIRED IN FINAL CONSTRUCTION.

CHOK 3" WASHED STONE WITH ODOT NO. 57S WASHED STONE, MINIMUM THICKNESS 6", BACKFILLED AT 1:3.5 SLOPE (TYP. SURROUNDING ENTIRE RISER)

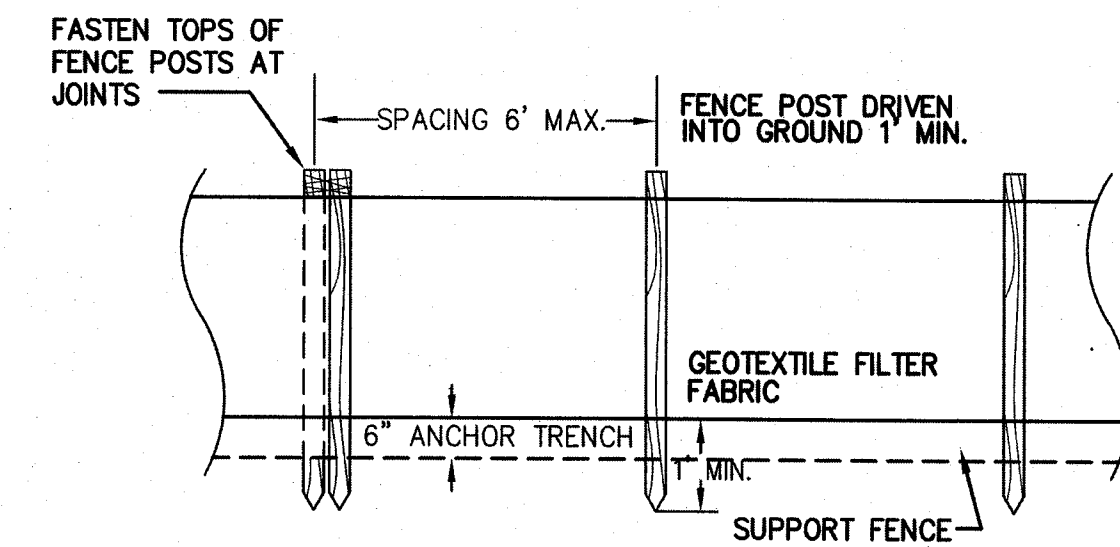
BACKFILL WITH 3" WASHED STONE, MINIMUM THICKNESS OF 4", BACKFILLED AT 1:2.5 SLOPE (TYP. SURROUNDING ENTIRE RISER)



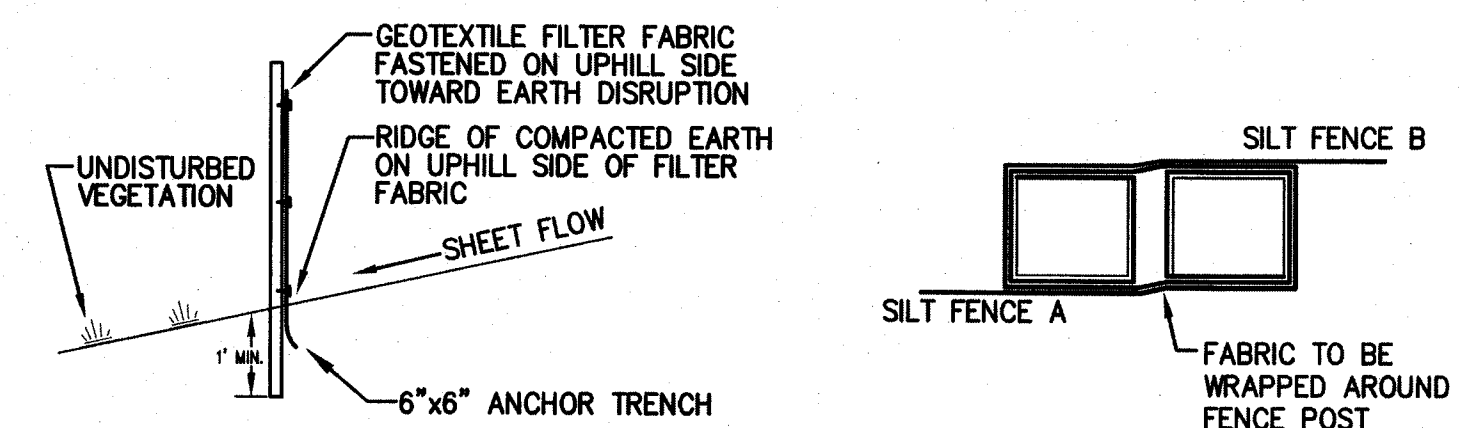
SLOW RELEASE OVERFLOW DETAIL
NO SCALE



CONCRETE WASH-OUT
NOT TO SCALE



FRONT VIEW
NOT TO SCALE



SILT FENCE DETAILS
NOT TO SCALE

SEEDING NOTES:

1. ALL LAWN AREAS SHALL BE SEEDED AND MULCHED WITH THE FOLLOWING MIXTURE: 20% IMPROVED PERENNIAL RYEGRASS, 40% FINE FESCUE, AND 40% KENTUCKY BLUEGRASS AT A RATE OF 8-10 LBS/ 1000 SFT. PROVIDE 19-19-19 STARTER FERTILIZER AT A RATE OF 5-7 LBS/1000 SFT.
2. BEGIN LAWN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL ACCEPTABLE LAWN IS ESTABLISHED: A MINIMUM OF 60 DAYS AFTER SUBSTANTIAL COMPLETION.
3. MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS AND REMULCH TO PRODUCE A UNIFORMLY SMOOTH LAWN.
4. PROTECT ADJACENT AND ADJOINING STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND PLANTINGS FROM HYDROSEEDING OVER-SPRAY AND DAMAGE CAUSED BY PLANTING OPERATIONS.
5. REMOVE STONES LARGER THAN 1" IN ANY DIMENSION AND REMOVE STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER FROM SITE.
6. MAINTAIN LAWN UNTIL A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90% OVER ANY 10 SQFT AND BARE SPOTS DO NOT EXCEED 5 BY 5 INCHES.
7. SEED TOPSOIL STORAGE LOCATION AND ANY SOIL AREAS EXPOSED MORE THAN TWO WEEKS WITH AN ANNUAL GRASS MIX TO PREVENT SOIL EROSION.

SESC Construction and Maintenance Schedule

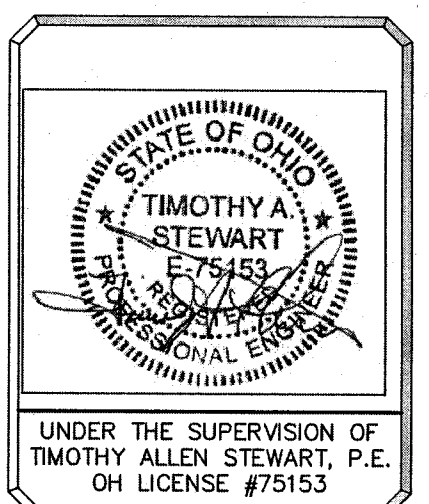
Project Name: Massillon Dollar General
Project Start Date: June 2014
Project End Date: October 2014

Construction Schedule

Construction Sequence	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Temporary SESC Measures						X	X					
Strip and Stock Pile						X						
Rough Grading						X	X					
Underground Utilities						X	X					
Pavement Installation								X	X	X		
Building Construction							X	X	X	X		
Permanent SESC Measures						X	X	X	X	X		
Final Grading								X	X	X		
Landscaping								X	X	X		

Maintenance Schedule

Maintenance Sequence	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Street Sweeping						X	X	X	X	X		
Silt Fence Installation						X	X	X	X	X		
Maintain Buffer Strips						X	X	X	X	X		
Seeding and Mulch								X	X	X		
Sediment Basins								X	X	X		
Rip Rap								X	X	X		
Remove Temporary SESC Measures												



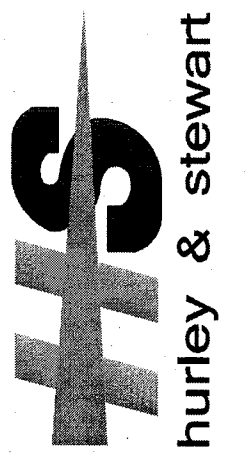
SWPPP DETAILS
DOLLAR GENERAL - MASSILLON, OH (PARCEL 500343)
CAPITAL GROWTH - BUCHALTER

Sheet Title:
Project:
Client:

3/11/14
Sheet

S-2

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QA/QC: 3/11/14
Job No: 14-0038
SITE PLAN SUBMITTAL
3/11/14

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