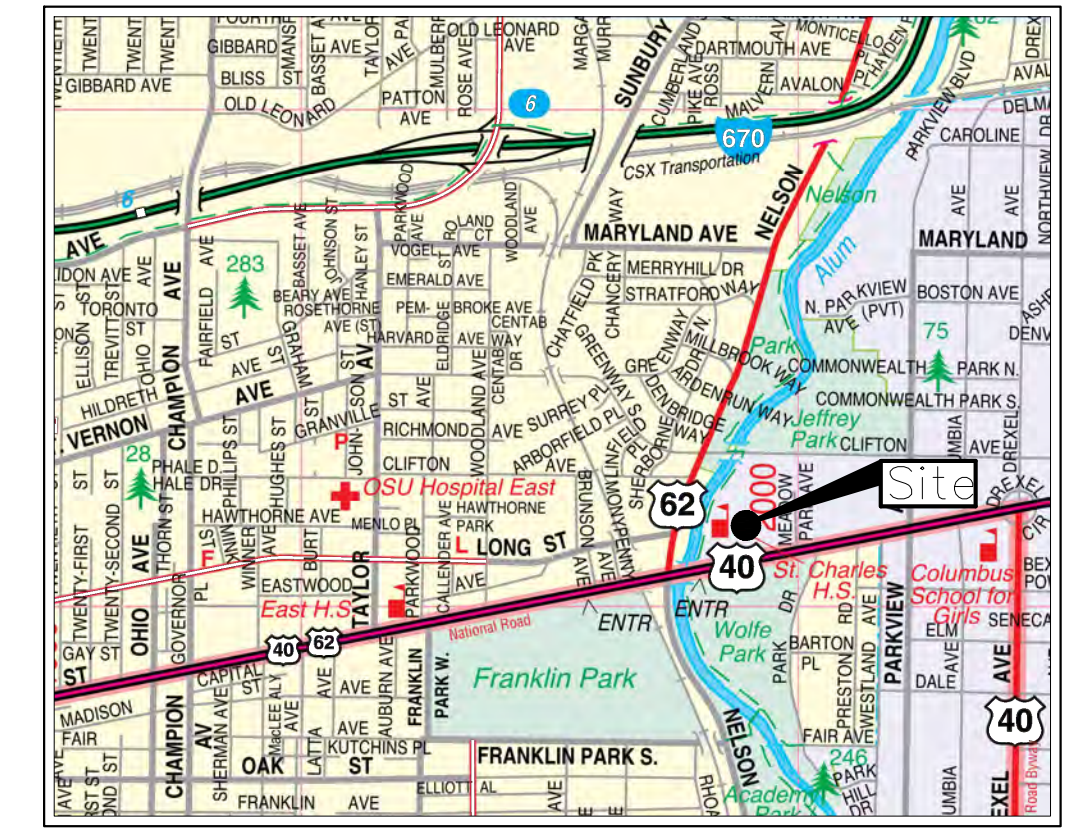


CITY OF BEXLEY OHIO SITE DEVELOPMENT PLAN For ST. CHARLES PREPARATORY SCHOOL 2020



LOCATION MAP
Not To Scale

SPECIFICATIONS: THE CURRENT CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS AND ODOT CMS RESPECTIVELY) TOGETHER WITH THE REQUIREMENTS OF THE CITY OF BEXLEY, OHIO, INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF THE CONTRACT SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY ENGINEER) UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER.

GENERAL PROVISIONS OF THE ODOT AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND CITY OF COLUMBUS CMS. ALSO SPECIFICALLY EXCLUDED IS SPECIFICATION SECTION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF THE ODOT CMS.

ELEVATION DATUM: ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 88 DATUM.

BENCHMARKS: THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, OR SURVEY MARKER DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

SAFETY REQUIREMENTS: THE CONTRACTOR AND ANY AND ALL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

CONFINED SPACE ENTRY: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE OSHA REQUIREMENTS FOR "CONFINED SPACE ENTRY" (CSE), TITLE #29 OF THE FEDERAL REGULATIONS CODE, PART 1910.146, WHILE PERFORMING WORK INSIDE ANY MANHOLE OR OTHER CONFINED SPACE REQUIRING A PERMIT. COPY OF ALL CSE PERMITS SHALL BE GIVEN TO THE CITY UPON PROJECT COMPLETION.

PERMITS: THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND GOVERNMENT FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE IMPROVEMENTS OUTSIDE OF THE CITY OF BEXLEY CORPORATE LIMITS WHERE SHOWN ON THE PLANS.

NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 48 HOURS IN ADVANCE (HOLIDAYS AND WEEKENDS EXCLUDED) OF THE ANTICIPATED START OF WORK REQUIRING INSPECTION, TESTING, OR APPROVAL BY THE CITY ENGINEER. WORK SHALL NOT COMMENCE UNTIL A PRE-CONSTRUCTION CONFERENCE IS HELD.

THE CONTRACTOR SHALL NOTIFY ALL ADJACENT LANDOWNERS A MINIMUM OF ONE WEEK IN ADVANCE OF WORK NEAR THEIR PROPERTY. THE CONTRACTOR SHALL COORDINATE WITH CITY FOR A SUGGESTED FORMAT FOR THE NOTICE.

INSPECTION: THE CITY OF BEXLEY WILL PROVIDE ALL CONSTRUCTION INSPECTION FOR THIS PROJECT. NO WORK SHALL BE COMMENCED UNTIL ARRANGEMENTS HAVE BEEN MADE WITH THE CITY ENGINEER OR SERVICE DIRECTOR FOR INSPECTION SERVICES.

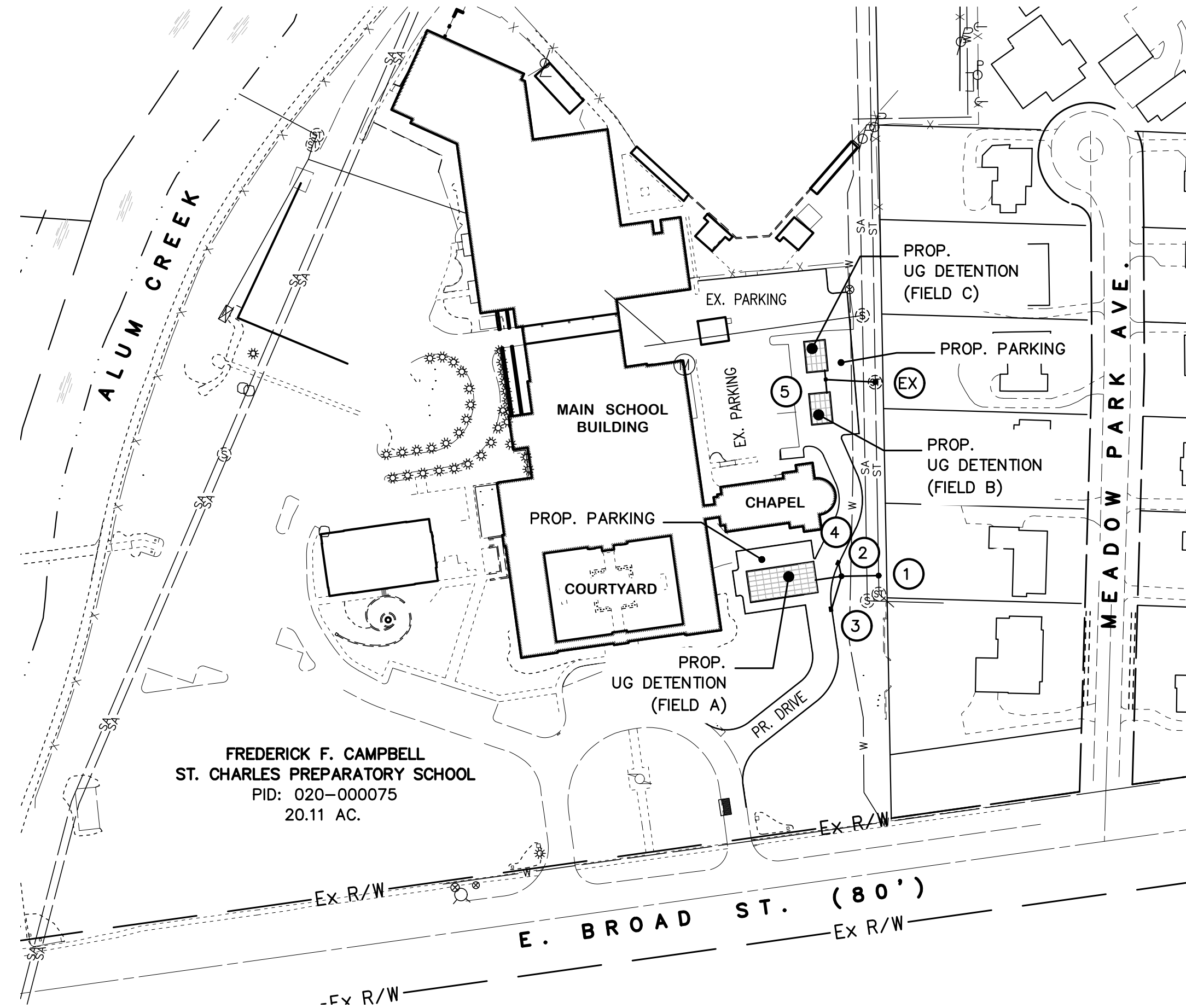
WORK HOURS: GENERAL WORK HOURS ON THIS PROJECT SHALL BE 7:30 AM TO 5:30 PM, MONDAY - FRIDAY, WITH THE EXCEPTION BEING LINING OPERATIONS. CERTAIN STREET INTERSECTIONS MAY HAVE WORKING HOUR RESTRICTIONS; FOR THIS INFORMATION, REFER TO THE TRAFFIC NOTES, THIS SHEET.

UTILITIES: THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY AS REQUIRED BY SECTION 153.64 OR SECTION 3781.27 OF THE OHIO REVISED CODE. THE CITY OF BEXLEY AND THE ENGINEER ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF LOCATIONS OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. WHEN UNKNOWN OR INDIRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY.

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT (1-800-362-2764) AT LEAST 48 HOURS, AND NO MORE THAN 10 DAYS PRIOR TO EXCAVATING, WITH SUCH TIME PERIODS NOT INCLUDING WEEKENDS OR HOLIDAYS. CONTRACTOR SHALL SIMILARLY CONTACT ALL UTILITY OWNERS WHO ARE NOT SUBSCRIBERS TO OUPS.

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL PROCEED WITH THE WORK AND PROTECT ALL UNDERGROUND UTILITIES IN A MANNER AT LEAST AS CAUTIOUS AND PROTECTIVE OF SAFETY AND UNDERGROUND UTILITIES AS THOSE METHODS IDENTIFIED IN SECTIONS 3781.25 THROUGH 3781.30 OF THE OHIO REVISED CODE.

ALL PRIVATE UTILITY RELATION (GAS, ELECTRIC, PHONE, ETC.) WILL BE THE RESPONSIBILITY OF THE UTILITY OWNERS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.



FREDERICK F. CAMPBELL
ST. CHARLES PREPARATORY SCHOOL
PID: 020-000075
20.11 AC.

INDEX MAP
SCALE: 1" = 100'

| SITE DATA TABLE: | |
|----------------------------------|-----------|
| TOTAL SITE AREA (PRIVATE): | 20.11 Ac. |
| TOTAL DISTURBED AREA: | 0.94 Ac. |
| TOTAL DISTURBED AREA (OFF-SITE): | 0.00 Ac. |
| PRE-DEVELOPED IMPERVIOUS AREA: | 9.12 Ac. |
| POST-DEVELOPED IMPERVIOUS AREA: | 9.56 Ac. |

MISCELLANEOUS NOTES
UTILITIES:
UTILITIES SHOWN IN THIS PLAN SET ARE AS TAKEN FROM OUPS MARKINGS, EXISTING RECORD MAPS AND OTHER INFORMATION MADE AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE IN THE BASE BID ALLOWANCES TO DETERMINE EXISTING UTILITY LOCATIONS AND EXACT ROUTING.

| BENCHMARKS | | | |
|------------|-----------|-------------|--|
| ID. | ELEVATION | DESCRIPTION | |
| BM 1 | - | - | |
| BM 2 | - | - | |

NOTE: ALL BENCHMARKS AND ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD88) UNLESS OTHERWISE NOTED.

| HORIZONTAL CONTROL | | | | |
|--------------------|-----------|------------|-----------|---------------------------------|
| | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| HC1 | 717782.37 | 1843377.02 | 753.70 | 3/4" ID IRON PIN FOUND |
| HC2 | 717511.84 | 1843382.14 | 753.04 | 3/4" IRON PIN FOUND IN CONCRETE |

OHIO SOUTH ZONE) HORIZONTAL DATUM: NAD83 (NRS 2011 ADJ.)

| SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES - (BMPs REQUIRED) | | | | | |
|------------------------------------------------------------------------------|------------------------------------------|------------------|-----------------------------------------|----------------------------|-----------------------------|
| CONTROL/OUTLET STRUCTURE NO. (AS REFERENCED ON PLANS) | PLAN VIEW & DETAILS PAGE NUMBERS FOR BMP | CONTROL FUNCTION | DRAINAGE AREA TO CONTROL FACILITY (AC.) | FACILITY TYPE | GREEN INFRASTRUCTURE (S.F.) |
| MH NO. 2 (AA-S102, MOD.) (DETAIL, SHEET 8) | 5, 6, 7, 8 | FLOOD CONTROL | 0.78 Ac. | ORIFICE PLATE/UG DETENTION | N/A |
| MH NO. 5 (AA-S102, MOD.) (DETAIL, SHEET 8) | 5, 6, 7, 8 | FLOOD CONTROL | 1.14 Ac. | ORIFICE PLATE/UG DETENTION | N/A |

| 100-YR PONDING DATA | | | | |
|--------------------------------------------|-----------------------------------|----------------------------------------|---------------------------------|----------------------------------------|
| STR. ID | MAX. PONDING/SPILLOVER ELEV. (FT) | 100 YEAR PONDING STORAGE REQUIRED (CF) | 100 YEAR PONDING ELEVATION (FT) | 100 YEAR PONDING STORAGE PROVIDED (CF) |
| MH NO. 2 (AA-S102, MOD.) (DETAIL, SHEET 8) | 756.45 | 4,211 | 754.35 | 4,332 |
| MH NO. 5 (AA-S102, MOD.) (DETAIL, SHEET 8) | 755.50 | 4,831 | 755.50 | 4,831 |
| SITE | | 9,042 | | 9,163 |

OWNER/DEVELOPER INFORMATION

FREDERICK F. CAMPBELL
ST. CHARLES PREPARATORY SCHOOL
198 E. BROAD ST.
COLUMBUS, OH 43215
CONTACT: WILLIAM S. DAVIS
PH: 614-224-1221
EMAIL: wdavis@colscdloc.org

ARCHITECT INFORMATION

TRIAD ARCHITECTS
463 N. HIGH ST., SUITE B
COLUMBUS, OH 43215
CONTACT: BRENT T. FOLEY
PH: 614-942-1050
EMAIL: bfoley@triadarchitects.com

CIVIL ENGINEER INFORMATION

E.P. FERRIS & ASSOCIATES, INC.
880 KING AVENUE
COLUMBUS, OHIO 43212
CONTACT: CHAD MACWHINNEY, P.E.
PHONE: (614) 299-2999
FAX: (614) 299-2992
EMAIL: cmacwhinney@epferris.com

| STANDARD CONSTRUCTION DRAWINGS | |
|-------------------------------------|----------------|
| COC DIVISION OF SEWERAGE & DRAINAGE | CITY OF BEXLEY |
| AA-S102 | AA-S125A |
| AA-S104 | AA-S128 |
| AA-S106 | AA-S133A |
| AA-S107 | AA-S141 |
| AA-S112 | AA-S145 |
| AA-S117 | AA-S149 |
| AA-S119 | AA-S150 |

THE STANDARD CONSTRUCTION DRAWINGS LISTED ABOVE SHALL BE CONSIDERED A PART OF THESE PLANS.

SHEET INDEX

- TITLE 1
- GENERAL NOTES..... 2
- EXISTING CONDITIONS PLAN 3
- SWPPP 4
- SITE GRADING PLAN 5
- SITE LAYOUT AND UTILITY PLAN 6
- DETAILS 7
- STORM SEWER PROFILES 8
- LANDSCAPE PLAN 9

| REVISIONS | | | |
|-----------|------|-------------|----|
| NO. | DATE | DESCRIPTION | BY |
| | | | |
| | | | |
| | | | |



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(614) 299-2992 (FAX)
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PRELIMINARY
NOT FOR
CONSTRUCTION
REVISED 06-26-20

REGISTERED ENGINEER _____ DATE _____

THE SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE PURPOSE AND THE GENERAL LOCATION OF THIS PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

CITY OF BEXLEY APPROVALS

MAYOR _____ DATE _____

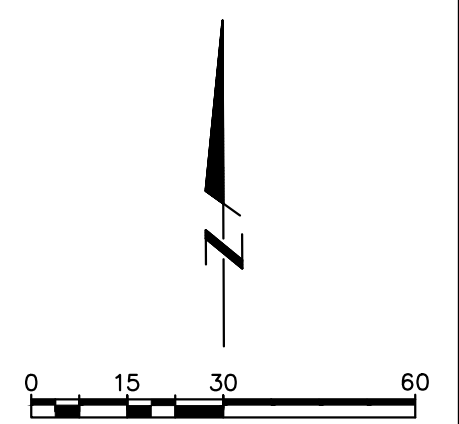
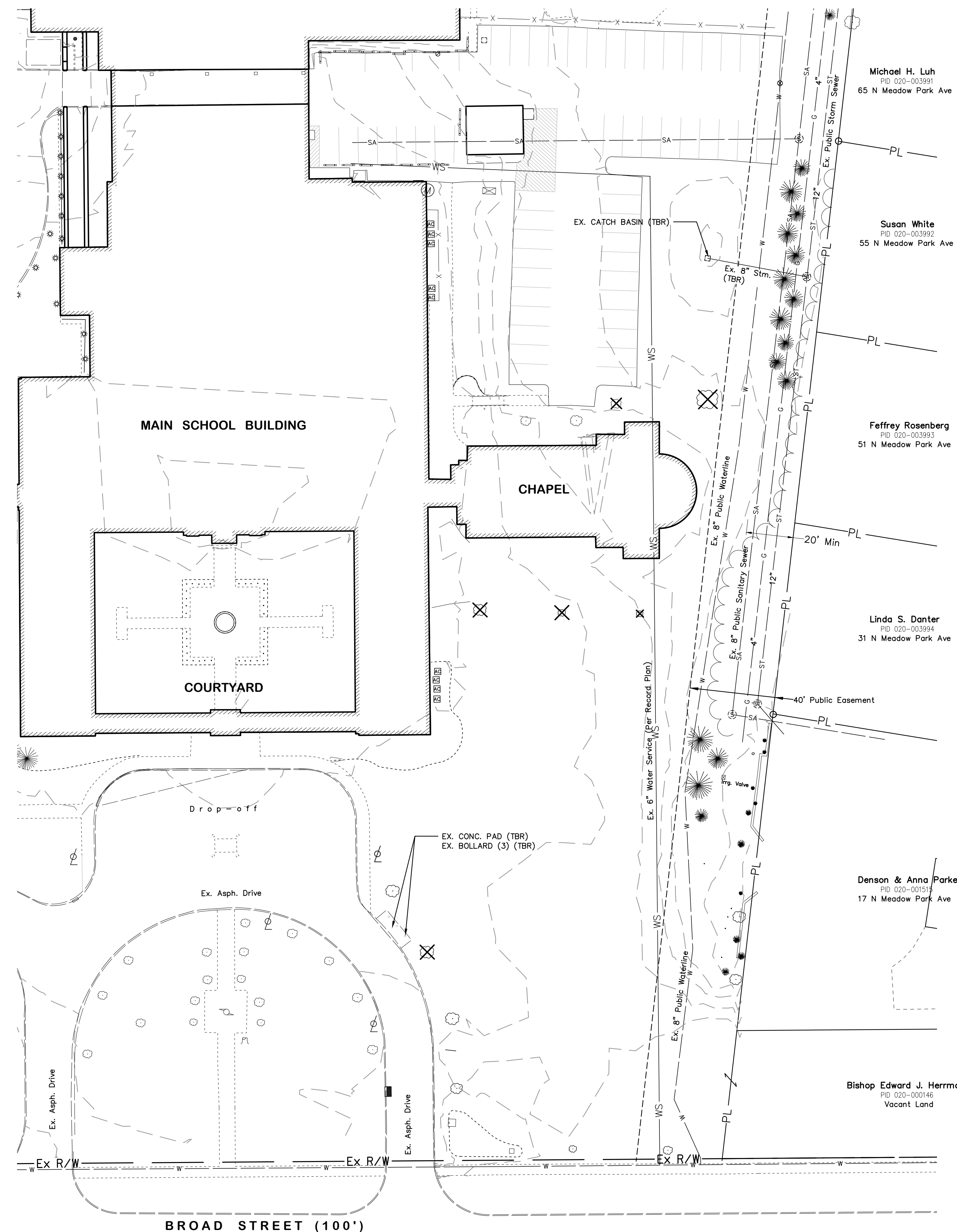
DIRECTOR OF PUBLIC SERVICE _____ DATE _____

CITY ENGINEER _____ DATE _____

SHEET NO. OF
1 9

LEGEND

- PL — PROPERTY LINE
- R/W — EX. RIGHT-OF-WAY
- PR. R/W — PR. RIGHT-OF-WAY
- L/A R/W — LIMITED ACCESS RIGHT-OF-WAY
- — ROADWAY CENTERLINE
- — EDGE OF PAVEMENT/BACK OF CURB
- — EDGE OF DRIVEWAYS
- — EX CENTERLINE OF DITCH
- — MISC. EASEMENTS
- — JURISDICTIONAL BOUNDARY
- SCPZ — STREAM CORRIDOR PROTECTION ZONE
- — EX. IRON PIN FOUND
- — EX. IRON PIPE FOUND
- ⊕ — EX. FIRE HYDRANT
- ⊗ — EX. WATER SERVICE VALVE
- ⊠ — EX. PULL BOX
- ☼ — EX. TREE
- ☼ — EX. TREE TO BE REMOVED
- — EX. LANDSCAPE ROCK
- ⊙ — EX. SANITARY MANHOLE
- ⊠ — EX. CATCH BASIN
- ⊙ — EX. STORM MANHOLE
- ⊠ — EX. STORM CURB INLET
- ⊠ — EX. HEADWALL
- ⊕ — EX. UTILITY POLE
- ⊕ — EX. LIGHT POLE
- ⊠ — EX. UNDERGROUND TELEPHONE PEDESTAL
- ⊠ — EX. MAILBOX
- ⊠ — EX. SIGN
- ⊕ — EX. SURFACE DRAIN
- ⊕ — EX. SOIL BORING
- ⊕ — EX. SUBSURFACE UTILITY EXPLORATION
- — EX. TREE LINE
- — EX. GUARDRAIL
- X — EX. CHAIN LINK FENCE
- — EX. WOOD FENCE
- W — EX. WATER LINE
- WS — EX. WATER SERVICE
- WS (PLAN) — EX. WATER SERVICE (LOCATION PER RECORD PLAN)
- T — EX. UNDERGROUND TELEPHONE
- G — EX. GAS
- — EX. STORM
- SA — EX. SANITARY
- CMS — EX. COMBINED SEWER
- E — EX. UNDERGROUND ELECTRIC
- OHE — EX. OVERHEAD ELECTRIC
- OHL — EX. OVERHEAD STREET LIGHTING
- L — EX. UNDERGROUND STREET LIGHTING
- FO — EX. FIBER OPTIC
- — PR. CATCH BASIN
- ⊙ — PR. STORM MANHOLE
- ⊠ — PR. STORM CURB INLET
- ⊙ — PR. SANITARY MANHOLE
- ST — PR. STORM SEWER
- DS — PR. DOWNSPOUT LINE
- — PR. SANITARY
- SS — PR. SANITARY SERVICE
- W — PR. WATER
- WS — PR. WATER SERVICE
- FS — PR. FIRE SERVICE
- G — PR. GAS LINE
- C — PR. TELECOM
- ⊕ — PR. WATER VALVE
- ↺ — PR. CLEAN-OUT
- ↺ — PR. FLOOD ROUTE
- ↺ — PR. DRAINAGE FLOW DIRECTIONAL ARROW
- — PR. CONSTRUCTION LIMITS
- TBR — TO BE REMOVED
- TBA — TO BE ABANDONED
- TBRL — TO BE RELOCATED
- ATG — ADJUST TO GRADE
- DND — DO NOT DISTURB
- AB — ABANDONED
- CL — CENTERLINE
- ↗ — OWNERSHIP HOOK SYMBOL



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| REVISIONS | DATE | BY | CHK |
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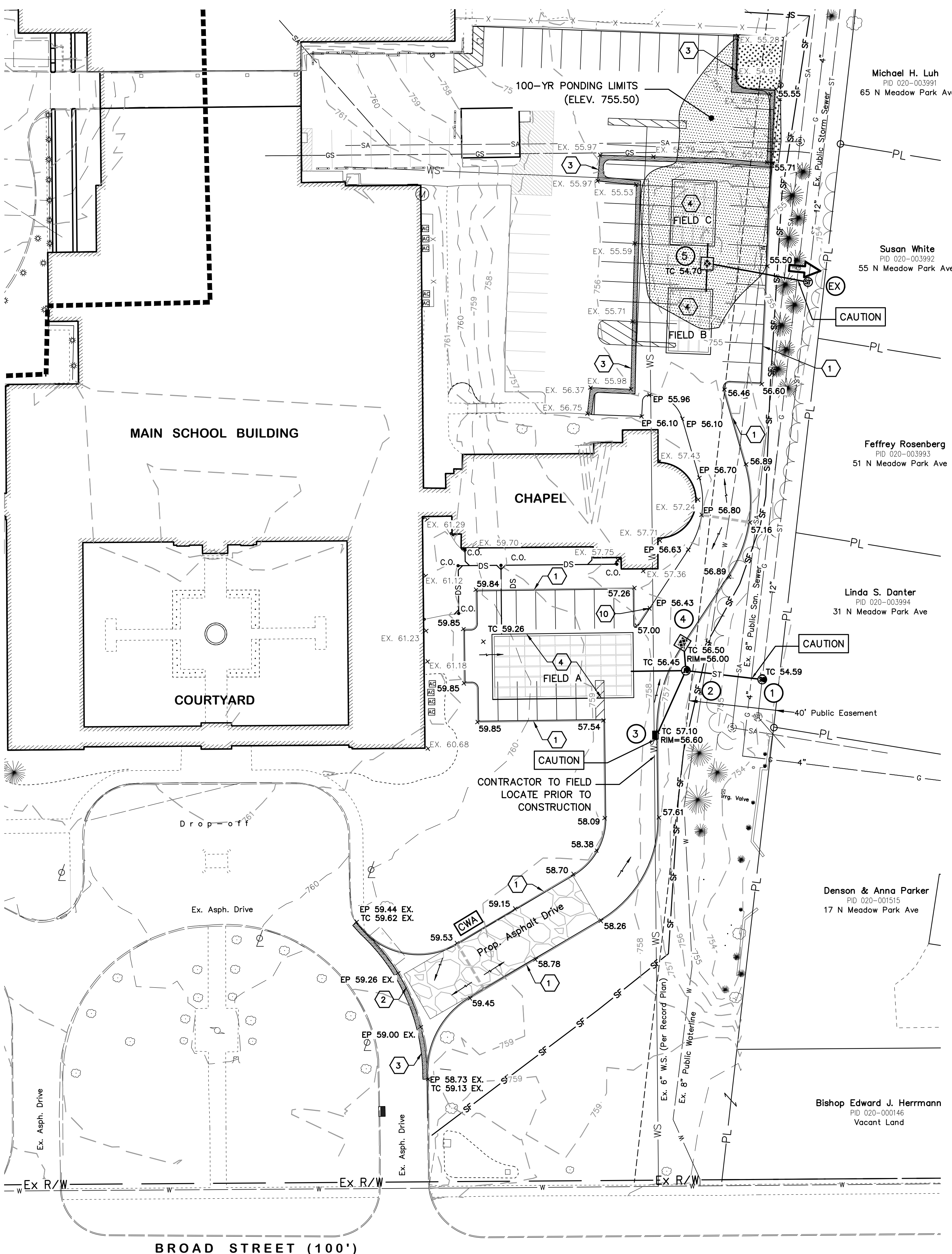
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CITY OF BEXLEY
ST. CHARLES PREPARTORY SCHOOL
2010 E. BROAD STREET

| | |
|--------------|----------|
| JOB NO. | 1034.003 |
| DESIGNED BY: | CDM |
| DRAWN BY: | CDM |
| CHECKED BY: | MEF |
| APPROVED BY: | |
| DATE: | 06-26-20 |

EXISTING CONDITIONS PLAN

| | |
|-----------|----------|
| SCALE: | 1" = 30' |
| SHEET NO. | OF |
| 3 | 9 |



KEYED NOTES

- 1 PROP CURB
- 2 EXISTING CURB TO BE REMOVED
- 3 SAWCUT LINE
- 4 PROPOSED UNDERGROUND DETENTION SYSTEM (SEE SHEET 7 FOR DETAILS)
- 5 PROP. 8" DOWNSPOUT @ 1.0% MIN.
- 6 PROP. CLEANOUT (FOR DOWNSPOUT)
- 7 EX. CATCH BASIN TO BE REMOVED
- 8 EX. 8" STORM PIPE TO BE REMOVED
- 9 PROP. STRIPING
- 10 TAPER CURB 6" TO 0" IN 5 FEET

LEGEND

- PROPOSED MAJOR FLOOD ROUTE (GREATER THAN 100-YR EVENT)
- PROPOSED CONCRETE WALK/PAD
- PROPOSED 100-YR PONDING LIMITS (ELEV. 755.50)
- GRADE BREAK
- EXISTING/PROPOSED FLOW DIRECTION ARROW

SWPPP LEGEND

- INLET PROTECTION
- CONCRETE WASHOUT AREA
- PR. SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE (PER STD DWG 2230)

NOTES:

1. ADD 700 FEET TO ALL SPOT ELEVATIONS FOR NAVD88 DATUM ELEVATIONS.
2. ALL SPOT ELEVATIONS ALONG CURB REPRESENT TOP OF CURB ELEVATION UNLESS OTHERWISE NOTED.
3. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
4. SUB-GRADE: CONTRACTOR IS RESPONSIBLE FOR REVIEWING GEOTECHNICAL REPORT SPECIFIC TO THE PROJECT SITE AND FOLLOWING THE SITE PREPARATION RECOMMENDATIONS, INCLUDING THE REMOVAL AND MITIGATION OF UNSUITABLE MATERIAL. IF A GEOTECHNICAL REPORT WAS NOT PREPARED FOR THE PROJECT SITE, CONTRACTOR SHALL TAKE ALL RISKS ASSOCIATED WITH SUBSURFACE FINDINGS.
5. FLOOD ZONE: X (FIRM MAP 39049C0327K)

STANDARD DUTY ASPHALT PAVEMENT BUILD-UP:
 1.5" ITEM 448 SURFACE COURSE
 TACK COAT @ 0.08 GAL/SY - ITEM 407
 1.5" ITEM 448 INTERMEDIATE COURSE
 8" ITEM 304 AGGREGATE BASE COURSE
 COMPACTED SUBGRADE PER GEOTECHNICAL REPORT

HEAVY DUTY ASPHALT PAVEMENT BUILD-UP:
 1.5" ITEM 448 SURFACE COURSE
 TACK COAT @ 0.08 GAL/SY - ITEM 407
 2.5" ITEM 448 INTERMEDIATE COURSE
 10" ITEM 304 AGGREGATE BASE COURSE
 COMPACTED SUBGRADE PER GEOTECHNICAL REPORT

M:\1034003-StCharles\DWG\Production\Drawings\Site Development\Plan\Grading\PLAN.dwg ~ GRADING PLAN, LAST EDITED BY CDM ON 6/26/20

| REVISIONS | DATE | BY | CHK. |
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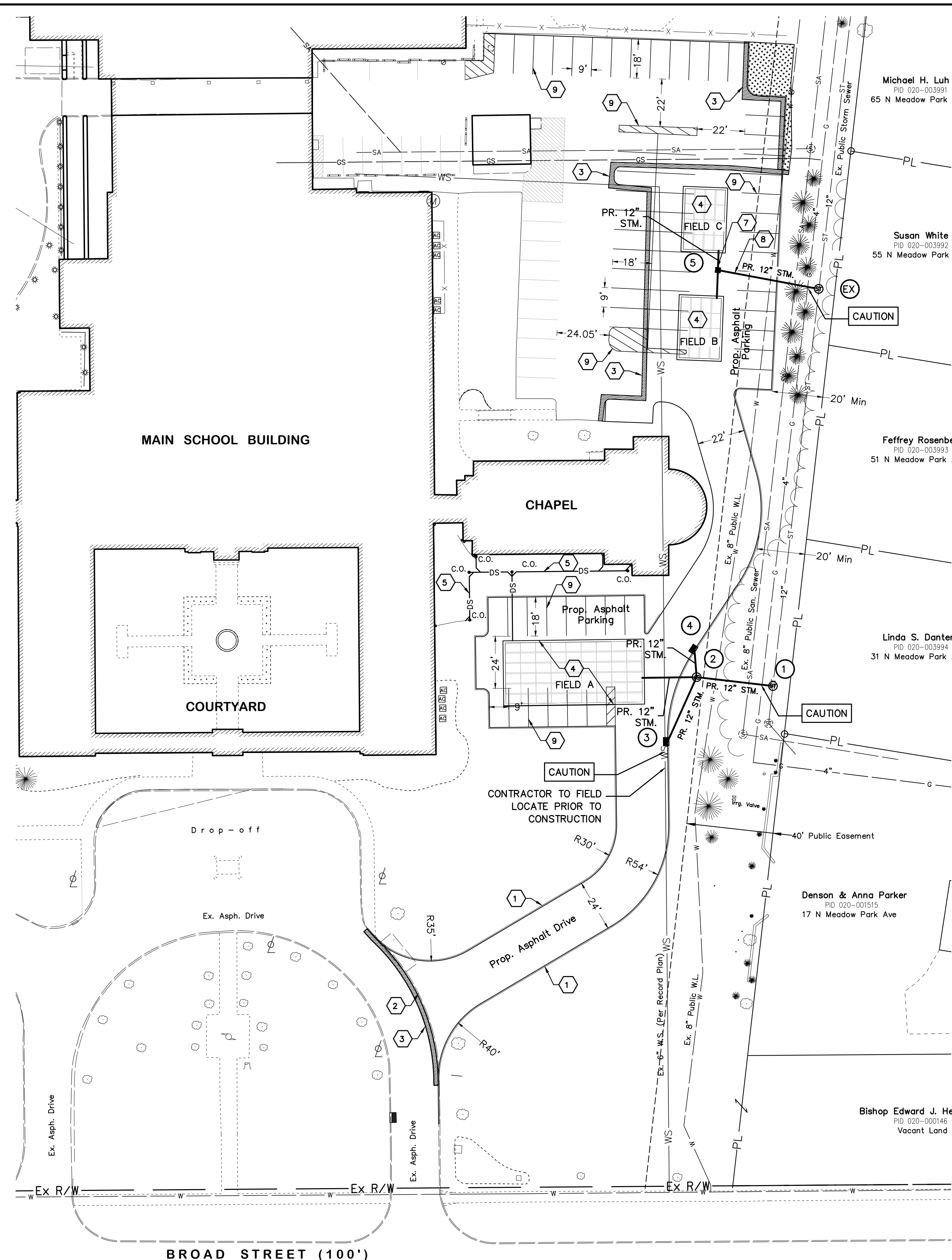
CITY OF BEXLEY
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| DATE: | 06-26-20 |

SITE GRADING PLAN

| | |
|-----------|----|
| SCALE: | |
| 1" = 30' | |
| SHEET NO. | OF |
| 5 | 9 |

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KEYED NOTES

- 1 PROP CURB
- 2 EXISTING CURB TO BE REMOVED
- 3 SAWCUT LINE
- 4 PROPOSED UNDERGROUND DETENTION SYSTEM (SEE SHEET 7 FOR DETAILS)
- 5 PROP. 8" DOWNSPOUT @ 1.0% MIN.
- 6 PROP. CLEANOUT (FOR DOWNSPOUT)
- 7 EX. CATCH BASIN TO BE REMOVED
- 8 EX. 8" STORM PIPE TO BE REMOVED
- 9 PROP. STRIPING

LEGEND

- FULL DEPTH PAVEMENT REPLACEMENT
- EXISTING PAVEMENT (TO BE REMOVED)

POST CONSTRUCTION MAINTENANCE SCHEDULE

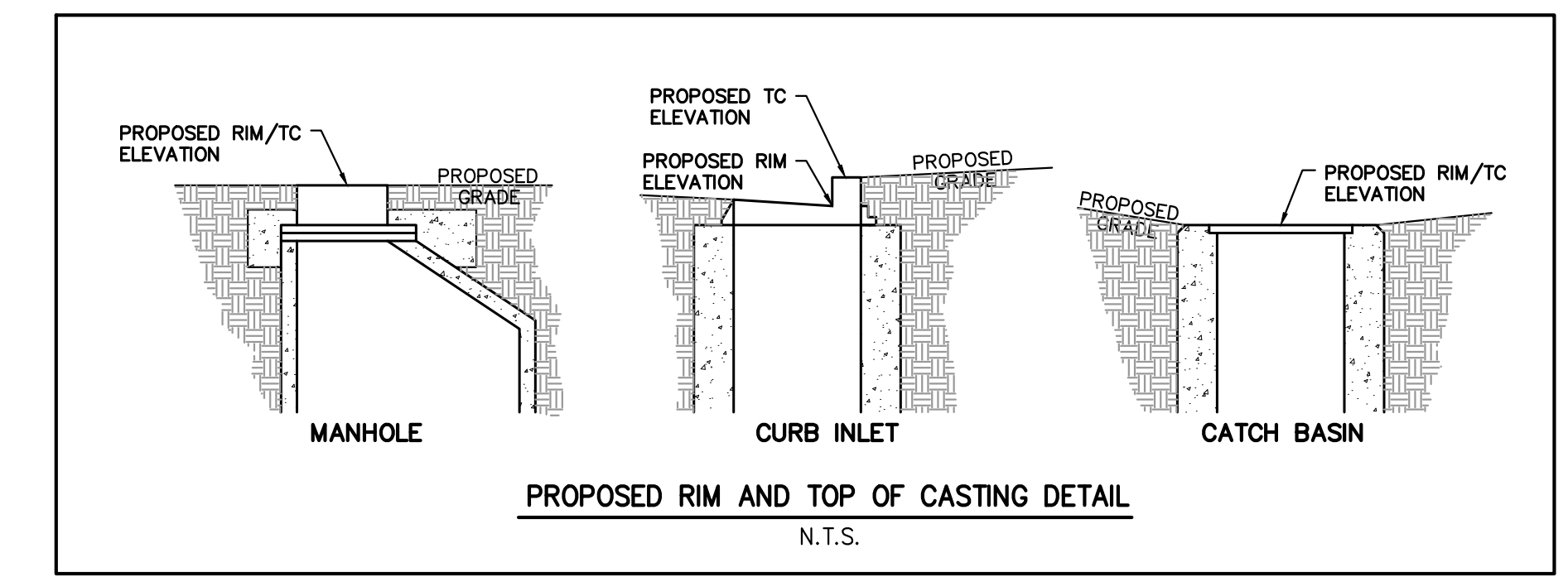
| INSPECTION ITEM | MAINTENANCE PROCEDURE | FREQUENCY OF INSPECTION |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STORM TECH SC-740 | <p>STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT</p> <p>A. INSPECTION PORTS</p> <p>A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN</p> <p>A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED</p> <p>A.3. USING A FLASHLIGHT AND STADIA ROD (SLUDGE JUDGE OR SIMILAR DEVICE), MEASURE DEPTH OF SEDIMENT AND RECORD RESULTS ON MAINTENANCE LOG.</p> <p>A.4. IF SEDIMENT IS AT, OR ABOVE, 3-INCH DEPTH, PROCEED TO STEP 2. IF NOT PROCEED TO STEP 3</p> <p>B. ALL CHAMBER ROWS</p> <p>B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW</p> <p>B.2. USING A FLASHLIGHT, INSPECT DOWN ISOLATOR ROW THROUGH OUTLET PIPE</p> <p>B.2.1. MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID CONFINED SPACE ENTRY</p> <p>B.2.2. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE</p> <p>B.3. IF SEDIMENT IS AT OR ABOVE 3-INCH DEPTH, PROCEED TO STEP 2. IF NOT PROCEED TO STEP 3</p> <p>STEP 2) CLEAN OUT CHAMBER ROW USING THE JETVAC PROCESS</p> <p>A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING NOZZLE SPREAD OF 45 INCHES OR MORE IS PREFERABLE</p> <p>B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN</p> <p>C. VACUUM STRUCTURE SUMP AS REQUIRED.</p> <p>STEP 3) REPLACE ALL CAPS, LIDS AND COVERS, RECORD OBSERVATIONS AND ACTIONS</p> <p>STEP 4) INSPECT AND CLEAN CATCH BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.</p> | <p>EVERY 6 MONTHS FOR FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.</p> <p>CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.</p> |

POST-CONSTRUCTION MAINTENANCE NARRATIVE

THE STORM SEWER / DETENTION SYSTEM WILL REQUIRE ONGOING MAINTENANCE AND INSPECTION BY THE OWNER. CATCH BASINS SHALL BE INSPECTED EVERY THREE MONTHS TO INSURE THE STRUCTURE DOES NOT CONTAIN DEBRIS. IF THE STRUCTURE CONTAINS DEBRIS, THE MATERIAL SHALL BE REMOVED AND DISPOSED OF. VISUALLY INSPECT UNDERGROUND DETENTION MONTHLY AND AFTER EVERY RAINFALL EVENT OF MORE THAN 1/2 INCH TO ENSURE SYSTEM IS DRAINING APPROPRIATELY. COMPLETE FULL SYSTEM FLUSH ANNUALLY.

DETENTION SYSTEM MAINTENANCE SCHEDULE

| ACTIVITY | SCHEDULE |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1. VISUALLY INSPECT CATCH BASIN SUMPS. | QUARTERLY AND AFTER RAINFALLS GREATER THAN ONE-HALF INCH MINIMUM: ANNUALLY |
| 2. VISUALLY INSPECT OUTLET CONTROL ORIFICE IN MH 1 & CB 5. | |
| 3. CLEAN SUMPS WHEN MORE THAN TWO-THIRDS FULL OF SEDIMENT/DEBRIS. | |
| 4. REMOVE ANY BLOCKAGE TO OUTLET CONTROL DEVICES. | |
| 5. REPLACE/REPAIR ANY DAMAGED COMPONENTS IMMEDIATELY. | |
| 1. CLEAN AND JET STORM SEWERS | ANNUALLY |



| REVISIONS | DATE | BY | CHK |
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CITY OF BEXLEY
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| DRAWN BY: | CDM |
| CHECKED BY: | MEF |
| APPROVED BY: | |
| DATE: | 06-26-20 |

SITE LAYOUT AND UTILITY PLAN

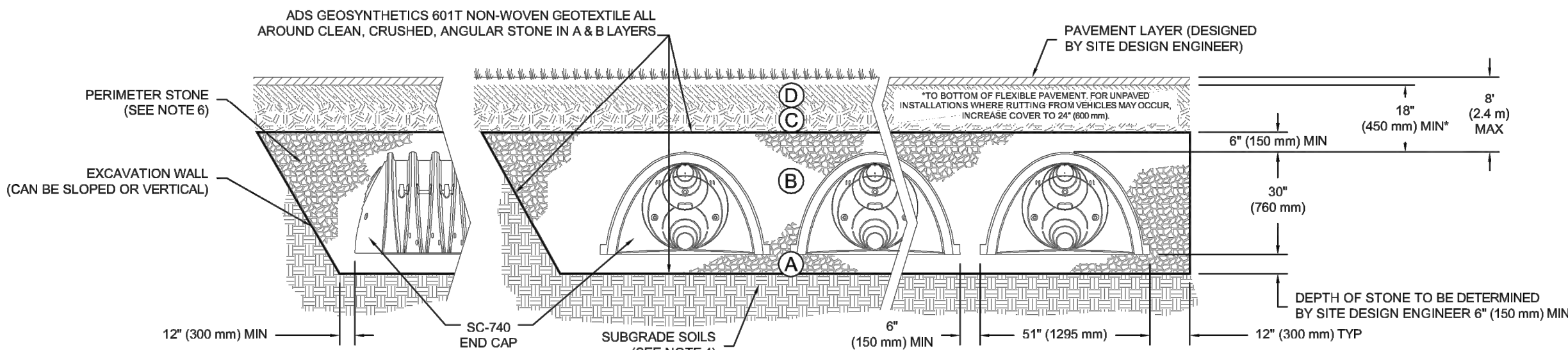
SCALE:
1" = 30'

| | |
|-----------|----|
| SHEET NO. | OF |
| 6 | 9 |

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

| MATERIAL LOCATION | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D | FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| C | INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN) DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57 | NO COMPACTION REQUIRED. |
| A | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3} |

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

AGGREGATE CERTIFICATION NOTE: CONTRACTOR TO PROVIDE AGGREGATE SIEVE ANALYSIS FROM THE SUPPLIER TO COLUMBUS INSPECTOR FOR REVIEW. AGGREGATE PROVIDED MUST MEET CITY OF COLUMBUS SPECIFICATION ITEM 703.

THE CONTRACTOR SHALL PROVIDE THE CITY CERTIFIED REPORTS FROM A CERTIFIED LABORATORY VERIFYING THE AGGREGATE FOR THE WATER DETENTION LAYERS (A AND B) OF THE STORMWATER DETENTION FACILITY MEETS OR EXCEEDS 40% VOID SPACE.

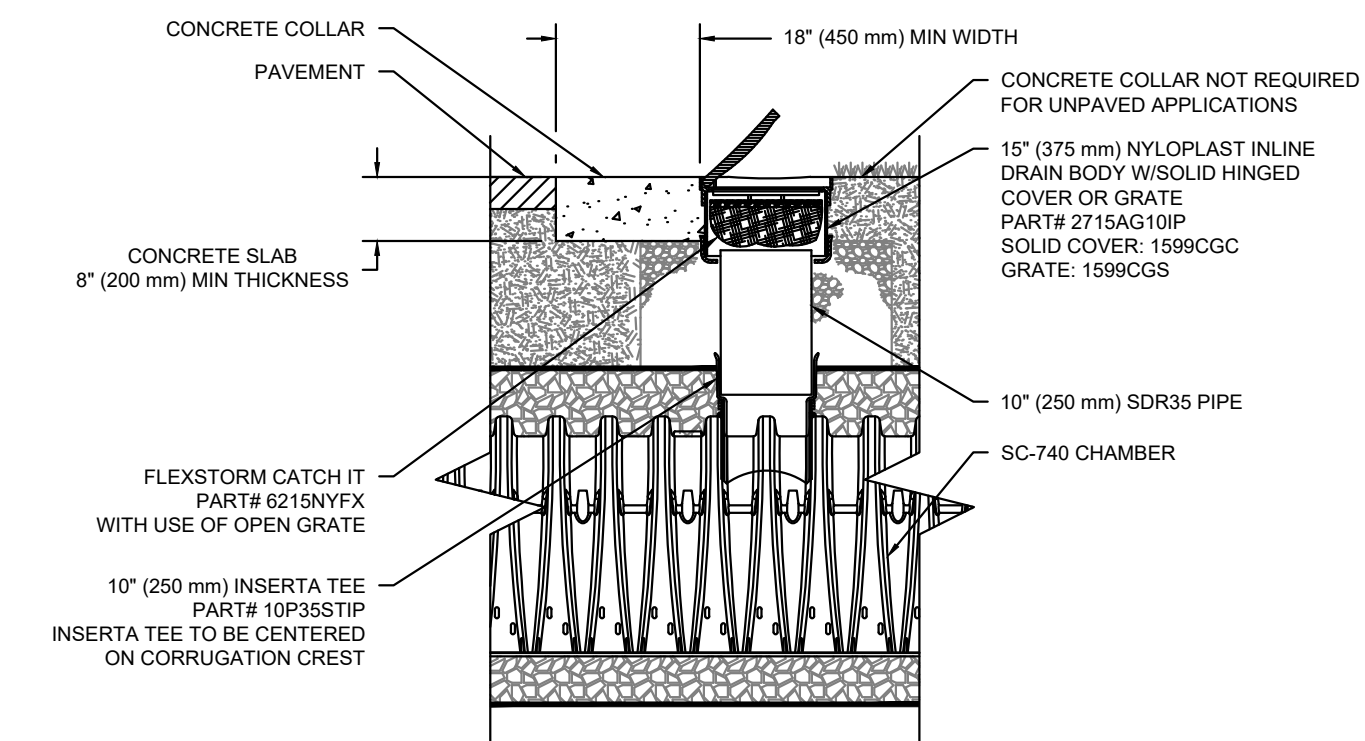
| CHAMBER LOCATION | NUMBER OF ROWS | LENGTH | WIDTH | HEIGHT COVER AGGREGATE | HEIGHT BASE AGGREGATE | DETENTION VOLUME CHAMBERS | DETENTION VOLUME AGGREGATE | WATER QUALITY VOLUME | TOTAL DETENTION VOLUME |
|------------------|----------------|--------|--------|------------------------|-----------------------|---------------------------|----------------------------|----------------------|------------------------|
| FIELD A | 6 ROWS | 67.70' | 30.00' | 6" | 6" | 2,481 C.F. | 1,851 C.F. | N/A | 4,332 C.F. |
| FIELD B | 4 ROWS | 32.10' | 20.50' | 6" | 6" | 735 C.F. | 628 C.F. | N/A | 1,363 C.F. |
| FIELD C | 4 ROWS | 32.10' | 20.50' | 6" | 6" | 735 C.F. | 628 C.F. | N/A | 1,363 C.F. |

SC-740 ELEVATIONS (FIELD A)

| | |
|----------------------------|--------|
| TOP OF STONE | 754.50 |
| TOP OF CHAMBER | 754.00 |
| TOP 12" MANIFOLD INVERT | 753.20 |
| TOP 12" MANIFOLD INVERT | 752.70 |
| 12" ISOLATOR ROW INVERT | 751.65 |
| 12" BOTTOM MANIFOLD INVERT | 751.65 |
| BOTTOM OF CHAMBER | 751.50 |
| BOTTOM OF STONE | 751.00 |

SC-740 ELEVATIONS (FIELD B & C)

| | |
|----------------------------|--------|
| TOP OF STONE | 753.35 |
| TOP OF CHAMBER | 752.85 |
| TOP 12" MANIFOLD INVERT | 752.20 |
| TOP 12" MANIFOLD INVERT | 751.70 |
| 12" ISOLATOR ROW INVERT | 750.50 |
| 12" BOTTOM MANIFOLD INVERT | 750.50 |
| BOTTOM OF CHAMBER | 750.35 |
| BOTTOM OF STONE | 749.85 |



SC-740 10" INSPECTION PORT DETAIL
NTS

SC-740 STANDARD CROSS SECTION

REV: 01/19/18
 DRW: JLM
 DATE: 11/19/14
 PROJECT #: _____
 CHECKED: JLM

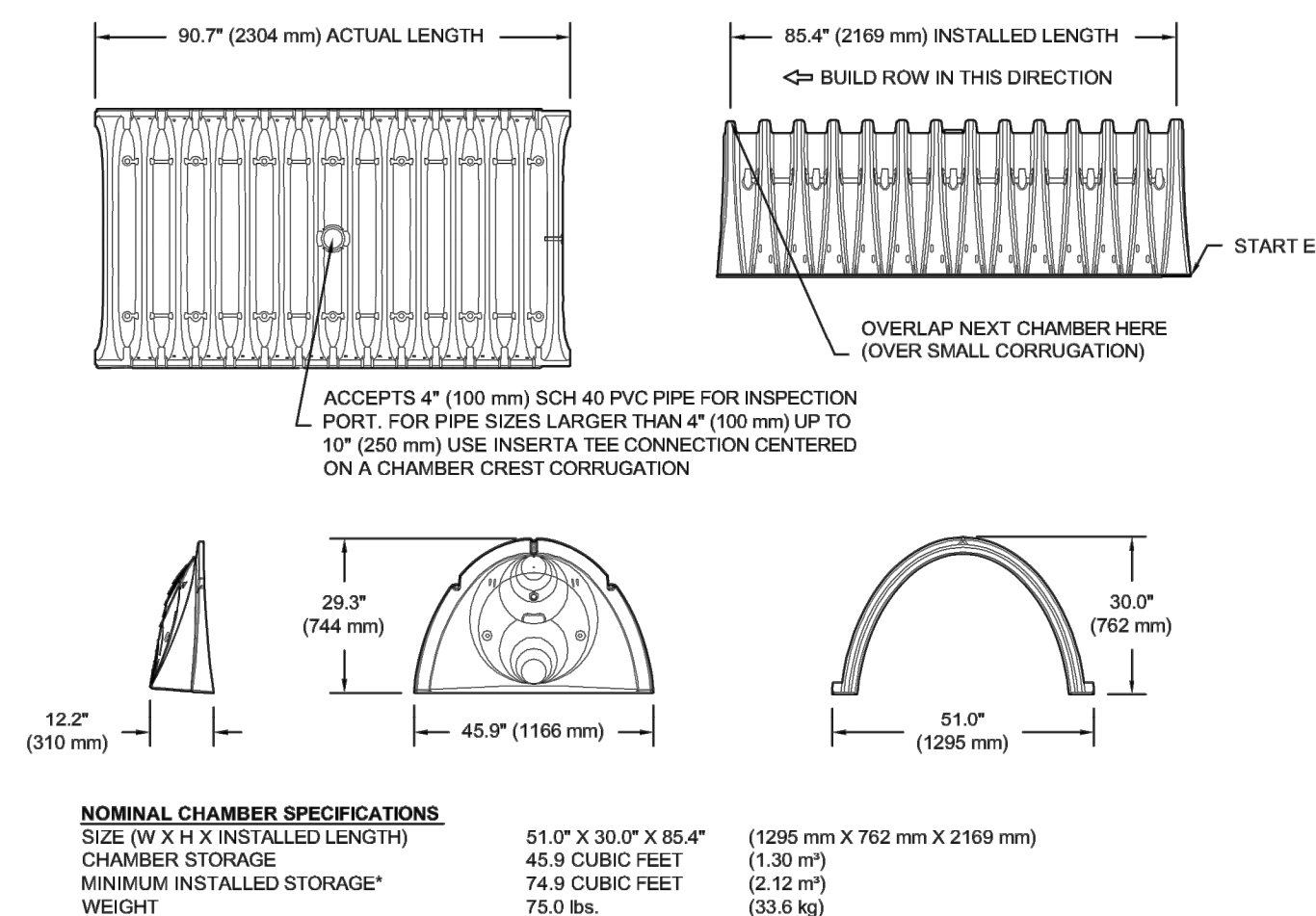
DESCRIPTION: _____
 UPDATE: _____
 DRW: JLM
 CHK: _____

Stormtech
 4640 TRULEMAN BLVD
 HILLIARD, OH 43026
 614-882-2894 | WWW.STORMTECH.COM
 1-800-735-7473

DS
 DESIGN SERVICES
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SHEET
1 OF 1

SC-740 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

| SIZE (W X H X INSTALLED LENGTH) | 51.0" X 30.0" X 85.4" | (1295 mm X 762 mm X 2169 mm) |
|---------------------------------|-----------------------|------------------------------|
| CHAMBER STORAGE | 45.9 CUBIC FEET | (1.30 m ³) |
| MINIMUM INSTALLED STORAGE* | 74.9 CUBIC FEET | (2.12 m ³) |
| WEIGHT | 75.0 lbs. | (33.6 kg) |

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "I"

| PART # | STUB | A | B | C |
|-----------------------------|--------------|----------------|----------------|--------------|
| SC740EPE06T / SC740EPE06TPC | 6" (150 mm) | 10.9" (277 mm) | 18.5" (470 mm) | — |
| SC740EPE08B / SC740EPE08BPC | 8" (200 mm) | 12.2" (310 mm) | 16.5" (419 mm) | 0.5" (13 mm) |
| SC740EPE08T / SC740EPE08TPC | 8" (200 mm) | 12.2" (310 mm) | — | 0.6" (15 mm) |
| SC740EPE10B / SC740EPE10BPC | 10" (250 mm) | 13.4" (340 mm) | — | 0.7" (18 mm) |
| SC740EPE10T / SC740EPE10TPC | 10" (250 mm) | 13.4" (340 mm) | — | — |
| SC740EPE10B / SC740EPE10BPC | 10" (250 mm) | 13.4" (340 mm) | 12.5" (318 mm) | — |
| SC740EPE12T / SC740EPE12TPC | 12" (300 mm) | 14.7" (373 mm) | — | 1.2" (30 mm) |
| SC740EPE12B / SC740EPE12BPC | 12" (300 mm) | 14.7" (373 mm) | — | — |
| SC740EPE15T / SC740EPE15TPC | 15" (375 mm) | 18.4" (467 mm) | 9.0" (229 mm) | — |
| SC740EPE15B / SC740EPE15BPC | 15" (375 mm) | 18.4" (467 mm) | — | 1.3" (33 mm) |
| SC740EPE18T / SC740EPE18TPC | 18" (450 mm) | 19.7" (500 mm) | 5.0" (127 mm) | — |
| SC740EPE18B / SC740EPE18BPC | 18" (450 mm) | 19.7" (500 mm) | — | 1.6" (41 mm) |
| SC740EPE24B* | 24" (600 mm) | 18.5" (470 mm) | — | 0.1" (3 mm) |

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2894.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

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| REVISIONS | DATE | BY | CHK. |
|-----------|------|----|------|
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CITY OF BEXLEY

ST. CHARLES PREPARTORY SCHOOL

2010 E. BROAD STREET

JOB NO. 1034.003

DESIGNED BY: CDM

DRAWN BY: CDM

CHECKED BY: MEF

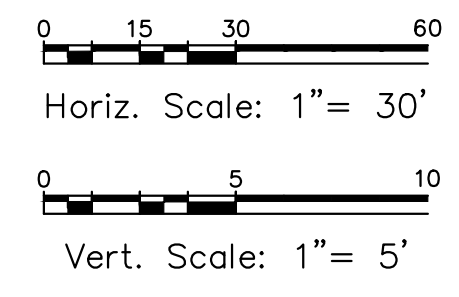
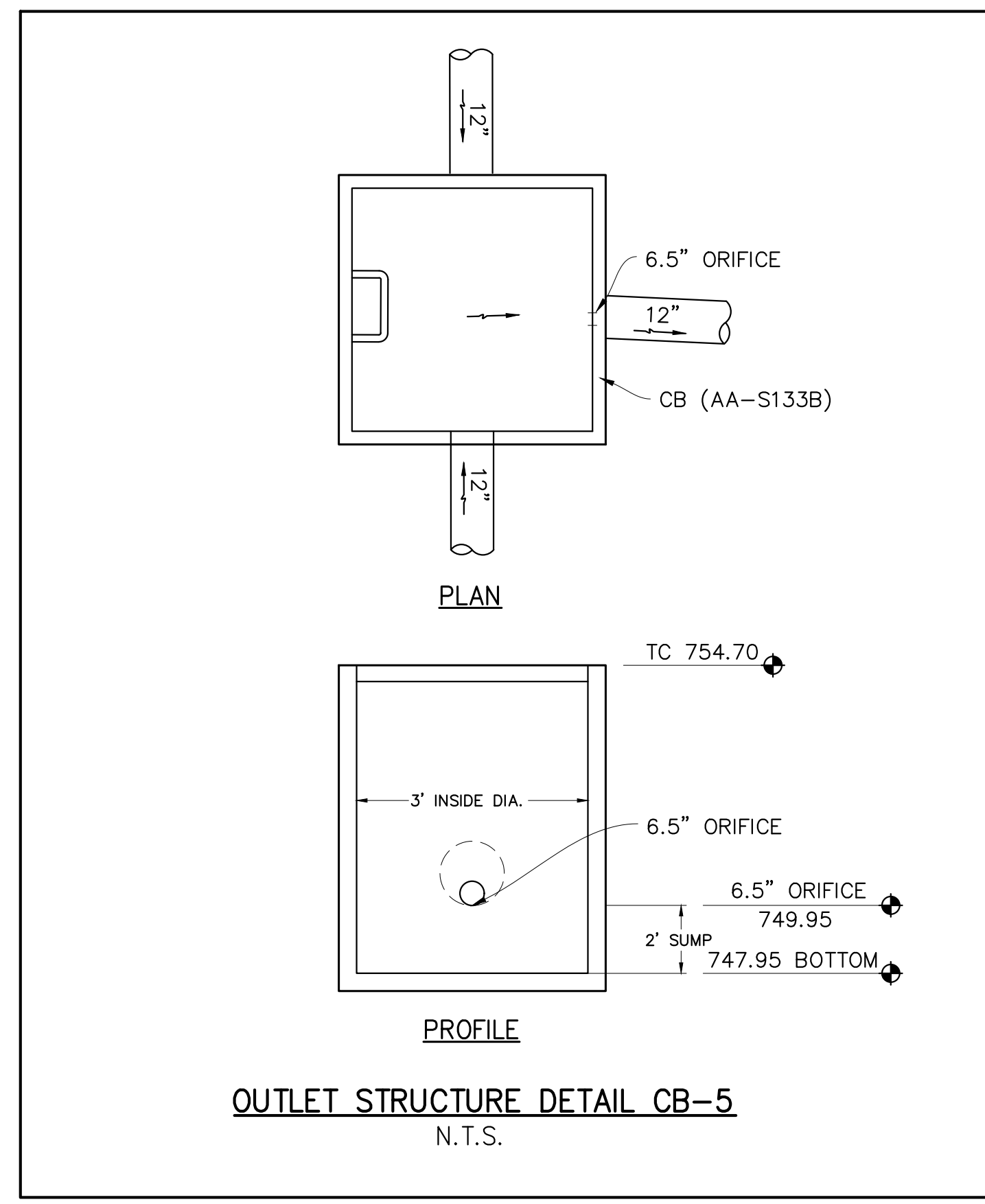
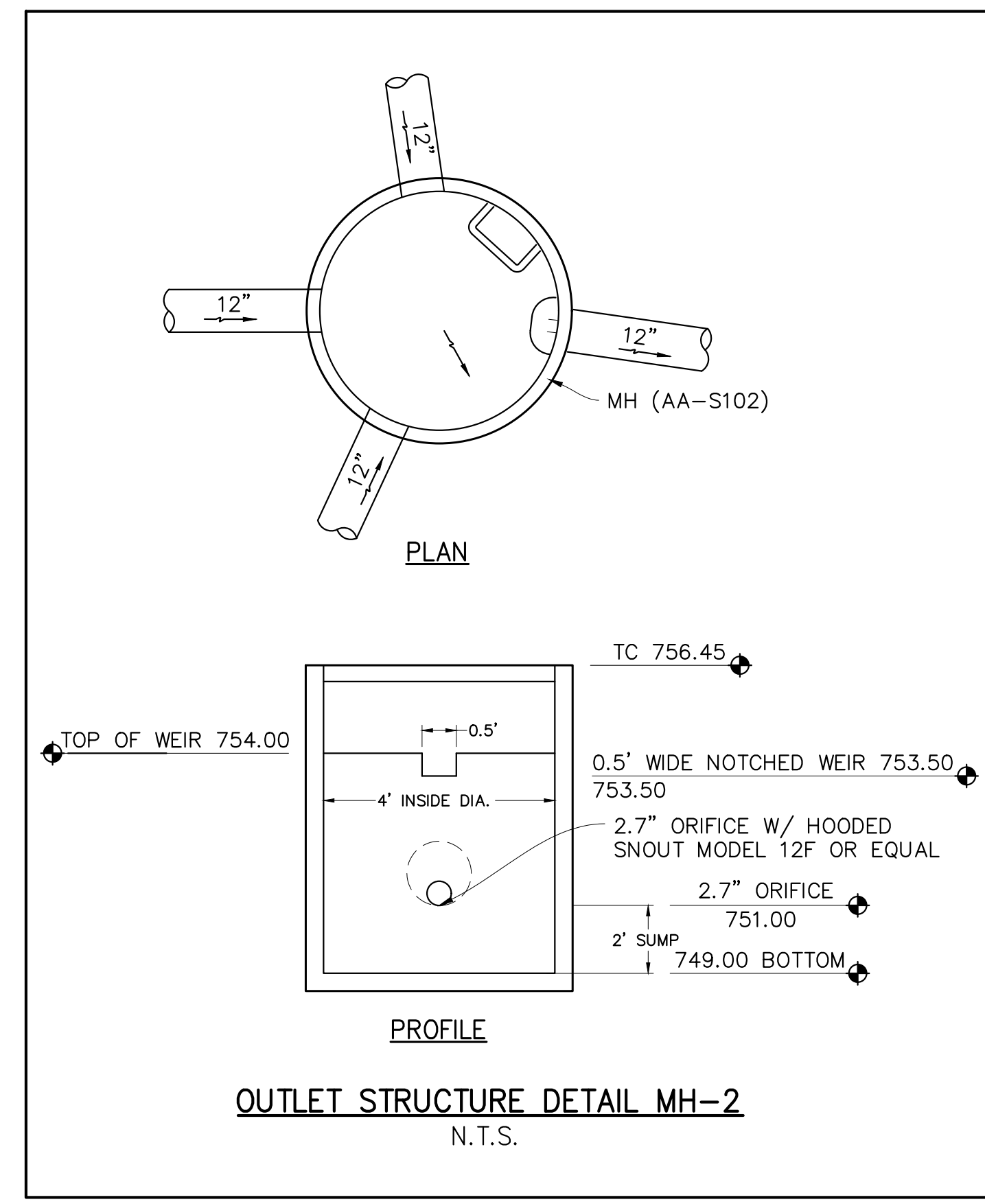
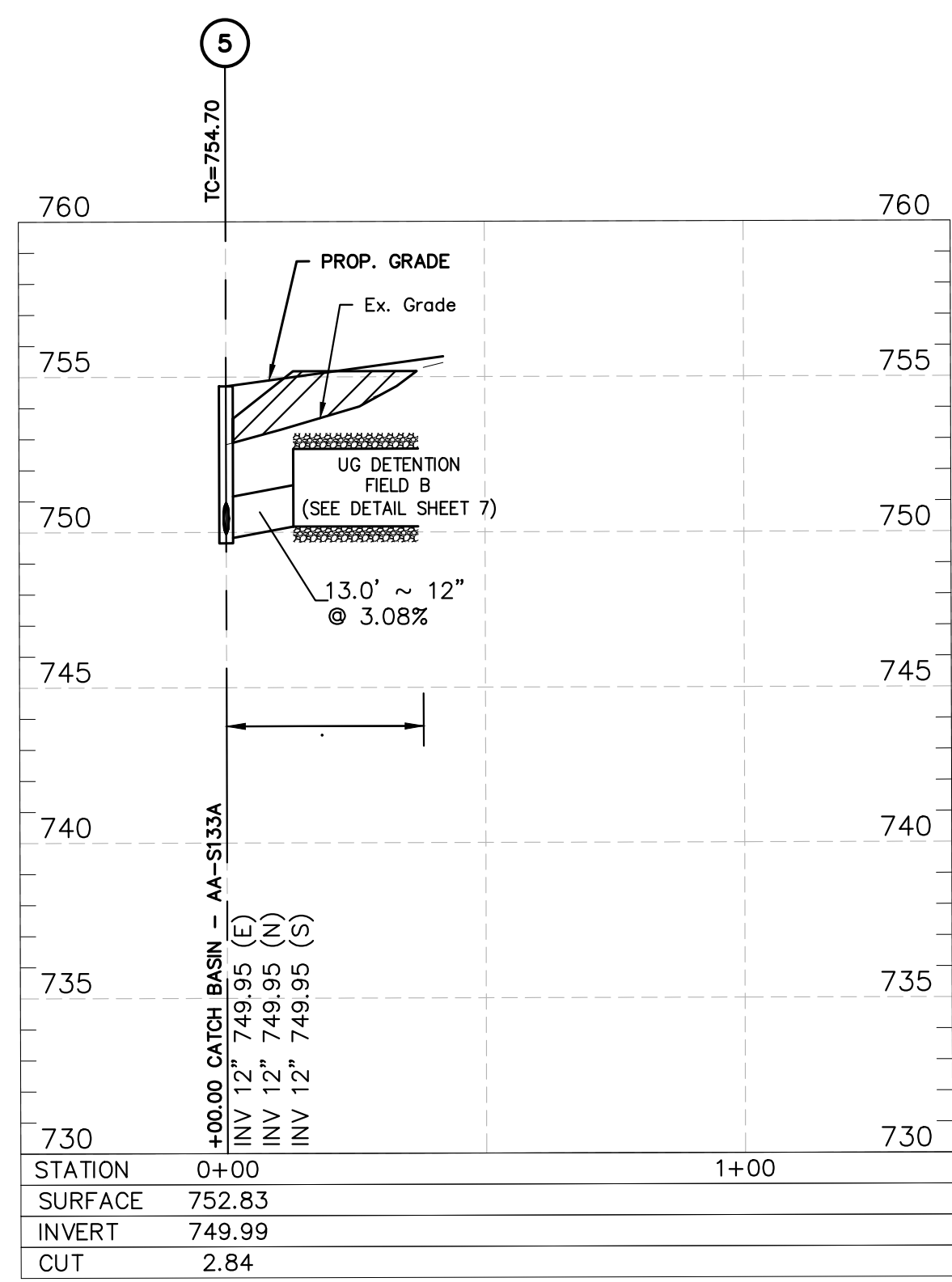
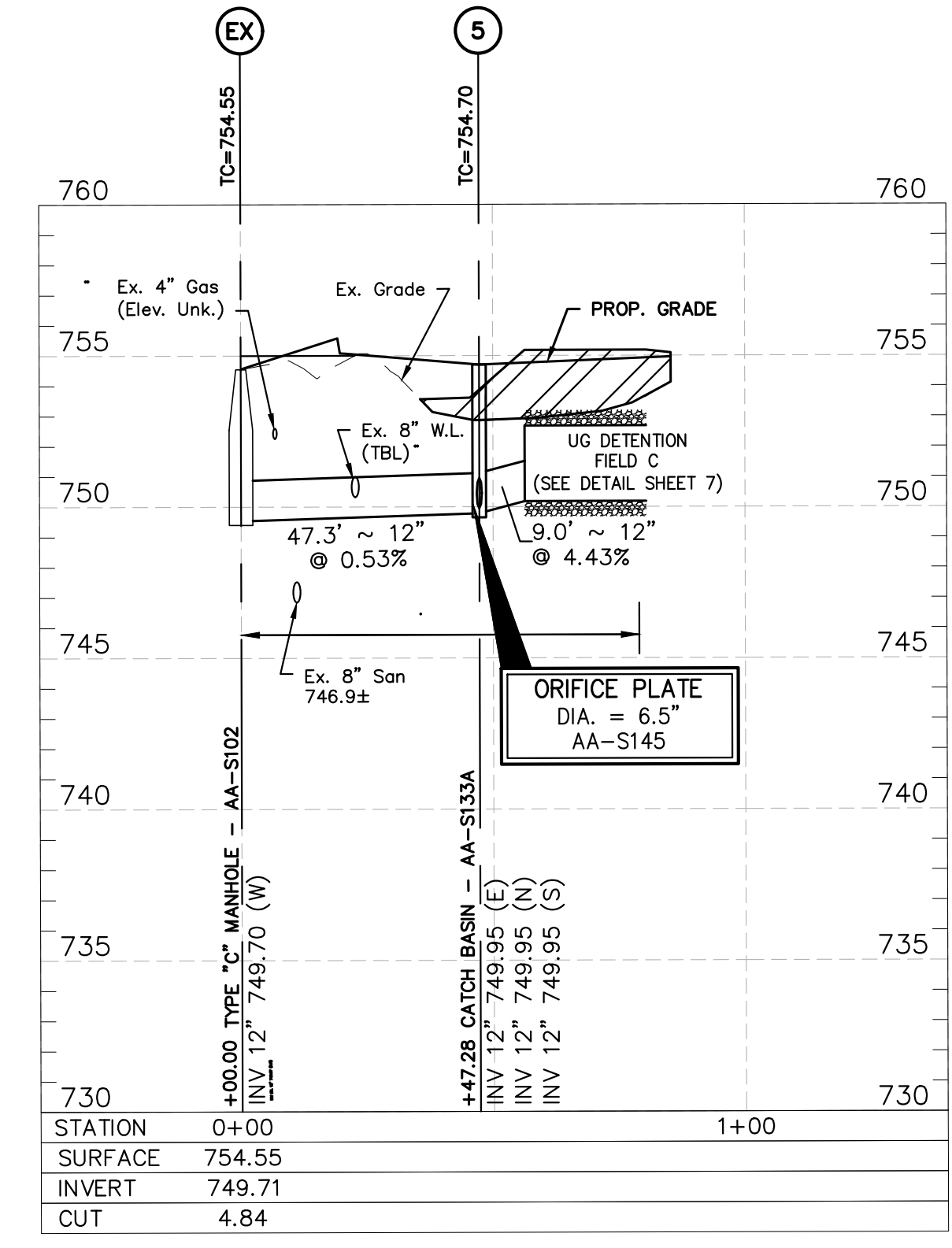
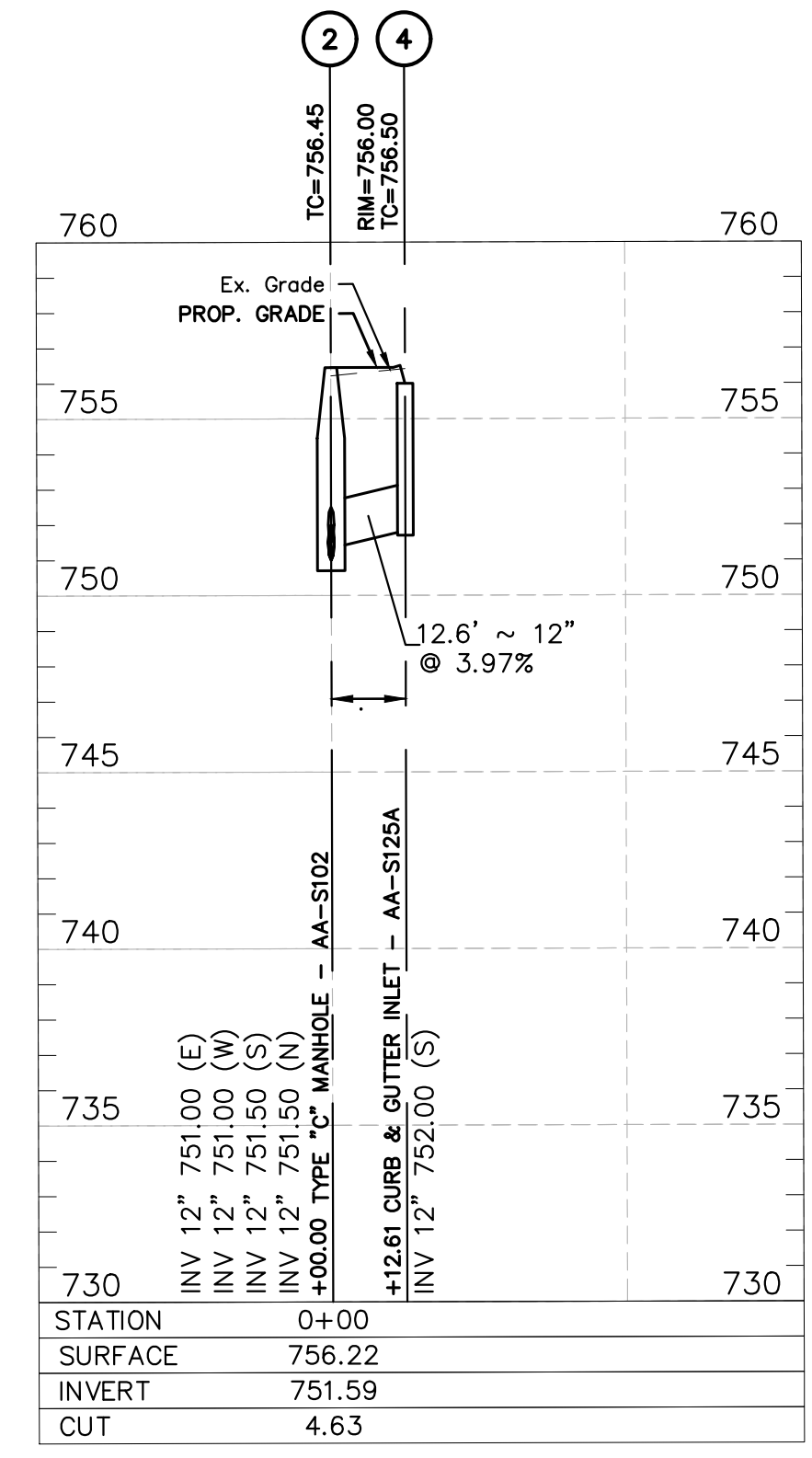
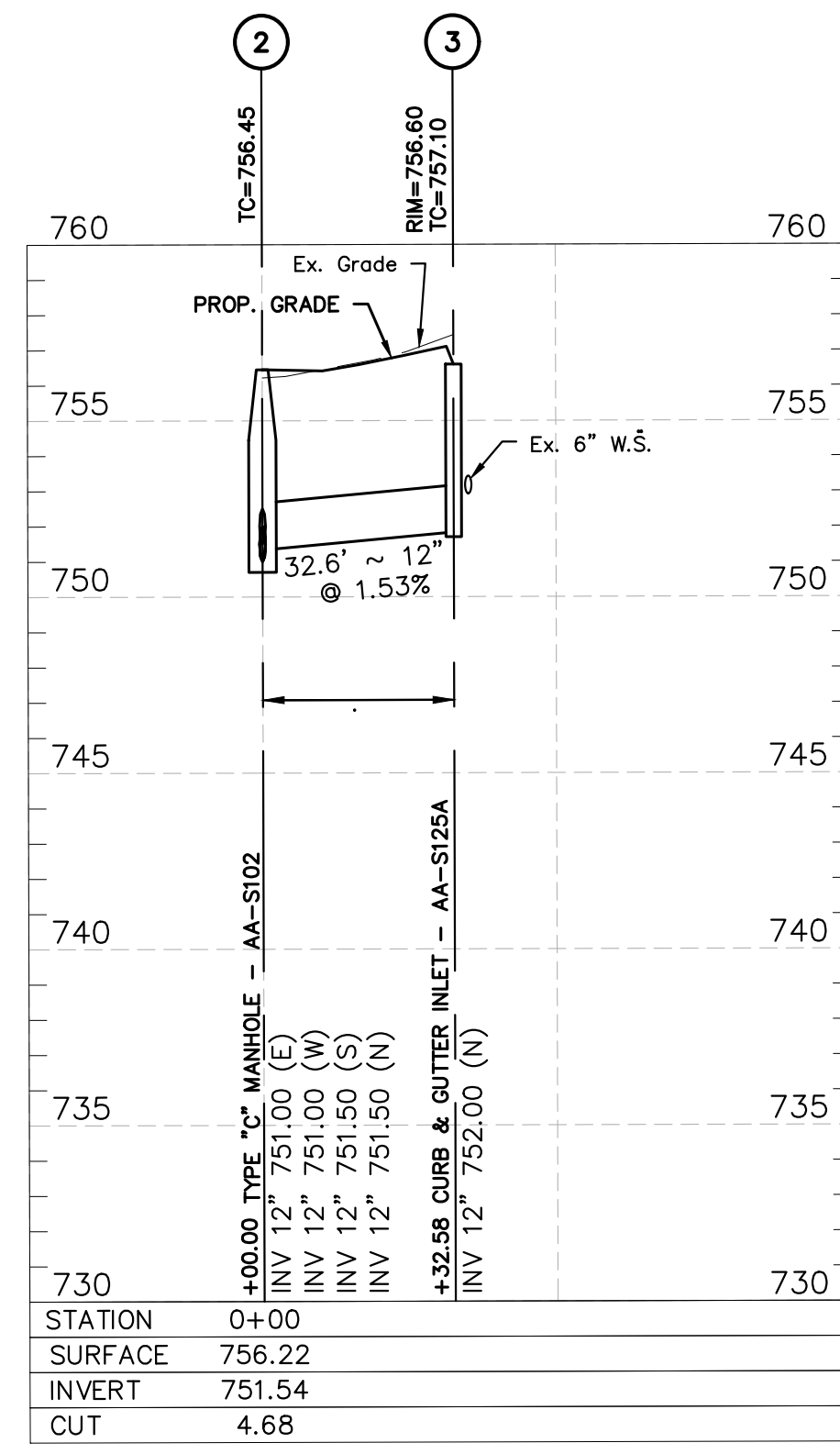
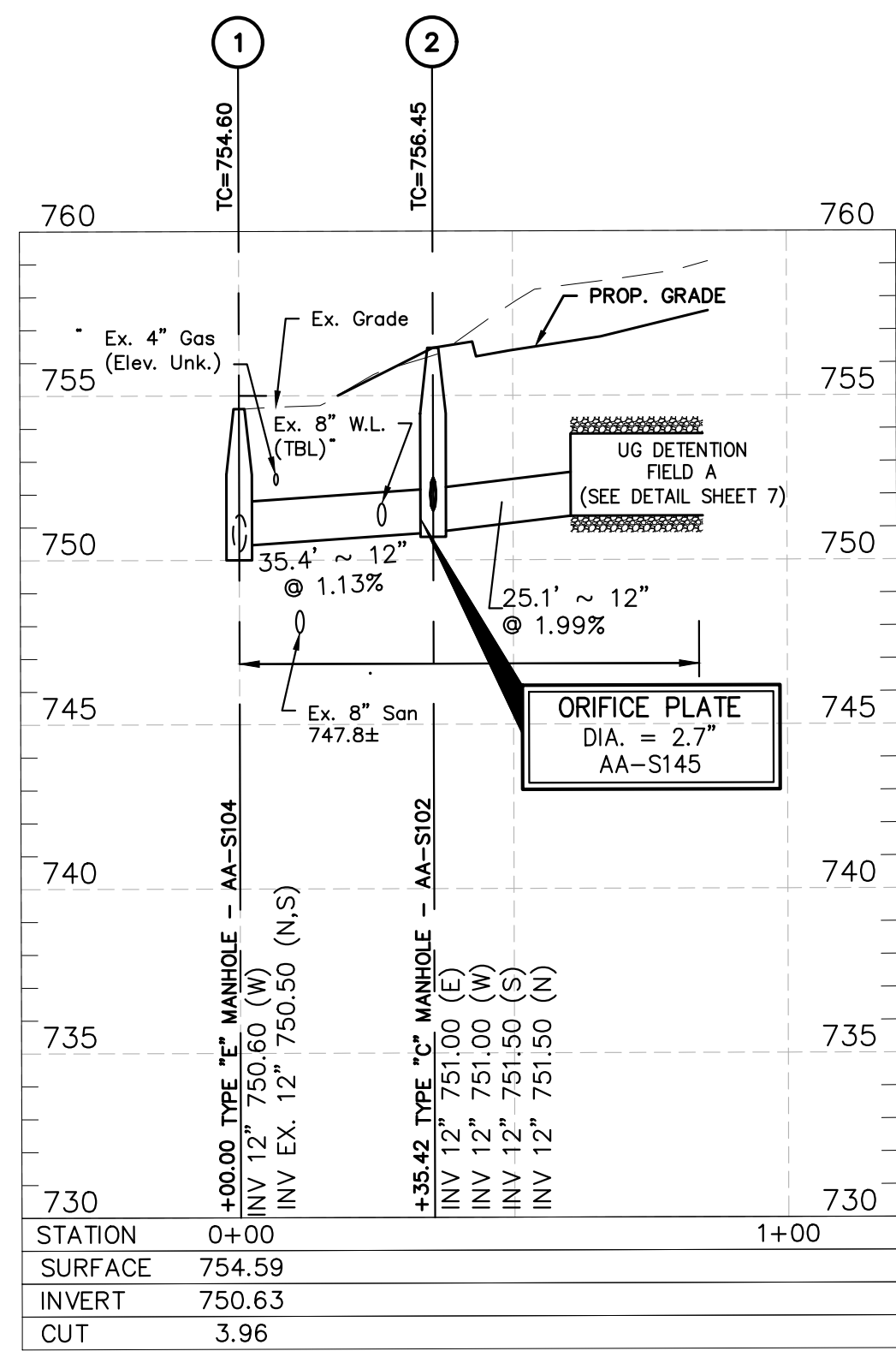
APPROVED BY: _____

DATE: 06-26-20

SCALE: _____

SHEET NO. 7 OF 9

DETAILS



EMBEDMENT STONE, AASHTO M43

COMPACTED FILL AREA

NOTE: PIPE INSTALLED IN AREAS OF FILL SHALL REQUIRE THE COMPACTED FILL TO BE PLACED 2.5' ABOVE THE TOP OF THE PIPE OR TO PROPOSED GRADE, WHICHEVER IS LESS, PRIOR TO PIPE INSTALLATION. (SEE FILL AREAS ON PROFILES OF SUCH KNOWN LOCATIONS)

NOTE: TC REPRESENTS THE TOP OF CASTING ELEVATION OF STORM STRUCTURES. TC AND RIM ELEVATIONS ARE NOT THE SAME FOR CURB INLETS.

- NOTE:**
- * ITEM 911 COMPACTED BACKFILL
 - ** CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITY PRIOR TO CONSTRUCTION
- TBL = TO BE LOWERED

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| REVISIONS | DATE | BY | CHK |
|-----------|------|----|-----|
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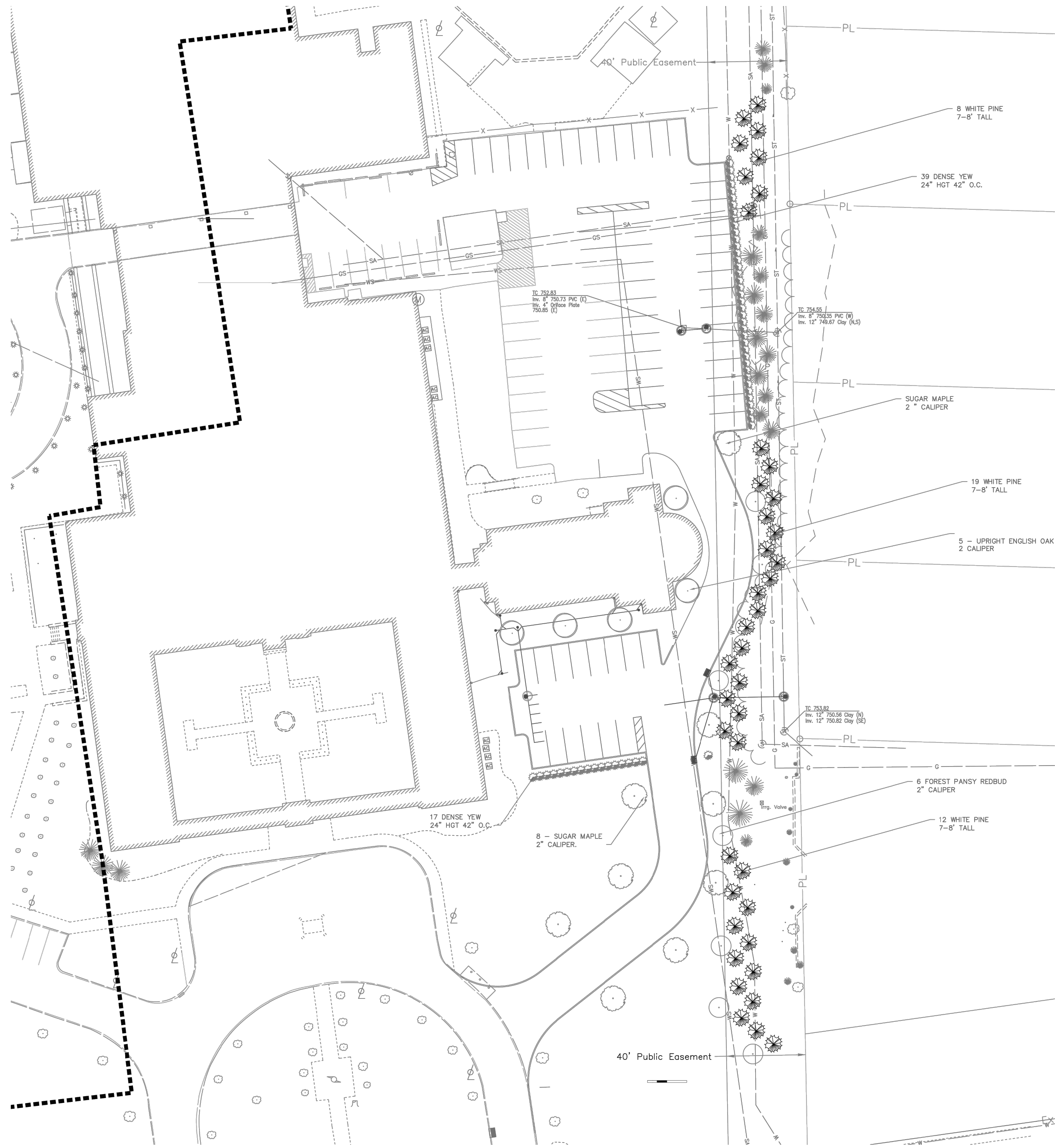
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| JOB NO. | 1034.003 |
| DESIGNED BY: | CDM |
| DRAWN BY: | CDM |
| CHECKED BY: | MEF |
| APPROVED BY: | |
| DATE: | 06-26-20 |

STORM SEWER PROFILES

SCALE:
1" = 30'

| | |
|-----------|----|
| SHEET NO. | OF |
| 8 | 9 |

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| PLANTING SCHEDULE | | | |
|---------------------|----------------------------------|-------|----------|
| COMMON NAME | BOTANICAL NAME | SIZE | QUANTITY |
| SHADE TREE | | | |
| SUGAR MAPLE | ACER SACCARUM | 2" | 9 |
| UPRIGHT ENGLISH OAK | QUERCUS RUBRUM 'REGAL PRINCE' | 2" | |
| ORNAMENTAL TREE | | | |
| FOREST PANSY REDBUD | CERCIS CANADENSIS 'FOREST PANSY' | 0'-2" | 6 |
| EVERGREEN TREES | | | |
| EASTERN WHITE PINE | PINUS STROBUS | 7-8' | 39 |
| SHRUBS | | | |
| DENSE YEW | TAXUS X MEDIA 'DENSIFORMIS' | 2'-0" | 56 |

| REVISIONS | BY |
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CITY OF BEXLEY, OHIO
ST. CHARLES PREPARATORY SCHOOL
 2010 E. BROAD STREET

landscape architecture
 site planning
 construction management
 11500 W. 12th Street
 Columbus, OH 43224
 (614) 298-3034



| | |
|---------|---------------|
| DESIGN | GAUSTON |
| CHECKED | |
| DATE | JUNE 25, 2020 |
| SCALE | 1" = 20' |
| JOB NO. | |
| SHEET | |
| OF | |



| Luminaire Schedule | | | | | |
|--------------------|-----|-------|----------------|-------|--------------------------------|
| Symbol | Qty | Label | Arrangement | LLF | Description |
| —□ | 5 | P1 | SINGLE | 0.950 | RSX1 LED P4 40K R4 EGFV |
| ⊕ | 3 | B1 | SINGLE | 0.950 | KBA8 LED 16C 350 40K SYM MVOLT |
| ⊕ | 2 | P4 | 4 @ 90 DEGREES | 0.950 | RSX1 LED P4 40K R4 EGFV |

| Calculation Summary | | | | | | | |
|-----------------------|-------------|-------|------|------|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| NON-PAVED AREA_Planar | Illuminance | Fc | 0.60 | 9.0 | 0.0 | N.A. | N.A. |
| PAVED AREA_Planar | Illuminance | Fc | 2.03 | 22.2 | 0.0 | N.A. | N.A. |



| # | Date | Comments |
|---|------|----------|
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| Revisions | |
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|----------------|-------------|
| Drawn By: | Checked By: |
| Date: 2/4/2021 | |
| Scale: | |

ST CHARLES



KBA8 LED

LED Specification Bollard

Catalog
Number

Notes

Type

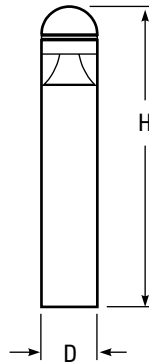
Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

8" Round
(20.3 cm)

Height: 42"
(106.7 cm)

Weight (max): 27 lbs
(12.25 kg)



Introduction

The KBA8 Bollard is a stylish, fully integrated LED solution for walkways. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 70% in energy savings over comparable 100W metal halide luminaires, the KBA8 Bollard is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: KBA8 LED 16C 700 40K SYM MVOLT DDBXD

| KBA8 LED | Series | LEDs | Drive current | Color temperature | Distribution | Voltage | Control options |
|----------|------------|--------------------------|---------------------------|-----------------------------------------------|-----------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KBA8 LED | Asymmetric | 12C 12 LEDs ¹ | 350 350 mA | 30K 3000 K | ASY Asymmetric ¹ SYM Symmetric ² | MVOLT ⁵ | Shipped installed PE Photoelectric cell, button type DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ELCW Emergency battery backup, CA Title 20 Noncompliant ⁶ |
| | | | 450 450 mA ^{3,4} | 40K 4000 K | | 120 ⁵ | |
| | | | 530 530 mA | 50K 5000 K | | 208 ⁵ | |
| | Symmetric | 16C 16 LEDs ² | 700 700 mA | AMBPC Amber phosphor converted | 240 ⁵ | | |
| | | | | AMBLW Amber limited wavelength ^{3,4} | 277 ⁵ | | |
| | | | | | 347 ⁴ | | |

| Other options | Finish (required) |
|--------------------------------------------------------------|----------------------------------|
| Shipped installed | DWHXD White |
| SF Single fuse (120, 277, 347V) ^{4,7} | DNAXD Natural aluminum |
| DF Double fuse (208, 240V) ^{4,7} | DDBXD Dark bronze |
| H24 24" overall height | DBLXD Black |
| H30 30" overall height | DDBTXD Textured dark bronze |
| H36 36" overall height | DBLBXD Textured black |
| FG Ground-fault festoon outlet | DNATXD Textured natural aluminum |
| L/AB Without anchor bolts (3 bolt base) | DWHGXD Textured white |
| L/AB4 4 bolt retrofit base without anchor bolts ⁸ | |

Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for KBA8 LED⁸

NOTES

- 1 Only available in the 12C, ASY version.
- 2 Only available in the 16C, SYM version.
- 3 Only available with 450 AMBLW version.
- 4 Not available with ELCW.
- 5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- 6 Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- 7 Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- 8 MRAB U not available with L/AB4 option.
- 9 Striping is available only in the colors listed.



Performance Data

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

| LEDs | Drive Current (mA) | System Watts | Dist. Type | 30K | | | | | 40K | | | | | 50K | | | | | 50K | | | | | | | | | |
|------|--------------------|--------------|------------|--------|---|---|---|-----|--------|---|---|---|-----|--------|---|---|---|-----|--------|---|---|---|-----|--|--|--|--|--|
| | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | | | | | |
| 12C | 350mA | 16 | ASY | 1,126 | 1 | 1 | 1 | 70 | 1,210 | 1 | 1 | 1 | 76 | 1,217 | 1 | 1 | 1 | 76 | | | | | | | | | | |
| | 530 mA | 22 | ASY | 1,622 | 1 | 1 | 1 | 74 | 1,741 | 1 | 1 | 1 | 79 | 1,752 | 1 | 1 | 1 | 80 | | | | | | | | | | |
| | 700mA | 30 | ASY | 2,050 | 1 | 1 | 1 | 68 | 2,201 | 1 | 1 | 1 | 73 | 2,215 | 1 | 1 | 1 | 74 | | | | | | | | | | |
| | Amber 450 | 16 | ASY | | | | | | | | | | | | | | | | 324 | 0 | 1 | 0 | 20 | | | | | |
| 16C | 350mA | 20 | SYM | 1,527 | 1 | 0 | 0 | 76 | 1,640 | 1 | 0 | 0 | 82 | 1,650 | 1 | 0 | 0 | 83 | | | | | | | | | | |
| | 530 mA | 28 | SYM | 2,186 | 1 | 0 | 0 | 78 | 2,348 | 1 | 0 | 1 | 84 | 2,362 | 1 | 0 | 1 | 84 | | | | | | | | | | |
| | 700mA | 39 | SYM | 2,744 | 1 | 0 | 1 | 70 | 2,947 | 1 | 0 | 1 | 76 | 2,965 | 2 | 0 | 1 | 76 | | | | | | | | | | |
| | Amber 450 | 20 | SYM | | | | | | | | | | | | | | | | 374 | 0 | 0 | 0 | 19 | | | | | |

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25,000 | 50,000 | 100,000 |
|--------------------------|------|--------|--------|---------|
| Lumen Maintenance Factor | 1.00 | 0.98 | 0.97 | 0.95 |

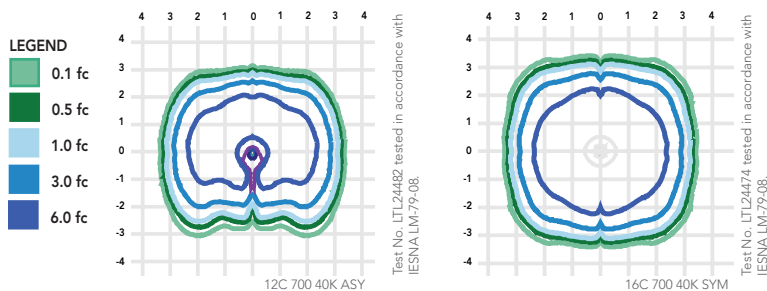
Electrical Load

| Light Engines | Drive Current (mA) | System Watts | Current (A) | | | | |
|---------------|--------------------|--------------|-------------|-------|-------|-------|-------|
| | | | 120 | 208 | 240 | 277 | 347 |
| 12C | 350 | 16W | 0.158 | 0.118 | 0.114 | 0.109 | 0.105 |
| | 530 | 22W | 0.217 | 0.146 | 0.136 | 0.128 | 0.118 |
| | 700 | 31W | 0.296 | 0.185 | 0.168 | 0.153 | 0.139 |
| | Amber 450 | 16W | 0.161 | 0.120 | 0.115 | 0.110 | 0.106 |
| 16C | 350 | 20W | 0.197 | 0.137 | 0.128 | 0.121 | 0.114 |
| | 530 | 28W | 0.282 | 0.178 | 0.162 | 0.148 | 0.135 |
| | 700 | 39W | 0.385 | 0.231 | 0.207 | 0.185 | 0.163 |
| | Amber 450 | 20W | 0.199 | 0.139 | 0.130 | 0.123 | 0.116 |

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [KBA8 Bollard homepage](#).

Isofootcandle plots for the KB LED Bollards. Distances are in units of mounting height (3').



FEATURES & SPECIFICATIONS

INTENDED USE

The rugged construction and clean lines of the KBA bollard is ideal for illuminating building entryways, walking paths, and pedestrian plazas, as well as any other location requiring a low mounting height light source with fully cutoff illumination.

CONSTRUCTION

One-piece 8-inch round extruded aluminum shaft with thick side walls for extreme durability, a high-impact clear acrylic lens and welded top cap. Die-cast aluminum mounting ring allows for easy leveling even in sloped locations and a full 360-degree rotation for precise alignment during installation. Three 1/2" x 11" anchor bolts with double nuts and washers and 3 3/4" bolt circle template ensure stability. Overall height is 42" standard.

FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Two fully cutoff optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without any uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions.

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.





RSX1 LED Area Luminaire

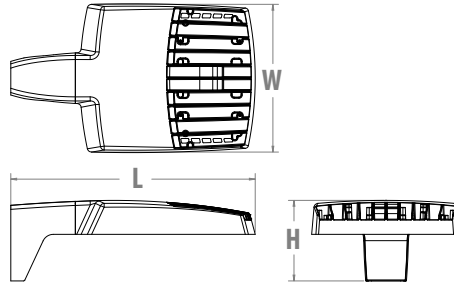


| |
|----------------|
| Catalog Number |
| Notes |
| Type |

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

| | |
|---------------------------------|-----------------------------------------------|
| EPA (ft²@0°): | 0.57 ft ² (0.05 m ²) |
| Length: | 21.8" (55.4 cm) (SPA mount) |
| Width: | 13.3" (33.8 cm) |
| Height: | 3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm |
| Weight: (SPA mount): | 22.0 lbs (10.0 kg) |



Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

Ordering Information

EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

| Series | Performance Package | Color Temperature | Distribution | Voltage | Mounting |
|----------|----------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RSX1 LED | P1 P2 P3 P4 | 30K 3000K 40K 4000K 50K 5000K | R2 Type 2 Wide R3 Type 3 Wide R3S Type 3 Short R4 Type 4 Wide R4S Type 4 Short R5 Type 5 Wide ¹ R5S Type 5 Short ¹ AFR Automotive Front Row AFRR90 Automotive Front Row Right Rotated AFRL90 Automotive Front Row Left Rotated | MVOLT (120V-277V) ² HVOLT (347V-480V) ³ XVOLT (277V-480V) ⁴ (use specific voltage for options as noted) 120 ³ 277 ⁵ 208 ³ 347 ⁵ 240 ³ 480 ⁵ | SPA Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°) RPA Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon) IS Adjustable slipfitter (fits 2-3/8" OD tenon) ⁶ WBA Wall bracket ¹ WBASC Wall bracket with surface conduit box AASP Adjustable tilt arm square pole mounting ⁶ AARP Adjustable tilt arm round pole mounting ⁶ AAWB Adjustable tilt arm with wall bracket ⁶ AAWSC Adjustable tilt arm wall bracket and surface conduit box ⁶ |

| Options | Finish |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Shipped Installed</p> <p>HS House-side shield⁷</p> <p>PE Photocontrol, button style^{8,9}</p> <p>PEX Photocontrol external threaded, adjustable^{9,10}</p> <p>PER7 Seven-wire twist-lock receptacle only (no controls)^{9,11,12,13}</p> <p>CE34 Conduit entry 3/4" NPT (Qty 2)</p> <p>SF Single fuse (120, 277, 347)⁵</p> <p>DF Double fuse (208, 240, 480)⁵</p> <p>SPD20KV 20KV Surge pack (10KV standard)</p> <p>FAO Field adjustable output^{9,13}</p> <p>DMG 0-10V dimming extend out back of housing for external control (control ordered separate)^{9,13}</p> | <p>Shipped Installed</p> <p>*Standalone and Networked Sensors/Controls (factory default settings, see table page 9)</p> <p>NLTAIR2 nLight AIR generation 2^{13,14,15}</p> <p>PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2)^{13,15,16}</p> <p>*Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.</p> <p>Shipped Separately (requires some field assembly)</p> <p>EGS External glare shield⁷</p> <p>EGFV External glare full visor (360° around light aperture)⁷</p> <p>BS Bird spikes¹⁷</p> |
| | <p>DDBXD Dark Bronze</p> <p>DBLXD Black</p> <p>DNAXD Natural Aluminum</p> <p>DWHXD White</p> <p>DDBTXD Textured Dark Bronze</p> <p>DBLXD Textured Black</p> <p>DNATXD Textured Natural Aluminum</p> <p>DWHGXD Textured White</p> |



Ordering Information

Accessories

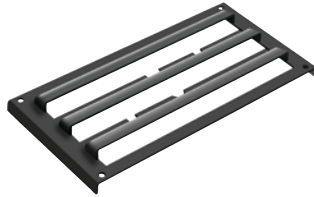
Ordered and shipped separately.

| | |
|---------------------|------------------------------------------------------------------------------|
| RSX1HS | RSX1 House side shield (includes 1 shield) |
| RSX1HSAFRUR | RSX1 House side shield for AFR rotated optics (includes 1 shield) |
| RSX1EGS (FINISH) U | External glare shield (specify finish) |
| RSX1EGFV (FINISH) U | External glare full visor (specify finish) |
| RSXRPA (FINISH) U | RSX Universal round pole adaptor plate (specify finish) |
| RSXWBA (FINISH) U | RSX WBA wall bracket (specify finish) ¹ |
| RSXSGB (FINISH) U | RSX Surface conduit box (specify finish, for use with WBA, WBA not included) |
| DLL127F 1.5 JU | Photocell -SSL twist-lock (120-277V) ¹⁸ |
| DLL347F 1.5 CUL JU | Photocell -SSL twist-lock (347V) ¹⁸ |
| DLL480F 1.5 CUL JU | Photocell -SSL twist-lock (480V) ¹⁸ |
| DSHORT SBK U | Shorting cap ¹⁸ |

NOTES

- 1 Any Type 5 distribution, is not available with WBA.
- 2 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 3 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 4 XVOLT driver not available with P1 or P2. XVOLT driver operates on any line voltage from 277V-480V (50/60 Hz). XVOLT not available with fusing (SF or DF) and not available with PE or PEX.
- 5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 6 Maximum tilt is 90° above horizontal.
- 7 It may be ordered as an accessory.
- 8 Requires MVOLT or 347V.
- 9 Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, PIRHN).
- 10 Requires 120V, 208V, 240V or 277V.
- 11 Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use.
- 12 For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010.
- 13 Two or more of the following options cannot be combined including DMG, PER7, FAO and PIRHN.
- 14 Must be ordered with PIRHN.
- 15 Requires MVOLT or HVOLT.
- 16 Must be ordered with NLTAIR2. For additional information on PIRHN visit [here](#).
- 17 Must be ordered with fixture for factory pre-drilling.
- 18 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

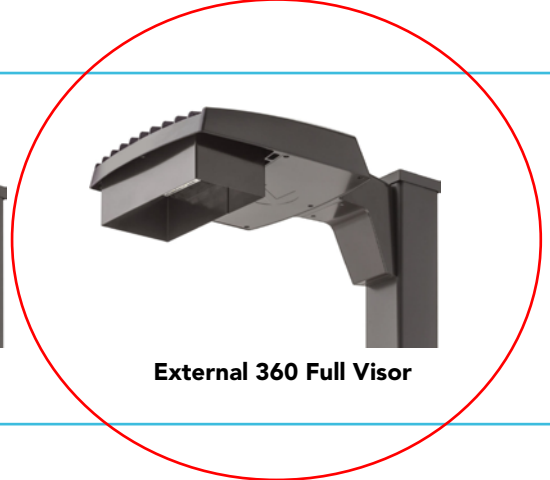
External Shields



House Side Shield



External Glare Shield

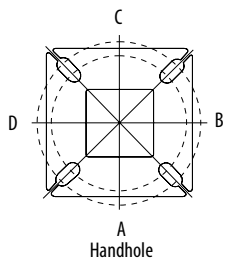


External 360 Full Visor

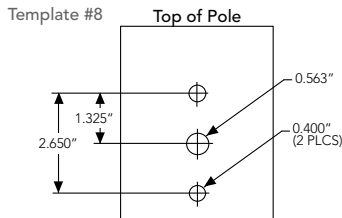
Pole/Mounting Information

Accessories including bullhorns, cross arms and other adapters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit [Accessories](#).

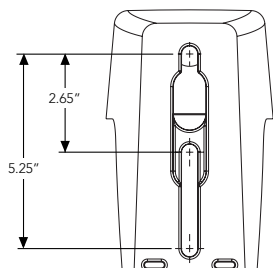
HANDHOLE ORIENTATION



RSX POLE DRILLING



RSX STANDARD ARM & ADJUSTABLE ARM



Round Tenon Mount - Pole Top Slipfitters

| Tenon O.D. | RSX Mounting | Single | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 2 - 3/8" | RPA, AARP | AS3-5 190 | AS3-5 280 | AS3-5 290 | AS3-5 320 | AS3-5 390 | AS3-5 490 |
| 2 - 7/8" | RPA, AARP | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | RPA, AARP | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Drill/Side Location by Configuration Type

| Drilling Template | Mounting Option | Single | 2 @ 180 | 2 @ 90 | 3 @ 120 | 3 @ 90 | 4 @ 90 |
|-------------------|--------------------|--------|------------|------------|-----------------|---------------|------------------|
| | Head Location | Side B | Side B & D | Side B & C | Round Pole Only | Side B, C & D | Side A, B, C & D |
| #8 | Drill Nomenclature | DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |

RSX1 - Luminaire EPA

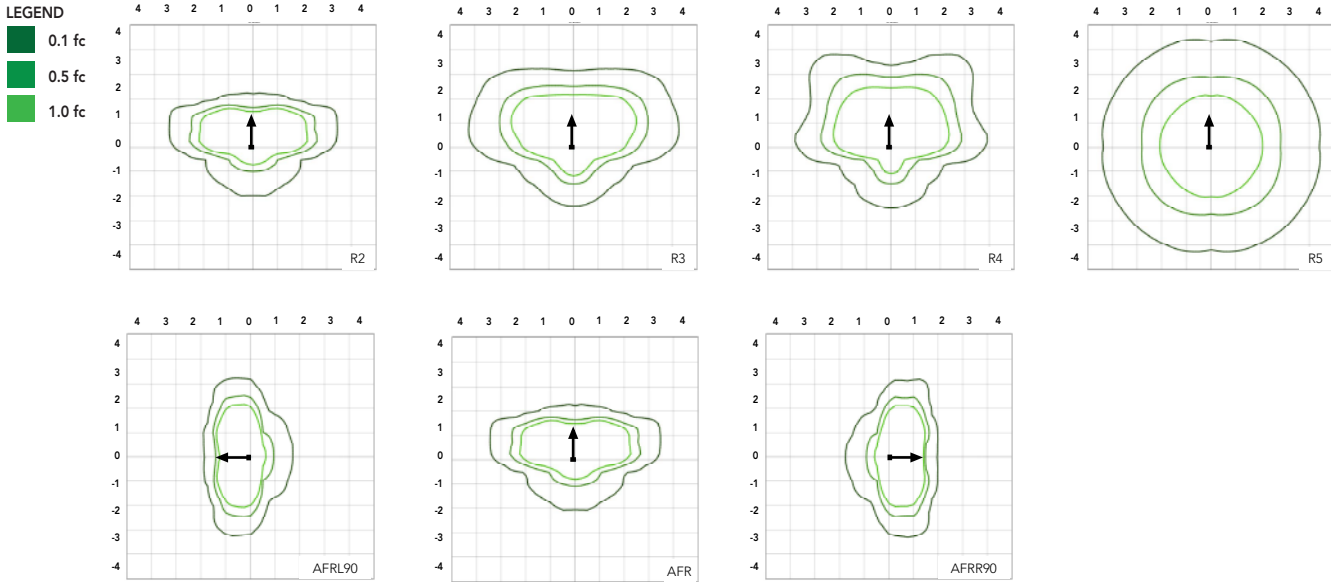
*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

| Fixture Quantity & Mounting Configuration | Single | 2 @ 90 | 2 @ 180 | 3 @ 90 | 3 @ 120 | 4 @ 90 | 2 Side by Side | 3 Side by Side | 4 Side by Side | |
|--------------------------------------------------------------------------|--------|--------|---------|--------|---------|--------|----------------|----------------|----------------|-------|
| SPA - Square Pole Adaptor | 0.57 | 1.03 | 1.05 | 1.52 | 1.36 | 2.03 | 1.31 | 1.7 | 2.26 | |
| RPA - Round Pole Adaptor | 0.62 | 1.08 | 1.15 | 1.62 | 1.46 | 2.13 | 1.36 | 1.8 | 2.36 | |
| MA - Mast Arm Adaptor | 0.49 | 0.95 | 0.89 | 1.36 | 1.2 | 1.87 | 1.23 | 1.54 | 2.1 | |
| IS - Integral Slipfitter AASP/AARP - Adjustable Arm Square/Round Pole | 0° | 0.57 | 1.03 | 1.05 | 1.52 | 1.36 | 2.03 | 1.31 | 1.7 | 2.26 |
| | 10° | 0.68 | 1.34 | 1.33 | 2 | 1.74 | 2.64 | 1.35 | 2.03 | 2.71 |
| | 20° | 0.87 | 1.71 | 1.73 | 2.56 | 2.26 | 3.42 | 1.75 | 2.62 | 3.49 |
| | 30° | 1.24 | 2.19 | 2.3 | 3.21 | 2.87 | 4.36 | 2.49 | 3.73 | 4.97 |
| | 40° | 1.81 | 2.68 | 2.98 | 3.85 | 3.68 | 5.30 | 3.62 | 5.43 | 7.24 |
| | 45° | 2.11 | 2.92 | 3.44 | 4.2 | 4.08 | 5.77 | 4.22 | 6.33 | 8.44 |
| | 50° | 2.31 | 3.17 | 3.72 | 4.52 | 4.44 | 6.26 | 4.62 | 6.94 | 9.25 |
| | 60° | 2.71 | 3.66 | 4.38 | 5.21 | 5.15 | 7.24 | 5.43 | 8.14 | 10.86 |
| | 70° | 2.78 | 3.98 | 4.54 | 5.67 | 5.47 | 7.91 | 5.52 | 8.27 | 11.03 |
| | 80° | 2.76 | 4.18 | 4.62 | 5.97 | 5.76 | 8.31 | 5.51 | 8.27 | 11.03 |
| 90° | 2.73 | 4.25 | 4.64 | 6.11 | 5.91 | 8.47 | 5.45 | 8.18 | 10.97 | |

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [RSX Area homepage](#).

Isofootcandle plots for the RSX1 LED P4 40K. Distances are in units of mounting height (20').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

| Ambient | Ambient | Lumen Multiplier |
|---------|---------|------------------|
| 0°C | 32°F | 1.05 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |
| 45°C | 113°F | 0.96 |
| 50°C | 122°F | 0.95 |

Electrical Load

| Performance Package | System Watts (W) | Current (A) | | | | | |
|---------------------|------------------|-------------|------|------|------|------|------|
| | | 120V | 208V | 240V | 277V | 347V | 480V |
| P1 | 51W | 0.42 | 0.25 | 0.21 | 0.19 | 0.14 | 0.11 |
| P2 | 72W | 0.60 | 0.35 | 0.30 | 0.26 | 0.21 | 0.15 |
| P3 | 109W | 0.91 | 0.52 | 0.45 | 0.39 | 0.31 | 0.23 |
| P4 | 133W | 1.11 | 0.64 | 0.55 | 0.48 | 0.38 | 0.27 |

Projected LED Lumen Maintenance

| Operating Hours | 50,000 | 75,000 | 100,000 |
|--------------------------|--------|--------|---------|
| Lumen Maintenance Factor | >0.97 | >0.95 | >0.92 |

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.



COMMERCIAL OUTDOOR

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

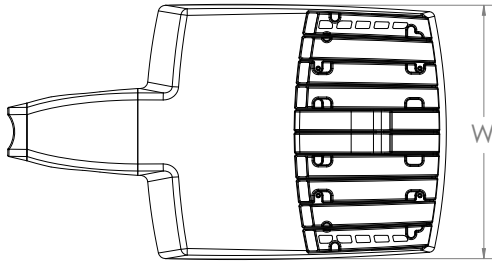
| Performance Package | System Watts | Distribution Type | 30K (3000K, 70 CRI) | | | | | 40K (4000K, 70 CRI) | | | | | 50K (5000K, 70 CRI) | | | | |
|---------------------|--------------|-------------------|---------------------|---|---|---|-----|---------------------|---|---|---|-----|---------------------|---|---|---|-----|
| | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| P1 | 51W | R2 | 6,482 | 1 | 0 | 1 | 126 | 7,121 | 1 | 0 | 1 | 139 | 7,121 | 1 | 0 | 1 | 139 |
| | | R3 | 6,459 | 1 | 0 | 2 | 127 | 7,096 | 1 | 0 | 2 | 139 | 7,096 | 1 | 0 | 2 | 139 |
| | | R3S | 6,631 | 1 | 0 | 1 | 129 | 7,286 | 1 | 0 | 2 | 142 | 7,286 | 1 | 0 | 2 | 142 |
| | | R4 | 6,543 | 1 | 0 | 2 | 128 | 7,189 | 1 | 0 | 2 | 141 | 7,189 | 1 | 0 | 2 | 141 |
| | | R4S | 6,313 | 1 | 0 | 1 | 124 | 6,936 | 1 | 0 | 1 | 136 | 6,936 | 1 | 0 | 1 | 136 |
| | | R5 | 6,631 | 3 | 0 | 2 | 130 | 7,286 | 3 | 0 | 2 | 143 | 7,286 | 3 | 0 | 2 | 143 |
| | | R5S | 6,807 | 3 | 0 | 1 | 133 | 7,479 | 3 | 0 | 1 | 147 | 7,479 | 3 | 0 | 1 | 147 |
| | | AFR | 6,473 | 1 | 0 | 1 | 127 | 7,112 | 1 | 0 | 1 | 139 | 7,112 | 1 | 0 | 1 | 139 |
| | | AFRR90 | 6,535 | 2 | 0 | 2 | 127 | 7,179 | 2 | 0 | 2 | 140 | 7,179 | 2 | 0 | 2 | 140 |
| | | AFRL90 | 6,562 | 2 | 0 | 1 | 128 | 7,210 | 2 | 0 | 2 | 140 | 7,210 | 2 | 0 | 2 | 140 |
| P2 | 72W | R2 | 8,991 | 2 | 0 | 1 | 123 | 9,878 | 2 | 0 | 1 | 135 | 9,878 | 2 | 0 | 1 | 135 |
| | | R3 | 8,959 | 2 | 0 | 2 | 124 | 9,843 | 2 | 0 | 2 | 137 | 9,843 | 2 | 0 | 2 | 137 |
| | | R3S | 9,198 | 2 | 0 | 2 | 126 | 10,106 | 2 | 0 | 2 | 139 | 10,106 | 2 | 0 | 2 | 139 |
| | | R4 | 9,077 | 2 | 0 | 2 | 126 | 9,972 | 2 | 0 | 2 | 139 | 9,972 | 2 | 0 | 2 | 139 |
| | | R4S | 8,757 | 1 | 0 | 2 | 122 | 9,622 | 2 | 0 | 2 | 134 | 9,622 | 2 | 0 | 2 | 134 |
| | | R5 | 9,198 | 4 | 0 | 2 | 128 | 10,106 | 4 | 0 | 2 | 140 | 10,106 | 4 | 0 | 2 | 140 |
| | | R5S | 9,443 | 3 | 0 | 1 | 131 | 10,374 | 3 | 0 | 1 | 144 | 10,374 | 3 | 0 | 1 | 144 |
| | | AFR | 8,979 | 2 | 0 | 1 | 125 | 9,865 | 2 | 0 | 1 | 137 | 9,865 | 2 | 0 | 1 | 137 |
| | | AFRR90 | 9,064 | 3 | 0 | 2 | 124 | 9,959 | 3 | 0 | 2 | 137 | 9,959 | 3 | 0 | 2 | 137 |
| | | AFRL90 | 9,102 | 3 | 0 | 2 | 125 | 10,001 | 3 | 0 | 2 | 137 | 10,001 | 3 | 0 | 2 | 137 |
| P3 | 109W | R2 | 12,808 | 2 | 0 | 1 | 117 | 14,072 | 2 | 0 | 2 | 129 | 14,072 | 2 | 0 | 2 | 129 |
| | | R3 | 12,763 | 2 | 0 | 2 | 117 | 14,023 | 2 | 0 | 2 | 129 | 14,023 | 2 | 0 | 2 | 129 |
| | | R3S | 13,104 | 2 | 0 | 2 | 120 | 14,397 | 2 | 0 | 2 | 132 | 14,397 | 2 | 0 | 2 | 132 |
| | | R4 | 12,930 | 2 | 0 | 2 | 119 | 14,206 | 2 | 0 | 2 | 130 | 14,206 | 2 | 0 | 2 | 130 |
| | | R4S | 12,475 | 2 | 0 | 2 | 114 | 13,707 | 2 | 0 | 2 | 126 | 13,707 | 2 | 0 | 2 | 126 |
| | | R5 | 13,104 | 4 | 0 | 2 | 120 | 14,397 | 4 | 0 | 2 | 132 | 14,397 | 4 | 0 | 2 | 132 |
| | | R5S | 13,452 | 3 | 0 | 2 | 123 | 14,779 | 3 | 0 | 2 | 136 | 14,779 | 3 | 0 | 2 | 136 |
| | | AFR | 12,791 | 2 | 0 | 1 | 117 | 14,053 | 2 | 0 | 2 | 129 | 14,053 | 2 | 0 | 2 | 129 |
| | | AFRR90 | 12,913 | 3 | 0 | 3 | 118 | 14,187 | 3 | 0 | 3 | 130 | 14,187 | 3 | 0 | 3 | 130 |
| | | AFRL90 | 12,967 | 3 | 0 | 2 | 118 | 14,247 | 3 | 0 | 3 | 130 | 14,247 | 3 | 0 | 3 | 130 |
| P4 | 133W | R2 | 14,943 | 2 | 0 | 2 | 112 | 16,417 | 2 | 0 | 2 | 123 | 16,417 | 2 | 0 | 2 | 123 |
| | | R3 | 14,890 | 2 | 0 | 3 | 112 | 16,360 | 2 | 0 | 3 | 123 | 16,360 | 2 | 0 | 3 | 123 |
| | | R3S | 15,287 | 2 | 0 | 2 | 115 | 16,796 | 2 | 0 | 2 | 126 | 16,796 | 2 | 0 | 2 | 126 |
| | | R4 | 15,085 | 2 | 0 | 3 | 113 | 16,574 | 2 | 0 | 3 | 125 | 16,574 | 2 | 0 | 3 | 125 |
| | | R4S | 14,554 | 2 | 0 | 2 | 109 | 15,991 | 2 | 0 | 2 | 120 | 15,991 | 2 | 0 | 2 | 120 |
| | | R5 | 15,287 | 4 | 0 | 2 | 115 | 16,796 | 4 | 0 | 2 | 126 | 16,796 | 4 | 0 | 2 | 126 |
| | | R5S | 15,693 | 4 | 0 | 2 | 118 | 17,242 | 4 | 0 | 2 | 130 | 17,242 | 4 | 0 | 2 | 130 |
| | | AFR | 14,923 | 2 | 0 | 2 | 112 | 16,395 | 2 | 0 | 2 | 123 | 16,395 | 2 | 0 | 2 | 123 |
| | | AFRR90 | 15,065 | 3 | 0 | 3 | 113 | 16,551 | 3 | 0 | 3 | 124 | 16,551 | 3 | 0 | 3 | 124 |
| | | AFRL90 | 15,128 | 3 | 0 | 3 | 114 | 16,621 | 3 | 0 | 3 | 125 | 16,621 | 3 | 0 | 3 | 125 |

Dimensions & Weights

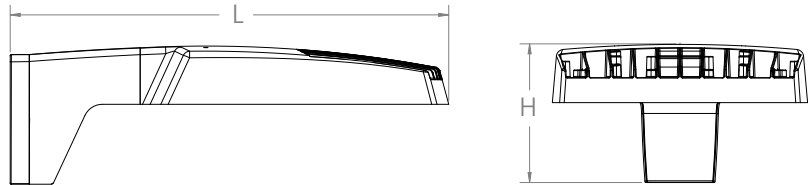
Luminaire Weight by Mounting Type

| Mounting Configuration | Total Luminaire Weight |
|------------------------|------------------------|
| SPA | 22 lbs |
| RPA | 24 lbs |
| MA | 22 lbs |
| WBA | 25 lbs |
| WBASC | 28 lbs |
| IS | 25 lbs |
| AASP | 25 lbs |
| AARP | 27 lbs |
| AAWB | 28 lbs |
| AAWSC | 31 lbs |

RSX1 with Round Pole Adapter (RPA)



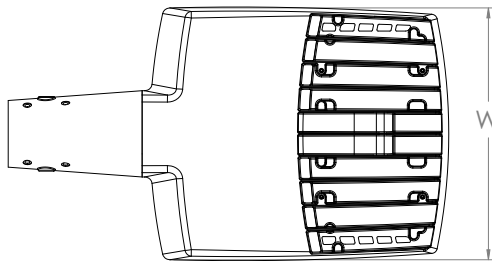
Length: 22.8" (57.9 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 7.2" (18.4 cm) Arm



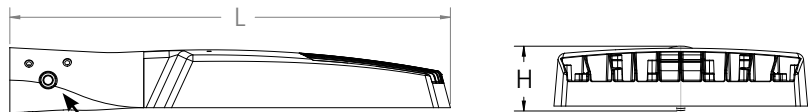
Note: RPA — Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.



RSX1 with Mast Arm Adapter (MA)

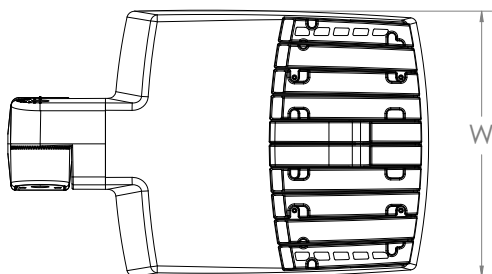


Length: 23.2" (59.1 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 3.5" (8.9 cm) Arm

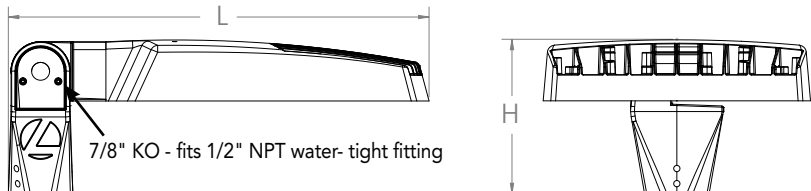


7/16" locking thru bolt/nut provided

RSX1 with Adjustable Slipfitter (IS)



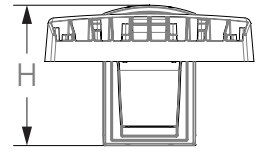
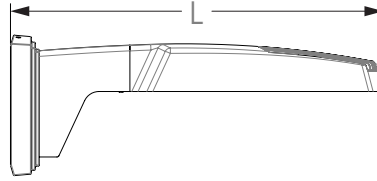
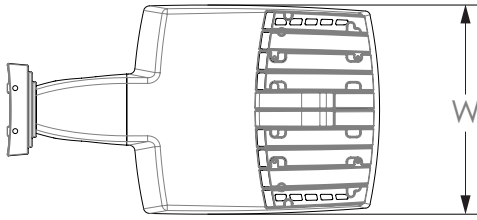
Length: 20.7" (52.7 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 7.6" (19.3 cm) Arm



7/8" KO - fits 1/2" NPT water-tight fitting

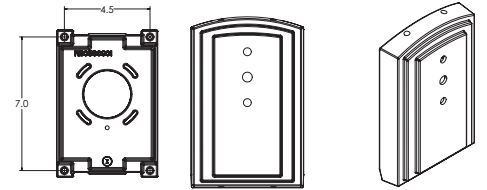
Dimensions

RSX1 with Wall Bracket (WBA)

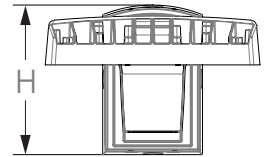
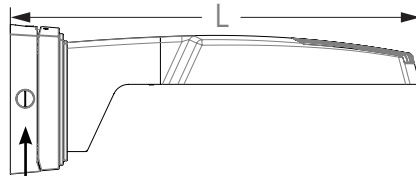
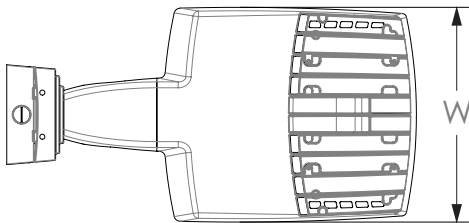


Length: 23.6" (59.9 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 8.9" (22.6 cm) Arm

Wall Bracket (WBA) Mounting Detail



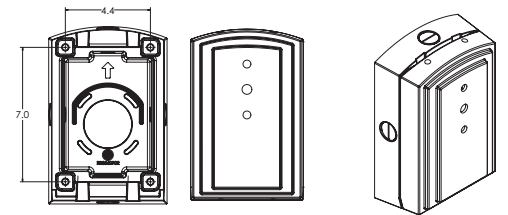
RSX1 with Wall Bracket with Surface Conduit Box (WBASC)



3/4" NPT taps with plugs - Qty (4) provided

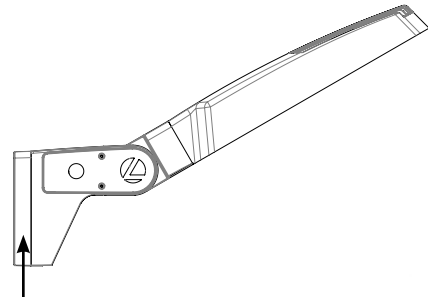
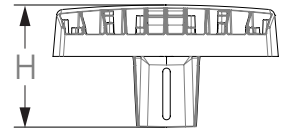
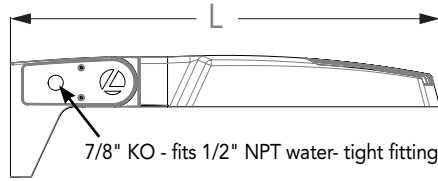
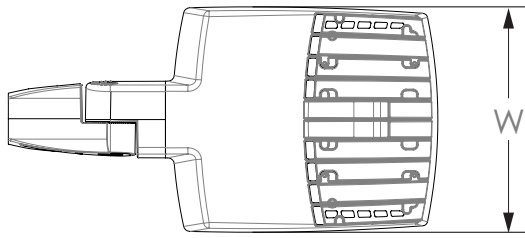
Length: 25.3" (64.3 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 9.2" (23.4 cm) Arm

Surface Conduit Box (SCB) Mounting Detail



Dimensions

RSX1 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



NOTE:
RPA - Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.



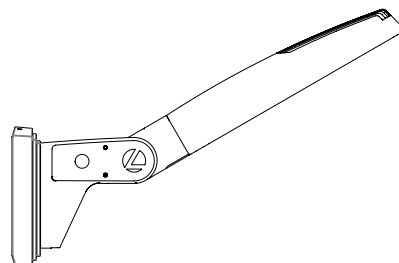
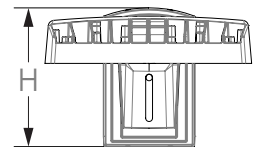
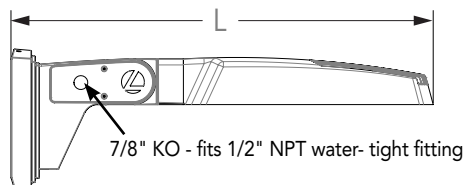
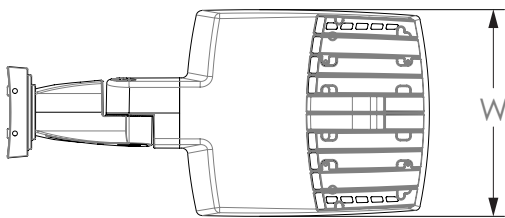
Length: 25.3" (65.3 cm) **AASP**
26.3" (66.8 cm) **AARP**
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
7.2" (18.2 cm) Arm

Notes

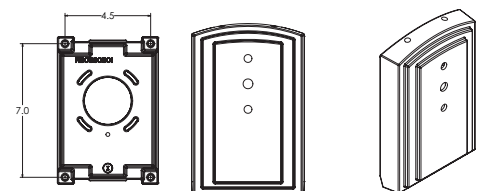
AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°.

AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

RSX1 with Adjustable Tilt Arm with Wall Bracket (AAWB)



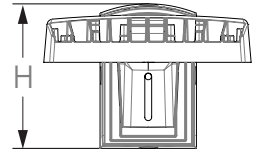
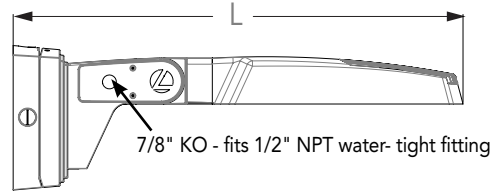
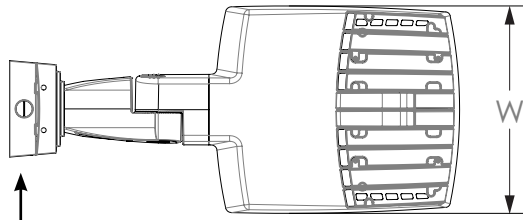
Wall Bracket (WBA) Mounting Detail



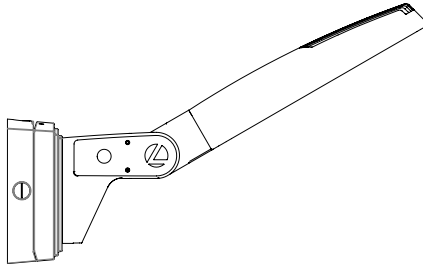
Length: 27.1" (68.8 cm)
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
8.9" (22.6 cm) Arm

Dimensions

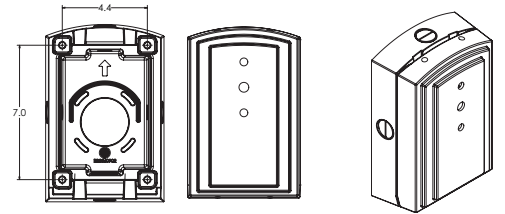
RSX1 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)



3/4" NPT taps with plugs - Qty (4) provided

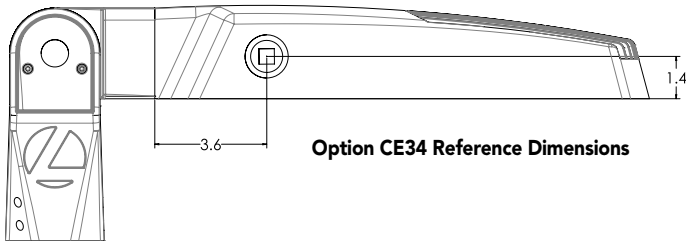


Surface Conduit Box (SCB) Mounting Detail



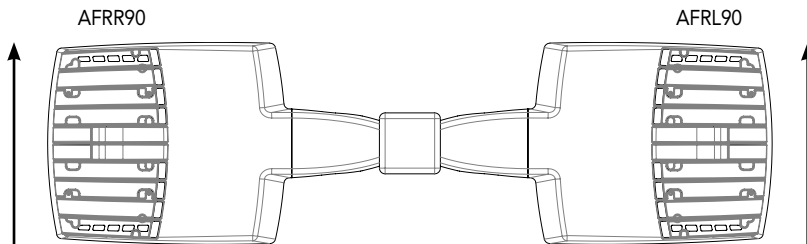
Length: 28.8" (73.2 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 9.2" (23.4 cm) Arm

Additional Reference Drawings



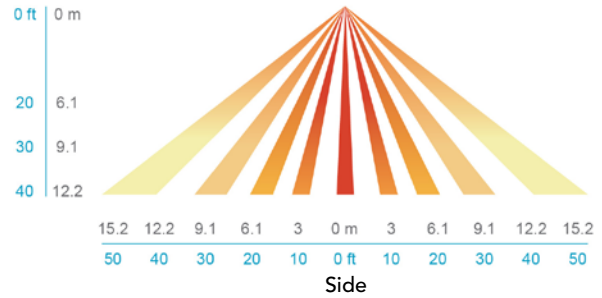
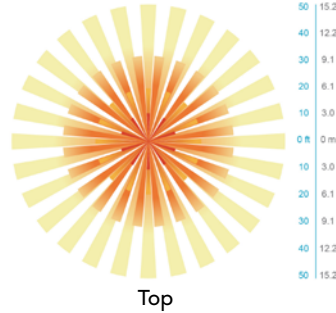
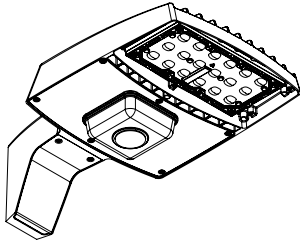
Option CE34 Reference Dimensions

Automotive Front Row - Rotated Optics (AFRL90/R90)



(Example: 2@180 - arrows indicate direction of light exiting the luminaire)

nLight Sensor Coverage Pattern NLTAIR2 PIRHN



| Motion Sensor Default Settings - Option PIRHN | | | | | | |
|-----------------------------------------------|---------------------------|----------------------------|---------------------|-----------------------------------|--------------------------------------------|----------------------------------------------|
| Option | Dimmed State (unoccupied) | High Level (when occupied) | Photocell Operation | Dwell Time (occupancy time delay) | Ramp-up Time (from unoccupied to occupied) | Ramp-down Time (from occupied to unoccupied) |
| NLTAIR2 PIRHN | Approx. 30% Output | 100% Output | Enabled @ 1.5FC | 7.5 minutes | 3 seconds | 5 minutes |

*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is tilted.

FEATURES & SPECIFICATIONS

INTENDED USE

The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the one-for-one replacement of existing metal halide or high pressure sodium lighting. The RSX1 delivers 7,000 to 17,000 lumens and is ideal for replacing 70W to 400W HID pole-mounted luminaires in parking lots and other area lighting applications.

CONSTRUCTION

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heat-dissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP66. The low-profile design results in a low EPA, allowing pole optimization. All mountings are rated for minimum 1.5 G vibration load per ANSI C136.31. 3G Mountings: Include SPA, RPA, MA, IS, AASP, and AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warranted not to crack or peel.

OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing the light to where it is needed most. Available in short and wide pattern distributions including Type 2, Type 3, Type 3S, Type 4, Type 4S, Type 5, Type 5S, AFR (Automotive Front Row), and AFR rotated AFR90 and ARFL90.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumen maintenance is >L92/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can be commissioned using a smartphone and the easy-to-use CLAIRITY app. nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Integral "no-drill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a 2 3/8" horizontal mast arm or the "IS" option for an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.