

SYMBOLS LEGEND

- Center Line
- Property Line
- Existing Right-Of-Way
- Proposed Right-Of-Way
- Fence Line
- Poles
- Underground Utilities
 - Power
 - Telephone
 - Traffic
 - Cable TV
 - Light
 - With Anchor
 - Communications
 - Electric
 - Gas
 - High Pressure Gas
 - Sanitary
 - Storm
 - Telephone
 - Water
- Overhead Electric
 - Electric
- Storm Manhole
- Storm Catch Basin
- Storm Drip Inlet
- Storm Clean-Out
- Sanitary Manhole
- Sanitary Lamphole
- Sanitary Clean-Out
- Sanitary Vent Pipe
- Telephone Manhole
- Telephone Splice Box
- Electric Manhole
- Electric Handhole
- Electric Box
- Electric Panel Box
- Cable Television Splice Box
- Traffic Sign
- Traffic Handhole
- Traffic Signal Controller
- Traffic Pedestrian Pedestal
- Water Valve (Main)
- Water Valve (Service)
- Water Meter
- Fire Hydrant
- Yard Sprinkler Head
- Drinking Fountain
- Gas Valve (Main)
- Gas Valve (Service)
- Gas Meter
- Gas Regulator
- Gas Regulator Pit
- Gas Test Station
- Gas Line Marker
- Gas Pit Vent Pipe
- Railroad Signal or Gate Post
- Property Marker
- Suvey Control Point
- Centerline Monument
- Tree (Deciduous)
- Bush (Deciduous)
- Tree (Coniferous)
- Bush (Coniferous)
- Stump
- Hedge
- Mailbox
- Signs
- Items To Be Removed
- Do Not Disturb
- Adjust to Grade

ROSEWOOD ARTS CENTER

(PROJECT No. 06-100Z)

PROJECT DESCRIPTION

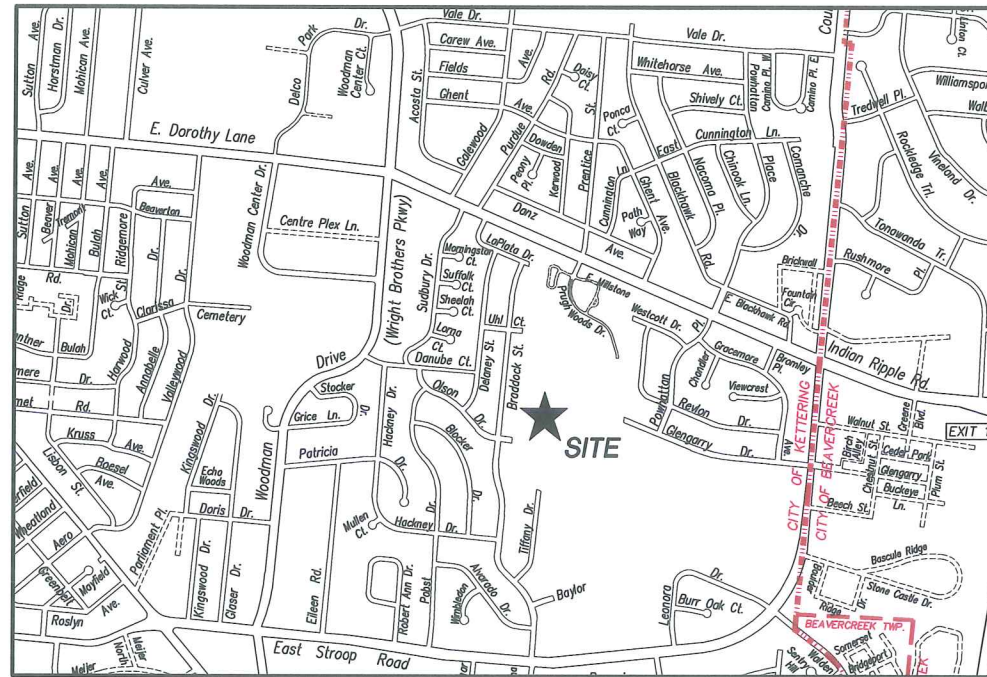
THIS PROJECT IS A PARKING LOT UPGRADE CONSISTING OF THE REMOVAL AND REPLACEMENT OF PAVEMENT, CONCRETE CURBS, SIDEWALKS, STORM SEWER, LIGHTING, AND LANDSCAPING.

CONSTRUCTION SPECIFICATIONS

ALL CONSTRUCTION, UNLESS OTHERWISE SPECIFIED, SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF KETTERING STANDARDS AND SPECIFICATIONS. THE CURRENT CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION ARE MADE A PART OF THE SPECIFICATIONS.

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES & DETAILS	2-3
EXISTING TOPOGRAPHIC BASEMAP	4
DEMOLITION PLAN	5
LOCATION PLAN	6
UTILITY & GRADING PLAN	7
STORM WATER POLLUTION PREVENTION PLAN NOTES & DETAILS	8-10
LIGHTING PLAN	11
LIGHTING NOTES	12-16
WIRING DIAGRAM	17
PHOTOMETRIC PLAN	18



VICINITY MAP

NOT TO SCALE

UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG

CALL 1-800-362-2764 (TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

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

SIGNED

[Signature]
CITY OF KETTERING
ENGINEERING DIRECTOR

1/3/22
DATE

CITY OF KETTERING STANDARD CONSTRUCTION DRAWINGS

ODOT STANDARD CONSTRUCTION DRAWINGS

ITEM No	TITLE	DWG No.	ITEM No	TITLE	DWG No.
K-608A	SIDEWALK DETAIL	8			
K-608A	ADA RAMP NOTES	9			
K-608A	ADA RAMP SCHEMATIC	10-16			
K-609	CURB AND GUTTER	23-24			
K-609	CURB AND GUTTER NOTES	25			

ENGINEER'S SEAL



PLAN PREPARED BY:

CITY OF KETTERING
3600 Shroyer Road
Kettering, OH 45429
p 937.296.2436 f 937.296.3242
www.ketteringoh.org

TERM "ENGINEER"

THE TERM "ENGINEER" IN THESE PLANS, UNLESS SPECIFIED OTHERWISE, SHALL MEAN THE CITY OF KETTERING ENGINEER, OR THE INSPECTOR ON SITE.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

ALL CONSTRUCTION, UNLESS OTHERWISE SPECIFIED, SHALL BE IN ACCORDANCE WITH THE CITY OF KETTERING STANDARDS AND SPECIFICATIONS. THE CURRENT CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION ARE MADE A PART OF THE SPECIFICATIONS. OTHER APPLICABLE SPECIFICATIONS MAY APPLY. THE MOST RESTRICTIVE SHALL APPLY, UNLESS DEEMED OTHERWISE BY THE ENGINEER. UNLESS SPECIFIED OTHERWISE, THE BID SHEET CONTAINS THE WHOLE OF THE ANTICIPATED WORK TO BE COMPLETED BY THE CONTRACTOR UNLESS SPECIFIED OTHERWISE IN THESE SPECIFICATIONS.

STANDARD DRAWINGS

THE CONTRACTOR SHALL FIRST REFERENCE THE CITY OF KETTERING STANDARD DRAWINGS, AND ONLY IN THE EVENT THAT AN ITEM IS NOT COVERED BY THE CITY STANDARDS, SHALL THEN REFERENCE THE O.D.O.T. STANDARD DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE STANDARD CONSTRUCTION DRAWINGS. THE MOST RESTRICTIVE SHALL APPLY, UNLESS DEEMED OTHERWISE BY THE ENGINEER.

AS PER PLAN DESIGNATION

BE ADVISED THAT THE ITEM DESCRIPTIONS IN THE QUOTATION PROPOSAL MUST BE READ OR INTERPRETED WITH THE GOVERNING PLAN NOTES AND THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. A CLAIM BASED UPON AN "ORDER OF PRECEDENCE" BASIS WILL BE DENIED. IN THE EVENT THAT A CONFLICT, EITHER REAL OR PERCEIVED, EXISTS BETWEEN THE ITEM DESCRIPTION AND THE GOVERNING PLAN NOTE, THE CONTRACTORS ARE TO REQUEST CLARIFICATION THROUGH THE PRE-BID PROCESS.

UTILITIES

LISTED BELOW ARE THE UTILITIES THAT MAY BE LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS AND CONTACT IF AVAILABLE:

CENTER POINT (GAS)

2345 E MAIN ST.
DANVILLE, IN 46122
CONTACT: PUBLIC PROJECT COORDINATOR
PHONE: (317) 718-3639
PUBLICPROJECT@CENTERPOINTENERGY.COM

CITY OF KETTERING PUBLIC SERVICE DEPT.

(FACILITIES)
2800 ACORN DRIVE
KETTERING, OH. 45419
CONTACT: ROB BAKER
PHONE: (937) 296-2472
ROBERT.BAKER@KETTERINGOH.ORG

AES-OHIO (ELECTRIC)

1900 DRYDEN ROAD
DAYTON, OH 45401
CONTACT: ERIC PARRIS
PHONE: (937) 238-1716
EPARRIS@TRCSOLUTIONS.COM

AT&T (TELEPHONE)

7201 FAR HILLS AVE.
DAYTON, OH 45459
CONTACT: HOWARD LAUDERMILK
PHONE: (937) 296-3588
HL1596@ATT.COM

MIAMI VALLEY LIGHTING (STREET LIGHTS)

1065 WOODMAN DRIVE
DAYTON, OH 45432
CONTACT: ROBYN LIVESAY
PHONE: (937) 259-7192
ROBYN.LIVESAY@AES.COM

SPECTRUM

3651 TURNER ROAD
DAYTON, OH. 45415
CONTACT: CHRIS BOOKSH
PHONE: (937) 425-8854
CHRISTOPHER.BOOKSH@CHARTER.COM

CITY OF KETTERING ENGR. DEPT. (STORM)

3600 SHROYER ROAD
KETTERING, OH. 45429
CONTACT: JOHN SLIEMERS
PHONE: (937) 296-2436
JOHN.SLIEMERS@KETTERINGOH.ORG

MONTGOMERY CO. ENVIRONMENTAL SERVICES

(WATER & SANITARY)
1850 SPAULDING ROAD
KETTERING, OH. 45432
CONTACT: ED SCHLAACK
PHONE: (937) 781-2632
SCHLAACK@MCOHIO.ORG

CITY OF KETTERING PARKS DEPT.

(LANDSCAPING/IRRIGATION)
3170 VALLEYWOOD DRIVE
KETTERING, OH. 45429
CONTACT: BARRY SANDERS
PHONE: (937) 296-2486
BARRY.SANDERS@KETTERINGOH.ORG

GREATER DAYTON RTA

4 S. MAIN ST., DAYTON, OH 45402
CONTACT: RICK BAILEY
PHONE: (937) 425-8358
RBAILEY@GREATERDAYTONRTA.ORG

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN DIGGING IN THE AREA OF A SUSPECTED UTILITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 TWO (2) WORKING DAYS PRIOR TO DIGGING.

PRE-CONSTRUCTION MEETING

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

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

MATERIALS AND WORKMANSHIP

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

PERMITS, FEES AND NOTICES

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

CONSTRUCTION STAKES

CONSTRUCTION LAYOUT STAKING WILL BE PERFORMED BY THE CITY. THE CITY WILL REQUIRE AT LEAST TWO DAYS NOTICE OF A NEED FOR ANY STAKING. HOWEVER, REQUESTS WILL BE ACTED UPON AS SOON AS SCHEDULING PERMITS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PRESERVATION OF ALL STAKES AND MARKS AND, IF ANY HAVE BEEN CARELESSLY OR WILLFULLY DESTROYED OR DISTURBED BY THE CONTRACTOR, THE COST OF REPLACING THEM WILL BE CHARGED AGAINST HIM.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON N.G.S. 1929 DATUM.

INSPECTION

REQUESTS FOR INSPECTION SHALL BE MADE FOUR (4) HOURS PRIOR TO REQUIREMENT BY CALLING THE CITY OF KETTERING ENGINEERING DEPARTMENT AT (937) 296-2436.

ENVIRONMENTAL PROTECTION

EXTREME CARE SHALL BE TAKEN BY THE CONTRACTOR AS TO DISTURB AS LITTLE AS POSSIBLE OF THE NATURAL ENVIRONMENT WITHIN THE WORK AREA AND RIGHT-OF-WAY. THE CONTRACTOR SHALL CONTROL EROSION AND SEDIMENTATION DURING CONSTRUCTION AS PER THE CITY OF KETTERING ORDINANCE AND KEEP HARD SURFACE PAVEMENT FREE OF MUD, DIRT, GRAVEL, AND STONE.

ESTIMATED QUANTITIES

QUANTITIES SHOWN IN THE QUANTITY SHEET ARE BASED ON ESTIMATES FROM THE PLANS. CONTRACTOR SHALL FIELD VERIFY QUANTITIES AND INCLUDE THE ACTUAL QUANTITIES WITHIN ITS LUMP SUM BID.

EXISTING STORM SEWER

THE CONTRACTOR SHALL USE CARE NOT TO DAMAGE ANY EXISTING STORM STRUCTURE (CONDUIT, HEADWALL, CATCH BASIN, MANHOLE, OR EMBANKMENT) THAT IS TO REMAIN IN PLACE. IN THE EVENT THAT A STORM STRUCTURE IS DAMAGED, IT WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR TO FIX OR REPLACE THAT STRUCTURE TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COSTS OF THAT REPAIR OR REPLACEMENT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES

WHERE THE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING UTILITY IN LINE AND GRADE BEFORE STARTING TO LAY OR CONNECT THE PROPOSED UTILITY.

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

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE INCLUDED IN THE PRICE OF THE STORM SEWER OR APPURTENANCE BEING INSTALLED AT THE BID PRICE FOR THAT ITEM.

MAINTENANCE OF SEWER FLOWS AND CHANNEL FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES SEWER FLOWS THROUGH EXISTING FACILITIES TO REMAIN IN PLACE AND THROUGH EXISTING FACILITIES TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED. ANY ADDITIONAL COST INVOLVED IN MAINTAINING THESE FLOWS BY PUMPING OR BY ANY OTHER MEANS APPROVED BY THE ENGINEER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RESPECTIVE ITEMS.

REMOVAL OF EXISTING PIPE

THE REMOVAL OF ALL EXISTING PIPE DRAINS WITHIN THE LIMITS OF THE PROPOSED EXCAVATION ITEMS SHALL BE INCLUDED.

SUBBASE FOR STORM CONDUIT

ALL STORM SEWER BEDDING SHALL HAVE AN APPROVED SAND OR GRAVEL BEDDING, PER CITY OF KETTERING STANDARDS. THE EXCAVATION, SUBBASE PREPARATION AND GRANULAR BACKFILL SHALL BE INCLUDED.

STORM SEWER CONDUIT

ALL STORM SEWER CONDUIT ON THIS PROJECT SHALL BE AS NOTED IN THE PLANS AND BID QUANTITIES. VANE GRATES ARE TO BE PLACED ON STREET CATCH BASINS. DM-1.1 MASONRY COLLARS SHALL BE INSTALLED AT ALL LOCATIONS WHERE PROPOSED CONDUIT IS TO BE CONNECTED TO EXISTING CONDUIT. COST FOR DM-1.1 MASONRY COLLARS AND CONCRETE CORING, CONCRETE CRADLES (INSTALLED PER THE ENGINEER'S DIRECTION), AND ALL LABOR, MATERIALS (INCLUDING BACKFILL MATERIAL), AND EQUIPMENT NECESSARY TO INSTALL STORM SEWER CONDUIT, CATCH BASINS, MANHOLES, AND YARD DRAINS SHALL BE INCLUDED IN THE LUMP SUM BID.

EXISTING CASTINGS

ALL EXISTING CASTINGS FROM MANHOLES, CATCH BASINS, ETC. WHICH WILL NOT BE REUSED SHALL BE REMOVED BY CONTRACTOR.

OSHA

IT IS A CONDITION OF THIS CONTRACT, AND SHALL BE MADE A CONDITION OF EACH SUBCONTRACT ENTERED INTO PURSUANT TO THIS CONTRACT, THAT THE CONTRACTOR AND ANY SUBCONTRACTOR SHALL NOT REQUIRE ANY LABORER OR MECHANIC EMPLOYED IN THE PERFORMANCE OF THE CONTRACT TO WORK IN SURROUNDING OR UNDER WORKING CONDITIONS WHICH ARE UNSANITARY, HAZARDOUS, OR DANGEROUS TO HIS/HER HEALTH OR SAFETY, AS DETERMINED UNDER CONSTRUCTION SAFETY AND HEALTH STANDARD AND REGULATIONS (TITLE 29, CODE OF FEDERAL REGULATIONS, PART 1926, FORMERLY PART 1518 AS REVISED FROM TIME TO TIME) THE CONTRACTOR SHALL CONSTRUCT OR ERECT ALL SAFETY DEVICES OR APPURTENANCES, REQUIRED BY FEDERAL OR STATE LAWS FOR CONTRACTOR'S EMPLOYEE SAFETY PRIOR TO THE OWNER'S PERSONNEL PERFORMING REQUIRED SURVEY WORK, INSPECTION OR TESTING IN AN AFFECTED AREA.

WORK HOURS

ALLOWED WORK HOURS ARE FROM SUNRISE TO SUNSET, EXCLUDING SUNDAYS OR KETTERING HOLIDAYS. A SPECIAL PERMIT IS REQUIRED TO WORK EXTENDED HOURS.

PROGRESS OF WORK

ONCE COMMENCED, WORK SHALL CONTINUE STEADILY THROUGH COMPLETION.

ITEM 201 - CLEARING AND GRUBBING

THE REMOVAL OF ANY BRUSH OR TREES 12" AND LESS IN DIAMETER REQUIRED TO CONSTRUCT THIS PROJECT SHALL BE INCLUDED. THE CONTRACTOR IS ADVISED THAT SIZES OF TREES NOTED ON PLANS IS THE BASIS FOR THIS PAY ITEM. AN EFFORT SHOULD BE MADE TO SAVE TREES/BRUSH WHEN POSSIBLE. IF THERE IS A "CLOSE CALL" THE FINAL DECISION SHALL BE BY THE ENGINEER.

ITEM 202 - CURB AND GUTTER REMOVED

EXISTING CURB IS BOTH "VERTICAL CURB" AND "CURB & GUTTER". PAYMENT FOR REMOVAL OF ASPHALT CURB SHALL ALSO BE INCLUDED.

ITEM 203A - EXCAVATION AND EMBANKMENT

THE QUANTITIES FOR EXCAVATION AND EMBANKMENT SHALL INCLUDE THE REMOVAL OF EXISTING TOPSOIL WITHIN THE PROPOSED CONSTRUCTION LIMITS.

ITEM 204 SUBGRADE COMPACTION

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL INCLUDE "PROOF ROLLING" WITH A LOADED TANDEM DUMP TRUCK AS DIRECTED BY THE CITY UNTIL NO DEFLECTION OR TIRE INDENTATION IN SUBGRADE IS PRESENT.

ALL LABOR, MATERIALS, AND EQUIPMENT SHALL BE INCLUDED.

ITEM 304 AGGREGATE BASE

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 304 AGGREGATE BASE EXCEPT AS HEREIN MODIFIED.

THIS ITEM SHALL ALSO INCLUDE SATURATING THE AGGREGATE BASE WITH WATER DURING PLACEMENT OF EACH LIFT PRIOR TO COMPACTION.

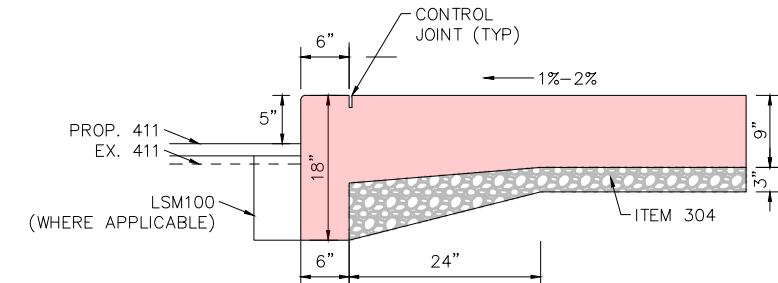
ALL LABOR, MATERIALS, AND EQUIPMENT SHALL BE INCLUDED.

ITEM 441 - ASPHALT CONCRETE, AS PER PLAN

ALL LABOR, MATERIALS, AND EQUIPMENT TO SAWCUT, AND EDGE SEALING SHALL BE INCLUDED.

ITEM 452 - CONCRETE PAVEMENT, 9" AS PER PLAN

SUBGRADE COMPACTION, AND LSM 100 TO 1.5" BELOW PROPOSED ASPHALT SURFACE SHALL BE INCLUDED.



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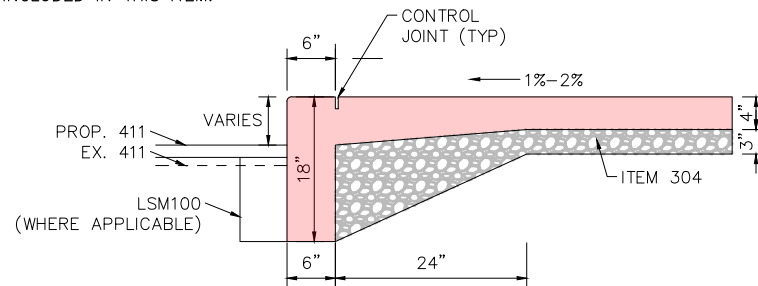
ROSEWOOD ARTS CENTER
GENERAL NOTES & DETAILS

CITY OF KETTERING
3600 Shroyer Road
Kettering, OH 45429
p. 937.296.2436 f. 937.296.3242
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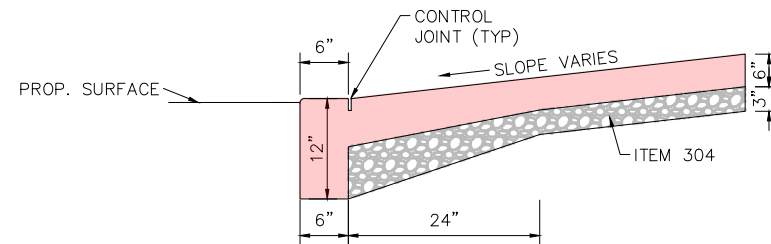
ITEM 608A - 4" CONCRETE SIDEWALK WITH INTEGRAL CURB, AS PER PLAN

SUBGRADE COMPACTION, AND LSM 100 TO 1.5" BELOW PROPOSED ASPHALT SURFACE SHALL BE INCLUDED IN THIS ITEM.



ITEM 608A - 6" CONCRETE CURB RAMP WITH INTEGRAL CURB, AS PER PLAN

SUBGRADE COMPACTION, AND CURB RAMP SHALL BE INCLUDED IN THIS ITEM.



CONCRETE EXPANSION JOINT MATERIAL

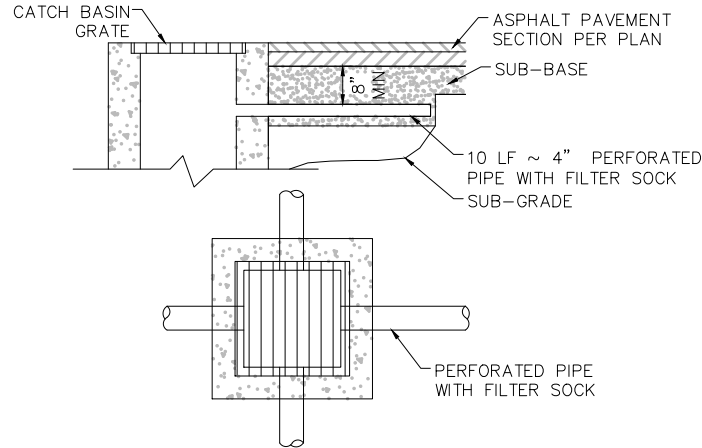
FOR FLATWORK AND CURBING, THE CONCRETE EXPANSION JOINT MATERIAL TO BE USED SHALL BE 1/2" RUBBER EXPANSION JOINT MATERIAL. THE COST OF EXPANSION JOINT MATERIAL AND INSTALLATION IS INCIDENTAL TO THE WORK.

CONCRETE CURING

THE CURING COMPOUND IS TO BE CLEAR CURE AND SEAL.

ITEM 611 PIPE, CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, AS PER PLAN

PIPE CONNECTIONS, SHORT EXTENSIONS AND REMOVAL OF PIPE AND CONCRETE COLLARS ARE INCIDENTAL TO THIS WORK. ALL PROPOSED CATCH BASINS SHALL HAVE FINGER DRAINS.



ITEM 644 - PAVEMENT STRIPING, AS PER PLAN

TEMPORARY PAINT STRIPING SHALL BE INCLUDED ALONG WITH FINAL THERMOPLASTIC STRIPING IN LUMP SUM PRICE.

ITEM 653 - TOPSOIL FURNISHED AND PLACED

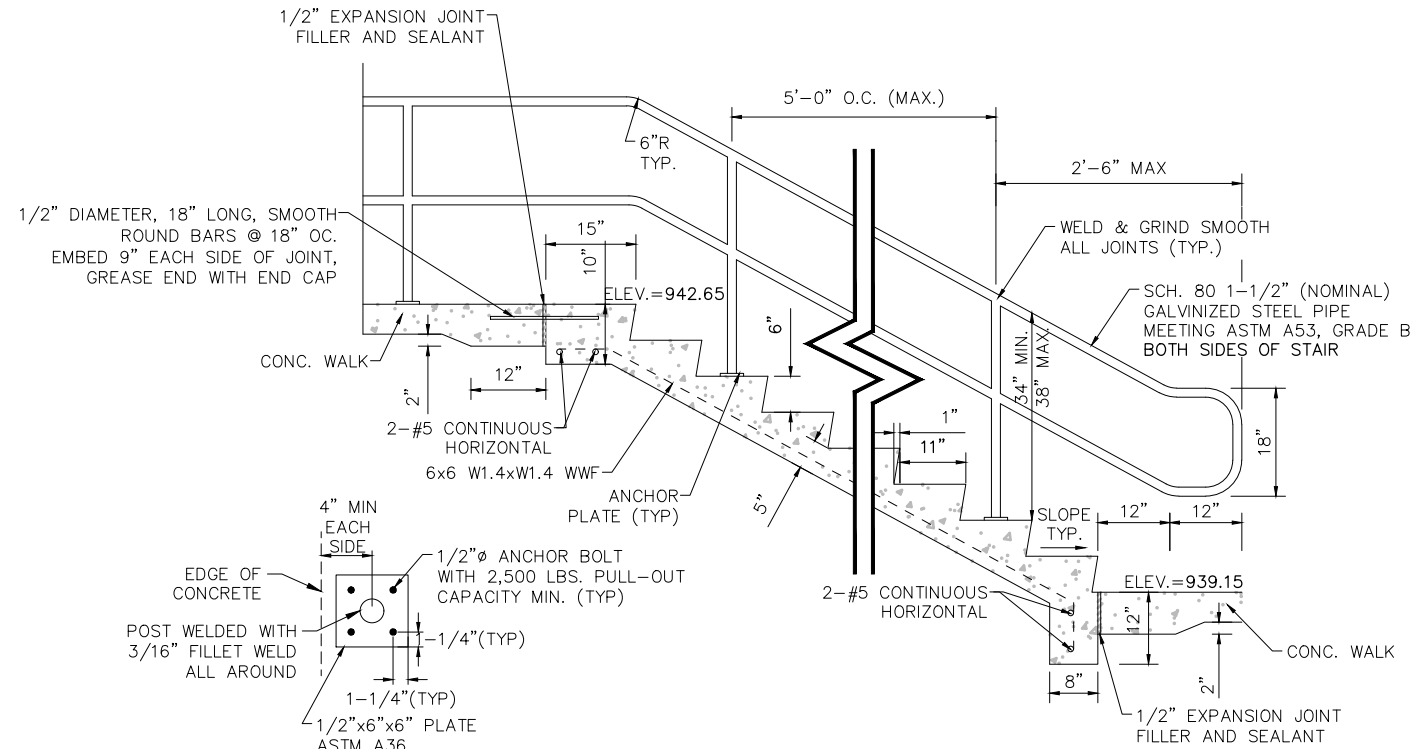
CONTRACTOR SHALL PREPARE TOPSOIL PLACED SEED BED BY ROLLING OR SPREADING TOPSOIL WITH A TRACKED VEHICLE TO PRODUCE A FIRM SURFACE THAT WILL NOT RUT OR SINK WITH LAWN MAINTENANCE EQUIPMENT.

ITEM 659 - SEEDING AND MULCHING

THE SEED MIXTURE SHALL BE KETTERING TYPE 1 MIX AND APPROVED BY THE ENGINEER BEFORE PLACEMENT. COMMERCIAL FERTILIZER (12-12-12) SHALL BE USED AND APPLIED AT THE RATE OF 20 LBS PER 1000 SQUARE FEET, AS PER SPECIFICATIONS.

ITEM 608A - CONCRETE STEPS, TYPE A, AS PER PLAN

SAWCUTTING, REMOVAL OF EXISTING CONCRETE STEPS AND RAILING, PROPOSED RAILING, AND SUBGRADE COMPACTION SHALL BE INCLUDED IN THIS ITEM. CONTRACTOR SHALL SUBMIT FINAL RAILING DETAILS TO ENGINEER FOR APPROVAL.



NOTE:
CONTRACTOR SHALL INSTALL HANDRAIL PER DETAIL AND MODIFY OVERALL LENGTH AS NECESSARY PER NUMBER OF STAIR RISERS SHOWN ON PLAN.

CALCULATED	MLZ	CHECKED	SEB
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**ROSEWOOD ARTS CENTER
GENERAL NOTES & DETAILS**

CITY OF KETTERING
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Kettering, OH 45429
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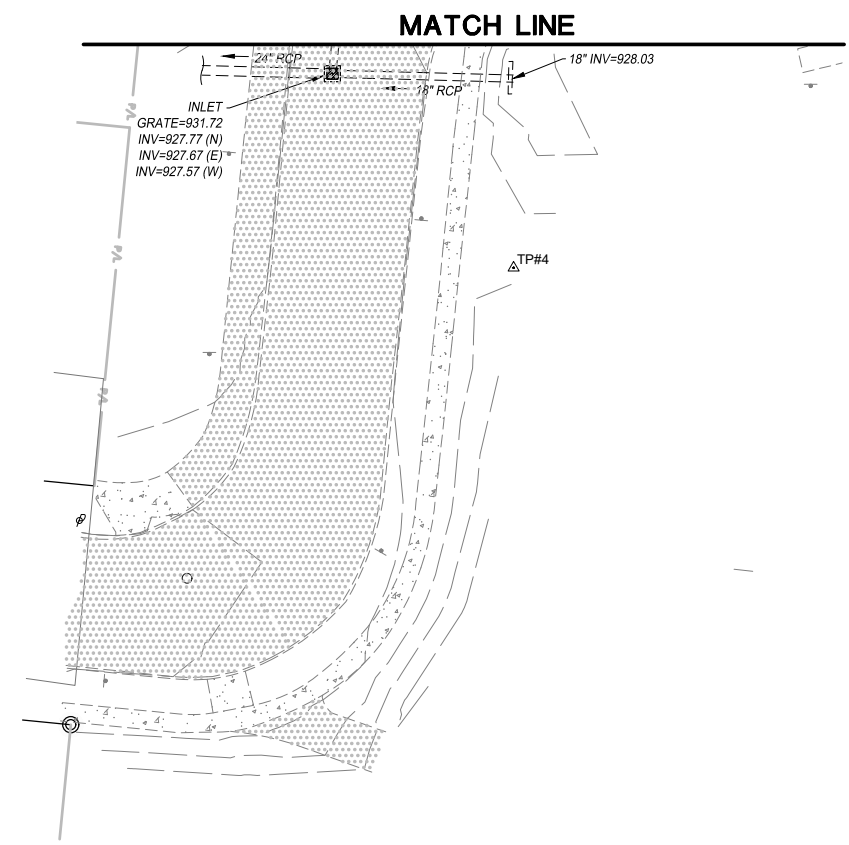
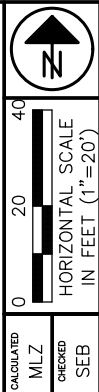


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LAYOUT CONTROL				
NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
TP#1	621481.28	1513370.85	937.82	5/8" IP
TP#2	621547.49	1513224.67	935.67	MAG
TP#3	621647.83	1513306.64	940.59	5/8" IP



MATCH LINE

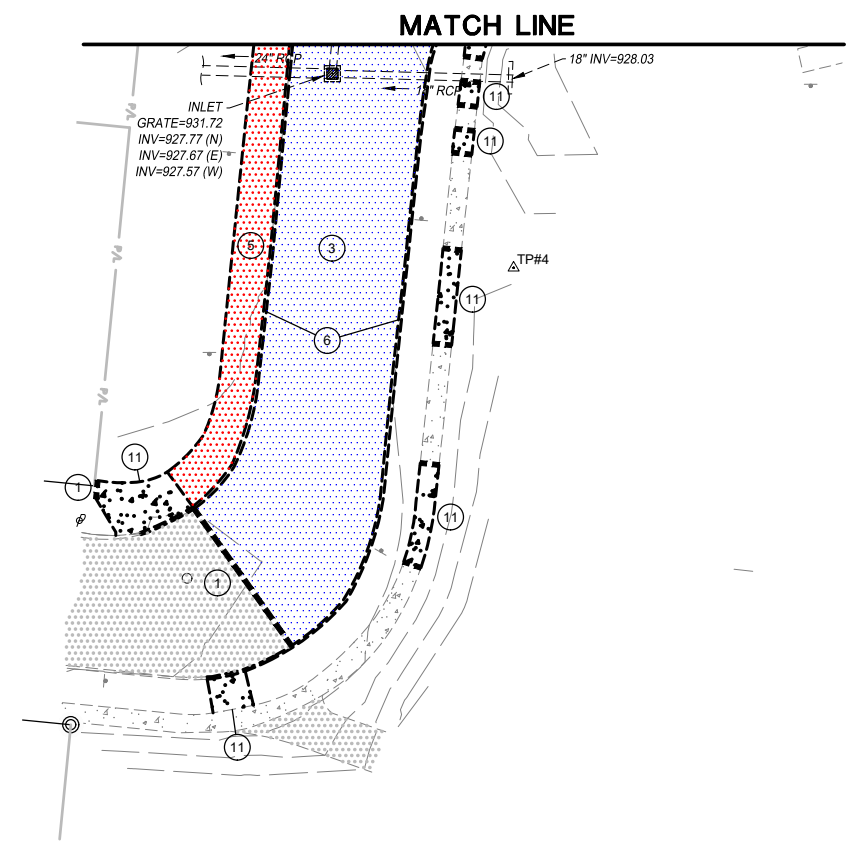
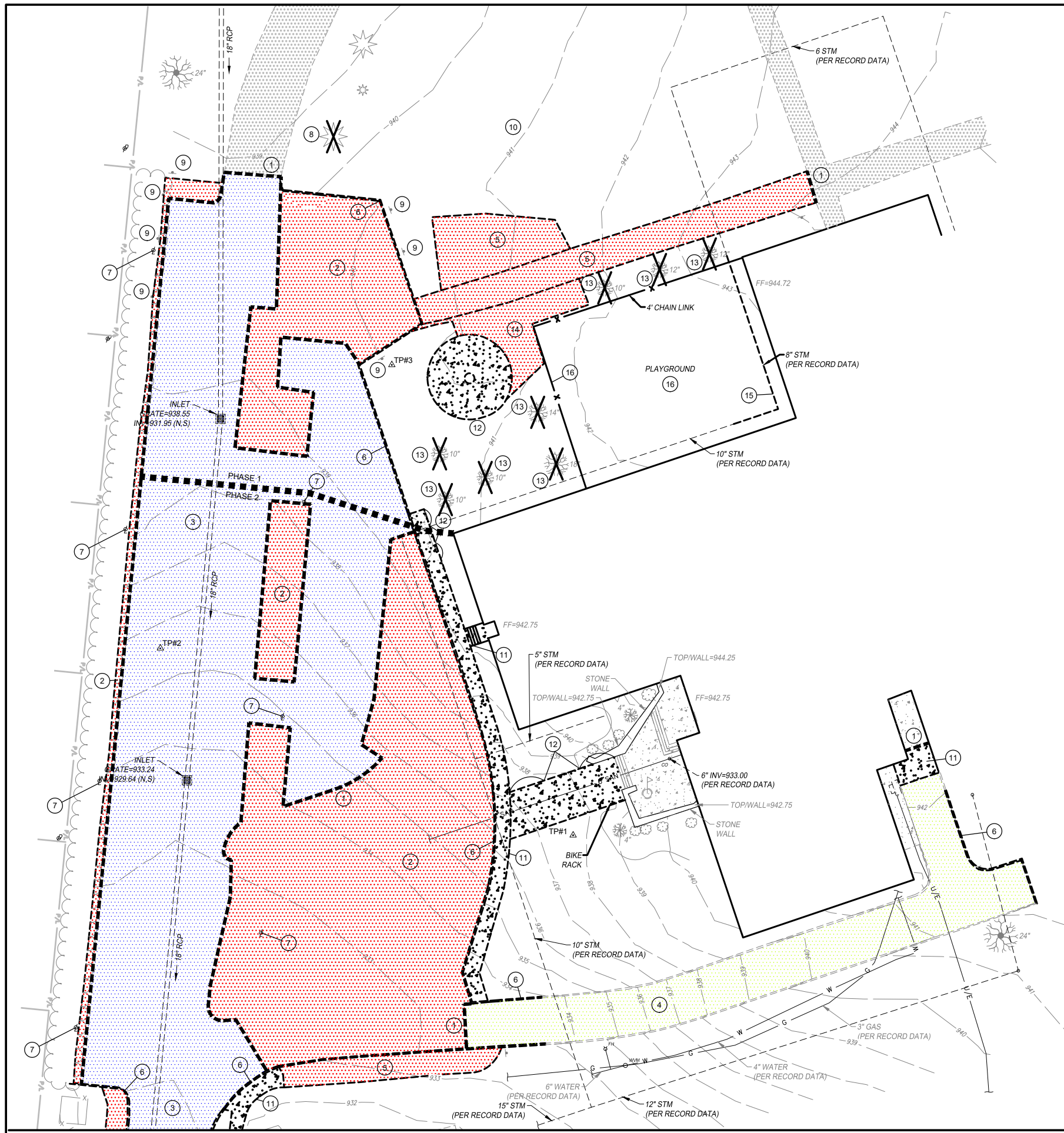
06-100Z

CITY OF KETTERING
 3600 Shroyer Road
 Kettering, OH 45429
 p 937.296.2436 f 937.296.3242
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4
 18

ROSEWOOD ARTS CENTER
 EXISTING TOPOGRAPHIC BASEMAP

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- DEMO KEY NOTES**
1. SAWCUT
 2. REMOVE ASPHALT
 3. MILL 1.5" ASPHALT
 4. MILL 2.5" ASPHALT
 5. REMOVE ASPHALT WALK
 6. REMOVE CURB
 7. REMOVE LIGHT POLE
 8. REMOVE TREE
 9. REMOVE SIGN
 10. REMOVE AND RELOCATE FRISBEE GOLF BASKET (PER KETTERING PARKS & REC)
 11. REMOVE CONCRETE AND STEPS
- TO BE REMOVED AS PART OF SEPARATE CONTRACT**
12. REMOVE CONCRETE WALK
 13. REMOVE TREE
 14. REMOVE ASPHALT WALK
 15. REMOVE STORM
 16. REMOVE PLAYGROUND AREA AND FENCE



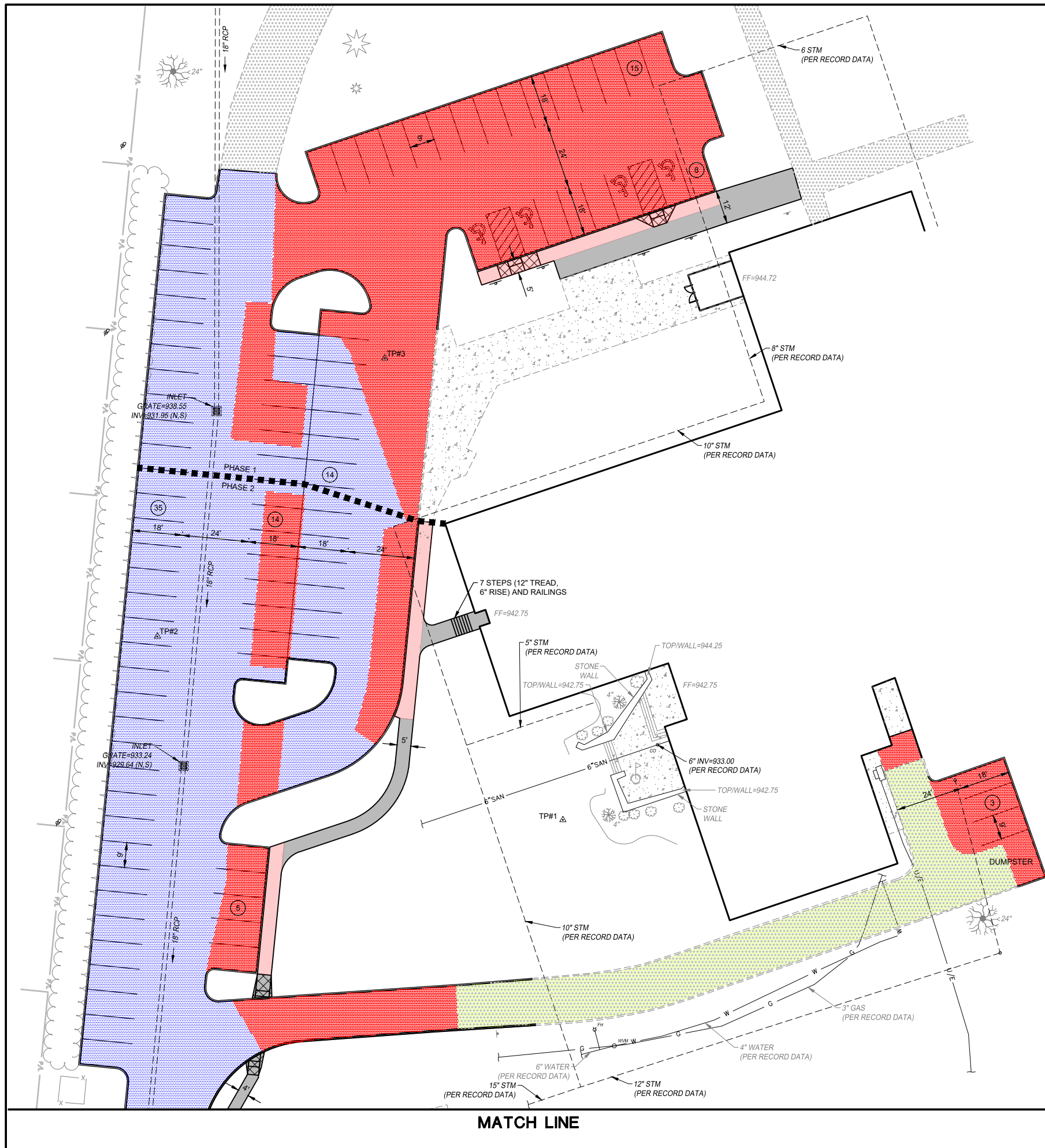
**ROSEWOOD ARTS CENTER
DEMOLITION PLAN**

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3600 Shroyer Road
Kettering, OH 45429
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5
18

06-100Z



SITE INFORMATION

ZONING = R-1
PATTERN DISTRICT = NEIGHBORHOOD

PROPOSED PARKING = 94 SPACES
STANDARD = 90 SPACES
HANDICAP = 4 SPACES

PARKING LOT AREA = 36,662 SF
PARKING LOT LANDSCAPING = 3,185 SF (8.7%)

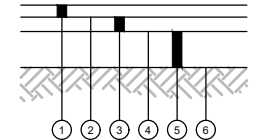
LANDSCAPING DESIGN TO BE PROVIDED BY
KETTERING PARKS & REC DEPARTMENT

NOTES

- HANDICAP PARKING SIGNS AND POSTS WILL BE PROVIDED BY CITY OF KETTERING SIGN SHOP.
- PHASE 1 PARKING LOT CONSTRUCTION SHALL ALSO INCLUDE ANY NECESSARY CONDUITS FOR LIGHTING IN PHASE 2. TEMPORARY STRIPING SHALL BE CONSTRUCTED ON INTERMEDIATE SURFACE. SURFACE COURSE AND FINAL STRIPING SHALL NOT BE CONSTRUCTED UNTIL PHASE 2 IS COMPLETE.

PAVEMENT LEGEND

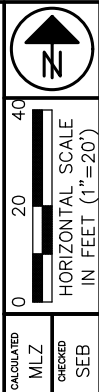
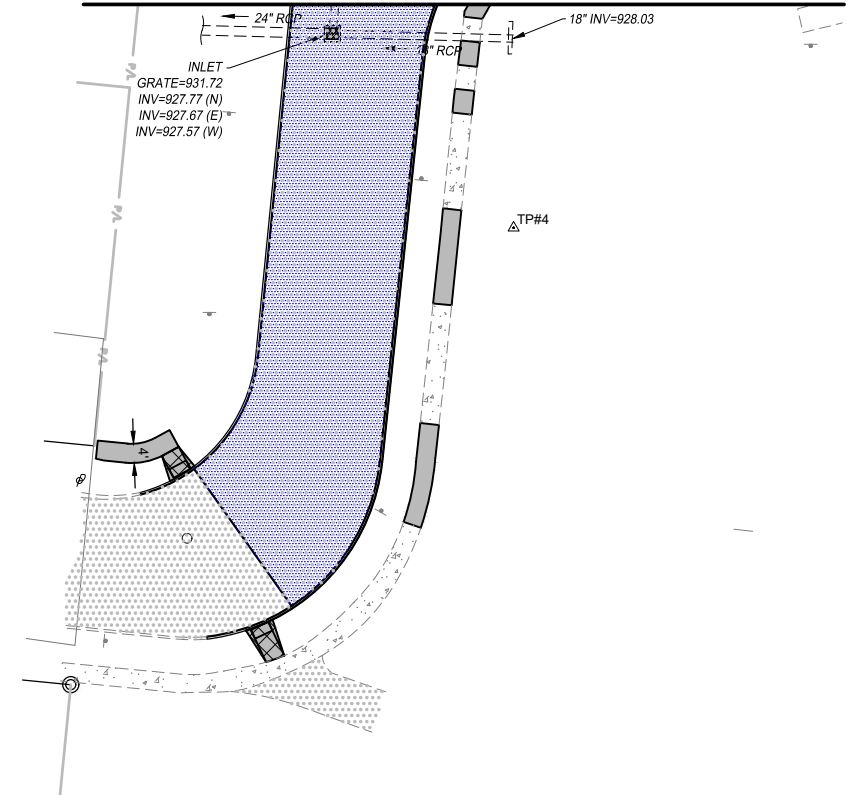
	PROP. CONC. RAMP (6")
	PROP. INTEGRAL CURB & WALK (6")
	PROP. CONC. WALK (4")
	PROP. INTEGRAL CURB & WALK (4")
	PROP 1.5" ASPHALT OVERLAY
	PROP 2.5" ASPHALT OVERLAY
	STANDARD ASPHALT PAVEMENT



1	1 1/2" ODOT ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2	ODOT ITEM 407 TACK COAT (0.1 GAL/SY)
3	2 1/2" ODOT ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4	ODOT ITEM 408 PRIME COAT, APPLIED AT 0.40 GAL/SY
5	8" ODOT ITEM 304 AGGREGATE BASE
6	SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204

STANDARD ASPHALT PAVEMENT DETAIL
N.T.S.

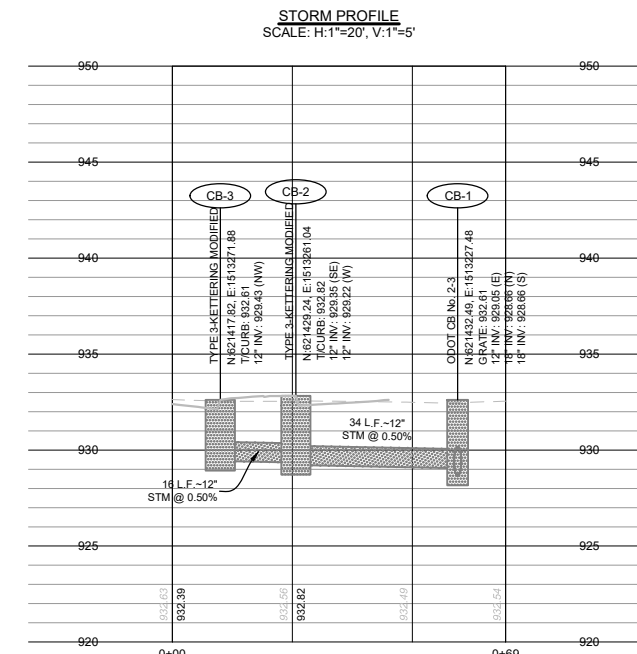
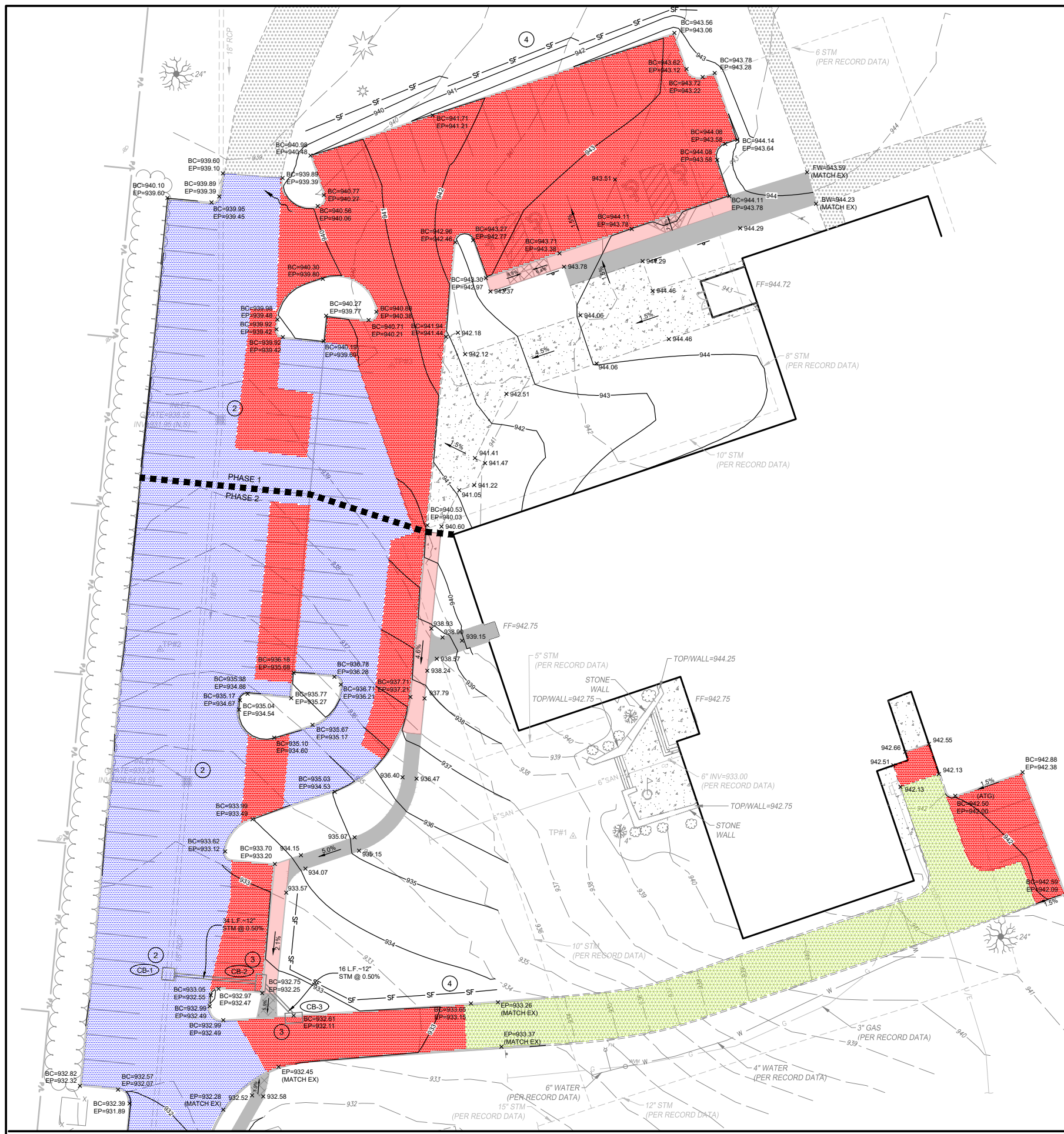
MATCH LINE



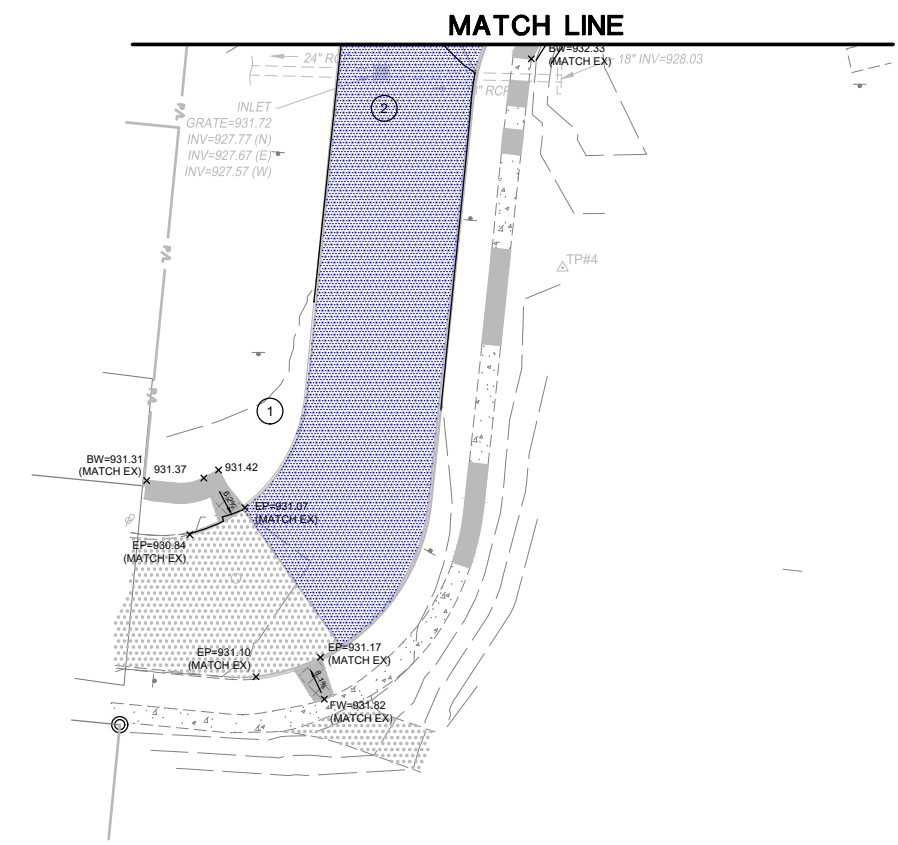
**ROSEWOOD ARTS CENTER
LOCATION PLAN**

CITY OF KETTERING
3600 Shroyer Road
Kettering, OH 45429
p. 937.296.2436 f. 937.296.3242
www.ketteringoh.org





- GRADING & SWPP LEGEND**
- BC = BACK OF CURB
 - EP = EDGE OF PAVEMENT
 - BW = BACK OF WALK
 - FW = FACE OF WALK
 - SF = SILT FENCE
- STORM WATER POLLUTION PLAN KEY NOTES**
1. CONCRETE WASHOUT
 2. DANDY BAG
 3. DANDY CURB
 4. SILT FENCE



0 20 40
 HORIZONTAL SCALE
 IN FEET (1"=20')

CALCULATED
 MLZ
 CHECKED
 SEB

**ROSEWOOD ARTS CENTER
 UTILITY & GRADING PLAN**

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PROJECT DESCRIPTION

THIS PROJECT IS A PARKING LOT UPGRADE CONSISTING OF THE REMOVAL AND REPLACEMENT OF PAVEMENT, CONCRETE CURBS, SIDEWALKS, STORM SEWER, LIGHTING, AND LANDSCAPING.

PROJECT DATA

TOTAL SITE AREA: ~7 ACRES
 TOTAL DISTURBED AREA: 1.53 ACRES (0.58 AC. MILL & OVERLAY, 0.95 ACRES OF ACTUAL DISTURBED AREA)

EXISTING IMPERVIOUS AREA: 1.06 ACRES
 PROPOSED IMPERVIOUS AREA: 1.02 ACRES
 PERCENTAGE OF CREATED IMPERVIOUS AREA: -2%

RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION: C=0.73
 RUNOFF COEFFICIENT FOR POST-CONSTRUCTION*: C=0.72

PRIOR AND CURRENT LAND USE: ROSEWOOD ARTS CENTER

RECEIVING WATER: LITTLE BEAVER CREEK

ESTIMATED CONSTRUCTION DATES: THRU 2023

SOIL TYPES, DESCRIPTIONS: MIAMIAN-URBAN LAND COMPLEX (MoB), RUSSELL SILT LOAM (RuB), RUSSELL-MIAMIAN SILT LOAMS (RvC2)

GENERAL NOTES

THE CONTRACTOR IS HEREBY ADVISED THAT STRICTER POLLUTION CONTROL STANDARDS AND ENFORCEMENT HAVE BEEN IMPOSED BY THE OHIO EPA SINCE MARCH 10, 2003 AND WITH A REVISION IN APRIL 2021. ALSO, MANY PRIVATE CITIZEN ENVIRONMENTAL GROUPS, WHO HAVE BEEN KNOWN TO FILE CIVIL LEGAL ACTIONS, ARE PRESENT IN THE AREA AND OBSERVE ALL CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS OF THE REQUIREMENTS AND RESPONSIBILITIES OF THE SWPPP AND SHALL DOCUMENT ALL SUCH NOTIFICATIONS AND/OR DISCUSSIONS. **AN NOI IS NOT REQUIRED SINCE DISTURBED AREA IS LESS THAN ONE ACRE.**

THE CONTRACTOR WILL BE REQUIRED TO PARTICIPATE IN SEDIMENT AND EROSION CONTROL INSPECTIONS ON A WEEKLY BASIS AND SIGN AN APPROVED INSPECTION SHEET THAT SHALL BE KEPT ON FILE AT THE JOB SITE.

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE ODNR "RAINWATER AND LAND DEVELOPMENT" HANDBOOK SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THIS PROJECT WILL INVOLVE SEVERAL CONSTRUCTION PHASES AND SEQUENCING THROUGHOUT ITS LIFETIME. IT IS VERY IMPORTANT THAT ALL TEMPORARY SEDIMENT AND EROSION CONTROL (S&EC) FIELD METHODS ALONG WITH THIS PLAN, ARE UPDATED TO REFLECT THE ACTUAL FIELD CONDITIONS, CURRENT WEATHER CONDITIONS AND SITE GRADE CHANGES. THE CONTRACTOR, OWNER, ENGINEER OR THE OHIO EPA CAN AND WILL MODIFY THIS PLAN AS NECESSARY.

THE CONTRACTOR WILL VOLUNTARILY SELF REPORT ANY POTENTIAL VIOLATIONS OF THE OEPA NPDES PERMIT TO THE OWNER, ENGINEER AND THE OEPA.

THE CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED OF ACCORDING TO OHIO EPA REQUIREMENTS.

THE CONTRACTOR WILL BE REQUIRED TO BUILD SEDIMENT BASINS OR SEDIMENT TRAPS OR USE EQUAL METHODS TO DETAIN AND CLEAN WATER TO ACCEPTABLE EPA STANDARDS BEFORE RELEASING THE WATER BACK INTO THE STREAM.

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT-LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON-SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

NO SOIL, ROCK, DEBRIS OR OTHER MATERIAL SHALL BE DUMPED OR PLACED IN ANY AREAS NOT ADEQUATELY PROTECTED BY EROSION CONTROL INSTALLATIONS.

IT IS PREFERRED TO USE PERMANENT EROSION CONTROL ITEMS AS SHOWN IN THE PLANS TO CONTROL CONSTRUCTION POLLUTION WHEN POSSIBLE. OTHERWISE, THE TEMPORARY POLLUTION PREVENTION ITEMS ARE TO BE USED.

MOST TEMPORARY S&EC METHODS, INCLUDING BUT NOT LIMITED TO, SILT FENCE AND DITCH CHECKS MAY ALL HAVE TO BE PERIODICALLY REMOVED AND REPLACED, OR MOVED FROM THE EXISTING ROAD DITCH OR STRIPPED AREAS AS WORK PROGRESSES. ANY CHANGES SHALL BE NOTED IN THE PLAN BY RED LINE AND DATED ON A CORRECTIVE ACTION LOG.

ALL TEMPORARY SEDIMENT CONTROLS AND STORM WATER QUALITY METHODS WILL BE BUILT/INSTALLED AS THE PROJECT PROGRESSES TO ELIMINATE UNNECESSARY DISTURBANCE AND REDUNDANCY. ALL TEMPORARY CONTROLS SHALL BE IN PLACE AND FUNCTIONING PROPERLY WHEN THREATENING WEATHER IS IMMINENT.

"TEMPORARY STABILIZATION" MEANS THE ESTABLISHMENT OF TEMPORARY VEGETATION, MULCHING, GEOTEXTILES, SOD, PRESERVATION OF EXISTING VEGETATION AND OTHER TECHNIQUES CAPABLE OF QUICKLY ESTABLISHING COVER OVER DISTURBED AREAS TO PROVIDE EROSION CONTROL BETWEEN CONSTRUCTION OPERATIONS.

"PERMANENT STABILIZATION" MEANS THE ESTABLISHMENT OF PERMANENT VEGETATION, DECORATIVE LANDSCAPE MULCHING, MATTING, SOD, RIP RAP AND LANDSCAPING TECHNIQUES TO PROVIDE PERMANENT EROSION CONTROL ON AREAS WHERE CONSTRUCTION OPERATIONS ARE COMPLETE OR WHERE NO FURTHER DISTURBANCE IS EXPECTED FOR AT LEAST A YEAR.

OFF-SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

OPERATION SEQUENCE FOR TEMPORARY AND PERMANENT BMP INSTALLATION

TO COMPLETE THE EXCAVATION AND CONSTRUCTION OF THE PROPOSED JOB IMPROVEMENTS, COORDINATION OF THE CONTRACTOR'S WORK CREWS WILL BE REQUIRED. THE EXISTING DITCHES WILL PERFORM TEMPORARY SEDIMENT CONTROL AND STORAGE DURING THE PROPOSED CONSTRUCTION. WORK WILL GENERALLY PROCEED FROM DOWNSTREAM TO UPSTREAM IN THESE WORK AREAS. THE GENERAL CONSTRUCTION SEQUENCE IS AS FOLLOWS:

- A) INSTALL EROSION CONTROL ITEMS.
- B) STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL THROUGH THE INCREMENTAL WORK AREA.
- C) INSTALL TEMPORARY DITCH CHECKS IN DOWNSTREAM END OF EXISTING DITCH WITHIN 24 HOURS FOLLOWING THE STRIPPING OPERATION.
- D) IF U/G PIPE IS CALLED FOR IN THIS PORTION OF WORK AREA, PIPE CREW WILL INSTALL PIPE AS WELL AS MANHOLES.
- E) AS PIPE INSTALLATION PROGRESSES, REPAIR OF THE ROADWAY WILL PROCEED BEHIND IT.
- F) ANY DISTURBED OR EXPOSED AREAS SHALL BE STABILIZED PER OEPA TEMPORARY AND PERMANENT STABILIZATION REGULATIONS INCLUDING:
 - 1. SEEDING
 - 2. DITCH MATTING
 - 3. INLET PROTECTION
 - 4. MULCHING
 - 5. WATERING

STABILIZATION PRACTICES

PERMANENT SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000004. (SEE TABLE 1)

TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING AND MULCHING STABILIZATION SHALL BE PROVIDED PER OEPA GUIDELINES AS SET FORTH IN PART II.B OF OHIO EPA PERMIT NO.: OHC000004. (SEE TABLE 2)

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITH 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

ALL TEMPORARY EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE REMOVED WHEN 70% VEGETATION HAS BEEN REACHED.

SEEDING & MULCHING

MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 14 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.

MULCH SHALL CONSIST OF UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 3 TONS/AC. OR 138 LB./1000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000-SQ.-FT. SECTIONS AND PLACE THREE 45-LB. BALES OF STRAW IN EACH SECTION.

MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

- 1) MECHANICAL-USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 IN.
- 2) MULCH NETTINGS-USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
- 3) ASPHALT EMULSION-FOR STRAW MULCH, APPLY AT THE RATE OF 160 GAL./AC. (0.1 GAL./SY) INTO THE MULCH AS IT IS BEING APPLIED OR AS RECOMMENDED BY THE MANUFACTURE.
- 4) SYNTHETIC BINDERS-FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK

WINTER SEEDING & MULCHING

WINTER SEED AND MULCH IS REQUIRED FOR EARTH DISTURBANCE ACTIVITY OPERATIONS OCCURRING BETWEEN OCTOBER 15 AND MARCH 15 AND CAN ONLY BE INSTALLED DURING THAT TIME. ALL STRAW MULCH INCLUDED IN THIS WORK MUST BE EITHER CRIMPED IN PLACE OR INSTALLED WITH A BIODEGRADABLE BONDED FIBER MATRIX. CRIMPED MULCH IS REQUIRED TO BE ANCHORED INTO THE SOIL SURFACE WITH A MECHANICAL CRIMPING IMPLEMENT OR OTHER SUITABLE IMPLEMENT APPROVED BY THE ENGINEER. THE MULCH INCLUDED IN THIS WORK MUST BE CAPABLE OF PROVIDING SUFFICIENT DURABLE PROTECTIVE COVER THAT PROVIDES OEPA NPDES PERMIT COMPLIANT EROSION CONTROL FOR A MINIMUM OF 6 MONTHS. THE USE OF OTHER SEED AND/OR MULCH MATERIALS IN THIS TIME PERIOD REQUIRES SPECIFIC APPROVAL BY THE ENGINEER. THE USE OF WINTER SEEDING AND MULCHING IS NOT AN ACCEPTABLE PRACTICE FOR PROTECTING THE SUBGRADE SURFACE.

STOCKPILE

SILT FENCING SHALL BE INSTALLED AROUND TEMPORARY SPOIL STOCKPILES. THESE STOCKPILES SHALL BE STRAW MULCHED AND/OR TEMPORARILY SEEDED WITHIN 7 WORKING DAYS IF LEFT DORMANT FOR 14 DAYS OR LONGER.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND SILT FENCE WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D	
PERMANENT SEEDING			●	●	●	*	*	●	●				*
DORMANT SEEDING	●	●	●							●	●	●	**
TEMPORARY SEEDING			●	●	●	*	*	●	●				
SODDING			**	**	**	**	**	**	**	**	**	**	
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●	

* - IRRIGATION NEEDED
 ** - IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

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MLZ
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**ROSEWOOD ARTS CENTER
STORM WATER POLLUTION PREVENTION PLAN NOTES & DETAILS**

CITY OF KETTERING
 3600 Shroyer Road
 Kettering, OH 45429
 p. 937.296.2436 f. 937.296.3242
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INSPECTIONS

ALL BMPS ON THIS SITE SHALL BE INSPECTED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.5 INCHES PER 24 HOUR PERIOD. A RECORD OF THESE INSPECTIONS SHALL BE MAINTAINED IN THE CONSTRUCTION OFFICE WITH THE SWPPP FOR PUBLIC VIEWING. ANY VIOLATIONS WILL BE REPORTED THROUGH THE PROJECT PERSONNEL. A RAIN GAUGE WILL BE LOCATED WITHIN THE PROJECT LIMITS.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:

1. THE INSPECTION DATE;
2. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
3. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF ONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
4. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
5. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
6. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
7. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
8. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
9. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

THE PERMITTEE SHALL MAINTAIN A RECORD OF ALL INSPECTIONS FOR A PERIOD OF 3 YEARS FOLLOWING THE SUBMITTAL OF THE NOTICE OF TERMINATION.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE ALL EROSION CONTROL INSTALLATIONS AS NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL REPAIRS TO BMPS SHALL BE MADE WITHIN 3 DAYS (OR SOONER IF POSSIBLE) OF NOTIFICATION OF DEFICIENCIES. IF THE CORRECTIONS ARE NOT MADE WITHIN THE 3 DAY PERIOD, LIQUIDATED DAMAGES MAY BE ASSESSED AS PER THE ODOT CMS SECTION 108.27.

ONGOING INSPECTION OF INSTALLATIONS WILL BE PERFORMED BY THE CONTRACTOR OR DESIGNATED REPRESENTATIVE.

ANY TRAPPED SEDIMENT OR DEBRIS REMOVED DURING CLEANING OF OR REMOVAL OF BMP INSTALLATIONS SHALL BE PLACED IN AREAS NOT SUBJECT TO EROSION AND PERMANENTLY STABILIZED.

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
4. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. SPILLS OF 25 OR MORE GALLONS OF PETROLEUM WASTE MUST BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE SPILL.
5. SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS MUST BE TREATED/DISPOSED AT AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDf).
6. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
7. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS – ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS – FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS – ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

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 LIFE.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

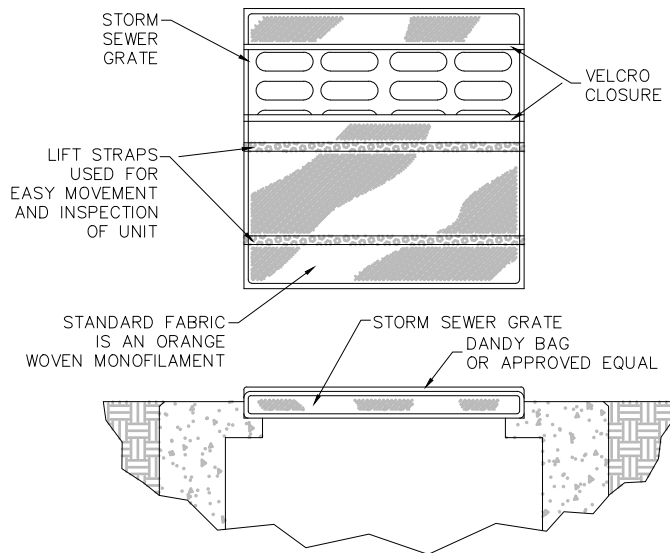
1. **VEGETATIVE COVER AND/MULCH** – APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE 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 MANUFACTURERS' INSTRUCTIONS.

CALCULATED	CHECKED
MLZ	SEB

**ROSEWOOD ARTS CENTER
STORM WATER POLLUTION PREVENTION PLAN NOTES & DETAILS**

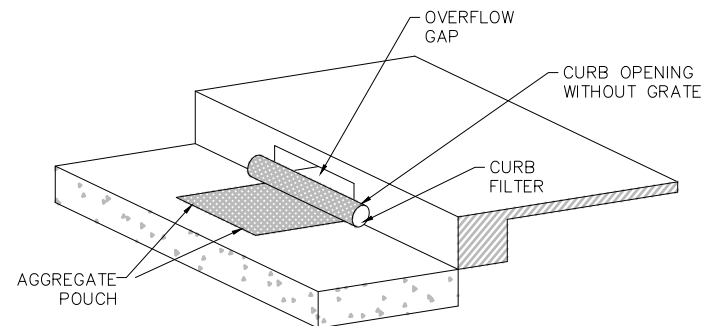
CITY OF KETTERING
3600 Shroyer Road
Kettering, OH 45429
p. 937.296.2436 f. 937.296.3242
www.ketteringoh.org





INSTALLATION: THE EMPTY DANDY 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.

MAINTENANCE: 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 DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.



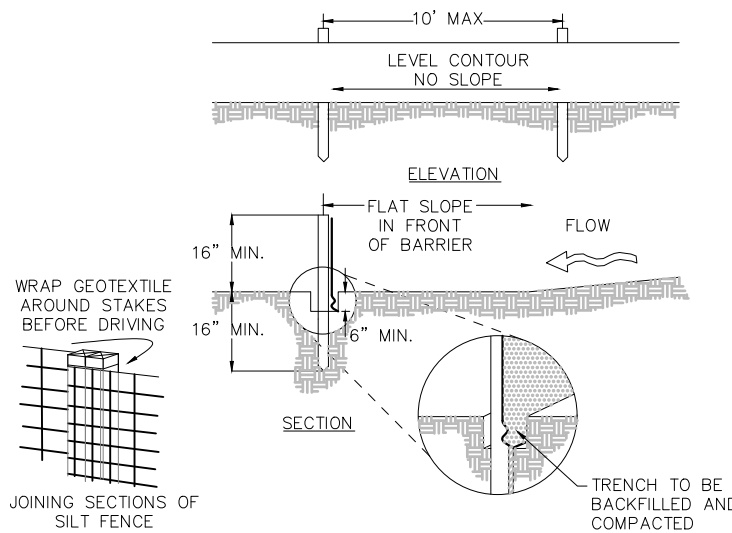
INSTALLATION: PLACE DANDY CURB INLET PROTECTION UNIT ON GROUND WITH AGGREGATE POUCH ON STREET SIDE NEAR INLET IT WILL BE INSTALLED ON. TO INSTALL ABSORBENT, PLACE ABSORBENT SOCK IN POUCH. FILL POUCH WITH AGGREGATE SUCH AS #5-7, 8'S OR SIMILAR TO A LEVEL (AT LEAST 1/2 FULL) THAT WILL KEEP UNIT IN PLACE DURING A RAIN EVENT AND CREATE A SEAL BETWEEN THE DANDY CURB AND THE SURFACE OF THE STREET. RESEAL VELCRO ACCESS. CENTER THE UNIT AGAINST THE CURB OR MEDIAN INLET OPENING SO THAT THE CURB SIDE OF THE UNIT CREATES A SEAL WITH THE CURB OR MEDIAN BARRIER AND INLET STRUCTURE.

MAINTENANCE: WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED. REMOVE AND REPLACE ABSORBENT WHEN NEAR SATURATION.

SPECIFICATIONS

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	KN (LBS)	1.62 (365) X 0.89 (200)
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	KN (LBS)	0.40 (90)
MULLEN BURST STRENGTH	ASTM D 3786	KPA (PSI)	3097 (450)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	KN (LBS)	0.51 (115) X 0.33 (75)
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	MM (US STD SIEVE)	0.425 (40)
FLOW RATE	ASTM D 4491	1/MIN/M ² (GAL/MIN/FT ²)	5907 (145)
PERMITTIVITY	ASTM D 4491	SEC ⁻¹	2.1

DANDY BAG & CURB DETAILS
NTS



NOTES:

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
- SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.

FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS. (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS. (180 N)	ASTM D 4533
APPARENT OPENING SIZE	<0.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10 ⁻² SEC ⁻¹	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM G 4355

SILT FENCE DETAIL
NTS

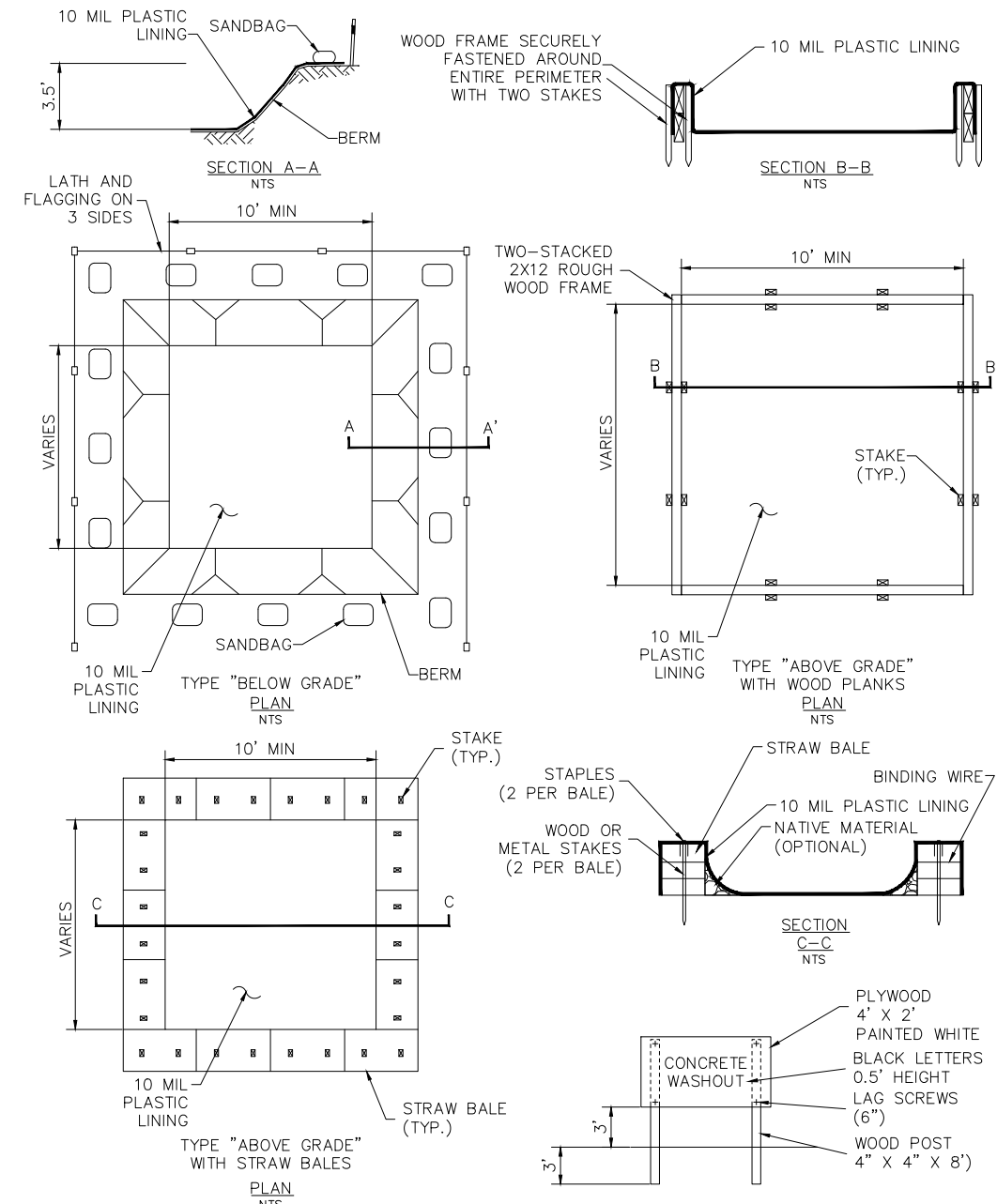
- SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND.
- MAINTENANCE—SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

- FENCE POST – THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.
- SILT FENCE FABRIC – SEE CHART BELOW.



- NOTES:**
- ACTUAL LAYOUT DETERMINED IN THE FIELD.
 - THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT DETAIL
NTS

CALCULATED
MLZ
CHECKED
SEB

ROSEWOOD ARTS CENTER
STORM WATER POLLUTION PREVENTION PLAN NOTES & DETAILS

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ROSEWOOD ARTS CENTER
LIGHTING PLAN



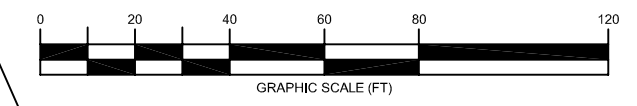
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11
18

LEGEND

- 1" PVC CONDUIT, 2-#8 DISTRIBUTION CABLE WITH GROUND
- ▼ F## - PROPOSED LIGHTING FIXTURE (7)
- ▼ F## (BC) - PROPOSED LIGHTING FIXTURE WITH BACKLIGHT CONTROL (5)



PROP. POWER SERVICE CONNECTION
(CONTROL AND CIRCUIT PROTECTION
BY BUILDING ELECTRICAL)

PROP. 1" PVC CONDUIT, 120'
3-CONDUCTOR, 8 AWG

PROP. 1" PVC CONDUIT, 105'
3-CONDUCTOR, 8 AWG

PROP. 1" PVC CONDUIT, 140'
3-CONDUCTOR, 8 AWG

PROP. 1" PVC CONDUIT, 270'
3-CONDUCTOR, 8 AWG

PROP. 1" PVC CONDUIT, 110'
3-CONDUCTOR, 8 AWG

PROP. 1" PVC CONDUIT, 75'
3-CONDUCTOR, 8 AWG

PROP. 1" PVC CONDUIT, 110'
3-CONDUCTOR, 8 AWG

PROP. 1" PVC CONDUIT, 100'
3-CONDUCTOR, 8 AWG

PROP. 1" PVC CONDUIT, 115'
3-CONDUCTOR, 8 AWG

PROP. 1" PVC CONDUIT, 105'
3-CONDUCTOR, 8 AWG

RESIDENTIAL PROPERTIES

OLSON DR.

PROP. 1" PVC CONDUIT, 105'
3-CONDUCTOR, 8 AWG

F11

F10

F09

F01

F07

F08

F06 (BC)

F05 (BC)

F04 (BC)

F02 (BC)

F03 (BC)

F12

Submitted by LEESMAN LIGHTING

Job Name:
City of Kettering, Ohio - Fire Station 36 -
Rebid - LEE14-22115

Catalog Number:
CL1-A-60LU-4K-4-DB
CL1-A-60LU-4K-DB-BC

Type:
AB4H

Notes:
LEE14-22115

CIMARRON LED

Cat.# _____ Job _____ Type _____ Approvals _____

SPALDING LIGHTING

SPECIFICATIONS

Construction:

- Stylish vertically finned die-cast solid top housing for maximum heat dissipation; Stops collection of unsightly debris from gathering on top of the housing
- Rugged lower die-cast aluminum heat sink accelerates thermal management and optimizes PCB and optical performance
- Separate optical and electrical compartment for optimum component operation
- One piece die cut silicone gasket ensures weather proof seal around each individual LED for IP65 rating
- Backlight Control (BC) option available for 85% spill light reduction, doesn't change fixture appearance or EPA, recommended for Type III and Type IV distributions
- Stamped bezel provides mechanical compression to seal the optical assembly
- Complements the Hubbell Southwest series of outdoor fixtures
- Weight - 45.0 pounds, EPA - 1.3 ft³
- Suitable for applications requiring 3G testing prescribed by ANSI C136.31

Optics:

- Choice of 72 high brightness LED configurations with individual acrylic lenses specially designed for IES Type II, III, IV and V distributions
- Auto optics designed for front row 1A and interior rows 2A (see distribution under ordering and page 2)
- CCT: 3000K (80 CRI), 4000K (70 CRI), 5100K (67 CRI), and turtle friendly Amber LED optics
- CRI: 70

Electrical:

- Universal input voltage 120-277 VAC, 50/60 Hz
- Integral step-down transformer for 347V & 480V
- Ambient operating temperature -40° C to 40° C
- Automatic thermal self-protection
- Drivers have greater than 90% power factor and less than 10% THD
- Optional continuous dimming to 10% or dual circuitry available

LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery

- 1050 mA driver available with 90L configuration for increased lumen output
- LED electrical assembly, including PR devices, consumes no power in the 'off' state
- Field replaceable surge protection device provides 20KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3. The SPD is designed with a clamping voltage of 1600V at 20KA using industry standard 8/20µs waveform.

Controls:

- Drivers are 0-10V dimming standard. Photocell and occupancy sensors available for complete on/off and dimming control

Lumen maintenance:

- L90 at 60,000 hours (Projected per IESNA TM-21-11)

Installation:

- Two die-cast aluminum arm designs: The decorative arm offers a sleek upswept look while the straight arm follows the housing's contoured lines for continuity of style
- Fixture ships with arm installed for ease of installation and mounts to #2 drill pattern
- Wall bracket, mast arm fitter and pole accessories are also available allowing easy mounting for virtually any application

Finish:

- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

Warranty:

Five year limited warranty (for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>)

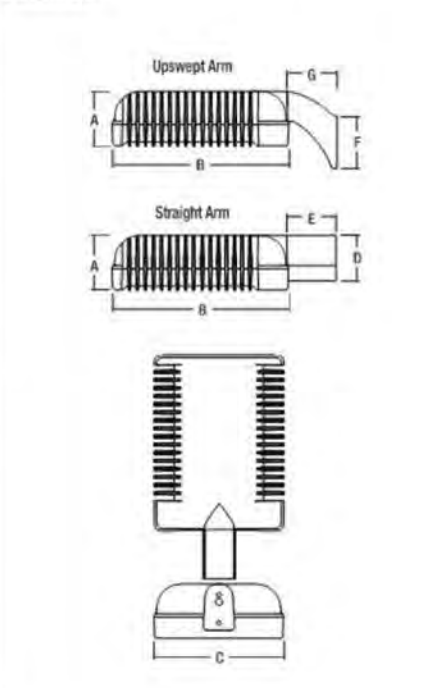
Listings:

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
- Models meet DesignLights Consortium (DLC) qualifications, consult DLC website for more details: <http://www.designlights.org/OPL>
- IDA approved • IP65

PRODUCT IMAGE(S)



DIMENSIONS



ORDERING INFORMATION SEE NEXT PAGE

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HUBBELL LIGHTING

Submitted by LEESMAN LIGHTING

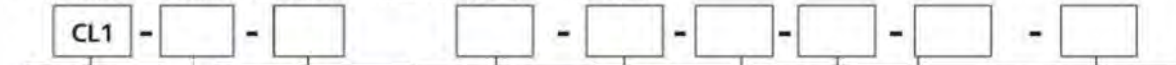
Job Name:
City of Kettering, Ohio - Fire Station 36 -
Rebid - LEE14-22115

Catalog Number:
CL1-A-60LU-4K-4-DB
CL1-A-60LU-4K-DB-BC

Type:
AB4H

Notes:
LEE14-22115

ORDERING INFORMATION ORDERING EXAMPLE: CL1-A-90LU-5K-3-DB-RPA3



SERIES	NO. OF LEDs	VOLTAGE	CCT	DRIVE CURRENT	OPTIONS
CL1 Cimarron LED	90L 90 High brightness LEDs 60L 60 High brightness LEDs 30L 30 High brightness LEDs	U ¹ Universal 120V-277V, 50/60 Hz 1 120V 2 208V 3 240V 4 277V 5 480V, 60 Hz F 347V, 60 Hz E ² 220V, 50 Hz	3K 3000K 4K 4000K 5K 5100K AM ³ Amber (590 nm available for "Turtle Friendly" applications (consult factory))	Leave blank for 700mA (standard) 03S 350mA Amber CCT only 10S 1050 mA (use with 90L only for higher lumen output)	BC ⁴ Backlight control BL ^{1,2,5} Bi-level control CD ⁵ Continuous dimming WB Wall bracket RPA3 3" Round pole adapter RPA4 4" Round pole adapter RPA5 5" Round pole adapter RPA6 6" Round pole adapter F(X) ^{3,4} Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V) SSB Stainless steel LED bezel VG Vandal guard

MOUNTING

A Arm mount construction (6" straight rigid arm included & acceptable for 90° configurations)

AD Decorative arm mount const. (6" decorative upswept arm incl. & acceptable for 90° configurations)

MAF Mast arm fitter for mounting to standard 2 3/8" mast arm bracket, includes 6" straight rigid arm

DISTRIBUTION

- 2 Type II
- 3 Type III
- 4 Type IV
- 5M Type V Medium
- 5S Type V Short
- 5W Type V Wide
- 2L Type II Rotated 90° left
- 3L Type III Rotated 90° left
- 4L Type IV Rotated 90° left
- 2R Type II Rotated 90° right
- 3R Type III Rotated 90° right
- 4R Type IV Rotated 90° right
- 1A Auto Front Row Type I
- 1AR Auto Front Row Type I Rotated 90° right
- 1AL Auto Front Row Type I Rotated 90° left
- 2A Auto Front Row Type II
- 2AR Auto Front Row Type II Rotated 90° right
- 2AL Auto Front Row Type II Rotated 90° left

Notes: 1 - For BL option 90L and 60L, N/A 347V & 480V
2 - BL & CCT cannot be combined
3 - Fuse option not available with universal voltage
4 - Select 1.3 fusing option for 220V
5 - Physical receptacle not available with BL option
6 - Recommended for Type III and V distributions only
7 - Available in 350mA @ low current only Type II, 5M
8 - 0-10V fully adjustable dimming with automatic daylight shut-off and different time delay settings, must order minimum of one remote control to program dimming settings (not accessories)
9 - 120V/277V/347V/480V only

ENERGY SAVING DATA

ENERGY DATA	INPUT WATTS		LUMENS DELIVERED						DRIVERS CURRENT	
	120V-277V	347V-480V	TYPE 2	TYPE 3	TYPE 4	TYPE 5M	TYPE 5S	TYPE 5W		
Power Factor > .9										
Total Harmonic Distortion < 10%										
	30L-5K	70	87	6384	6164	6641	7108	6999	6619	2@700mA
	60L-5K	140	157	13300	12842	13125	13185	13675	12954	4@700mA
	90L-5K	210	227	19684	19006	19202	20592	19610	18973	6@700mA
	90L-5K-10S	336	363	26974	25351	26548	25793	27445	25195	6@1050mA
	30L-4K	70	87	6089	6109	6104	6417	6439	6046	2@700mA
	60L-4K	140	157	11583	11468	12036	12038	12581	11807	4@700mA
	90L-4K	210	227	17143	16973	17648	18521	20220	17394	6@700mA
	90L-4K-10S	336	363	23896	23912	24199	24583	25357	23128	6@1050mA
	30L-3K	70	87	4606	4668	4686	4858	4902	4601	2@700mA
	60L-3K	140	157	9013	9175	9216	9409	9461	8844	4@700mA
	90L-3K	210	227	13369	13601	13575	13923	14004	13902	6@700mA
	90L-3K-10S	336	363	17645	17612	17469	17950	18271	17330	6@1050mA

AUTOMOTIVE DEALERSHIP OPTICS

For Automotive Dealership applications Spaulding Lighting has developed two optics designed for enhanced and proper lighting of the auto dealership merchandise and the front row 1A and interior rows 2A (See CL1 distribution information for details)

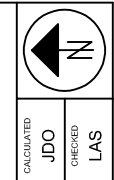


- Optic 1A**
- Maximum illumination on front row display
 - Maximum pole spacing
- Optic 2A**
- Excellent front row illumination and drive lane
 - Optimal uniformity for drive lane and interior rows

ACCESSORIES SEE NEXT PAGE

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HUBBELL LIGHTING



ROSEWOOD ARTS CENTER LIGHTING NOTES

CITY OF KETTERING
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Kettering, OH 45429
937.296.2436 f 937.296.3242
www.ketteringoh.org

Submitted by LEESMAN LIGHTING
Job Name: City of Kettering, Ohio - Fire Station 36 - Rebid - LEE14-22115
Catalog Number: CL1-A-60LU-4K-4-DB
 CL1-A-60LU-4K-DB-BC
 Notes:
Type: AB4H
 LEE14-22115

ACCESSORIES

Catalog Number	Description
SCP-REMOTE*	Remote control for SCP option. Order at least one per project to program and control.

Catalog Number	Description
CR-RPA3-XX ¹	Round pole adapter for straight arm (3 3/4" - 3 1/2")
CR-RPA4-XX ¹	Round pole adapter for straight arm (3 3/4" - 4 1/2")
CR-RPA5-XX ¹	Round pole adapter for straight arm (5")
CR-RPA6-XX ¹	Round pole adapter for straight arm (6")
CRD-RPA2-XX ¹	Round pole adapter for upswept arm (2 3/4" - 3 1/4")
CRD-RPA3-XX ¹	Round pole adapter for upswept arm (3 3/4" - 3 3/4")
CRD-RPA4-XX ¹	Round pole adapter for upswept arm (3 3/4" - 4 1/2")
CRD-RPA5-XX ¹	Round pole adapter for upswept arm (5")
CRD-RPA6-XX ¹	Round pole adapter for upswept arm (6")
WB-CR-XX ¹	Wall bracket
TPLB-XX ¹	Twin parallel luminaire bracket
MAF-CL-XX ²	Horizontal mast arm fitter for 2 3/8" OD arm. Mounts to standard 6" arm (ordered with fixture)

¹ Replace XX with color choice, eg. DB for Dark Bronze
² When ordering poles, specify Pole Drill Pattern #2
³ Fixture must include standard 6" arm

MOUNTING ACCESSORIES

Catalog Number	Description
ARM-CL-K-TA-XX ¹	Adjustable mounting arm for single fixture (2-3/8 tenon) - 5 lbs. 2.3 kgs.
ARM-CL-TK-TA-XX ¹	Adjustable mounting arm for two fixtures at 180° (2-3/8 tenon) - 7 lbs. 3.2 kgs.
ARM-CL-K-S-XX ¹	10" adjustable arm - 5 lbs. .05 kgs. - 5.75 lbs. 2.6 kgs.

¹ Replace XX with color choice, eg. DB for Dark Bronze
² Fixture must include standard 6" straight arm



TENON TOP POLE BRACKET ACCESSORIES

(2 3/8" OD tenon) (RSS version requires 4" round pole adapter)

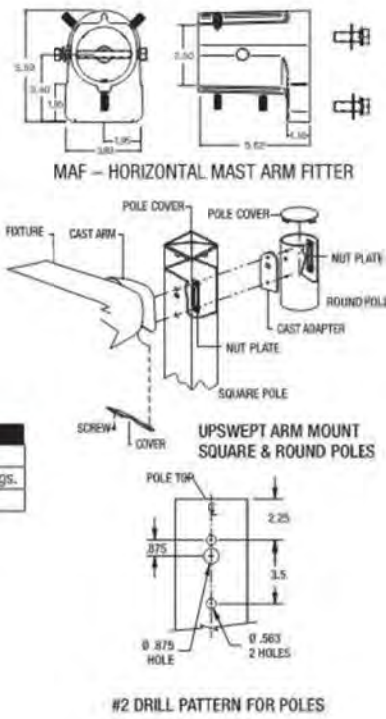
Catalog Number	Description
SETA-XX ¹	Square pole tenon adapter (4 at 90 degrees)
RETA-XX ¹	Round pole tenon adapter (4 at 90 degrees)
TETA-XX ¹	Hexagonal pole tenon adapter (3 at 120 degrees)

¹ Replace XX with color choice, eg. DB for Dark Bronze

PHOTOCONTROL EQUIPMENT

Catalog Number	Description
PTL-1	Photocontrol - twist-lock cell (120V)
PTL-8	Photocontrol - twist-lock cell (120-277V)
PTL-5	Photocontrol - twist-lock cell (480V)
PTL-6	Photocontrol - twist-lock cell (347V)
PSC	Shorting cap - twist-lock

LIGHTING FACTS



Submitted by LEESMAN LIGHTING
Job Name: City of Kettering, Ohio - Fire Station 36 - Rebid - LEE14-22115
Catalog Number: CL1-A-60LU-4K-4-DB
 CL1-A-60LU-4K-DB-BC
 Notes:
Type: AB4H
 LEE14-22115

Thomas Research Products
 SSL Solutions Faster Than The Speed Of Light

LED-40W Series - Fixed Output and Dimmable
 Switch Mode LED Drivers
 Constant Current & Constant Voltage with Isolation
 Black Magic Thermal Advantage™ Plastic Housing

Total Power: 40 Watts
 Input Voltage: 100-277 VAC
 Outputs: Single from 3 VDC to 114 VDC
 Indoor or Outdoor Applications
 Active Power Factor Correction
 UL8750 and Class 2 Compliant, as noted

Electrical Specifications

Input Voltage Range:	100-277 VAC Nom. (90-305 Min/Max)
Frequency:	50/60 Hz
Power Factor:	>0.94 at full load 115VAC/230VAC 50/60 Hz
Inrush Current:	<20.0 Amps maximum @ 230 VAC, cold start 25°C
Input Current:	0.40 Amps maximum
Maximum Power:	40W
Current Accuracy:	± 1% Over input line variation
Load Regulation:	± 3%
THD:	≤ 20% @ full load
Leakage Current:	400 uA Typical
Hold Up Time:	Half Cycle
Protection:	Output Over-Voltage, Output Over-Current, and Output Short Circuit Protection with Auto Recovery



Environmental Specifications

Operating Temperature:	-30°C to +60°C
Maximum Case Temp:	90°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 95%
Cooling:	Convection
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
MTBF:	482,000 Hours at full load and 40°C ambient conditions per MIL-2117F Notice 2
EMC:	FCC 47CFR Part 15 Class B compliant

Constant Current Versions - Product Specifications

Model Number	Output voltage range	Output constant current	Current accuracy	Output power	Max. efficiency
LED40W-114-C0350-XX	35-114 VDC	350 mA	± 3%	40W	87%
LED40W-100-C0400-XX	33-100 VDC	400 mA	± 3%	40W	87%
LED40W-89-C0450-XX	30-89 VDC	450 mA	± 3%	40W	87%
LED40W-54-C0700-XX	16-54 VDC	700 mA	± 3%	37.8W	86%
LED40W-48-C0830-XX	16-48 VDC	830 mA	± 3%	40W	86%
LED40W-36-C1100-XX	12-36 VDC	1100 mA	± 3%	40W	86%
LED40W-30-C1300-XX	10-30 VDC	1300 mA	± 3%	39.0W	86%
LED40W-24-C1400-XX	8-24 VDC	1400 mA	± 3%	33.6W	86%
LED40W-24-C1670-XX	8-24 VDC	1670 mA	± 3%	40W	86%
LED40W-22-C1820-XX	7-22 VDC	1820 mA	± 3%	40W	86%
LED40W-18-C2220-XX	6-18 VDC	2200 mA	± 3%	40W	85%
LED40W-15-C2680-XX	5-15 VDC	2680 mA	± 3%	40W	85%
LED40W-13-C3080-XX	4-13 VDC	3080 mA	± 3%	40W	85%
LED40W-12-C3330-XX	4-12 VDC	3330 mA	± 3%	40W	84%
LED40W-10-C4000-XX	3-10 VDC	4000 mA	± 3%	40W	84%
LED40W-09-C4450-XX	3-9 VDC	4450 mA	± 3%	40W	83%

-XX indicates dimming options are available. See options at left. Blank = fixed current output

Constant Voltage Versions - Product Specifications

Model Number	Output constant voltage	Output current range	Voltage accuracy	Output power	Max. efficiency
LED40W-114	114 VDC	88-350 mA	± 5%	40W	87%
LED40W-100	100 VDC	100-400 mA	± 5%	40W	87%
LED40W-89	89 VDC	113-450 mA	± 5%	40W	87%
LED40W-54	54 VDC	175-700 mA	± 5%	40W	86%
LED40W-48	48 VDC	208-830 mA	± 5%	40W	86%
LED40W-36	36 VDC	275-1100 mA	± 5%	40W	86%
LED40W-30	30 VDC	325-1300 mA	± 5%	40W	86%
LED40W-24	24 VDC	418-1670 mA	± 5%	40W	86%
LED40W-22	22 VDC	455-1820 mA	± 5%	40W	86%
LED40W-18	18 VDC	550-2200 mA	± 5%	40W	85%
LED40W-15	15 VDC	670-2680 mA	± 5%	40W	85%
LED40W-13	13 VDC	770-3080 mA	± 5%	40W	85%
LED40W-12	12 VDC	833-3330 mA	± 5%	40W	84%
LED40W-10	10 VDC	1000-4000 mA	± 5%	40W	84%
LED40W-09	9 VDC	1112-4450 mA	± 5%	40W	83%

Class 2: US/Canada US Only 06-25-12



Ordering Options:

- D 0-10V & Resistance dimmable version comes with an extra two wires +Purple/-Gray on the output side. -D 0-10V Dimming is compatible with most quality 0-10V wall dimmers and direct 0-10V analog signal. See page 3 for additional specifications.
- PD PWM Dimmable version comes with an extra two wires +Purple/-Gray on the output side. PD PWM version is PWM Dimmable via a positive 10% to 100% Duty Cycle, 200Hz to 1KHz, 0-10V Pulse. See page 4 for additional specifications.

Thomas Research Products • 11548 Smith Dr. • Huntley, IL 60142 • T: 847-515-3057 • F: 847-515-3047 • www.trpsll.com

SPALDING Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000
 Due to our continued efforts to improve our products, product specifications are subject to change without notice.
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 HUBBELL Lighting



CALCULATED
 JDO
 CHECKED
 LAS

ROSEWOOD ARTS CENTER
 LIGHTING NOTES



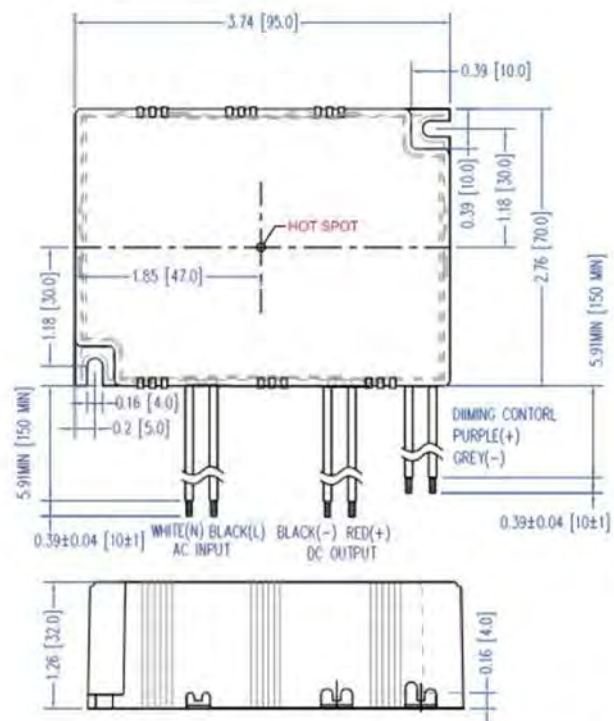
CITY OF KETTERING
 3600 Shroyer Road
 Kettering, OH 45429
 937.296.2436 f 937.296.3242
 www.ketteringohio.org



13
 18

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Dimensions - Inches (mm)



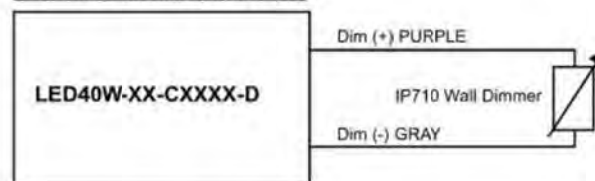
UL Conditions of Acceptability
 See website for additional information

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 SSL Solutions Faster Than The Speed Of Light

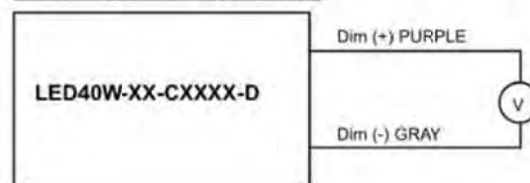
-D Option - 0-10VDC and Resistance Dimming

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0mA	—	2mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0V	—	+15V
Sink Current into 0-10V Purple Wire	0mA	—	1.2mA

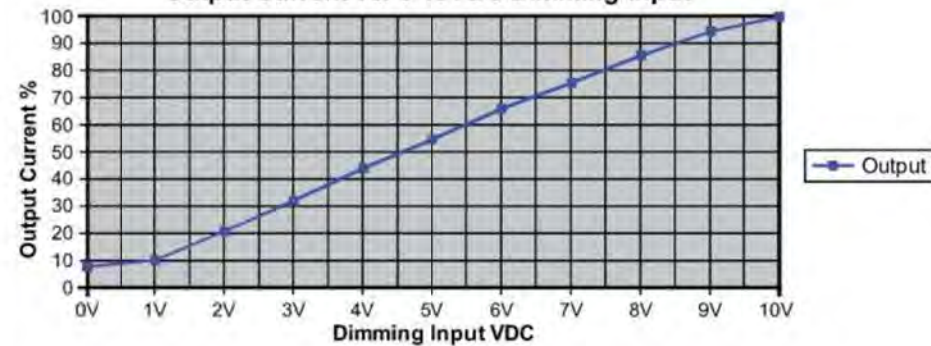
Resistance Dimming Typical Circuit



0-10V Analog Dimming Typical Circuit



Output Current vs. 0-10VDC Dimming Input



Notes:

- 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
- Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
- 0-10V dimmable version is not intended to dim below about 5% @ 0V or 10% @ 1.0V
- 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.

Submitted by LEESMAN LIGHTING	Job Name: City of Kettering, Ohio - Fire Station 36 - Rebid - LEE14-22115	Catalog Number: CL1-A-60LU-4K-4-DB CL1-A-60LU-4K-DB-EC	Type: AB4H
		Notes:	LEE14-22115

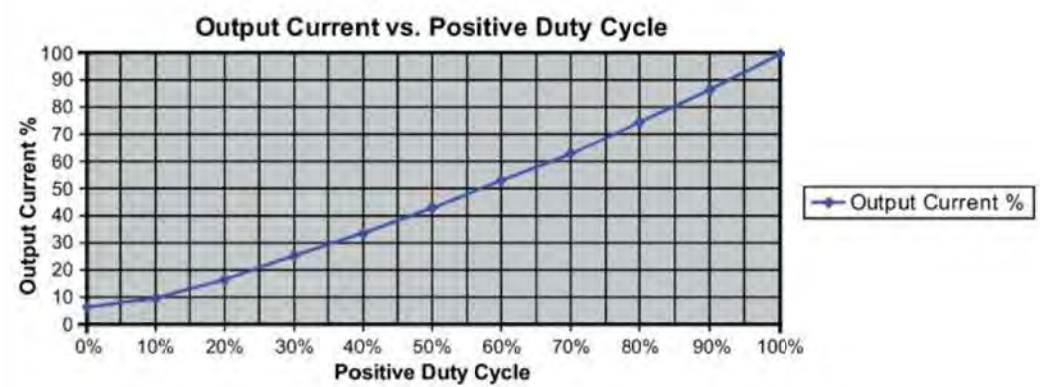
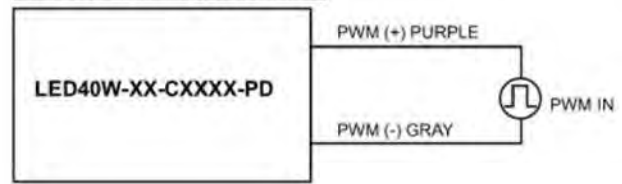
Thomas Research Products

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-PD Option - 0-10VDC and Resistance Dimming

Parameters	Minimum	Typical	Maximum
Absolute Maximum Voltage Range on PWM Input (Purple Wire)	-2.0V	10V	+28V
Input LOW Level Voltage Range (Purple Wire)	-2.0	0V	+7.5V
Input HIGH Level Voltage Range (Purple Wire)	+9.0	10V	28V
Sink Current into PWM Input (Purple Wire)	0mA	—	1.2mA
PWM Input Signal Frequency	200Hz	—	1000Hz
PWM Input Signal Positive Duty Cycle	0%	10-90%	100%

PWM Positive Dimming Typical Circuit



Notes:

- PWM Dimmable version comes with an extra 2 wires +Purple/-Gray on the output side.
- Below 10% Duty cycle proper dimming operation is not assured. Unit is not intended to turn off at <10% Duty Cycle.
- PWM dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.

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Submitted by LEESMAN LIGHTING	Job Name: City of Kettering, Ohio - Fire Station 36 - Rebid - LEE14-22115	Catalog Number: SSS-20-40-1-A2-DB	Type: AB4H
		Notes:	LEE14-22115

SSS SERIES POLES

SQUARE STRAIGHT STEEL

Cat. #	Approvals	
Job	Type	

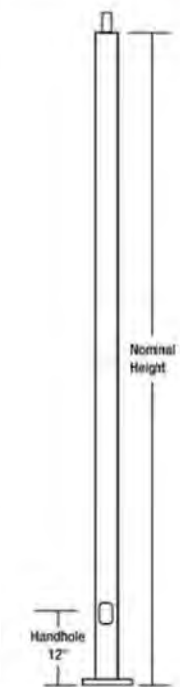
SPAULDING LIGHTING

APPLICATIONS

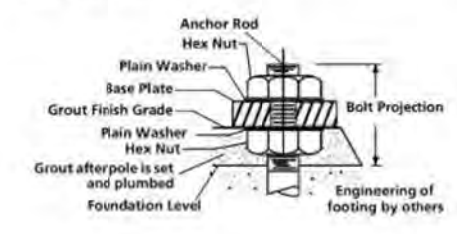
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location.

FEATURES

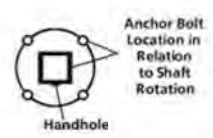
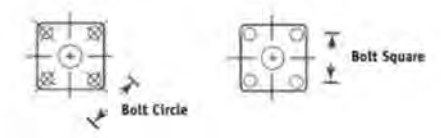
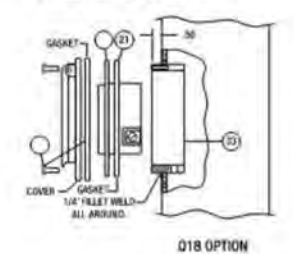
- SHAFT:** One-piece straight steel with square cross section, flat sides and minimum 0.36" radius on all corners. Minimum yield of 46,000 psi (ASTM-A500, Grade B). Longitudinal weld seam to appear flush with shaft side wall. Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ATM-A36).
- BASE COVER:** Two-piece square aluminum base cover included standard.
- POLE CAP:** Pole shaft covered with removable non-metallic cover when applicable. Tenon and post-top configurations also available.
- HAND HOLE:** Rectangular steel-reinforced hand hole (2.5" x 4.5"). Pole grounding lug located behind gasketed cover.
- ANCHOR BOLTS:** Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (modified ASTM-A36). Galvanized hardware with two washers/nuts per bolt for leveling meet or exceed bolt strength.
- FINISH:** Durable Lektrocote® TGIC thermoset polyester powder coat paint finish with nominal 3.0 mil thickness. Zinc-rich powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method. Decorative finish coat available in seven standard colors. Custom colors available. RAL number preferable. Internal protective coating available.



BASE DETAIL



15 AMP GFCI RECEPTACLE & COVER



SPAULDING LIGHTING

SHEET # SSSPOLES-SPEC5/12



CITY OF KETTERING
3600 Shroyer Road
Kettering, OH 45429
937.296.2436 f 937.296.3242
www.ketteringoh.org



Submitted by LEESMAN LIGHTING
Job Name: City of Kettering, Ohio - Fire Station 36 - Rebid - LEE14-22115
Catalog Number: SSS-20-40-1-A2-DB
Type: **AB4H**
Notes:
 LEE14-22115

ORDERING INFORMATION
S - S - S - 25 - 40 - 1 - TA - DB
 Cross Section Style Material Nominal Length Nominal Shaft Dia. Shaft Thickness Mounting Type Finish

Catalog Number	Pole Ht.		Nominal Shaft Dim.	Wind Load Rating ¹				Wall Thick.	Bolt Circle (Sug.)	Bolt Circle	Bolt Sq.	Base Plate (sq.)	Anchor Bolt Size	Bolt Proj.	Pole Wt (lbs)	
	ft	m		70 MPH	80 MPH	90 MPH	100 MPH									
SSS-10-40-1-XX-XX	10	3.0	4"	25	25	22	17	11.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	91
SSS-10-50-1-XX-XX	10	3.0	5"	25	25	25	23	15	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	106
SSS-12-40-1-XX-XX	12	3.7	4"	25	21	16	13.0	8.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	104
SSS-12-50-1-XX-XX	12	3.7	5"	25	25	23	18	11.8	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	122
SSS-14-40-1-XX-XX	14	4.3	4"	24	18	14.2	11.0	6.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	116
SSS-14-50-1-XX-XX	14	4.3	5"	25	25	23	18	12.2	.179"	11"	8 1/2 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	158
SSS-14-60-1-XX-XX	14	4.3	5"	25	24	19	14.4	9.0	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	138
SSS-16-40-1-XX-XX	16	4.9	4"	16	12.2	9.0	6.8	3.8	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	128
SSS-16-40-7-XX-XX	16	4.9	4"	25	20	15	12.2	7.6	.179"	11"	8 1/2 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	176
SSS-16-50-1-XX-XX	16	4.9	5"	22	16	12.2	9.2	5.2	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	153
SSS-16-50-7-XX-XX	16	4.9	5"	25	25	24	19	12.4	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	214
SSS-18-40-1-XX-XX	18	5.5	4"	13.8	10.0	7.2	5.2	2.4	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	147
SSS-18-40-7-XX-XX	18	5.5	4"	23	17	13.0	10.0	6.0	.179"	11"	10 - 13.5"	7.1 - 9.5"	11 x 1"	3/4 x 30 x 3"	4"	201
SSS-18-50-1-XX-XX	18	5.5	5"	18	13.2	9.6	7.0	3.4	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	175
SSS-18-50-7-XX-XX	18	5.5	5"	25	25	20	16	9.8	.179"	11"	8 1/2 - 12"	6 - 8.4"	12 x 1"	3/4 x 30 x 3"	4"	243
SSS-20-40-1-XX-XX	20	6.1	4"	11.4	8.0	5.6	3.8	1.4	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	160
SSS-20-40-7-XX-XX	20	6.1	4"	19	14.6	10.8	8.0	4.4	.179"	11"	8 1/2 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	225
SSS-20-50-1-XX-XX	20	6.1	5"	15	10.8	7.6	5.2	2.0	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	191
SSS-20-50-7-XX-XX	20	6.1	5"	25	23	17	13.2	7.6	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	3/4 x 30 x 3"	4"	266
SSS-20-60-7-XX-XX	20	6.1	6"	25	25	24	18	11.2	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	312
SSS-25-40-1-XX-XX	25	7.6	4"	7.0	4.2	2.2	NR	NR	.119"	11"	8 - 11"	5.6 - 7.8"	10.25 x 0.75"	3/4 x 30 x 3"	4"	190
SSS-25-40-7-XX-XX	25	7.6	4"	13.4	9.4	6.4	4.2	1.4	.179"	11"	8.5 - 12"	6 - 8.4"	11 x 1"	3/4 x 30 x 3"	4"	266
SSS-25-50-1-XX-XX	25	7.6	5"	9.6	6.0	3.4	1.4	NR	.119"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	231
SSS-25-50-7-XX-XX	25	7.6	5"	22	15	11.2	7.8	3.4	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	324
SSS-25-60-3-XX-XX	25	7.6	5"	25	22	16	12.4	6.6	.250"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	437
SSS-25-60-7-XX-XX	25	7.6	6"	25	22	16	11.6	5.6	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	404
SSS-27-40-7-XX-XX	27	8.2	4"	11.4	7.8	5.0	3.0	NR	.179"	11"	8.5 - 12"	6 - 8.4"	11 x 1"	1 x 36 x 4"	4"	290
SSS-30-40-7-XX-XX	30	9.1	4"	8.2	5.0	2.8	1.2	NR	.179"	11"	8.5 - 12"	6 - 8.4"	11 x 1"	1 x 36 x 4"	4"	313
SSS-30-50-7-XX-XX	30	9.1	5"	14.2	9.4	6.0	3.4	NR	.179"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	398
SSS-30-50-3-XX-XX	30	9.1	5"	20	14.6	10.2	6.8	2.4	.250"	11"	10 - 13.5"	7.1 - 9.5"	12 x 1"	1 x 36 x 4"	4"	537
SSS-30-60-7-XX-XX	30	9.1	6"	20	13.8	9.2	5.8	1.2	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	467
SSS-30-60-3-XX-XX	30	9.1	6"	25	24	17	12.8	6.2	.250"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1.25 x 42 x 6"	4"	630
SSS-35-60-7-XX-XX	35	10.7	6"	14.2	8.4	4.6	1.6	NR	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	538
SSS-35-60-3-XX-XX	35	10.7	6"	25	17	11.6	7.4	1.8	.250"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1.25 x 42 x 6"	4"	726
SSS-40-60-7-XX-XX	40	12.2	6"	9.0	4.0	NR	NR	NR	.179"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1 x 36 x 4"	4"	614
SSS-40-60-3-XX-XX	40	12.2	6"	18	11.8	6.8	3.2	NR	.250"	12"	11 - 13.5"	7.8 - 9.5"	12 x 1"	1.25 x 42 x 6"	4"	802

¹ Allowable EPA with 1.3 gust factor. To determine max. pole loading weight, multiply allowable EPA by 30 lbs.
 NOTE: Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

COMPLETE PART NUMBER REQUIRES SHAFT ABOVE PLUS MOUNTING TYPE, FINISH & APPROPRIATE OPTIONS BELOW

MOUNTING TYPE AX Side - Single BX Side - Double at 90° CX Side - Double at 180° DX Side - Triple at 90° FX Side - Quad at 90° P1 Pad Mount - Spider Type P2 Pad Mount - Yoke Type P3 Pad Mount - Yoke Type (Preformer XL only) TA Tenon (2.375" OD) TB Tenon (2.875" OD) TR Removable Tenon (2.375 x 4.25) CD Concord Luminaire OT No drilling (includes pole cap)	FINISH DB Dark Bronze BL Black WH White GR Gray PS Platinum Silver RD Red (Premium Color) FG Forest Green (Premium Color) CC Custom Color (Consult Factory) PR Primer Only	OPTIONS Q55 Internal Coating (Hubbell Seal) Q18 15 Amp GFCI Receptacle and Cover Q22 Extra Handhole Q26 .5" Coupling Q27 .75" Coupling Q30 2" Coupling Q32 Mid-pole Luminaire Bracket Q40 Vibration Damper LAB Less Anchor Bolts CSA CSA Certified (consult factory)	Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option Q26 should be ordered as: SSS-20-40-1-TA-DB-Q26-0-15 (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1" spacing required between option. Consult factory for other configurations.
---	---	---	---

DRILL PATTERNS: Replace X with:
 1 - Spaulding luminaire with a straight pole cap
 2 - Customized OPT, MSV and Raven Series luminaires.
 3 - Spaulding luminaire.
 4 - Spaulding luminaire.
 5 - Spaulding luminaire.
 6 - DM luminaires.
 7 Removable tenon used in conjunction with sidearm mounting. First specify desired arm configuration followed by the "TR" notation. Example: **SSS-25-40-7-C6-TR-01**
 8 Specify option location using logic found on cover.

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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STANDARD DRAWINGS
 IN ADDITION TO THE CITY OF KETTERING AND ODOT STANDARD DRAWINGS REQUIREMENTS FOR THIS PROJECT, THE REQUIREMENTS OF THE SPECIFICATIONS SUBMITTED BY LEESMAN LIGHTING SHALL BE MODIFIED AND/OR SUPERCEDED ONLY IF THE CITY OF KETTERING OR ODOT STANDARD DRAWINGS ARE MORE RESTRICTIVE AND DO NOT MODIFY THE APPEARANCE, OPERATION AND OPTICS OF THE LIGHTING FIXTURES AND EQUIPMENT SPECIFIED BY LEESMAN LIGHTING.

THE CONTRACTOR SHALL FIRST REFERENCE THE SPECIFICATIONS SUBMITTED BY LEESMAN LIGHTING. IN THE EVENT THAT AN ITEM IS NOT COVERED BY THE SPECIFICATIONS SUBMITTED BY LEESMAN LIGHTING, THE CONTRACTOR SHALL THEN REFERENCE THE RESPECTIVE CITY OF KETTERING STANDARD. IF NOT COVERED BY A CITY STANDARD, ODOT STANDARDS SHALL APPLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE APPLICABLE STANDARD DRAWINGS.

ODOT STANDARD DRAWINGS:
 HL-20.11 01/15/21
 HL-30.22 01/15/21
 HL-60.11 07/21/17

POWER SERVICE
 THE PROPOSED SITE LIGHTING CIRCUIT SHALL BE 1-PHASE, 208V-LINE TO NEUTRAL. A NEW TIME CLOCK WITH HAND/OFF/AUTO CONTROL (HOA SWITCH), PHOTOCCELL AND CIRCUIT PROTECTION WILL BE PROVIDED BY THE BUILDING ELECTRICAL CONTRACTOR.

625, TRENCH, 24" DEEP
 IT IS THE INTENT OF THIS ITEM THAT THE CONTRACTOR SHALL INSTALL LIGHTING CONDUIT PRIOR TO THE PLACEMENT OF PAVEMENT. IF LIGHTING CONDUIT IS INSTALLED AFTER NEW PAVEMENT, THE CONTRACTOR SHALL REPLACE THE PAVEMENT AND/OR WALK EFFECTED BY TRENCHING AT THE CONTRACTOR'S EXPENSE. THE COST OF COORDINATION FOR TRENCHING PRIOR TO PAVEMENT AND WALK PLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONST OF ITEM 625 TRENCH.

TRENCH IN EXISTING PAVED AREAS TO REMAIN, WILL USE A NARROW SLIT TRENCH AS SHOWN IN STANDARD DRAWING HL-30.22.

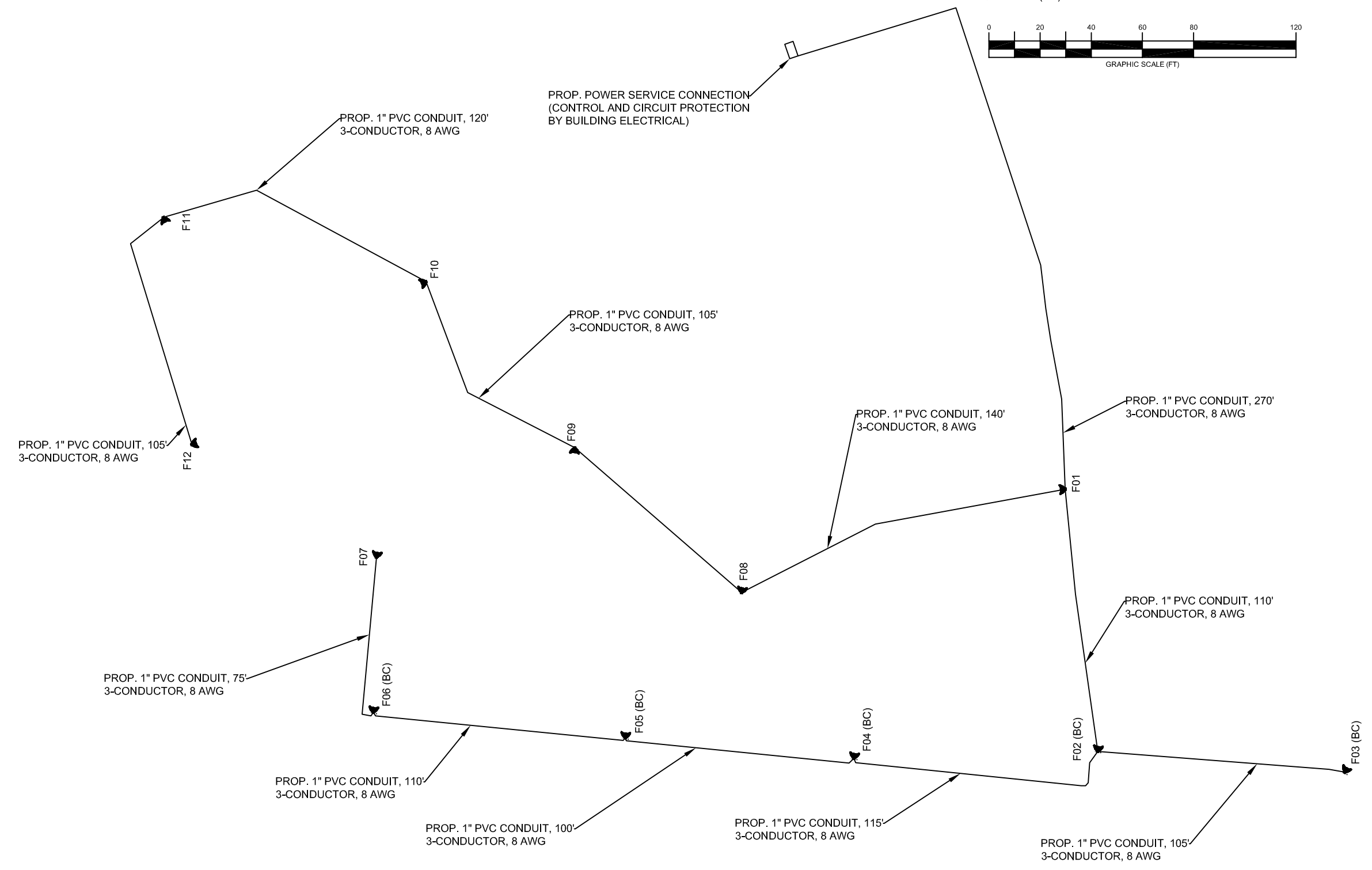
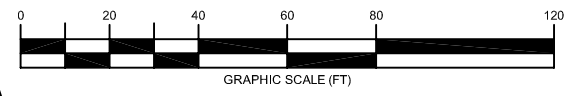
IN LIEU OF TRENCHING, THE CONTRACTOR MAY JACK OR DRILL THE LIGHTING CONDUIT UNDER PAVEMENT OR WALK, INCIDENTAL TO THE COMPLETION OF THIS ITEM.



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LEGEND

- 1" PVC CONDUIT, 2-#8 DISTRIBUTION CABLE WITH GROUND
- F## - PROPOSED LIGHTING FIXTURE (7)
- F## (BC) - PROPOSED LIGHTING FIXTURE WITH BACKLIGHT CONTROL (5)



CONTROL CENTER DATA

CONTROL CENTER DESIGNATION	LINE VOLTS (LINE TO NEUTRAL)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE - AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NO.	CIRCUIT LOAD AMPS	CIRCUIT FUSE SIZE AMPS	CIRCUIT CABLE SIZE AWG
BUILDING	208	2.5	8	60	1	12.00	20	8
					-	-	-	-
					-	-	-	-

ROSEWOOD ARTS CENTER
WIRING DIAGRAM



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