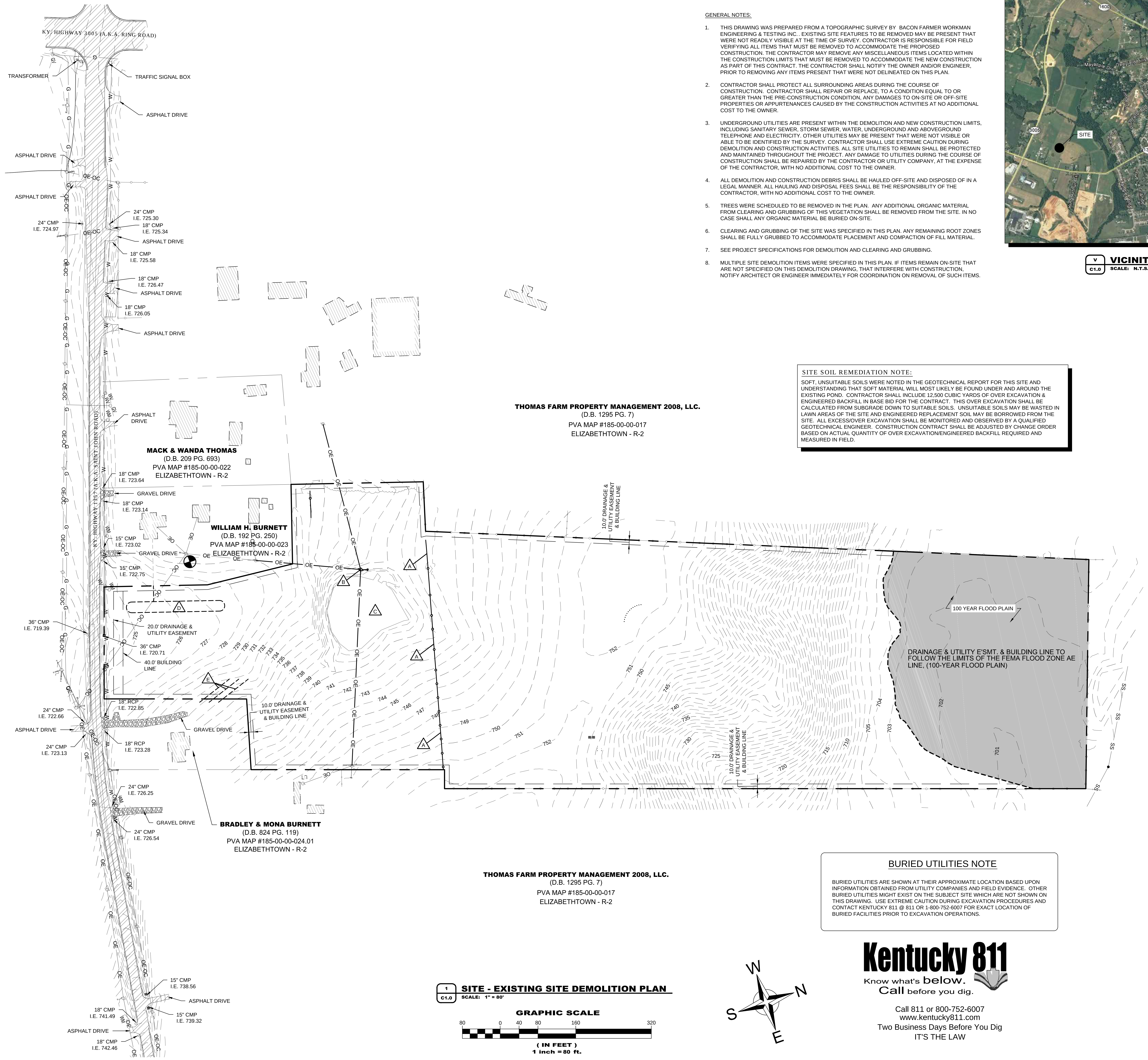


1
C1.0

SITE - EXISTING SITE DEMOLITION PLAN

SCALE: 1" = 80'

GRAPHIC SCALE

80 0 40 80 160 320

(IN FEET)
1 inch = 80 ft.

GENERAL NOTES:

1. THIS DRAWING WAS PREPARED FROM A TOPOGRAPHIC SURVEY BY BACON FARMER WORKMAN ENGINEERING & TESTING INC.. EXISTING SITE FEATURES TO BE REMOVED MAY BE PRESENT THAT WERE NOT READILY VISIBLE AT THE TIME OF SURVEY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL ITEMS THAT MUST BE REMOVED TO ACCOMMODATE THE PROPOSED CONSTRUCTION. THE CONTRACTOR MAY REMOVE ANY MISCELLANEOUS ITEMS LOCATED WITHIN THE CONSTRUCTION LIMITS THAT MUST BE REMOVED TO ACCOMMODATE THE NEW CONSTRUCTION AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR ENGINEER, PRIOR TO REMOVING ANY ITEMS PRESENT THAT WERE NOT DELINEATED ON THIS PLAN.

2. CONTRACTOR SHALL PROTECT ALL SURROUNDING AREAS DURING THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL REPAIR OR REPLACE, TO A CONDITION EQUAL TO OR GREATER THAN THE PRE-CONSTRUCTION CONDITION, ANY DAMAGES TO ON-SITE OR OFF-SITE PROPERTIES OR APPURTENANCES CAUSED BY THE CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.

3. UNDERGROUND UTILITIES ARE PRESENT WITHIN THE DEMOLITION AND NEW CONSTRUCTION LIMITS, INCLUDING SANITARY SEWER, STORM SEWER, WATER, UNDERGROUND AND ABOVEGROUND TELEPHONE AND ELECTRICITY. OTHER UTILITIES MAY BE PRESENT THAT WERE NOT VISIBLE OR ABLE TO BE IDENTIFIED BY THE SURVEY. CONTRACTOR SHALL USE EXTREME CAUTION DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. ALL SITE UTILITIES TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGE TO UTILITIES DURING THE COURSE OF CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR OR UTILITY COMPANY, AT THE EXPENSE OF THE CONTRACTOR, WITH NO ADDITIONAL COST TO THE OWNER.

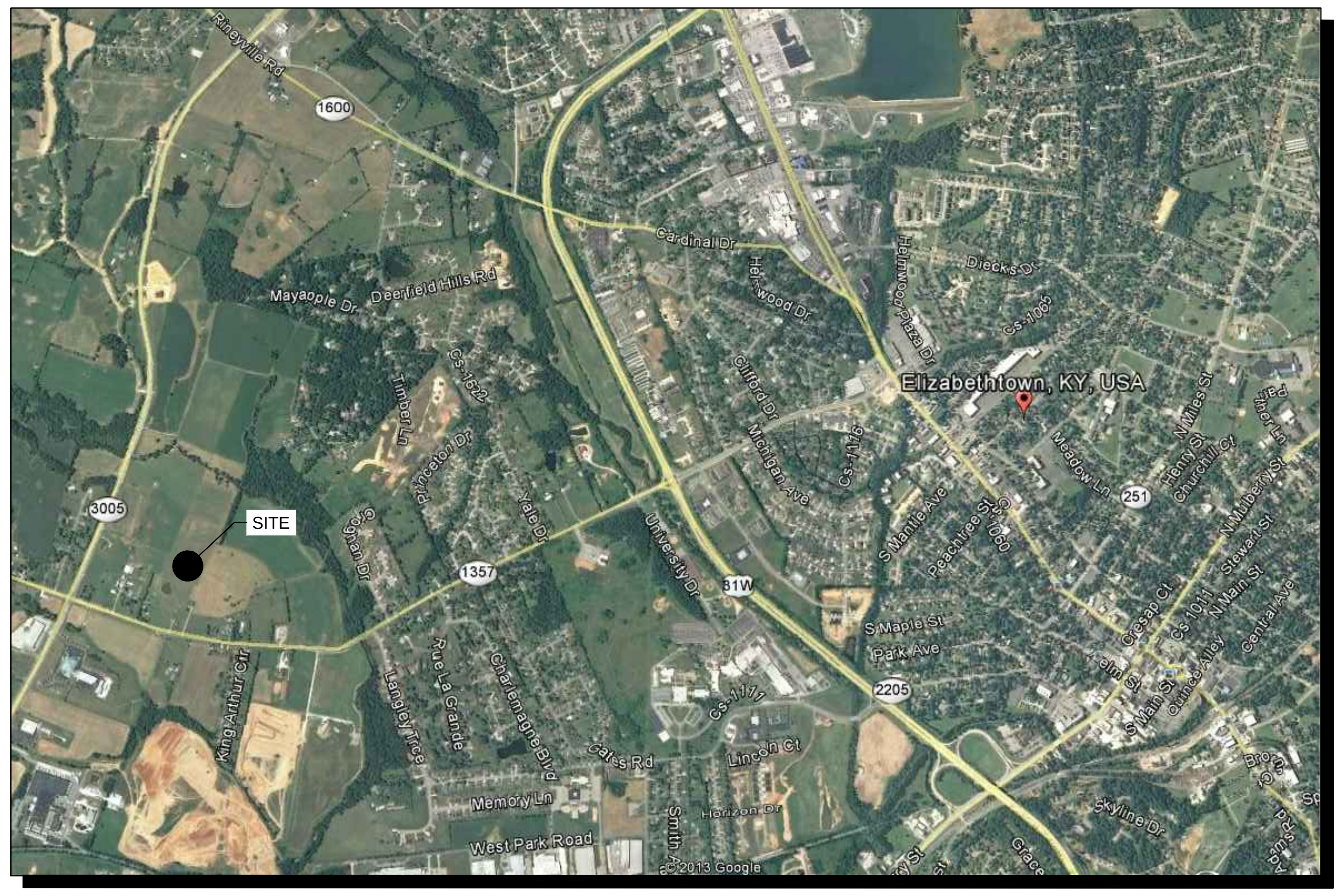
4. ALL DEMOLITION AND CONSTRUCTION DEBRIS SHALL BE HAULED OFF-SITE AND DISPOSED OF IN A LEGAL MANNER. ALL HAULING AND DISPOSAL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITH NO ADDITIONAL COST TO THE OWNER.

5. TREES WERE SCHEDULED TO BE REMOVED IN THE PLAN. ANY ADDITIONAL ORGANIC MATERIAL FROM CLEARING AND GRUBBING OF THIS VEGETATION SHALL BE REMOVED FROM THE SITE. IN NO CASE SHALL ANY ORGANIC MATERIAL BE BURIED ON-SITE.

6. CLEARING AND GRUBBING OF THE SITE WAS SPECIFIED IN THIS PLAN. ANY REMAINING ROOT ZONES SHALL BE FULLY GRUBBED TO ACCOMMODATE PLACEMENT AND COMPACTION OF FILL MATERIAL.

7. SEE PROJECT SPECIFICATIONS FOR DEMOLITION AND CLEARING AND GRUBBING.

8. MULTIPLE SITE DEMOLITION ITEMS WERE SPECIFIED IN THIS PLAN. IF ITEMS REMAIN ON-SITE THAT ARE NOT SPECIFIED ON THIS DEMOLITION DRAWING, THAT INTERFERE WITH CONSTRUCTION, NOTIFY ARCHITECT OR ENGINEER IMMEDIATELY FOR COORDINATION ON REMOVAL OF SUCH ITEMS.



V
C1.0

VICINITY MAP

SCALE: N.T.S.

N

SITE SOIL REMEDIATION NOTE:

SOFT, UNSUITABLE SOILS WERE NOTED IN THE GEOTECHNICAL REPORT FOR THIS SITE AND UNDERSTANDING THAT SOFT MATERIAL WILL MOST LIKELY BE FOUND UNDER AND AROUND THE EXISTING POND. CONTRACTOR SHALL INCLUDE 12,500 CUBIC YARDS OF OVER EXCAVATION & ENGINEERED BACKFILL IN BASE BID FOR THE CONTRACT. THIS OVER EXCAVATION SHALL BE CALCULATED FROM SUBGRADE DOWN TO SUITABLE SOILS. UNSUITABLE SOILS MAY BE WASTED IN LAWN AREAS OF THE SITE AND ENGINEERED REPLACEMENT SOIL MAY BE BORROWED FROM THE SITE. ALL EXCESS/OVER EXCAVATION SHALL BE MONITORED AND OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER. CONSTRUCTION CONTRACT SHALL BE ADJUSTED BY CHANGE ORDER BASED ON ACTUAL QUANTITY OF OVER EXCAVATION/ENGINEERED BACKFILL REQUIRED AND MEASURED IN FIELD.

BENCHMARK INFORMATION:

NOTE: ELEVATIONS ARE BASED FROM U.S.G.S. DATUM (NAVD 88)

BM ◐ RAILROAD SPIKE IN POWER POLE
ELEVATION = 731.27

SITE DEMOLITION KEY NOTES:

A	EXISTING FENCE TO BE REMOVED.
B	EXISTING POWER POLE AND OVERHEAD ELECTRIC LINE TO BE RELOCATED OUT OF THE GRADING AREA AND KEPT IN SERVICE DURING THIS PHASE OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE RELOCATION WITH UTILITY OWNER.
C	EXISTING POND TO BE DRAINED AND FILLED.
D	EXISTING GEOTHERMAL WELL FIELD TO BE REMOVED.
E	EXISTING SANITARY SEWER LATERAL LINES TO BE REMOVED.

LEGEND

━━ ━ ━ ━━	PROPERTY LINE
── ─ ─ ──	ADJOINING PROPERTY LINE
── ── ──	EASEMENTS
━━ ━━ ━━	PAVEMENT TO BE DEMOLISHED
━ G ━ G ━ G ━	GAS LINE TO BE DEMOLISHED
▭ ═ ═ ═ ▭	STORM SEWER TO BE DEMOLISHED
━ W ━ W ━ W ━	WATER LINE TO BE DEMOLISHED
━ OE ━ OE ━ OE ━	OVERHEAD ELECTRIC TO BE DEMOLISHED
━ UE ━ UE ━ UE ━	UNDERGROUND ELECTRIC TO BE DEMOLISHED
━ OC ━ OC ━ OC ━	OVERHEAD COMMUNICATIONS TO BE DEMOLISHED
─ ─ ─ ─	EXISTING BUILDING
═══	EXISTING CURB AND GUTTER
── ── ──	EXISTING PAVEMENT
▦	EXISTING SIDEWALK
────	EXISTING PARKING STRIPE
─ ─ 500 ─ ─	EXISTING MAJOR CONTOUR
─ ─ 501 ─ ─	EXISTING MINOR CONTOUR
▭ ═ ═ ▭	EXISTING STORM SEWER
─ W ─ W ─ W ─	EXISTING WATER LINE
─ SS ─ SS ─ SS ─	EXISTING SANITARY SEWER
─ OE ─ OE ─ OE ─	EXISTING OVERHEAD ELECTRIC
─ OC ─ OC ─ OC ─	EXISTING OVERHEAD COMMUNICATIONS
─ UE ─ UE ─ UE ─	EXISTING UNDERGROUND ELECTRIC
─ UC ─ UC ─ UC ─	EXISTING UNDERGROUND COMMUNICATIONS
─ G ─ G ─ G ─	EXISTING GAS LINE
▨	EXISTING BUILDING
▨	EXISTING ASPHALT PAVEMENT
▦	EXISTING CONCRETE PAVEMENT
▦	EXISTING GRAVEL SURFACE
✦	FIRE HYDRANT
⏢	HEADWALL
GM○	GAS METER
GV⋈	GAS VALVE
→	GUY WIRE
☐	LIGHT POLE
PIV○	POST INDICATOR VALVE
#1300	PROPERTY ADDRESS
◎	SANITARY SEWER MANHOLE
⊥	SIGN
PED○	TELEPHONE PEDESTAL
○	UTILITY POLE
WM○ WV	WATER METER or VALVE
SP○	WATER SPIGOT

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT KENTUCKY 811 @ 811 OR 1-800-752-6007 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

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IT'S THE LAW

JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - EXISTING SITE
DEMOLITION PLAN

m+g
MURPHY·GRAVES
ARCHITECTS
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Lexington, KY 40502
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1215 DIUGUID DRIVE, MURRAY, KY 42071
PHONE - (270).753.7307
403 NORTH COURT STREET, MARION, IL 62959
PHONE - (618).993.6700

JOB NO. 1264
DATE 07.15.2013
PRODUCED BY: SAK/SLH
NOTES:

SHEET NUMBER

C1.0

CLIENT	OWNER
MURPHY GRAVES ARCHITECTS 3399 TATES CREEK ROAD SUITE 250 LEXINGTON, KY. 40502	HARDIN COUNTY BOARD OF EDUCATION 65 W.A. JENKINS RD. ELIZABETHTOWN, KY. 42701

PROPERTY OWNER ____________ DATE ________

PROPERTY ADDRESS: G.C. BURKHEAD ELEMENTARY SCHOOL
1309 SAINT JOHN ROAD
ELIZABETHTOWN, (HARDIN CO.) KENTUCKY 42701

SOURCE OF TITLE: ####

PROPERTY SUMMARY: 23.05 ACRES (1,004,058 SF)

BUILDING SUMMARY: 1 STORY BRICK
83,641 SQ. FT.

SITE COVERAGE:
BUILDING: 83,641 S.F. = 8.33%
PAVING: 268,946 S.F. = 26.79%
OPEN SPACE: 351,471 S.F. = 64.88%

MINIMUM YARD REQUIREMENTS:
FRONT YARD: 40'
SIDE YARD: 10'
REAR YARD: 10'

PARKING DATA:

PARKING REQUIRED:

1 SPACE / CLASSROOM & OFFICE:	52
VISITOR SPACES:	10
GYMNASIUM 1 / 3 SEATS (750 SEATS)	250
TOTAL:	312 SPACES

PARKING PROVIDED:

FRONT LOT:	
STANDARD (10' x 20') SPACES:	167
VAN ACCESSIBLE SPACES:	1
ACCESSIBLE SPACES:	6
REAR LOT:	
STANDARD (10' x 20') SPACES:	135
VAN ACCESSIBLE SPACES:	1
ACCESSIBLE SPACES:	2
TOTAL:	312 SPACES

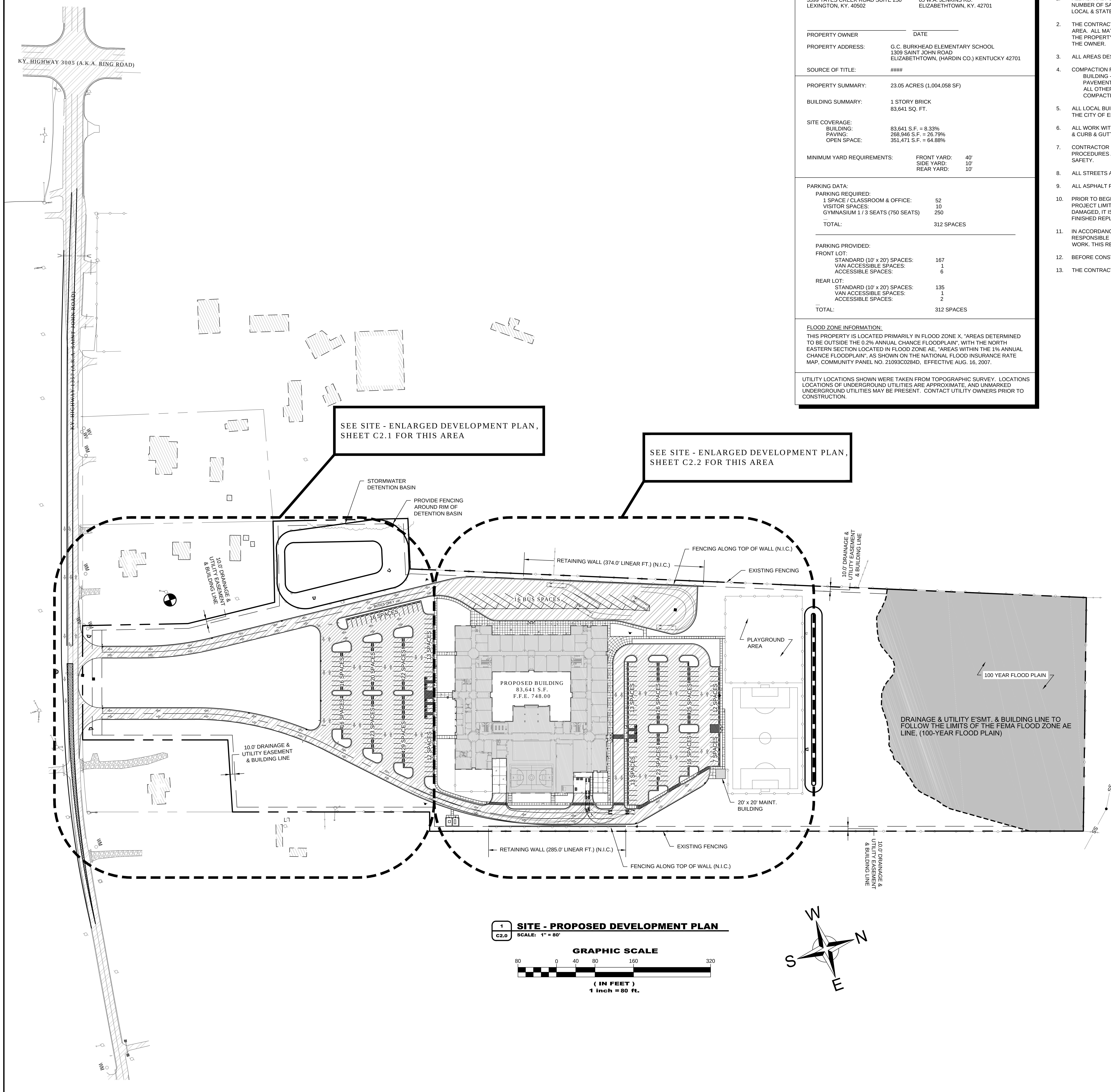
FLOOD ZONE INFORMATION:

THIS PROPERTY IS LOCATED PRIMARILY IN FLOOD ZONE X, "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", WITH THE NORTH EASTERN SECTION LOCATED IN FLOOD ZONE AE, "AREAS WITHIN THE 1% ANNUAL CHANCE FLOODPLAIN", AS SHOWN ON THE NATIONAL FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 21093C0284D, EFFECTIVE AUG. 16, 2007.

UTILITY LOCATIONS SHOWN WERE TAKEN FROM TOPOGRAPHIC SURVEY. LOCATIONS LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE, AND UNMARKED UNDERGROUND UTILITIES MAY BE PRESENT. CONTACT UTILITY OWNERS PRIOR TO CONSTRUCTION.

SITE DEVELOPMENT NOTES:

1. ALL ASPHALT SURFACE OF EXISTING ROADWAYS DAMAGED DURING CONSTRUCTION SHALL BE SAWCUT, REMOVED AND REPLACED. THE NUMBER OF SAWCUTS SHALL BE MINIMIZED IN ORDER TO MAKE ONE CONTINUOUS PATCH AS DIRECTED BY THE PROJECT MANAGER AND OR LOCAL & STATE OFFICIALS.
2. THE CONTRACTOR SHALL REMOVE ALL EXISTING TREES, SHRUBS, ASPHALT, CONCRETE AND ETC. FROM THE SITE AND OR CONSTRUCTION AREA. ALL MATERIAL, ASPHALT, VEGETATION, DIRT, GRAVEL, ROCK, TREE LIMBS AND ETC. REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROPERTY IN AN APPROVED MANNER AT NO ADDITIONAL COST TO THE OWNER.
3. ALL AREAS DESIGNATED AS LANDSCAPE SHALL RECEIVE A MINIMUM OF 8" TOPSOIL.
4. COMPACTION REQUIREMENTS:
   BUILDING - 98%
   PAVEMENT & SIDEWALK AREAS - 95%
   ALL OTHER AREAS - 90%
   COMPACTION SHALL BE PER ASTM D-698, STANDARD PROCTOR (%, MAXIMUM DRY DENSITY).
5. ALL LOCAL BUILDING PERMITS, FEES AND ETC. ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK SHALL BE IN CONFORMANCE WITH THE CITY OF ELIZABETHTOWN STANDARDS AND PROCEDURES.
6. ALL WORK WITHIN ROADWAY EASEMENTS & R/W SHALL CONFORM TO LOCAL STANDARDS. IF DISTURBED, ALL ASPHALT PAVEMENT, SIDEWALK & CURB & GUTTER AND ETC. TO BE REINSTALLED SHALL MATCH EXISTING WIDTHS, THICKNESS' & ETC.
7. CONTRACTOR SHALL IMPLEMENT TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH APPLICABLE STATE & LOCAL STANDARDS, PROCEDURES AND REGULATIONS WHILE WORKING WITHIN ROADWAY EASEMENTS & R/W OR WHEN WORK AFFECTS TRAFFIC FLOW OR SAFETY.
8. ALL STREETS AND ROADWAYS ADJACENT TO PROJECT SHALL BE CLEANED OF DIRT AND DEBRIS AT THE END OF EACH DAY.
9. ALL ASPHALT PAVEMENT, SIDEWALK & CURB & GUTTER AND ETC. TO BE REINSTALLED SHALL MATCH EXISTING WIDTHS, THICKNESS' & ETC.
10. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND FIELD LOCATING ALL UTILITIES WITHIN THE PROJECT LIMITS SO THAT CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITY LINES. IF ANY UTILITY LINES ARE DAMAGED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE UTILITY LINES AT THE CONTRACTOR'S EXPENSE. FINISHED REPLACEMENT OR REPAIR SHALL MEET THE APPROVAL OF THE SPECIFIC UTILITY OWNER.
11. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.
12. BEFORE CONSTRUCTION, THE CONTRACTOR SHOULD CONTACT KENTUCKY 811 (800-752-6007).
13. THE CONTRACTOR SHALL NOT SCALE FROM THESE PLANS FOR FIELD SURVEY LOCATIONS.


KY. HIGHWAY 3005 (A.K.A. RING ROAD)
KY. HIGHWAY 1357 (A.K.A. SAINT JOHN ROAD)
SEE SITE - ENLARGED DEVELOPMENT PLAN, SHEET C2.1 FOR THIS AREA
SEE SITE - ENLARGED DEVELOPMENT PLAN, SHEET C2.2 FOR THIS AREA
STORMWATER DETENTION BASIN
PROVIDE FENCING AROUND RIM OF DETENTION BASIN
10.0' DRAINAGE & UTILITY EASEMENT & BUILDING LINE
RETAINING WALL (374.0' LINEAR FT.) (N.I.C.)
FENCING ALONG TOP OF WALL (N.I.C.)
EXISTING FENCING
16 BUS SPACES
15 SPACES
PROPOSED BUILDING
83,641 S.F.
F.F.E. 748.00
PLAYGROUND AREA
100 YEAR FLOOD PLAIN
DRAINAGE & UTILITY E'SMT. & BUILDING LINE TO FOLLOW THE LIMITS OF THE FEMA FLOOD ZONE AE LINE, (100-YEAR FLOOD PLAIN)
20' x 20' MAINT. BUILDING
RETAINING WALL (285.0' LINEAR FT.) (N.I.C.)
FENCING ALONG TOP OF WALL (N.I.C.)
SS
WM
W
S
N
E
GRAPHIC SCALE
80
0
40
80
160
320
(IN FEET)
1 inch = 80 ft.

1 / C2.0 SITE - PROPOSED DEVELOPMENT PLAN
SCALE: 1" = 80'

LEGEND

- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EASEMENTS
- EXISTING CURB AND GUTTER
- EXISTING BUILDING
- EXISTING PAVEMENT
- EXISTING SIDEWALK
- PROPOSED PAVEMENT
- PROPOSED SIDEWALK
- PROPOSED BUILDING
- PROPOSED STANDARD CURB AND GUTTER
- PROPOSED PARKING STRIPE
- PROPOSED REVERSE CURB AND GUTTER
- EXISTING BUILDING
- EXISTING ASPHALT PAVEMENT
- EXISTING GRAVEL SURFACE
- PROPOSED BUILDING
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- CATCH BASIN
- CO ○ CLEAN OUT
- CURB INLET
- FIRE HYDRANT
- FP ○ FLAG POLE
- HEADWALL
- GM □ GAS METER
- GV GAS VALVE
- GUY WIRE
- LIGHT POLE
- PIV ○ POST INDICATOR VALVE
- #1300 PROPERTY ADDRESS
- SANITARY SEWER MANHOLE
- SIGN
- PED □ TELEPHONE PEDESTAL
- UTILITY POLE
- WM WV ○ WATER METER or VALVE
- SP ○ WATER SPIGOT

JOB NAME
G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE
SITE - PROPOSED
DEVELOPMENT PLAN

MURPHY · GRAVES
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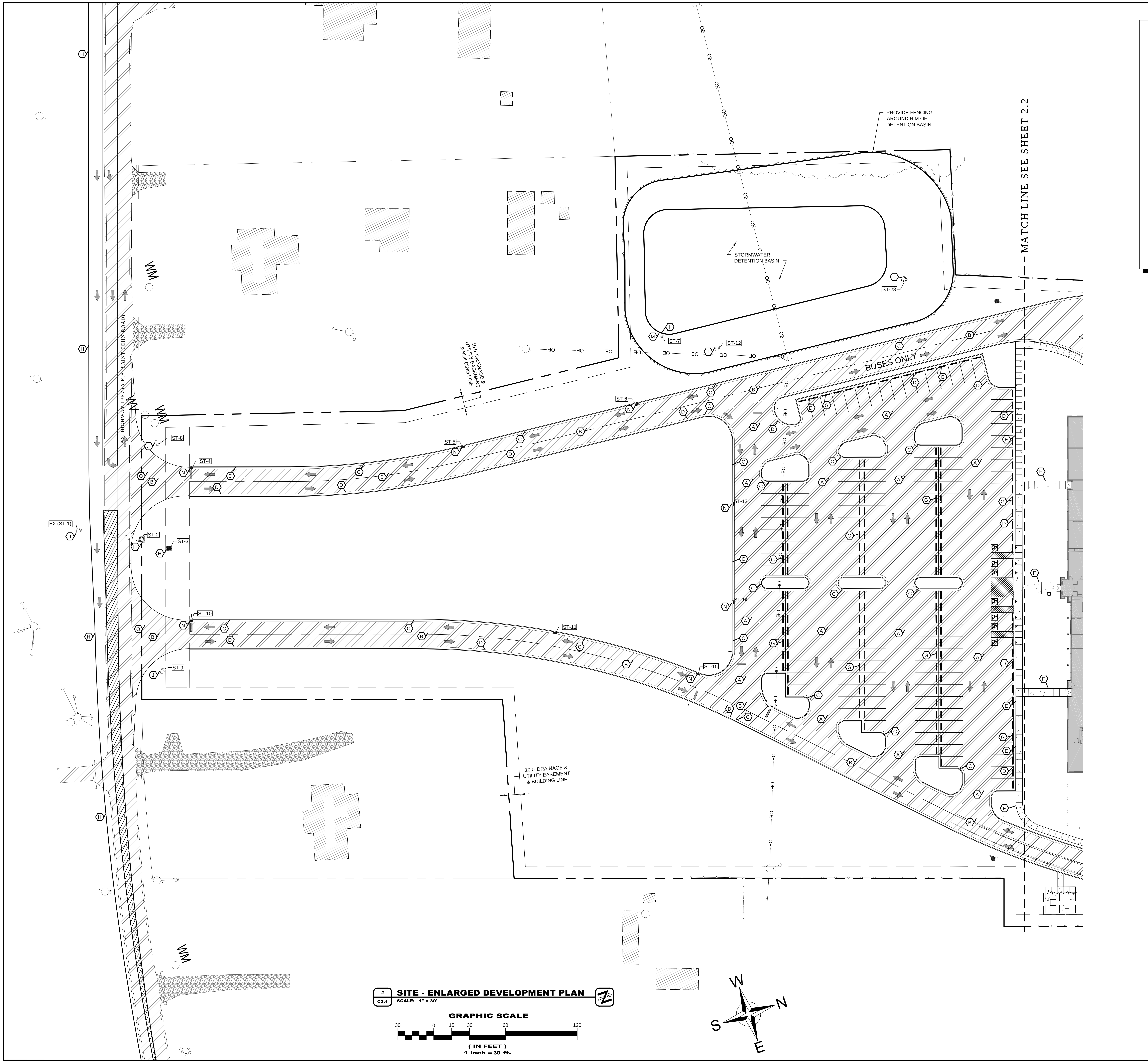
PROVIDE FENCING AROUND RIM OF DETENTION BASIN
STORMWATER DETENTION BASIN
MATCH LINE SEE SHEET 2.2
BUSES ONLY
10.0' DRAINAGE & UTILITY EASEMENT & BUILDING LINE
KY. HIGHWAY 1357 (A.K.A. SAINT JOHN ROAD)
EX (ST-1)
ST-2
ST-3
ST-4
ST-5
ST-6
ST-7
ST-8
ST-9
ST-10
ST-11
ST-12
ST-13
ST-14
ST-15
ST-23
OE
WM
W
N
S
E

#
C2.1

SITE - ENLARGED DEVELOPMENT PLAN

SCALE: 1" = 30'

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

SITE PLAN KEY NOTES:

* ALL KEY NOTES ARE FOR PROPOSED ITEMS. SEE SITE DETAIL SHEETS FOR SPECIFIC DETAILS OF CONSTRUCTION

A	FUTURE STANDARD DUTY ASPHALT PAVING (N.I.C.). SEE DETAIL 1, SHEET C8.0 FOR GRADING REQUIREMENTS.
B	FUTURE HEAVY DUTY ASPHALT PAVING (N.I.C.). SEE DETAIL 2, SHEET C8.0 FOR GRADING REQUIREMENTS.
C	FUTURE STANDARD CURB AND GUTTER (N.I.C.). SEE DETAIL 5, SHEET C8.0 FOR GRADING REQUIREMENTS.
D	FUTURE REVERSE SLOPE CURB AND GUTTER (N.I.C.). SEE DETAIL 6, SHEET C8.0 FOR GRADING REQUIREMENTS.
E	FUTURE CONCRETE SIDEWALK (N.I.C.). SEE DETAIL 7, SHEET C8.0 FOR GRADING REQUIREMENTS.
F	FUTURE FLUSH CONCRETE SIDEWALK (N.I.C.). SEE DETAIL 8, SHEET C8.0 FOR GRADING REQUIREMENTS.
7	FUTURE CONCRETE CURB STOP (N.I.C.).
G	FUTURE WIDENING AND INSTALLATION OF LEFT TURN LANE (N.I.C.).
H	48" X 48" CATCH BASIN. SEE DETAIL 1, SHEET C8.1.
I	SLOPED AND FLARED CONCRETE HEADWALL. SEE DETAIL 2, SHEET C8.1.
J	30" - 60" PRECAST CONCRETE HEADWALL. SEE DETAIL 3, SHEET C8.1.
K	18" INLINE DRAIN (ELBOW). SEE DETAIL 4, SHEET C8.1.
L	18" INLINE DRAIN (TEE). SEE DETAIL 5, SHEET C8.1.
M	ORIFICE PLATE. SEE DETAIL 6, SHEET C8.1.
N	30" DRAIN BASIN. SEE DETAIL 1, SHEET C8.2.
O	TYPICAL CONSTRUCTION ENTRANCE. SEE DETAIL 12, SHEET C8.0.

LEGEND

PROPERTY LINE
ADJOINING PROPERTY LINE
EASEMENTS

EXISTING BUILDING
EXISTING PAVEMENT

PROPOSED PAVEMENT
PROPOSED SIDEWALK
PROPOSED BUILDING
PROPOSED STANDARD CURB AND GUTTER
PROPOSED PARKING STRIPE
PROPOSED REVERSE CURB AND GUTTER

▨ EXISTING BUILDING
▨ EXISTING ASPHALT PAVEMENT
▨ EXISTING GRAVEL SURFACE
▨ PROPOSED HEAVY DUTY ASPHALT PAVEMENT
▨ PROPOSED STANDARD DUTY ASPHALT PAVEMENT
▨ PROPOSED CONCRETE PAVEMENT

CATCH BASIN
CURB INLET
HYD FIRE HYDRANT
HEADWALL
GM GAS METER
GV GAS VALVE
GUY WIRE
LIGHT POLE
SIGN
PED TELEPHONE PEDESTAL
UTILITY POLE
WM WV WATER METER or VALVE
SP WATER SPIGOT

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SHEET TITLE

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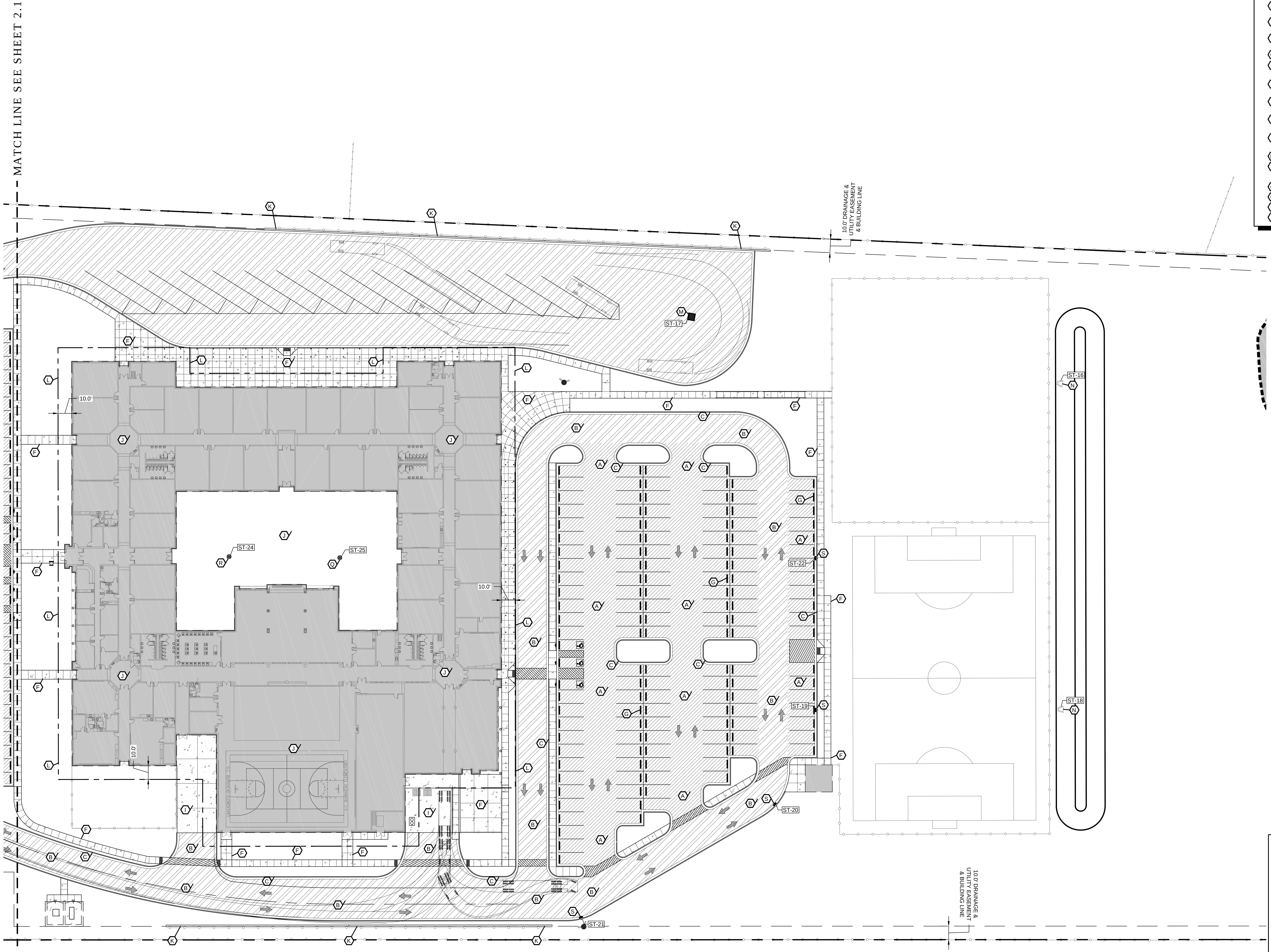

MATCH LINE SEE SHEET 2.1
10.0' DRAINAGE & UTILITY EASEMENT & BUILDING LINE
10.0' DRAINAGE & UTILITY EASEMENT & BUILDING LINE
10.0'
10.0'
10.0'
ST-16
ST-17
ST-18
ST-19
ST-20
ST-21
ST-22
ST-24
ST-25
A
B
C
E
F
G
J
K
L
M
N
R
S

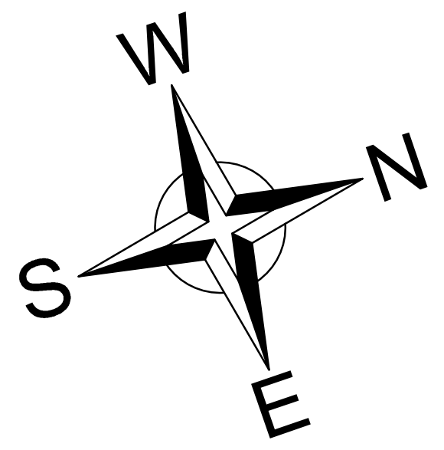
SITE PLAN KEY NOTES:

* ALL KEY NOTES ARE FOR PROPOSED ITEMS. SEE SITE DETAIL SHEETS FOR SPECIFIC DETAILS OF CONSTRUCTION

- A FUTURE STANDARD DUTY ASPHALT PAVING (N.I.C.). SEE DETAIL 1, SHEET C8.0 FOR GRADING REQUIREMENTS.
- B FUTURE HEAVY DUTY ASPHALT PAVING (N.I.C.). SEE DETAIL 2, SHEET C8.0 FOR GRADING REQUIREMENTS.
- C FUTURE STANDARD CURB AND GUTTER (N.I.C.). SEE DETAIL 5, SHEET C8.0 FOR GRADING REQUIREMENTS.
- D FUTURE REVERSE SLOPE CURB AND GUTTER (N.I.C.). SEE DETAIL 6, SHEET C8.0 FOR GRADING REQUIREMENTS.
- E FUTURE CONCRETE SIDEWALK (N.I.C.). SEE DETAIL 7, SHEET C8.0 FOR GRADING REQUIREMENTS.
- F FUTURE FLUSH CONCRETE SIDEWALK (N.I.C.). SEE DETAIL 8, SHEET C8.0 FOR GRADING REQUIREMENTS.
- G FUTURE CONCRETE CURB STOP (N.I.C.).
- H FUTURE STANDARD DUTY CONCRETE PAVING (N.I.C.). SEE DETAIL 3, SHEET C8.0 FOR GRADING REQUIREMENTS.
- I FUTURE HEAVY DUTY CONCRETE PAVING (N.I.C.). SEE DETAIL 4, SHEET C8.0 FOR GRADING REQUIREMENTS.
- J FUTURE BUILDING (N.I.C.). SEE DETAIL 9, SHEET C8.0 FOR GRADING REQUIREMENTS.
- K FUTURE RETAINING WALL (N.I.C.). SEE DETAIL 11, SHEET C8.0 FOR GRADING REQUIREMENTS.
- L LIMITS OF LIME STABILIZATION FOR BUILDING PAD. SEE DETAIL 10, SHEET C8.0.
- M 48" X 48" CATCH BASIN. SEE DETAIL 1, SHEET C8.1.
- N SLOPED AND FLARED CONCRETE HEADWALL. SEE DETAIL 2, SHEET C8.1.
- O 30" - 60" PRECAST CONCRETE HEADWALL. SEE DETAIL 3, SHEET C8.1.
- Q 18" INLINE DRAIN (ELBOW). SEE DETAIL 4, SHEET C8.1.
- R 18" INLINE DRAIN (TEE). SEE DETAIL 5, SHEET C8.1.
- S 30" DRAIN BASIN. SEE DETAIL 1, SHEET C8.2.

# C2.2 SITE - ENLARGED DEVELOPMENT PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.



LEGEND

— — — —	PROPERTY LINE
— — — —	ADJOINING PROPERTY LINE
— — — —	EASEMENTS
— — — —	EXISTING BUILDING
— — — —	EXISTING PAVEMENT
— — — —	PROPOSED PAVEMENT
▦	PROPOSED SIDEWALK
— — — —	PROPOSED BUILDING
═	PROPOSED STANDARD CURB AND GUTTER
—	PROPOSED PARKING STRIPE
═	PROPOSED REVERSE CURB AND GUTTER
▨	EXISTING BUILDING
▨	EXISTING ASPHALT PAVEMENT
▨	EXISTING GRAVEL SURFACE
▨	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
▨	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
▨	PROPOSED CONCRETE PAVEMENT
▣	CATCH BASIN
▤	CURB INLET
●	FIRE HYDRANT
⏢	HEADWALL

JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - ENLARGED
DEVELOPMENT PLAN

MURPHY·GRAVES
ARCHITECTS

3399 Tates Creek Road, suite 250
Lexington, KY 40502
ph:859.559.0504 fax:859.559.0523
www.murphygraves.com

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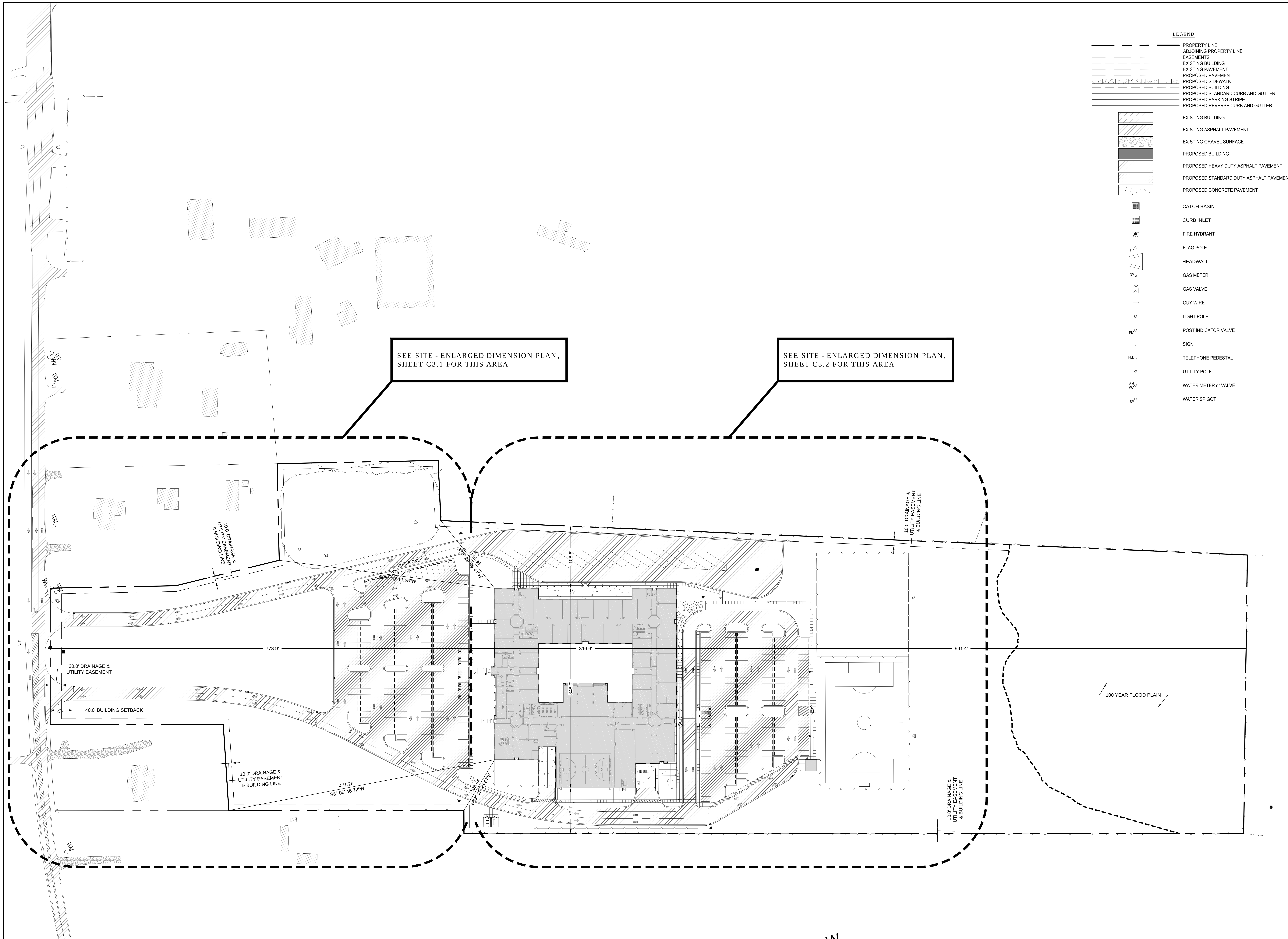
PHONE - (270).443.1995
1215 DIUGUID DRIVE, MURRAY, KY 42071
PHONE - (270).753.7307
403 NORTH COURT STREET, MARION, IL 62959
PHONE - (618).993.6700

JOB NO. 1264
DATE 07.15.2013
PRODUCED BY: SAK/SLH
NOTES:

SHEET NUMBER
C2.2


773.9'
316.6'
991.4'
348.0'
108.6'
79.1'
BUSES ONLY
378.14
S26° 19' 11.25"W
150.36
S70° 29' 09.41"W
471.26
S8° 06' 46.72"W
103.44
S39° 55' 23.67"E
10.0' DRAINAGE & UTILITY EASEMENT & BUILDING LINE
20.0' DRAINAGE & UTILITY EASEMENT
40.0' BUILDING SETBACK
10.0' DRAINAGE & UTILITY EASEMENT & BUILDING LINE
10.0' DRAINAGE & UTILITY EASEMENT & BUILDING LINE
10.0' DRAINAGE & UTILITY EASEMENT & BUILDING LINE
100 YEAR FLOOD PLAIN
WM
WV
WM
WM
WM
WM

SEE SITE - ENLARGED DIMENSION PLAN, SHEET C3.1 FOR THIS AREA

SEE SITE - ENLARGED DIMENSION PLAN, SHEET C3.2 FOR THIS AREA

LEGEND

▬ ▬ ▬	PROPERTY LINE
— — —	ADJOINING PROPERTY LINE
— — —	EASEMENTS
- - -	EXISTING BUILDING
— — —	EXISTING PAVEMENT
— — —	PROPOSED PAVEMENT
	PROPOSED SIDEWALK
- - -	PROPOSED BUILDING
═	PROPOSED STANDARD CURB AND GUTTER
—	PROPOSED PARKING STRIPE
═	PROPOSED REVERSE CURB AND GUTTER
▨	EXISTING BUILDING
▨	EXISTING ASPHALT PAVEMENT
	EXISTING GRAVEL SURFACE
■	PROPOSED BUILDING
▨	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
▨	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT
▦	CATCH BASIN
▦	CURB INLET
HYD	FIRE HYDRANT
FP ○	FLAG POLE
	HEADWALL
GM □	GAS METER
GV ⋈	GAS VALVE
→	GUY WIRE
¤	LIGHT POLE
PIV ○	POST INDICATOR VALVE
─○─	SIGN
PED □	TELEPHONE PEDESTAL
∅	UTILITY POLE
WM WV ○	WATER METER or VALVE
SP ○	WATER SPIGOT

SITE - PROPOSED DIMENSIONAL PLAN

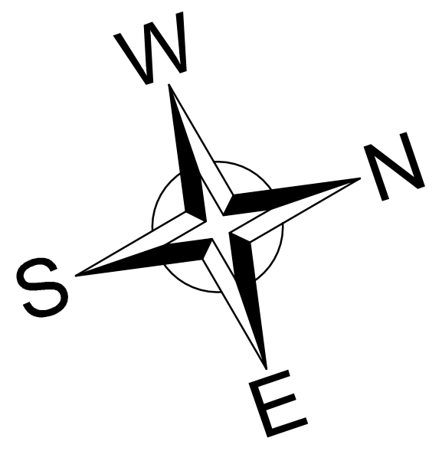
# C3.0

SCALE: 1" = 60'

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.



JOB NAME
G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE
SITE - PROPOSED
DIMENSIONAL PLAN

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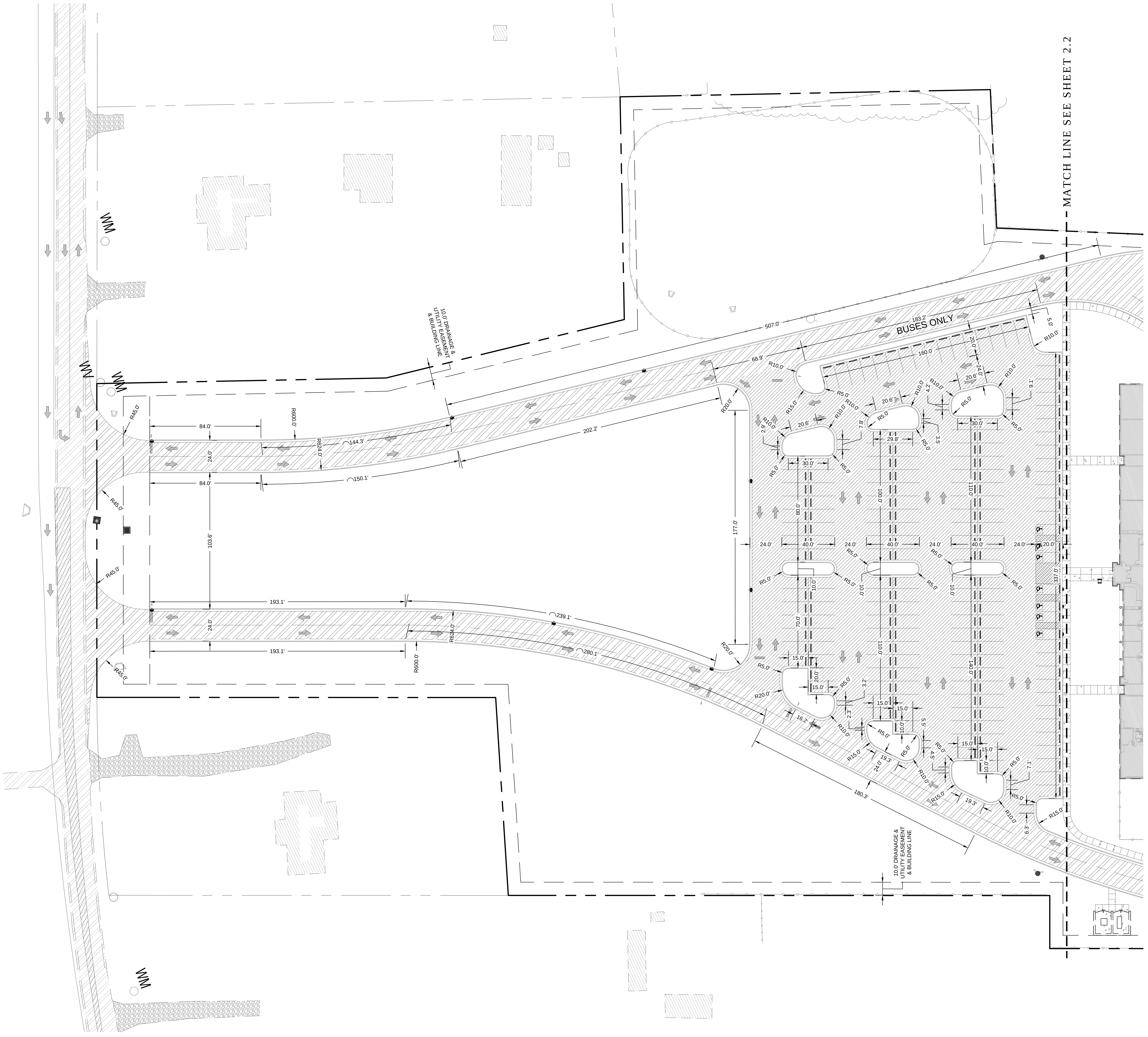


LEGEND

- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EASEMENTS
- EXISTING BUILDING
- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- PROPOSED SIDEWALK
- PROPOSED BUILDING
- PROPOSED STANDARD CURB AND GUTTER
- PROPOSED PARKING STRIPE
- PROPOSED REVERSE CURB AND GUTTER
- EXISTING BUILDING
- EXISTING ASPHALT PAVEMENT
- EXISTING GRAVEL SURFACE
- PROPOSED BUILDING
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- CATCH BASIN
- CURB INLET
- FIRE HYDRANT
- FP ○ FLAG POLE
- HEADWALL
- GM □ GAS METER
- GV GAS VALVE
- GUY WIRE
- LIGHT POLE
- PIV ○ POST INDICATOR VALVE
- SIGN
- PED □ TELEPHONE PEDESTAL
- UTILITY POLE
- WM/WV ○ WATER METER or VALVE
- SP ○ WATER SPIGOT

GENERAL DIMENSION PLAN NOTES:

1. ALL DIMENSIONS ALONG CURB REFERENCE FACE OF CURB.

#
C3.1

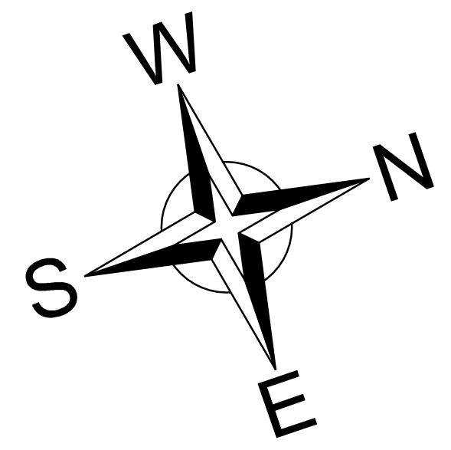
SITE - ENLARGED DIMENSION PLAN

SCALE: 1" = 30'

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
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SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - ENLARGED
DIMENSION PLAN

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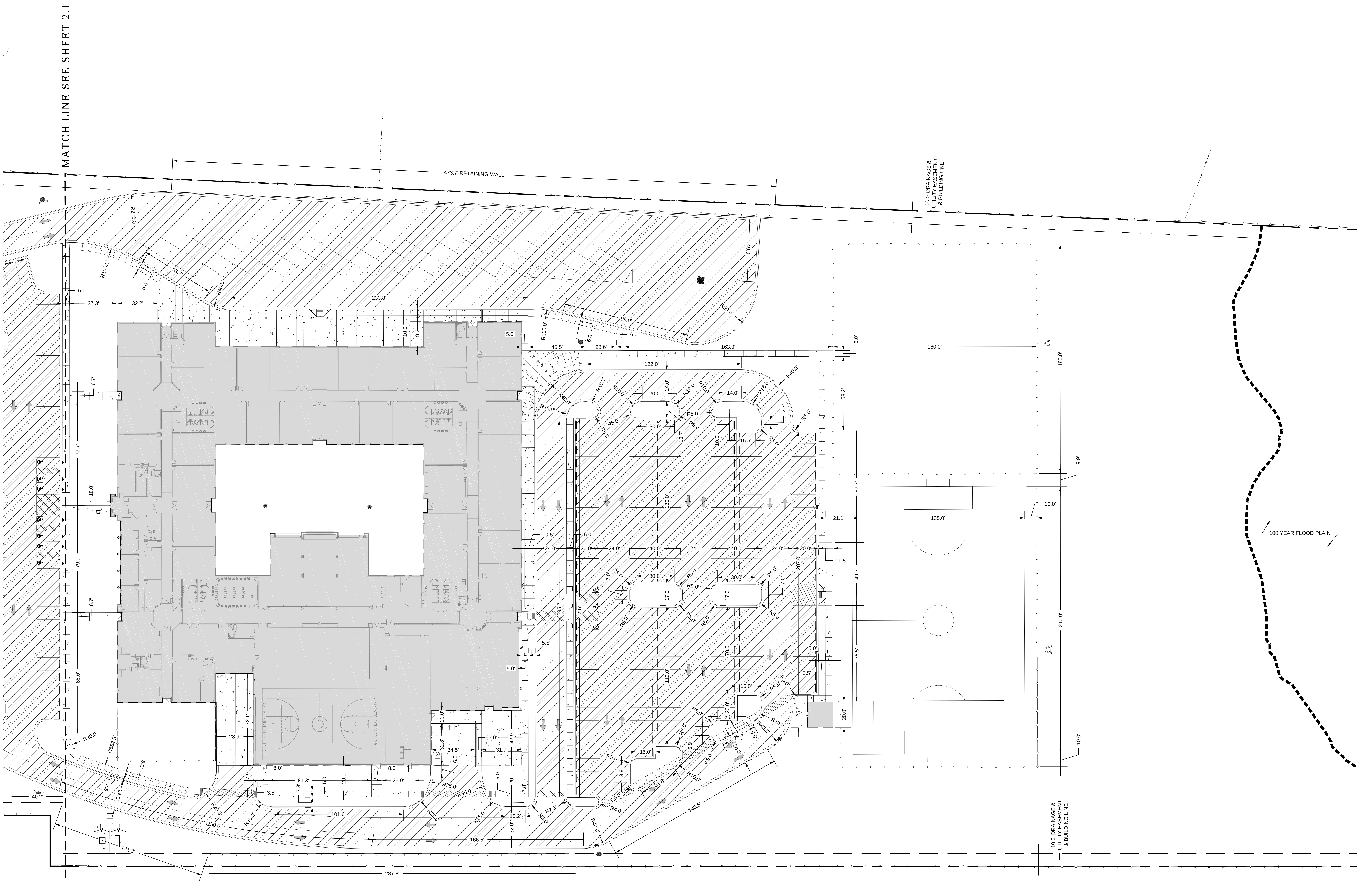
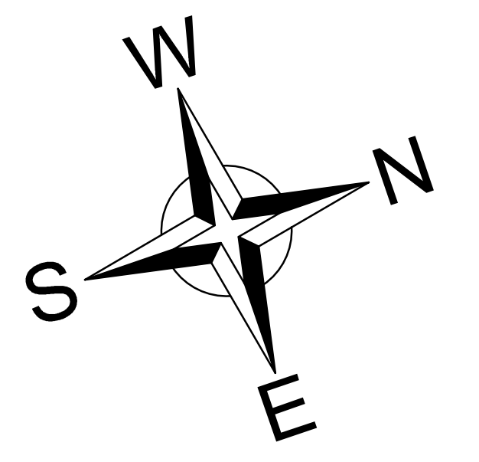
NOTES:

SHEET NUMBER

C3.1





GENERAL DIMENSION PLAN NOTES:

1. ALL DIMENSIONS ALONG CURB REFERENCE FACE OF CURB.

C3.2

SITE - ENLARGED DIMENSION PLAN

SCALE: 1" = 30'

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 3 ft.

LEGEND

- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EASEMENTS
- EXISTING BUILDING
- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- PROPOSED SIDEWALK
- PROPOSED BUILDING
- PROPOSED STANDARD CURB AND GUTTER
- PROPOSED PARKING STRIPE
- PROPOSED REVERSE CURB AND GUTTER
- EXISTING BUILDING
- EXISTING ASPHALT PAVEMENT
- EXISTING GRAVEL SURFACE
- PROPOSED BUILDING
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- CATCH BASIN
- CURB INLET

HYD	FIRE HYDRANT
FP	FLAG POLE
	HEADWALL
GM	GAS METER
GV	GAS VALVE
	GUY WIRE
	LIGHT POLE
PIV	POST INDICATOR VALVE
	SIGN
PED	TELEPHONE PEDESTAL
	UTILITY POLE
WM WV	WATER METER or VALVE
SP	WATER SPIGOT

JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - ENLARGED
DIMENSION PLAN

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JOB NO. 1264
DATE 07.15.2013
PRODUCED BY: SAK/SLH
NOTES:

SHEET NUMBER

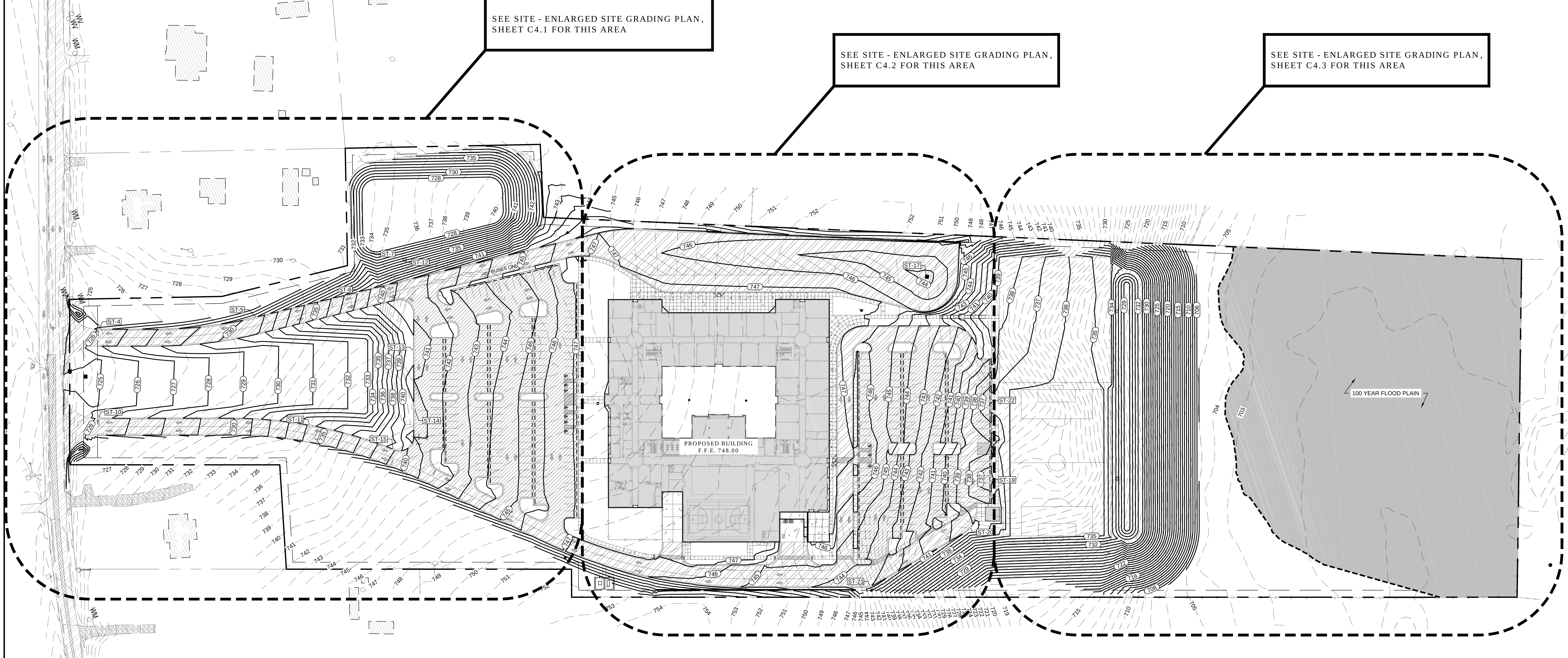
C3.2

SITE GRADING NOTES:

1. ALL CONTOURS AND SPOT ELEVATIONS INDICATE FINISH GRADE, ON EARTH, ASPHALT OR CONC. SINGLE SPOT ELEVATIONS INDICATE PAVEMENT SURFACE ELEVATION OR GUTTER FLOW LINE ELEVATION.
2. PRIOR TO COMPLETING A BID AND BEGINNING CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND FIELD LOCATING ALL UTILITIES WITHIN THE PROJECT LIMITS SO THAT CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITY LINES. IF ANY UTILITY LINES ARE DAMAGED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE UTILITY LINES AT THE CONTRACTOR'S EXPENSE. FINISHED REPLACEMENT OR REPAIR SHALL MEET THE APPROVAL OF THE SPECIFIC UTILITY OWNER.
3. ALL FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% (BUILDING PADS 98%) OF THE MAXIMUM DRY DENSITY PER STANDARD PROCTOR ANALYSIS ASTM D 698 OR TO THE PROJECT SPECIFICATIONS.
4. EXISTING ELEVATIONS AND CONTOURS ON THIS PLAN ARE PROVIDED FROM SITE SURVEY BY BACON FARMER WORKMAN ENGINEERING & TESTING INC.. CONTRACTOR SHALL COORDINATE HORIZONTAL AND VERTICAL CONTROL WITH ENGINEER OR SURVEYOR PRIOR TO COMPLETING A BID AND COMMENCEMENT OF CONSTRUCTION.
5. IMPROPER GRADING/FINISHING OF ALL EXCAVATION AND FILL PLACEMENT WITHIN THE PROJECT LIMITS OR ADJACENT RIGHT-OF-WAYS THAT RESULTS IN DRAINAGE PROBLEMS SHALL BE REMOVED AND REINSTALLED TO IMPLEMENT POSITIVE DRAINAGE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR IS RESPONSIBLE FOR SEDIMENTATION CONTROL OF ONSITE RUNOFF IN ACCORDANCE WITH THE ACCEPTED EROSION AND SEDIMENTATION CONTROL PRACTICES FOR CONSTRUCTION ACTIVITIES IN THE STATE OF KENTUCKY AND/OR CITY OF ELIZABETHTOWN.
7. THE IMPROVEMENT OF THIS SITE SHALL NOT OBSTRUCT THE NECESSARY DRAINAGE REQUIRED.
8. THE DRAINAGE PATTERN CREATED BY THE DEVELOPMENT OF THIS SITE SHALL BE CONSISTENT WITH THE PREVIOUS STORMWATER DRAINAGE PATTERNS. THE ADJACENT PROPERTY OWNERS SHALL NOT REALIZE ANY CHANGE IN RUNOFF TO THEIR PROPERTY.
9. ALL POTENTIAL EROSION SHALL BE CONTROLLED IN SUCH A MANNER SO AS TO PREVENT ANY DISPLACEMENT OF SILT TO THE ADJACENT PROPERTY OWNERS OR RIGHT-OF-WAY.
10. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS.
11. BEFORE CONSTRUCTION, THE CONTRACTOR SHOULD CONTACT KENTUCKY 811 (800-752-6007).
12. ALL DISTURBED AREAS NOT TO RECEIVE PAVEMENT SHALL BE BACKFILLED WITH MINIMUM 6" TOPSOIL, FINE GRADED TO DRAIN, SEEDED, SODDED OR LANDSCAPED, FERTILIZED, AND PROTECTED.
13. THE CONTRACTOR SHALL NOT SCALE FROM THESE PLANS FOR FIELD SURVEY LOCATIONS.
14. ALL SOFT AND UNSUITABLE MATERIAL IN AREAS TO RECEIVE FILL MUST BE OVER-EXCAVATED TO A STABLE SUB-BASE, AND BACKFILLED WITH AN APPROVED ENGINEERED BACKFILL. ALL BACKFILL MUST MEET THE COMPACTION REQUIREMENTS OF THE SPECIFICATIONS OR AS SHOWN ON THIS DRAWING, WHICHEVER IS THE MORE STRINGENT REQUIREMENT.
15. AT PROPOSED ENTRANCES CONTRACTOR IS TO CUT AND REMOVE EXISTING CURB. CONTRACTOR IS TO MATCH PROPOSED CURB WITH EXISTING CURB USING RECOMMENDED RADIUS. CONTRACTOR IS TO MATCH PROPOSED PAVEMENT WITH EXISTING PAVEMENT TO MEET CITY STANDARDS.

CONTRACTOR NOTE:

ALL GRADING AND SPOT ELEVATIONS SHOWN ON THIS DRAWING ARE TO FINISH GRADE. REFER TO DETAILS ON SHEET C8.0 FOR EARLY SITE PACKAGE GRADING REQUIREMENTS.


SEE SITE - ENLARGED SITE GRADING PLAN, SHEET C4.1 FOR THIS AREA
SEE SITE - ENLARGED SITE GRADING PLAN, SHEET C4.2 FOR THIS AREA
SEE SITE - ENLARGED SITE GRADING PLAN, SHEET C4.3 FOR THIS AREA
PROPOSED BUILDING
F.F.E. 748.00
100 YEAR FLOOD PLAIN
BUSES ONLY

SITE SOIL REMEDIATION NOTE:

SOFT, UNSUITABLE SOILS WERE NOTED IN THE GEOTECHNICAL REPORT FOR THIS SITE AND UNDERSTANDING THAT SOFT MATERIAL WILL MOST LIKELY BE FOUND UNDER AND AROUND THE EXISTING POND. CONTRACTOR SHALL INCLUDE 12,500 CUBIC YARDS OF OVER EXCAVATION & ENGINEERED BACKFILL IN BASE BID FOR THE CONTRACT. THIS OVER EXCAVATION SHALL BE CALCULATED FROM SUBGRADE DOWN TO SUITABLE SOILS. UNSUITABLE SOILS MAY BE WASTED IN LAWN AREAS OF THE SITE AND ENGINEERED REPLACEMENT SOIL MAY BE BORROWED FROM THE SITE. ALL EXCESS/OVER EXCAVATION SHALL BE MONITORED AND OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER. CONSTRUCTION CONTRACT SHALL BE ADJUSTED BY CHANGE ORDER BASED ON ACTUAL QUANTITY OF OVER EXCAVATION/ENGINEERED BACKFILL REQUIRED AND MEASURED IN FIELD.

BURIED UTILITIES NOTE

BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT KENTUCKY 811 @ 811 OR 1-800-752-6007 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

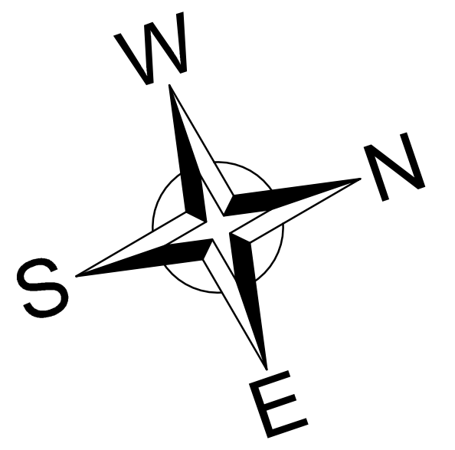
Kentucky 811
Know what's below.
Call before you dig.

Call 811 or 800-752-6007
www.kentucky811.com
Two Business Days Before You Dig
IT'S THE LAW

1
C4.0
SITE - SITE GRADING PLAN
SCALE: 1" = 60'

GRAPHIC SCALE

(IN FEET)
1 inch = 60 ft.



LEGEND

▬ ▬ ▬	PROPERTY LINE
— — —	ADJOINING PROPERTY LINE
— — —	EASEMENTS
— — —	EXISTING BUILDING
— — —	EXISTING PAVEMENT
— — — 500 — — —	EXISTING MAJOR CONTOUR
— — — 501 — — —	EXISTING MINOR CONTOUR
— — —	PROPOSED PAVEMENT
▨	PROPOSED SIDEWALK
— — —	PROPOSED BUILDING
═	PROPOSED STANDARD CURB AND GUTTER
—	PROPOSED PARKING STRIPE
═	PROPOSED REVERSE CURB AND GUTTER
—(500)—	PROPOSED CONTOURS
▨	EXISTING BUILDING
▨	EXISTING ASPHALT PAVEMENT
▨	EXISTING CONCRETE PAVEMENT
▨	EXISTING GRAVEL SURFACE
■	PROPOSED BUILDING
▨	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
▨	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
▨	PROPOSED CONCRETE PAVEMENT

▦	CATCH BASIN
CO○	CLEAN OUT
▦	CURB INLET
DS•	DOWN SPOUT
HYD	FIRE HYDRANT
FP○	FLAG POLE
⏢	HEADWALL
GM□	GAS METER
GV ⋈	GAS VALVE
→	GUY WIRE
¤	LIGHT POLE
—○—	SIGN
∅	UTILITY POLE
WM WV○	WATER METER or VALVE
SP○	WATER SPIGOT

JOB NAME
G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE
SITE - SITE GRADING PLAN

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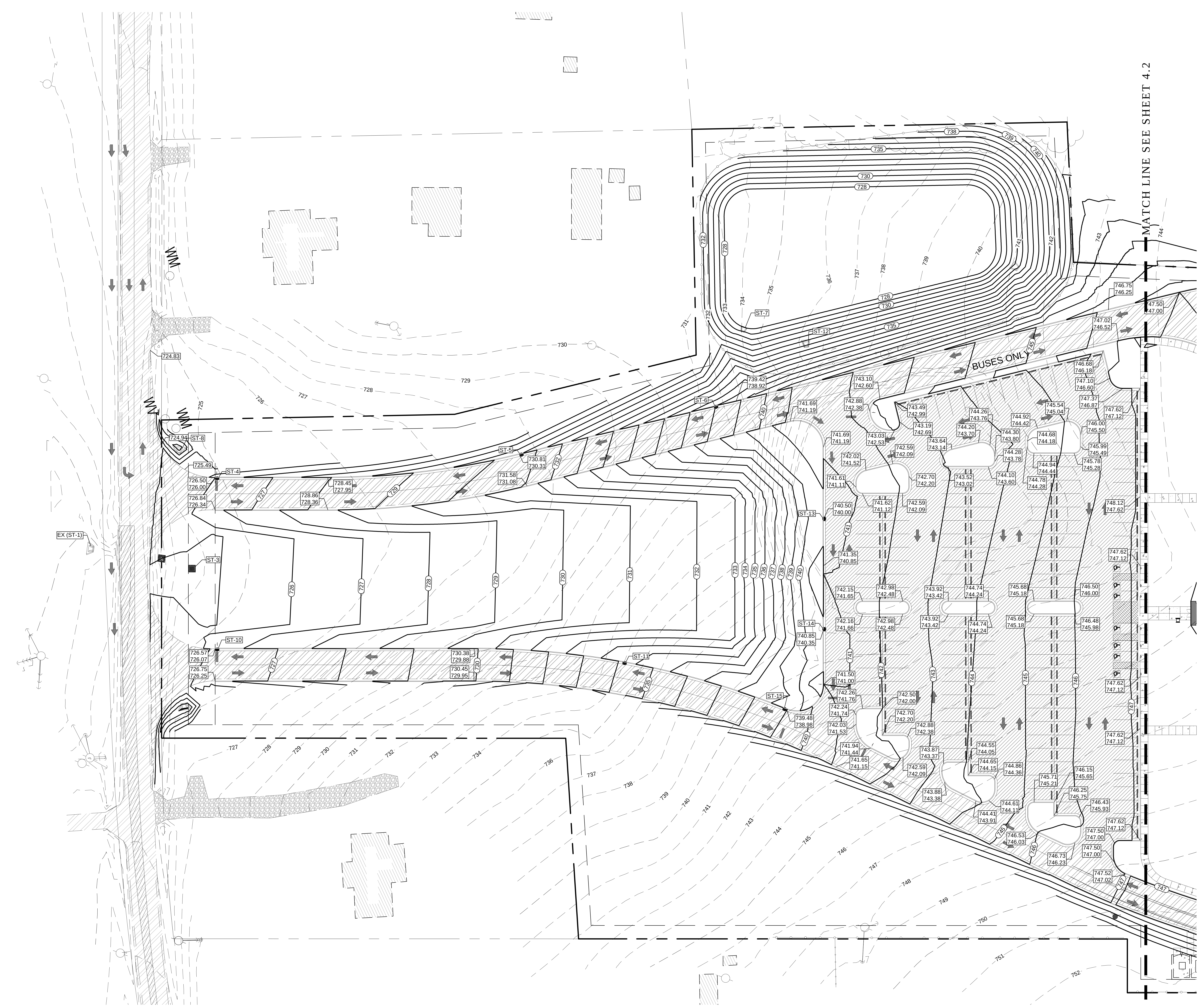
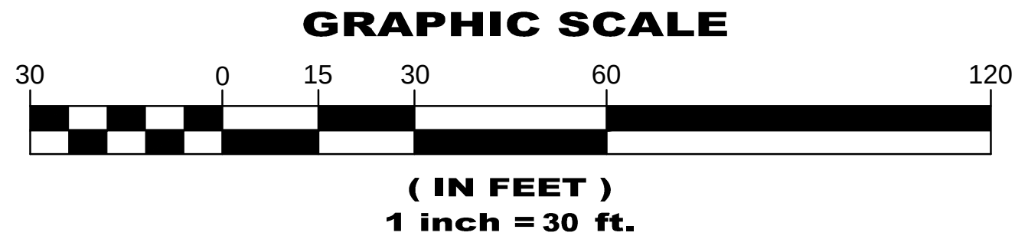
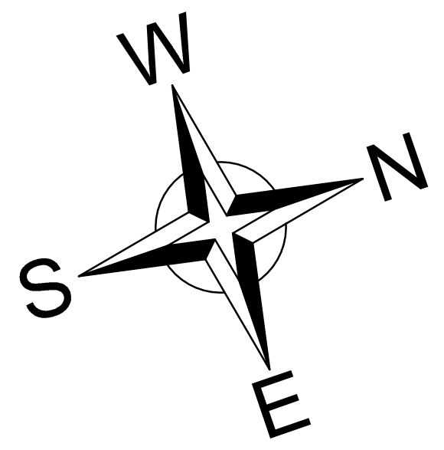


SITE - ENLARGED SITE GRADING PLAN

1
C4.1
SCALE: 1" = 30'





CONTRACTOR NOTE:

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LEGEND

	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENTS
	EXISTING BUILDING
	EXISTING PAVEMENT
	EXISTING PARKING STRIPE
500	EXISTING MAJOR CONTOUR
501	EXISTING MINOR CONTOUR
	PROPOSED PAVEMENT
	PROPOSED SIDEWALK
	PROPOSED BUILDING
	PROPOSED STANDARD CURB AND GUTTER
	PROPOSED PARKING STRIPE
	PROPOSED REVERSE CURB AND GUTTER
500	PROPOSED CONTOURS
■	EXISTING BUILDING
▨	EXISTING ASPHALT PAVEMENT
	EXISTING CONCRETE PAVEMENT
	EXISTING GRAVEL SURFACE
■	PROPOSED BUILDING
▨	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
▨	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT
▦	CATCH BASIN
CO ○	CLEAN OUT
▦	CURB INLET
DS ●	DOWN SPOUT
	FIRE HYDRANT
FP ○	FLAG POLE
	HEADWALL
GM □	GAS METER
GV	GAS VALVE
→	GUY WIRE
	LIGHT POLE
	SIGN
	UTILITY POLE
WM WV ○	WATER METER or VALVE

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EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - ENLARGED SITE
GRADING PLAN

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ARCHITECTS

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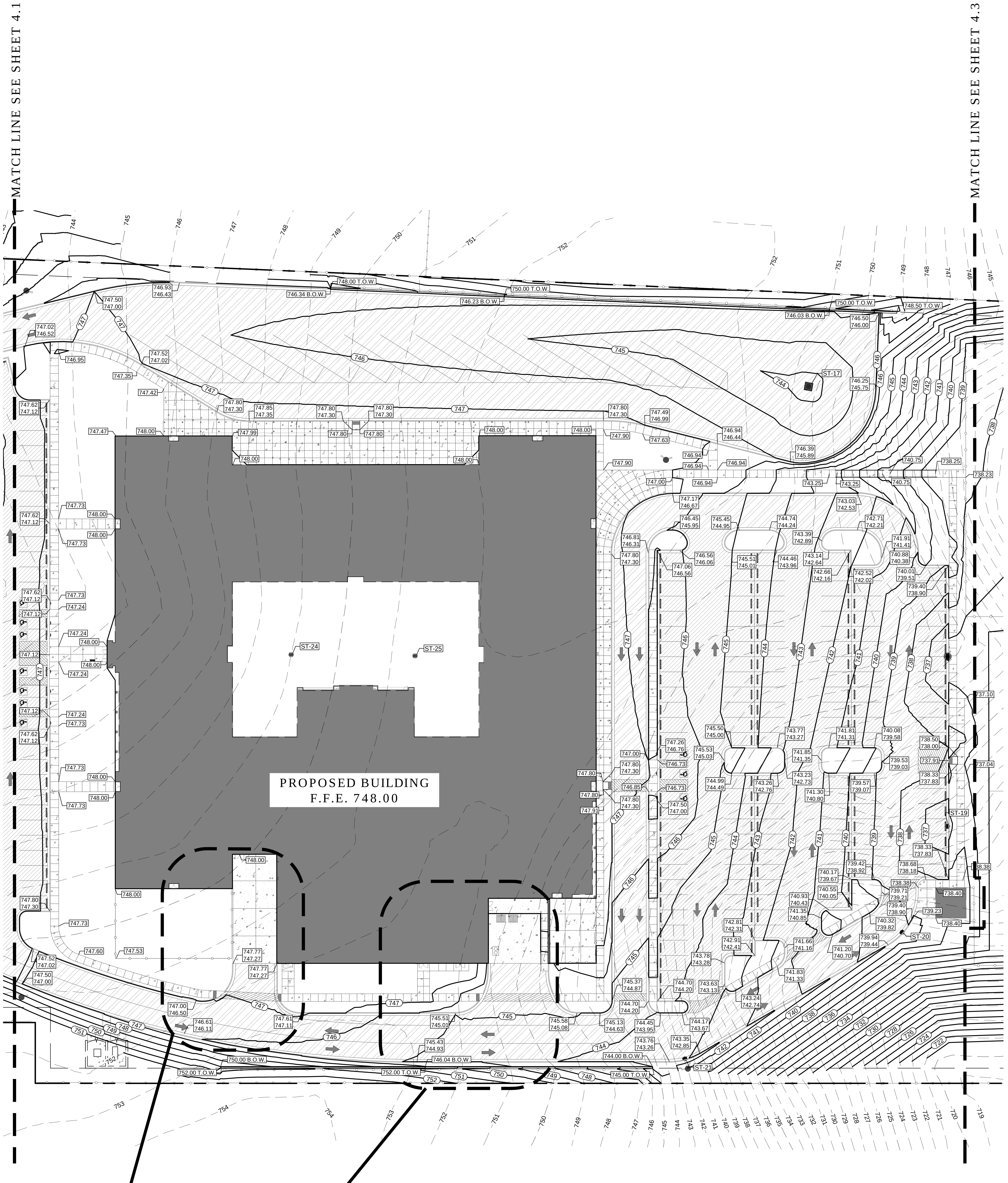


SEE SITE - ENLARGED SITE GRADING PLAN, 3 / C4.2 FOR THIS AREA

SEE SITE - ENLARGED SITE GRADING PLAN, 2 / C4.2 FOR THIS AREA

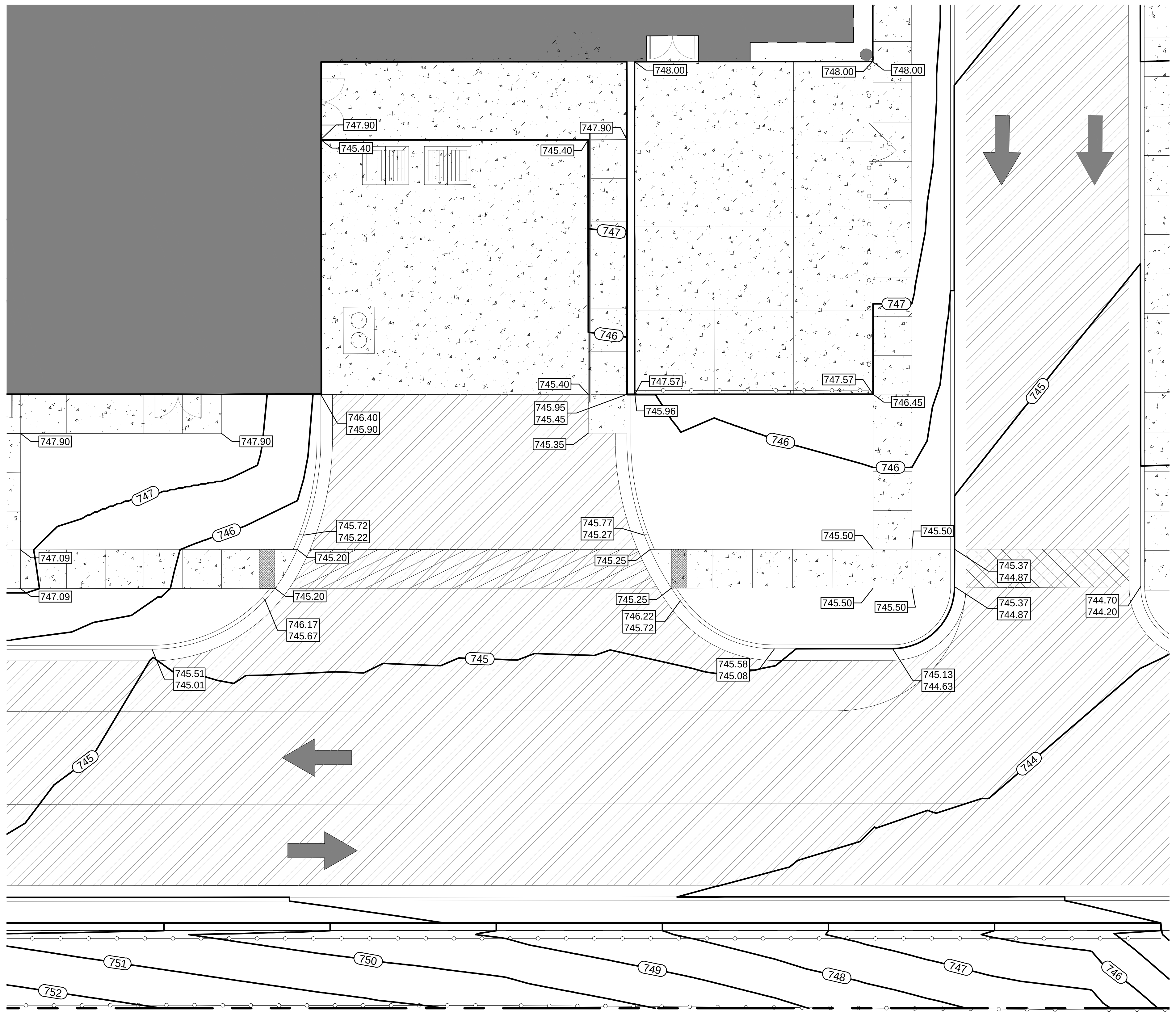
1 / C4.2 SITE - ENLARGED SITE GRADING PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

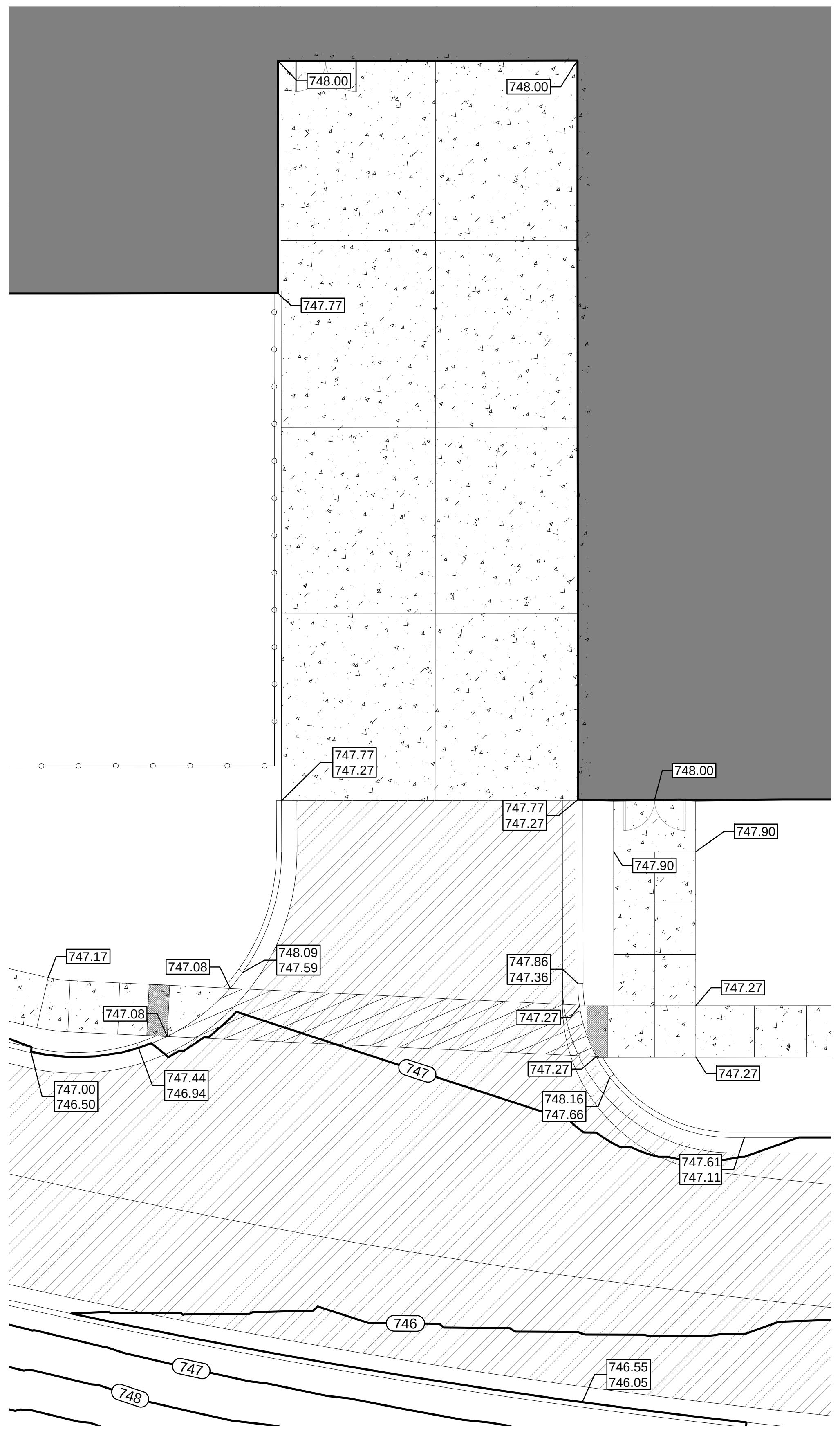
W N E S

CONTRACTOR NOTE:

ALL GRADING AND SPOT ELEVATIONS SHOWN ON THIS DRAWING ARE TO FINISH GRADE. REFER TO DETAILS ON SHEET C8.0 FOR EARLY SITE PACKAGE GRADING REQUIREMENTS.



2 / C4.2 SITE - ENLARGED SITE GRADING PLAN
SCALE: 1" = 10'



3 / C4.2 SITE - ENLARGED SITE GRADING PLAN
SCALE: 1" = 10'

LEGEND

— — — —	PROPERTY LINE
— — — —	ADJOINING PROPERTY LINE
— — — —	EASEMENTS
— — — 500 — — —	EXISTING MAJOR CONTOUR
— — — 501 — — —	EXISTING MINOR CONTOUR
— — — —	PROPOSED PAVEMENT
▨	PROPOSED SIDEWALK
— — — —	PROPOSED BUILDING
═══	PROPOSED STANDARD CURB AND GUTTER
───	PROPOSED PARKING STRIPE
═══	PROPOSED REVERSE CURB AND GUTTER
── 500 ──	PROPOSED CONTOURS
■	PROPOSED BUILDING
▨	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
▨	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
▨	PROPOSED CONCRETE PAVEMENT
▦	CATCH BASIN
CO ○	CLEAN OUT
▦	CURB INLET
DS ●	DOWN SPOUT
HYD	FIRE HYDRANT
FP ○	FLAG POLE
⏢	HEADWALL
GM □	GAS METER
GV ⋈	GAS VALVE
→	GUY WIRE
¤	LIGHT POLE
─○─	SIGN
ø	UTILITY POLE
WM WV ○	WATER METER or VALVE
SP ○	WATER SPIGOT

JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - ENLARGED SITE
GRADING PLAN

m+g MURPHY·GRAVES ARCHITECTS
3399 Tates Creek Road, suite 250
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ph:859.559.0504 fax:859.559.0523
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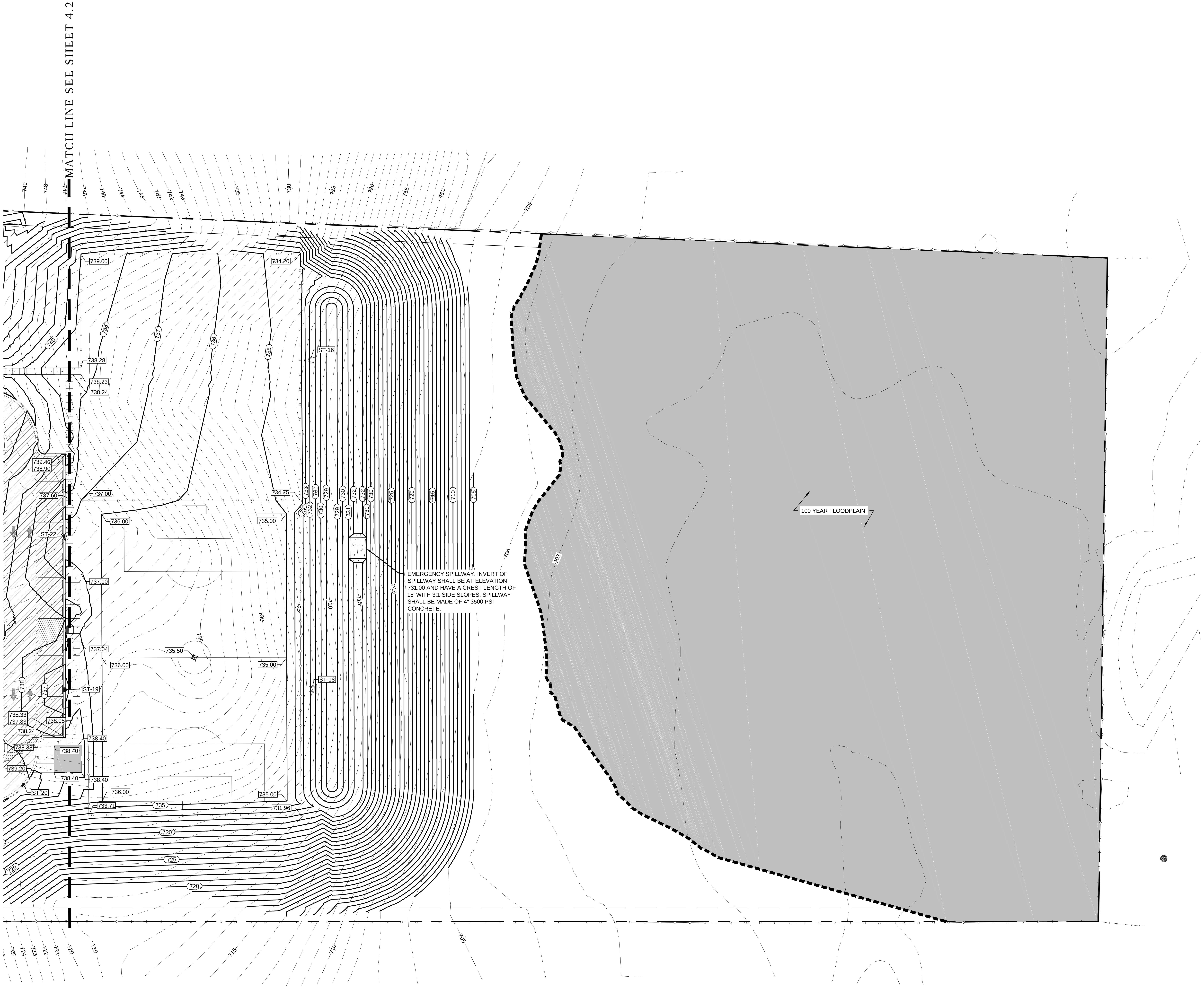
ENGINEERING & TESTING, INC.
500 SOUTH 17th STREET, PADUCAH, KY 42003
PHONE - (270) 443.1995
1215 DIUGUID DRIVE, MURRAY, KY 42071
PHONE - (270) 753.7307
403 NORTH COURT STREET, MARION, IL 62959
PHONE - (618) 993.6700

JOB NO. 1264
DATE 07.15.2013
PRODUCED BY: SAK/SLH
NOTES:

SHEET NUMBER
C4.2



EMERGENCY SPILLWAY. INVERT OF SPILLWAY SHALL BE AT ELEVATION 731.00 AND HAVE A CREST LENGTH OF 15' WITH 3:1 SIDE SLOPES. SPILLWAY SHALL BE MADE OF 4" 3500 PSI CONCRETE.

1
C4.3

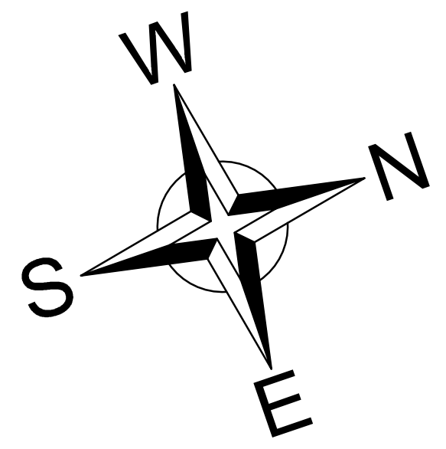
SITE - ENLARGED SITE GRADING PLAN

SCALE: 1" = 30'

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



CONTRACTOR NOTE:

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LEGEND

	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENTS
500	EXISTING MAJOR CONTOUR
501	EXISTING MINOR CONTOUR
	PROPOSED PAVEMENT
	PROPOSED SIDEWALK
	PROPOSED BUILDING
	PROPOSED STANDARD CURB AND GUTTER
	PROPOSED PARKING STRIPE
	PROPOSED REVERSE CURB AND GUTTER
500	PROPOSED CONTOURS
▨	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
▨	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT
▦	CATCH BASIN
CO ○	CLEAN OUT
▦	CURB INLET
DS •	DOWN SPOUT
HYD	FIRE HYDRANT
FP ○	FLAG POLE
	HEADWALL
GM □	GAS METER
GV	GAS VALVE
→	GUY WIRE
¤	LIGHT POLE
	SIGN
	UTILITY POLE
WM WV ○	WATER METER or VALVE
SP ○	WATER SPIGOT

JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
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SITE GRADING PACKAGE
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SHEET TITLE

SITE - ENLARGED SITE
GRADING PLAN

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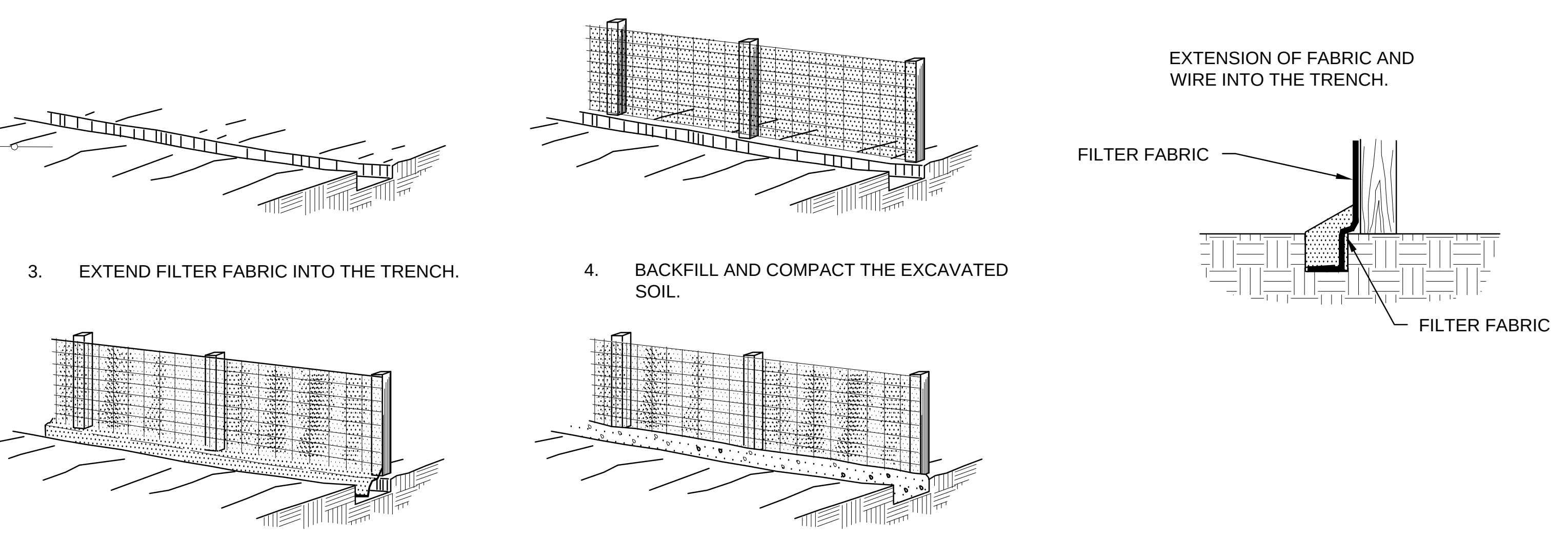
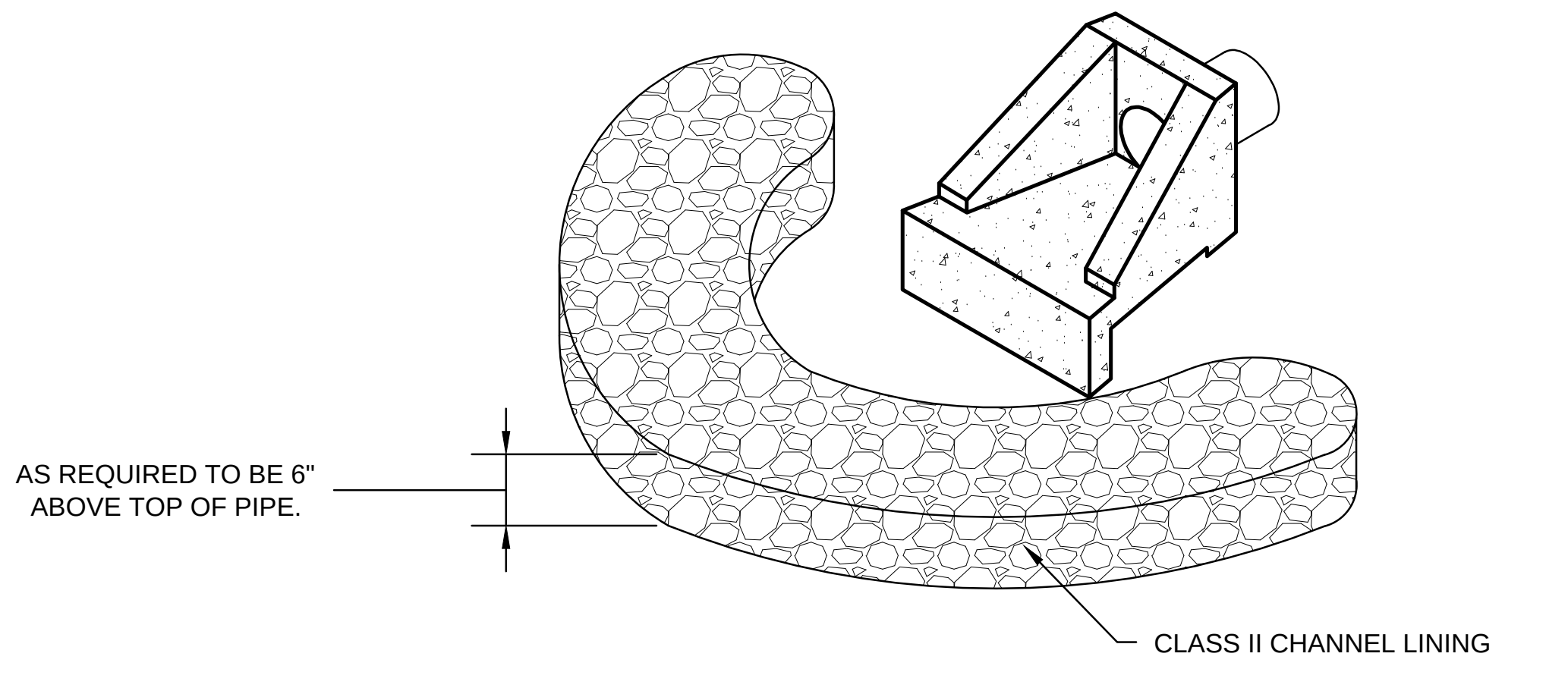
C4.3


1. EXCAVATE A 4" X 4" TRENCH IN UPSLOPE OF PROPOSED LOCATION OF SILTFENCE.
2. SET POSTS DOWNSLOPE ALONG THE LINE OF POSTS..
3. EXTEND FILTER FABRIC INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.
EXTENSION OF FABRIC AND WIRE INTO THE TRENCH.
FILTER FABRIC
FILTER FABRIC

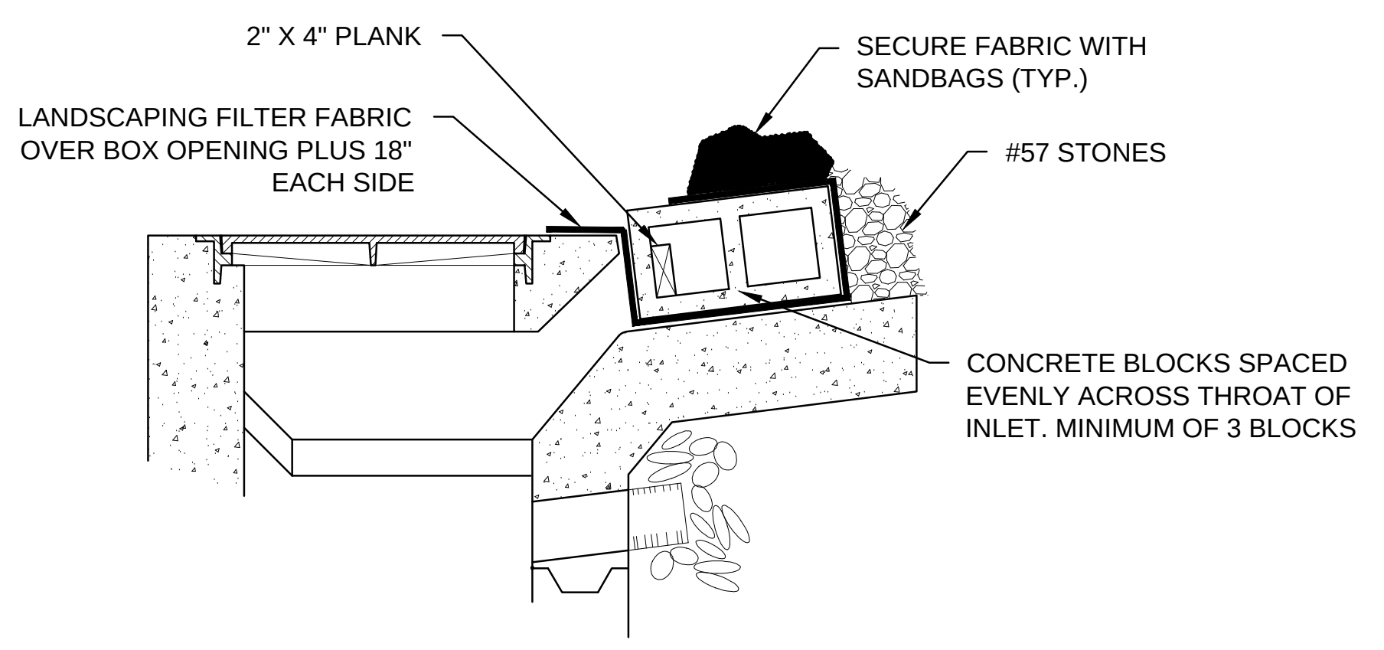
2 / C5.0 SILT FENCE INSTALLATION

SCALE: N.T.S.



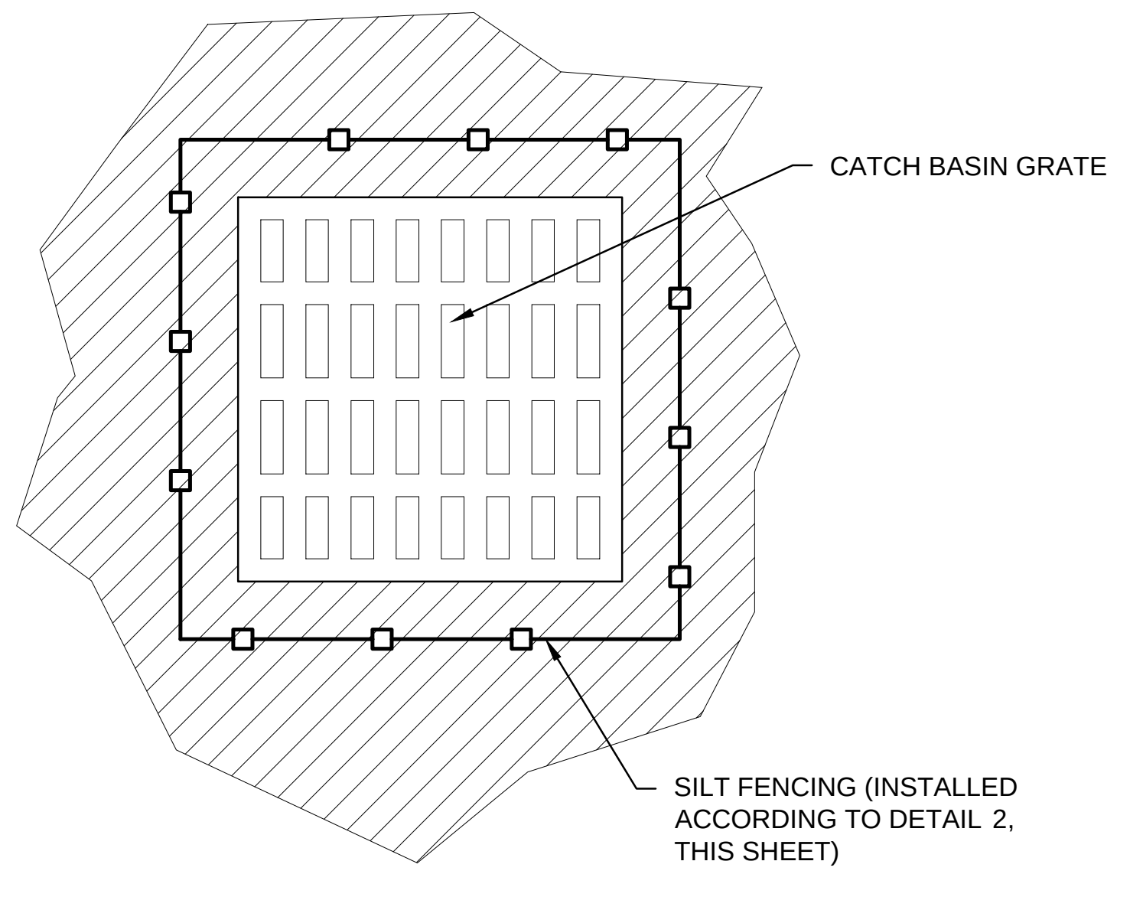
6 / C5.0 CULVERT INLET SEDIMENT BARRIER

SCALE: N.T.S.


2" X 4" PLANK
LANDSCAPING FILTER FABRIC OVER BOX OPENING PLUS 18" EACH SIDE
SECURE FABRIC WITH SANDBAGS (TYP.)
#57 STONES
CONCRETE BLOCKS SPACED EVENLY ACROSS THROAT OF INLET. MINIMUM OF 3 BLOCKS

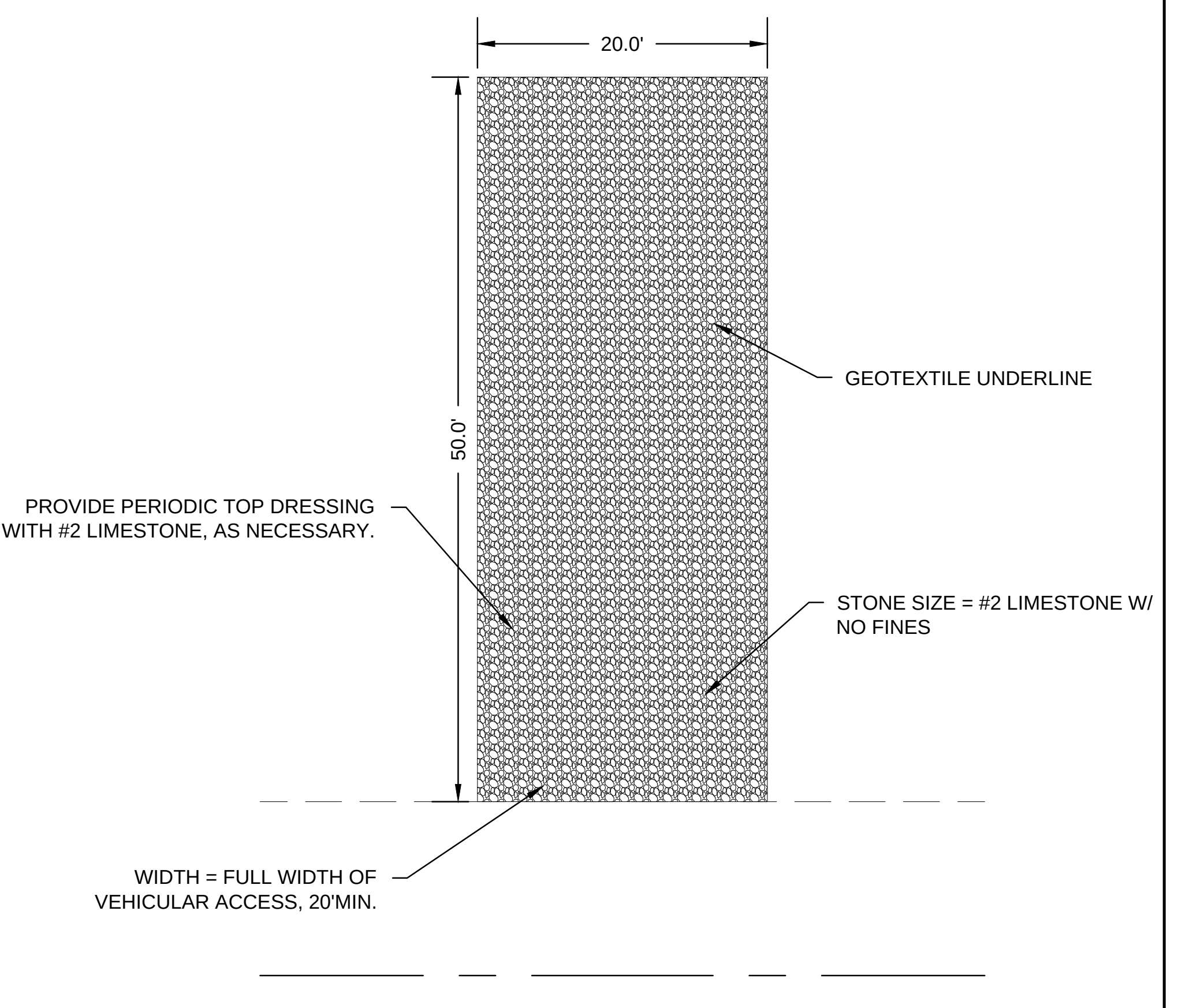
3 / C5.0 CURB INLET PROTECTION

SCALE: N.T.S.



4 / C5.0 CATCH BASIN SILT CHECK

SCALE: N.T.S.


20.0'
50.0'
GEOTEXTILE UNDERLINE
PROVIDE PERIODIC TOP DRESSING WITH #2 LIMESTONE, AS NECESSARY.
STONE SIZE = #2 LIMESTONE W/ NO FINES
WIDTH = FULL WIDTH OF VEHICULAR ACCESS, 20'MIN.

5 / C5.0 CONSTRUCTION ENTRANCE

SCALE: 1" = 10'

EROSION AND SEDIMENTATION CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR SEDIMENTATION AND EROSION CONTROL IN ACCORDANCE WITH THE CITY SPECIFICATIONS AND GENERALLY ACCEPTED EROSION AND SEDIMENTATION CONTROL PRACTICES FOR THE STATE.
2. ALL POTENTIAL EROSION SHALL BE CONTROLLED IN SUCH A MANNER SO AS TO PREVENT ANY DISPLACEMENT OF SILT TO THE ADJACENT PROPERTY OWNERS, ADJACENT STREAMS OR DRAINAGE DITCHES OR ADJACENT RIGHT-OF-WAYS. THIS CONTROL SHALL BE IMPLEMENTED ACCORDING TO THE GUIDELINES ESTABLISHED ON THIS PLAN AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL PROPER GROUND COVER HAS BEEN ESTABLISHED.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENTATION CONTROL STRUCTURES. SILT FENCE, STRAW BALES, ETC., SHALL BE INSPECTED REGULARLY AND SHALL BE REPAIRED, CLEANED, AND/OR REINSTALLED AS NECESSARY TO MEET THE INTENT OF THIS PLAN.
4. THE CONTRACTOR SHALL INSTALL ROCK SUBGRADE AND/OR PAVE THE SITE AS SOON AS PRACTICAL TO ESTABLISH REQUIRED GROUND COVER.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REMOVAL OF EROSION PREVENTION AND SEDIMENTATION CONTROL STRUCTURES AFTER CONSTRUCTION IS COMPLETE, BUT ONLY AFTER PROPER GROUND COVER HAS BEEN ESTABLISHED.
6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REMOVAL OF DIRT AND CONSTRUCTION DEBRIS FROM THE ADJACENT STREETS AND/OR PARKING AREA ON A DAILY BASIS, FOR THE DURATION OF THIS PROJECT, THAT WERE CAUSED BY CONSTRUCTION ACTIVITIES AT THIS SITE.
7. ALL EROSION CONTROL MEASURES TO TRAP SEDIMENT ON-SITE MUST BE CONSTRUCTED AND FUNCTIONAL PRIOR TO ANY GRADING OPERATIONS OR LAND DISTURBANCE TAKING PLACE.

EROSION CONTROL PLAN KEY NOTES:

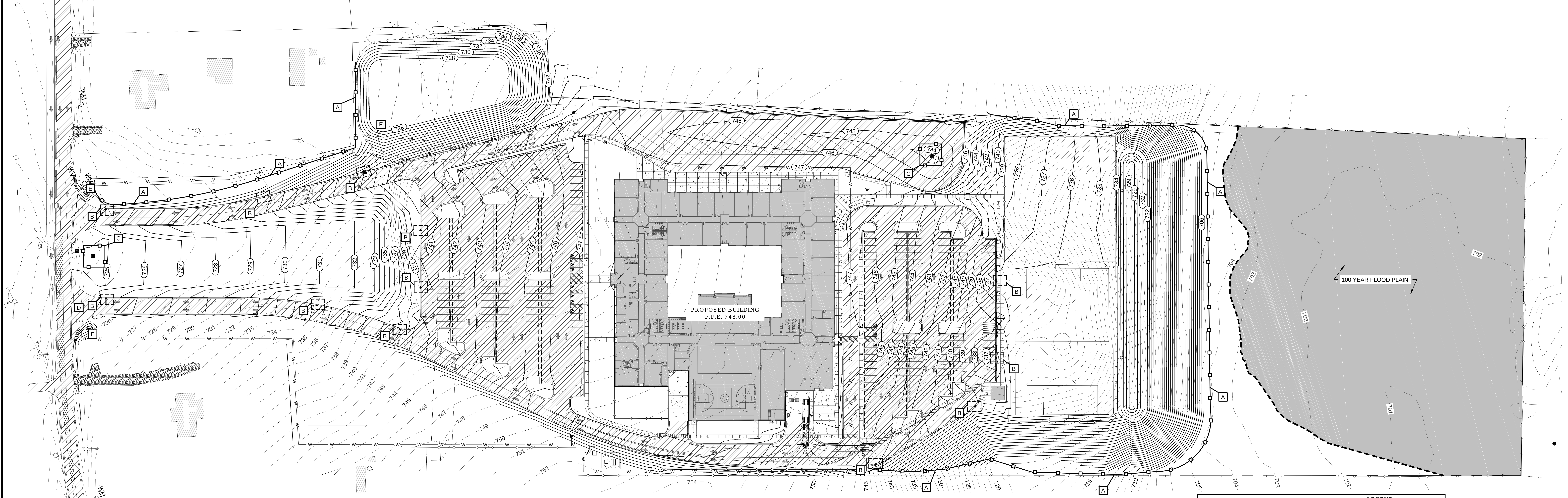
A	SILT FENCE. SEE DETAIL 2, SHEET C5.0.
B	CURB INLET PROTECTION. SEE DETAIL 3, SHEET C5.0.
C	CATCH BASIN SILT CHECK. SEE DETAIL 4, SHEET C5.0.
D	CONSTRUCTION ENTRANCE. SEE DETAIL 5, SHEET C5.0.
E	CULVERT INLET SEDIMENT BARRIER. SEE DETAIL 6, SHEET C5.0.

JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - EROSION AND
SEDIMENTATION CONTROL
PLAN



BURIED UTILITIES NOTE

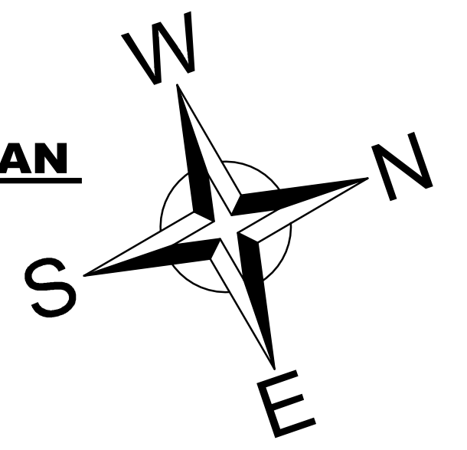
BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT KENTUCKY 811 @ 811 OR 1-800-752-6007 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

Kentucky 811
Know what's below.
Call before you dig.

Call 811 or 800-752-6007
www.kentucky811.com
Two Business Days Before You Dig
IT'S THE LAW

1 / C5.0 SITE - EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1" = 60'



GRAPHIC SCALE

(IN FEET)
1 inch = 60 ft.

LEGEND

500	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENTS
	EXISTING BUILDING
	EXISTING PAVEMENT
500	EXISTING MAJOR CONTOUR
501	EXISTING MINOR CONTOUR
	PROPOSED PAVEMENT
	PROPOSED SIDEWALK
	PROPOSED BUILDING
	PROPOSED STANDARD CURB AND GUTTER
	PROPOSED PARKING STRIPE
	PROPOSED REVERSE CURB AND GUTTER
500	PROPOSED CONTOURS
	PROPOSED SILT FENCE
▩	EXISTING BUILDING
▨	EXISTING ASPHALT PAVEMENT
	EXISTING CONCRETE PAVEMENT
	EXISTING GRAVEL SURFACE
▩	PROPOSED BUILDING
▨	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
▨	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT

	CATCH BASIN
	CURB INLET
DS	DOWN SPOUT
	HEADWALL

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JOB NO. 1264
DATE 07.15.2013
PRODUCED BY: SAK/SLH
NOTES:

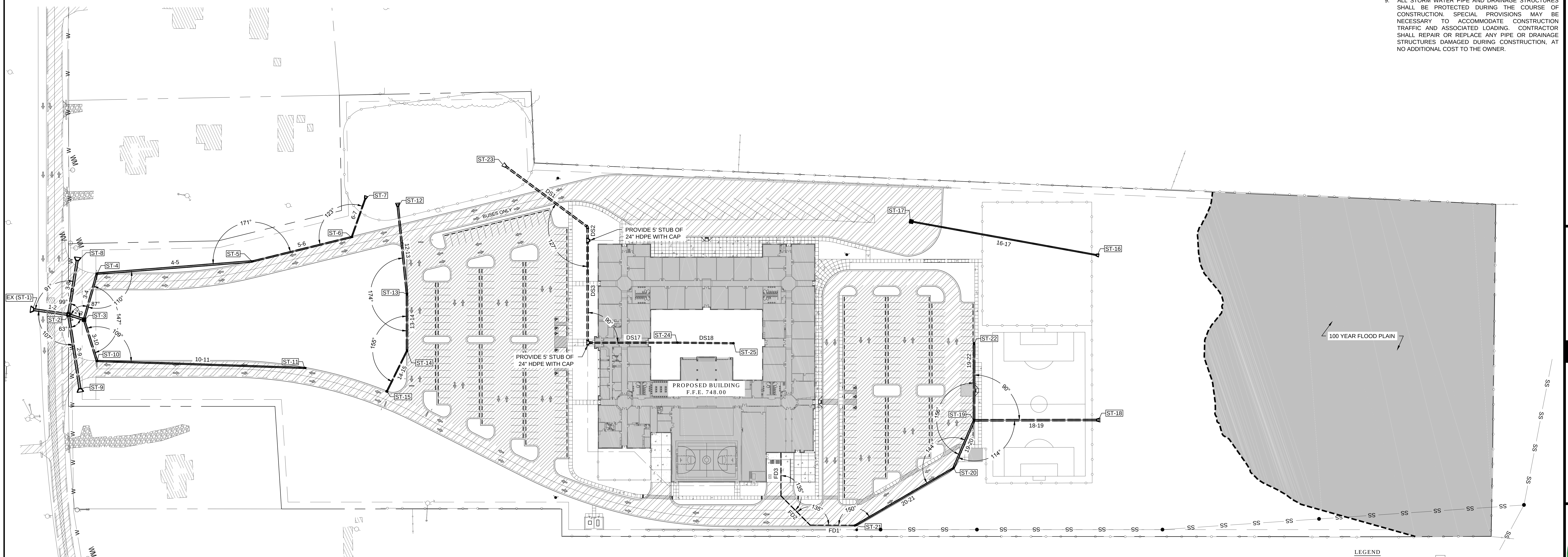
SHEET NUMBER
C5.0

STRUCTURE TABLE								
NAME	DESCRIPTION	FRAME	GRATE	RIM ELEVATION	GUTTERLINE ELEVATION	INVERT ELEVATION	PIPES IN	PIPES OUT
EX (ST-1)	36" PRECAST CONCRETE HEADWALL	-	-	-	-	718.77	1-2 (INV:718.77)	
ST-2	48" X 48" JUNCTION BOX	KYTC FRAME AND LID	TYPE 1	725.21	724.71	720.71	3-8 (INV:720.81) 2-9 (INV:720.81) 2-3 (INV:720.81)	1-2 (INV:720.71)
ST-3	48" X 48" CATCH BASIN	NEENAH R-3438-A	TYPE A	724.80	724.30	721.05	3-4 (INV:721.15) 3-10 (INV:721.15)	2-3 (INV:721.05)
ST-4	NYLOPLAST 30" DRAIN BASINr	2' X 3' CURB INLET	DIAGONAL	726.54	726.04	721.85	4-5 (INV:721.85)	3-4 (INV:721.85)
ST-5	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	730.90	730.40	724.84	5-6 (INV:724.84)	4-5 (INV:724.84)
ST-6	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	738.52	738.02	727.72	6-7 (INV:727.72)	5-6 (INV:727.72)
ST-7	15" PRECAST CONCRETE HEADWALL	-	-	-	-	728.32		6-7 (INV:728.32)
ST-8	30" PRECAST CONCRETE HEADWALL	-	-	-	-	721.61		3-8 (INV:721.61)
ST-9	30" PRECAST CONCRETE HEADWALL	-	-	-	-	721.91		2-9 (INV:721.91)
ST-10	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	726.61	726.11	721.78	10-11 (INV:721.78)	3-10 (INV:721.78)
ST-11	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	734.68	734.18	730.90		10-11 (INV:730.90)
ST-12	24" PRECAST CONCRETE HEADWALL	-	-	-	-	731.50	12-13 (INV:731.50)	
ST-13	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	740.53	740.03	735.00	13-14 (INV:735.00)	12-13 (INV:735.00)
ST-14	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	740.87	740.37	735.82	14-15 (INV:735.82)	13-14 (INV:735.82)
ST-15	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	739.43	738.93	736.49		14-15 (INV:736.49)
ST-16	15" PRECAST CONCRETE HEADWALL	-	-	-	-	731.00	16-17 (INV:731.00)	
ST-17	48" X 48" CATCH BASIN	NEENAH R-3438-A	TYPE A	743.75	743.25	736.50		16-17 (INV:736.50)
ST-18	24" PRECAST CONCRETE HEADWALL	-	-	-	-	730.00	18-19 (INV:730.00)	
ST-19	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	736.61	736.11	730.90	19-20 (INV:730.90) 19-22 (INV:730.90)	18-19 (INV:730.90)
ST-20	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	739.66	739.16	732.30	20-21 (INV:732.30)	19-20 (INV:732.30)
ST-21	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	743.57	743.07	738.93	FD1 (INV:739.22)	20-21 (INV:738.93)
ST-22	NYLOPLAST 30" DRAIN BASIN	2' X 3' CURB INLET	DIAGONAL	736.44	735.94	732.02		19-22 (INV:732.02)
ST-23	24" PRECAST CONCRETE HEADWALL	-	-	-	-	731.50	DS1 (INV:731.50)	
ST-24	18" INLINE DRAIN	18" PEDESTRIAN	-	748.00	747.50	739.70	DS18 (INV:739.70)	DS17 (INV:739.70)
ST-25	18" INLINE DRAIN	18" PEDESTRIAN	-	748.00	747.50	740.52		DS18 (INV:740.52)

Pipe Table								
NAME	SIZE	MATERIAL	LENGTH	SLOPE	UPSLOPE STRUCTURE	DOWNSLOPE STRUCTURE	FLOWRATE (cfs) 100 YEAR	Hw/D 100 YEAR
1-2	36"	CMP	51.70'	3.75%	ST-2	EX (ST-1)	53.330	0.79
2-3	30"	HDPE	23.88'	1.00%	ST-3	ST-2	11.350	0.45
2-9	30"	RCP	109.98'	1.00%	ST-9	ST-2	22.000	0.64
3-4	24"	HDPE	69.91'	1.00%	ST-4	ST-3	7.670	0.49
3-8	30"	RCP	80.20'	1.00%	ST-8	ST-2	20.000	0.61
3-10	24"	HDPE	63.19'	1.00%	ST-10	ST-3	1.280	0.20
4-5	24"	HDPE	227.71'	1.31%	ST-5	ST-4	7.110	0.48
5-6	18"	HDPE	149.46'	1.93%	ST-6	ST-5	6.760	0.67
6-7	15"	HDPE	59.91'	1.00%	ST-7	ST-6	4.790	0.71
10-11	18"	HDPE	304.09'	3.00%	ST-11	ST-10	0.620	0.19
12-13	24"	HDPE	129.29'	2.71%	ST-13	ST-12	15.170	0.70
13-14	24"	HDPE	82.32'	1.00%	ST-14	ST-13	7.990	0.51
14-15	15"	HDPE	66.55'	1.00%	ST-15	ST-14	1.870	0.43
16-17	15"	HDPE	274.98'	2.00%	ST-17	ST-16	9.120	0.93
18-19	24"	HDPE	179.19'	0.50%	ST-19	ST-18	18.870	0.78
19-20	24"	HDPE	76.06'	1.84%	ST-20	ST-19	7.700	0.50
19-22	24"	HDPE	111.99'	1.00%	ST-22	ST-19	7.630	0.49
20-21	18"	HDPE	165.86'	4.00%	ST-21	ST-20	5.380	0.59
DS1	24"	HDPE	148.87'	3.49%		ST-23	19.190	0.79
DS2	24"	HDPE	19.57'	1.00%			19.220	0.79
DS3	24"	HDPE	149.31'	1.00%			13.330	0.66
DS17	18"	HDPE	131.14'	1.00%	ST-24		6.930	0.68
DS18	18"	HDPE	81.75'	1.00%	ST-25	ST-24	3.550	0.48
FD1	4"	PVC	65.82'	2.00%		ST-21	0.000	
FD2	4"	PVC	60.46'	2.00%			0.000	
FD3	4"	PVC	62.91'	2.00%			0.000	

STORMWATER NOTES:

1. ALL STORM WATER PIPE WITHIN THE CITY RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP). STORM PIPE USED FOR YARD DRAINS SHALL BE ADS PIPE WITH CAST IRON GRATES OR APPROVED EQUAL.
2. ALL BACKFILL MATERIALS SHALL BE AS SPECIFIED ON THE DETAILS. SEE SITE DETAIL SHEETS FOR SPECIFIC INFORMATION.
3. ALL STORM WATER PIPE SHALL HAVE A MINIMUM COVER OF 12" OVER THE TOP OF PIPE (NOT INCLUDING PAVEMENT SECTIONS). CONTRACTOR SHALL PROVIDE MINIMUM COVER IN ALL CASES. IF DISCREPANCIES EXIST IN THE GRADING PLAN OR IF UNSEEN SITE CONDITIONS EXIST THAT WILL NOT ALLOW THIS COVER AS DESIGNED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
4. ALL STORM WATER PIPE BENEATH PAVEMENT SHALL BE BACKFILLED FULL DEPTH WITH DENSE GRADED AGGREGATE (DGA).
5. STORM WATER STRUCTURES SHALL BE PRE-CAST CONCRETE, UNLESS SPECIFIED OTHERWISE, AND SHALL MEET ALL THE SPECIFICATIONS FOR DRAINAGE STRUCTURES AS OUTLINED IN THE LOCAL STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
6. PIPE FITTINGS ARE NOT DESIGNATED ON THESE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND INSTALLING ALL FITTINGS TO COMPLETE THE STORM WATER PIPING INSTALLATION AS PART OF THEIR CONTRACT WITH NO ADDITIONAL COST TO THE OWNER. ALL CONNECTIONS REQUIRE FITTINGS. PARTICULARLY, ALL DOWNSPOUTS SHALL BE CONNECTED TO THE MANIFOLD LINES WITH APPROPRIATE FITTINGS. FITTINGS INCLUDE, BUT NOT LIMITED TO, TEE'S, WYE'S, ELBOWS, CROSSES, CONNECTING BANDS, GASKETS, ETC.
7. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING PIPE AND DRAINAGE STRUCTURE MATERIAL CERTIFICATIONS, SIZES AND QUANTITIES TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO CONSTRUCTION.
8. STORM WATER PIPE AND DRAINAGE STRUCTURES SHALL BE INSTALLED IN PROPER CONSTRUCTION SEQUENCE SUCH THAT SITE DRAINAGE IS ALLOWED TO DRAIN FROM THE SITE. IT IS CRITICAL THAT THE STORM WATER RUNOFF BYPASS AND/OR EXIT THE AREAS OF CONSTRUCTION TO PREVENT DEGRADATION OF THE SITE CAUSED BY PRECIPITATION AND/OR PONDING WATER.
9. ALL STORM WATER PIPE AND DRAINAGE STRUCTURES SHALL BE PROTECTED DURING THE COURSE OF CONSTRUCTION. SPECIAL PROVISIONS MAY BE NECESSARY TO ACCOMMODATE CONSTRUCTION TRAFFIC AND ASSOCIATED LOADING. CONTRACTOR SHALL REPAIR OR REPLACE ANY PIPE OR DRAINAGE STRUCTURES DAMAGED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.

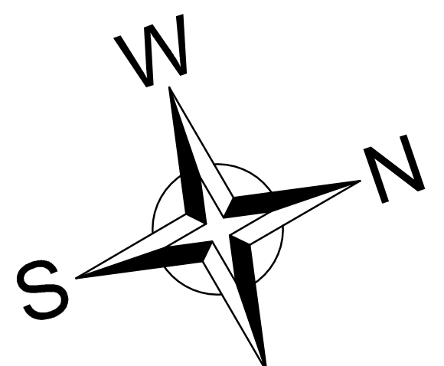


BURIED UTILITIES NOTE

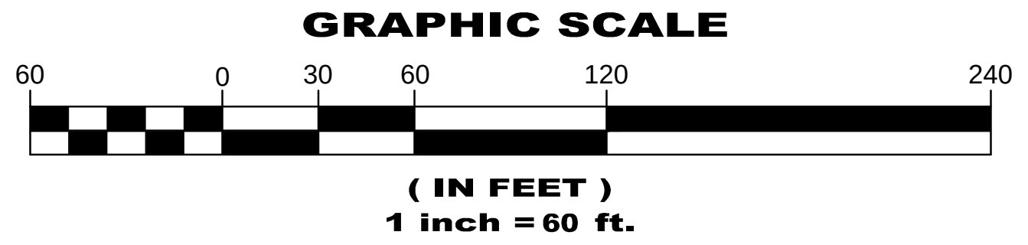
BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT KENTUCKY 811 @ 811 OR 1-800-752-6007 FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.

Kentucky 811
Know what's below.
Call before you dig.

Call 811 or 800-752-6007
www.kentucky811.com
Two Business Days Before You Dig
IT'S THE LAW



1 / C6.0 **SITE - PROPOSED STORMWATER PLAN**
SCALE: 1" = 60'



LEGEND

PROPERTY LINE	CURB INLET
ADJOINING PROPERTY LINE	DOWN SPOUT
EASEMENTS	FIRE HYDRANT
EXISTING BUILDING	FLAG POLE
EXISTING PAVEMENT	HEADWALL
EXISTING STORM SEWER	GAS METER
PROPOSED PAVEMENT	GAS VALVE
PROPOSED SIDEWALK	GUY WIRE
PROPOSED BUILDING	LIGHT POLE
PROPOSED STANDARD CURB AND GUTTER	POST INDICATOR VALVE
PROPOSED PARKING STRIPE	SIGN
PROPOSED REVERSE CURB AND GUTTER	TELEPHONE PEDESTAL
PROPOSED STORM SEWER	UTILITY POLE
EXISTING BUILDING	WATER METER or VALVE
EXISTING ASPHALT PAVEMENT	WATER SPIGOT
EXISTING GRAVEL SURFACE	
PROPOSED BUILDING	
PROPOSED HEAVY DUTY ASPHALT PAVEMENT	
PROPOSED STANDARD DUTY ASPHALT PAVEMENT	
PROPOSED CONCRETE PAVEMENT	
CATCH BASIN	
CLEAN OUT	

JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - PROPOSED STORMWATER PLAN

MURPHY · GRAVES ARCHITECTS

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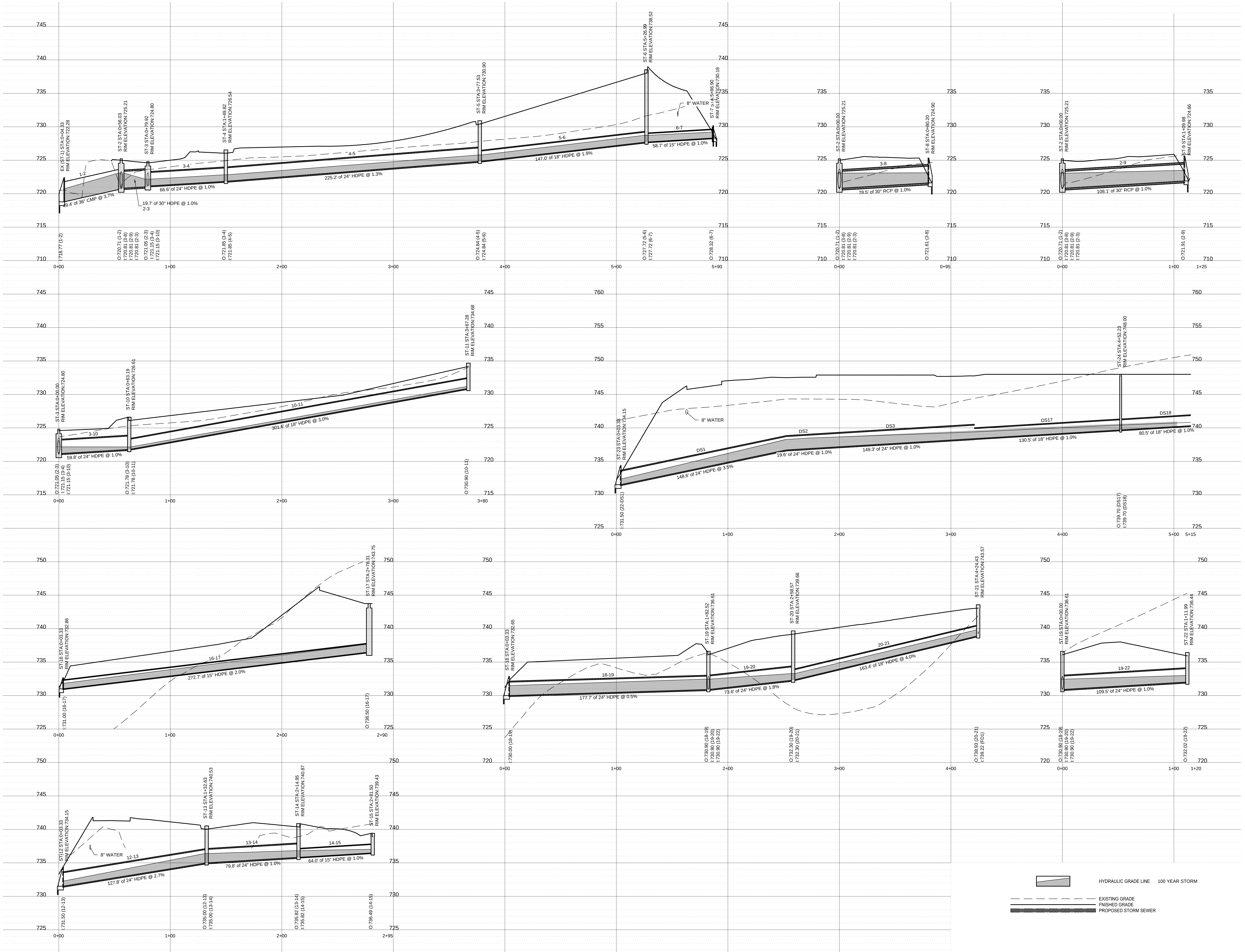
403 NORTH COURT STREET, MARION, IL 62959
PHONE - (618).993.6700

JOB NO. 1264
DATE 07.15.2013
PRODUCED BY: SAK/SLH
NOTES:

SHEET NUMBER
C6.0


EX (ST-1) STA:0+04.33 RIM ELEVATION:722.28
ST-2 STA:0+56.03 RIM ELEVATION:725.21
ST-3 STA:0+79.92 RIM ELEVATION:724.80
ST-4 STA:1+49.82 RIM ELEVATION:726.54
ST-5 STA:3+77.53 RIM ELEVATION:730.90
ST-6 STA:5+26.99 RIM ELEVATION:738.52
ST-7 STA:5+86.90 RIM ELEVATION:730.18
1-2
2-3
3-4
4-5
5-6
6-7
8" WATER
49.4' of 36" CMP @ 3.7%
19.7' of 30" HDPE @ 1.0%
66.6' of 24" HDPE @ 1.0%
225.2' of 24" HDPE @ 1.3%
147.0' of 18" HDPE @ 1.9%
58.7' of 15" HDPE @ 1.0%
I:718.77 (1-2)
O:720.71 (1-2) I:720.81 (3-8) I:720.81 (2-9) I:720.81 (2-3)
O:721.05 (2-3) I:721.15 (3-4) I:721.15 (3-10)
O:721.85 (3-4) I:721.85 (4-5)
O:724.84 (4-5) I:724.84 (5-6)
O:727.72 (5-6) I:727.72 (6-7)
O:728.32 (6-7)
0+00 1+00 2+00 3+00 4+00 5+00 5+90
ST-2 STA:0+00.00 RIM ELEVATION:725.21
ST-8 STA:0+80.20 RIM ELEVATION:724.90
3-8
78.5' of 30" RCP @ 1.0%
O:720.71 (1-2) I:720.81 (3-8) I:720.81 (2-9) I:720.81 (2-3)
O:721.61 (3-8)
0+00 0+95
ST-2 STA:0+00.00 RIM ELEVATION:725.21
ST-9 STA:1+09.98 RIM ELEVATION:724.66
2-9
108.1' of 30" RCP @ 1.0%
O:720.71 (1-2) I:720.81 (3-8) I:720.81 (2-9) I:720.81 (2-3)
O:721.91 (2-9)
0+00 1+00 1+25
ST-3 STA:0+00.00 RIM ELEVATION:724.80
ST-10 STA:0+63.19 RIM ELEVATION:726.61
ST-11 STA:3+67.28 RIM ELEVATION:734.68
3-10
10-11
59.8' of 24" HDPE @ 1.0%
301.6' of 18" HDPE @ 3.0%
O:721.05 (2-3) I:721.15 (3-4) I:721.15 (3-10)
O:721.78 (3-10) I:721.78 (10-11)
O:730.90 (10-11)
0+00 1+00 2+00 3+00 3+80
ST-23 STA:0+03.38 RIM ELEVATION:734.15
ST-24 STA:4+52.23 RIM ELEVATION:748.00
8" WATER
DS1
DS2
DS3
DS17
DS18
148.6' of 24" HDPE @ 3.5%
19.6' of 24" HDPE @ 1.0%
149.3' of 24" HDPE @ 1.0%
130.5' of 18" HDPE @ 1.0%
80.5' of 18" HDPE @ 1.0%
I:731.50 (22-DS1)
O:739.70 (DS17) I:739.70 (DS18)
0+00 1+00 2+00 3+00 4+00 5+00 5+15
ST-16 STA:0+03.33 RIM ELEVATION:732.86
ST-17 STA:2+78.31 RIM ELEVATION:743.75
16-17
272.7' of 15" HDPE @ 2.0%
I:731.00 (16-17)
O:736.50 (16-17)
0+00 1+00 2+00 2+90
ST-18 STA:0+03.33 RIM ELEVATION:732.65
ST-19 STA:1+82.52 RIM ELEVATION:736.61
ST-20 STA:2+58.57 RIM ELEVATION:739.66
ST-21 STA:4+24.43 RIM ELEVATION:743.57
18-19
19-20
20-21
177.7' of 24" HDPE @ 0.5%
73.6' of 24" HDPE @ 1.8%
163.4' of 18" HDPE @ 4.0%
I:730.00 (18-19)
O:730.90 (18-19) I:730.90 (19-20) I:730.90 (19-22)
O:732.30 (19-20) I:732.30 (20-21)
O:738.93 (20-21) I:739.22 (FD1)
0+00 1+00 2+00 3+00 4+00
ST-19 STA:0+00.00 RIM ELEVATION:736.61
ST-22 STA:1+11.99 RIM ELEVATION:736.44
19-22
109.5' of 24" HDPE @ 1.0%
O:730.90 (18-19) I:730.90 (19-20) I:730.90 (19-22)
O:732.02 (19-22)
0+00 1+00 1+20
ST-12 STA:0+03.33 RIM ELEVATION:734.15
ST-13 STA:1+32.63 RIM ELEVATION:740.53
ST-14 STA:2+14.95 RIM ELEVATION:740.87
ST-15 STA:2+81.50 RIM ELEVATION:739.43
8" WATER
12-13
13-14
14-15
127.8' of 24" HDPE @ 2.7%
79.8' of 24" HDPE @ 1.0%
64.0' of 15" HDPE @ 1.0%
I:731.50 (12-13)
O:735.00 (12-13) I:735.00 (13-14)
O:735.82 (13-14) I:735.82 (14-15)
O:736.49 (14-15)
0+00 1+00 2+00 2+95
HYDRAULIC GRADE LINE 100 YEAR STORM
EXISTING GRADE
FNISHED GRADE
PROPOSED STORM SEWER

1
C6.1

SITE - PROPOSED STORMWATER PROFILES

SCALE: HORIZ: 1" = 30' VERT: 1" = 5'

JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - PROPOSED
STORMWATER PROFILES

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JOB NO. 1264
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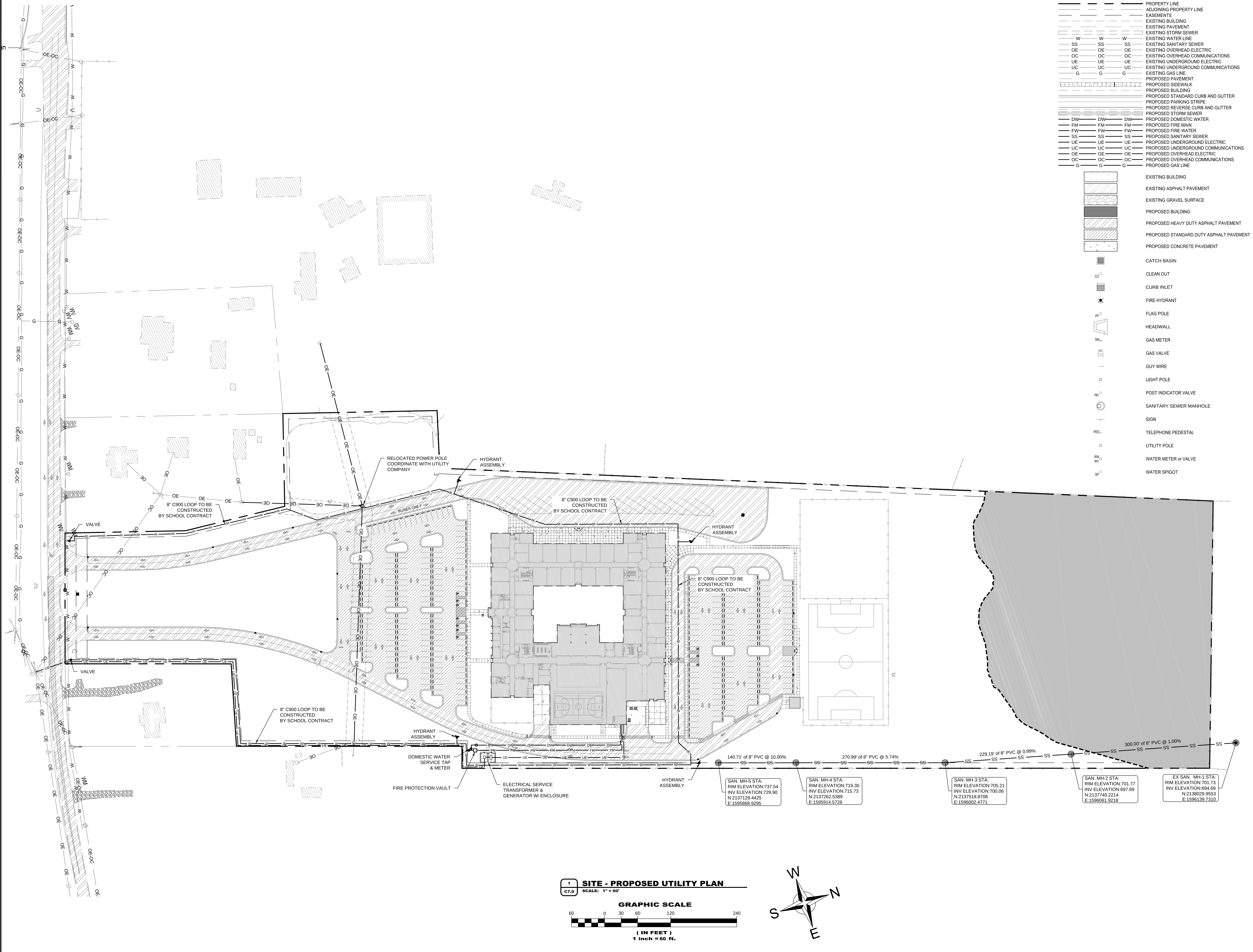

RELOCATED POWER POLE COORDINATE WITH UTILITY COMPANY

HYDRANT ASSEMBLY

8" C900 LOOP TO BE CONSTRUCTED BY SCHOOL CONTRACT

HYDRANT ASSEMBLY

8" C900 LOOP TO BE CONSTRUCTED BY SCHOOL CONTRACT

8" C900 LOOP TO BE CONSTRUCTED BY SCHOOL CONTRACT

VALVE

VALVE

8" C900 LOOP TO BE CONSTRUCTED BY SCHOOL CONTRACT

HYDRANT ASSEMBLY

DOMESTIC WATER SERVICE TAP & METER

FIRE PROTECTION VAULT

ELECTRICAL SERVICE TRANSFORMER & GENERATOR W/ ENCLOSURE

HYDRANT ASSEMBLY

140.71' of 8" PVC @ 10.00%

270.99' of 8" PVC @ 5.74%

229.19' of 8" PVC @ 0.99%

300.00' of 8" PVC @ 1.00%

SAN. MH-5 STA:
RIM ELEVATION:737.54
INV ELEVATION:729.90
N:2137129.4425
E:1595868.9295

SAN. MH-4 STA:
RIM ELEVATION:719.30
INV ELEVATION:715.73
N:2137262.5389
E:1595914.5726

SAN. MH-3 STA:
RIM ELEVATION:705.21
INV ELEVATION:700.06
N:2137518.8708
E:1596002.4771

SAN. MH-2 STA:
RIM ELEVATION:701.77
INV ELEVATION:697.69
N:2137740.2214
E:1596061.9218

EX SAN. MH-1 STA:
RIM ELEVATION:701.73
INV ELEVATION:694.69
N:2138029.9553
E:1596139.7310

LEGEND

— — —	PROPERTY LINE
— — —	ADJOINING PROPERTY LINE
— — —	EASEMENTS
— — —	EXISTING BUILDING
— — —	EXISTING PAVEMENT
— — —	EXISTING STORM SEWER
W W W	EXISTING WATER LINE
SS SS SS	EXISTING SANITARY SEWER
OE OE OE	EXISTING OVERHEAD ELECTRIC
OC OC OC	EXISTING OVERHEAD COMMUNICATIONS
UE UE UE	EXISTING UNDERGROUND ELECTRIC
UC UC UC	EXISTING UNDERGROUND COMMUNICATIONS
G G G	EXISTING GAS LINE
— — —	PROPOSED PAVEMENT
— — —	PROPOSED SIDEWALK
— — —	PROPOSED BUILDING
═══	PROPOSED STANDARD CURB AND GUTTER
———	PROPOSED PARKING STRIPE
═══	PROPOSED REVERSE CURB AND GUTTER
▨	PROPOSED STORM SEWER
DW DW DW	PROPOSED DOMESTIC WATER
FM FM FM	PROPOSED FIRE MAIN
FW FW FW	PROPOSED FIRE WATER
SS SS SS	PROPOSED SANITARY SEWER
UE UE UE	PROPOSED UNDERGROUND ELECTRIC
UC UC UC	PROPOSED UNDERGROUND COMMUNICATIONS
OE OE OE	PROPOSED OVERHEAD ELECTRIC
OC OC OC	PROPOSED OVERHEAD COMMUNICATIONS
G G G	PROPOSED GAS LINE
▨	EXISTING BUILDING
▨	EXISTING ASPHALT PAVEMENT
▨	EXISTING GRAVEL SURFACE
■	PROPOSED BUILDING
▨	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
▨	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
▨	PROPOSED CONCRETE PAVEMENT
■	CATCH BASIN
CO ○	CLEAN OUT
■	CURB INLET
✱	FIRE HYDRANT
FP ○	FLAG POLE
⏢	HEADWALL
GM ○	GAS METER
GV ⋈	GAS VALVE
—	GUY WIRE
☼	LIGHT POLE
PIV ○	POST INDICATOR VALVE
◎	SANITARY SEWER MANHOLE
—	SIGN
PED □	TELEPHONE PEDESTAL
○	UTILITY POLE
WM WV ○	WATER METER or VALVE
SP ○	WATER SPIGOT

1
C7.0
SITE - PROPOSED UTILITY PLAN
SCALE: 1" = 60'

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

JOB NAME
G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE
SITE - PROPOSED UTILITY PLAN

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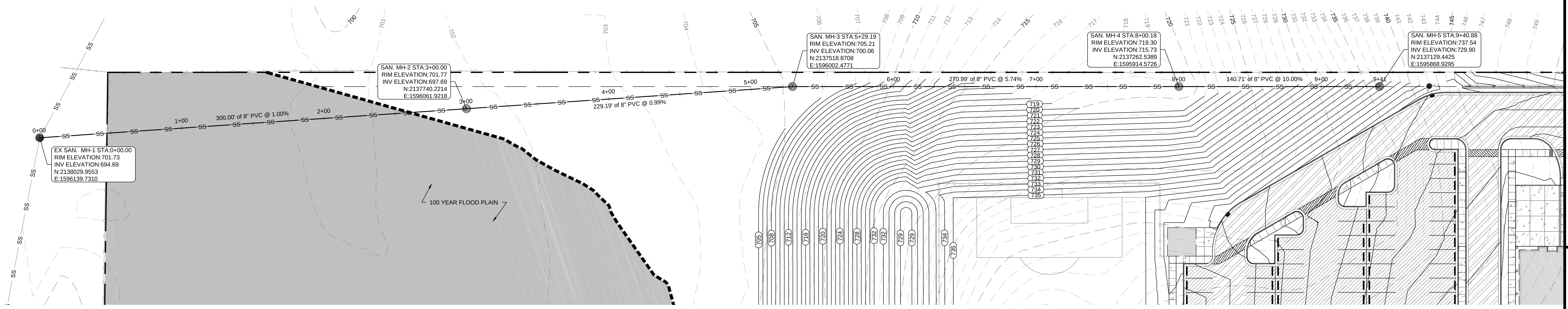
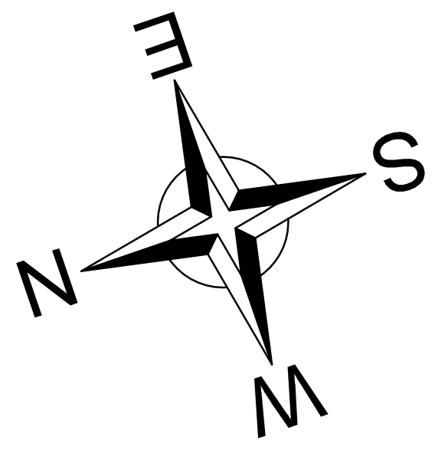
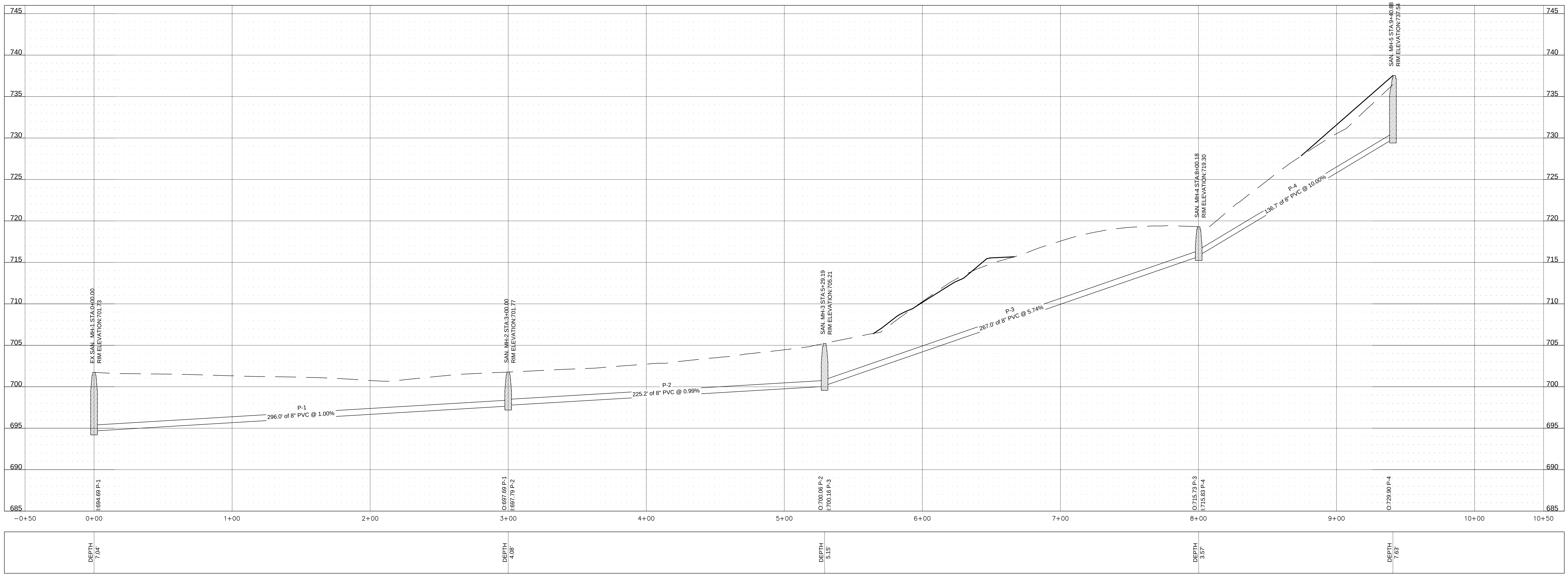




1 / C7.1 **SITE - SANITARY SEWER PLAN**

SCALE: 1" = 30'



1 / C7.1 **SITE - SANITARY SEWER PROFILE**

SCALE: HORIZ. 1" = 30' VERT. 1" = 5'

JOB NAME

G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE

SITE - SANITARY SEWER
PLAN PROFILE

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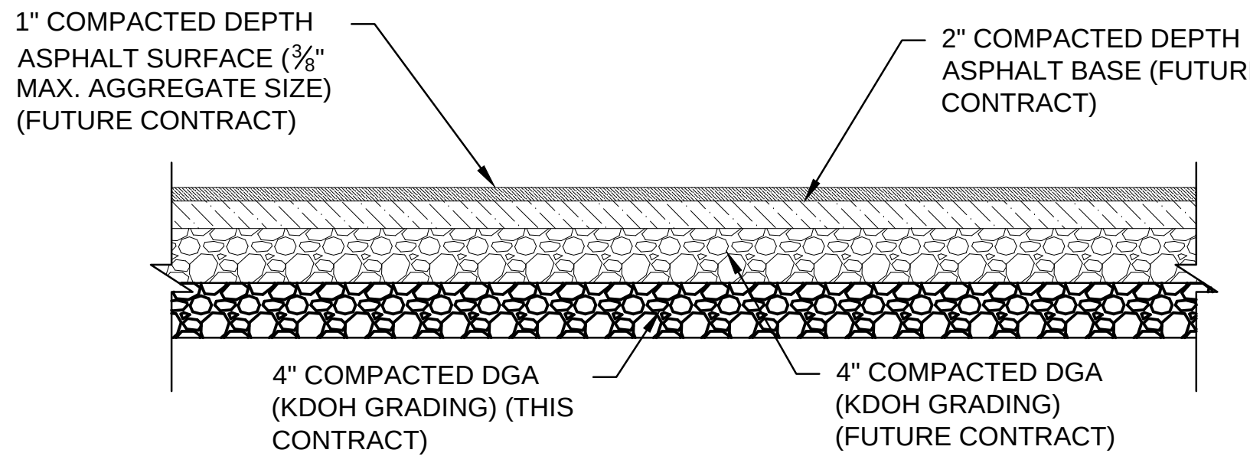
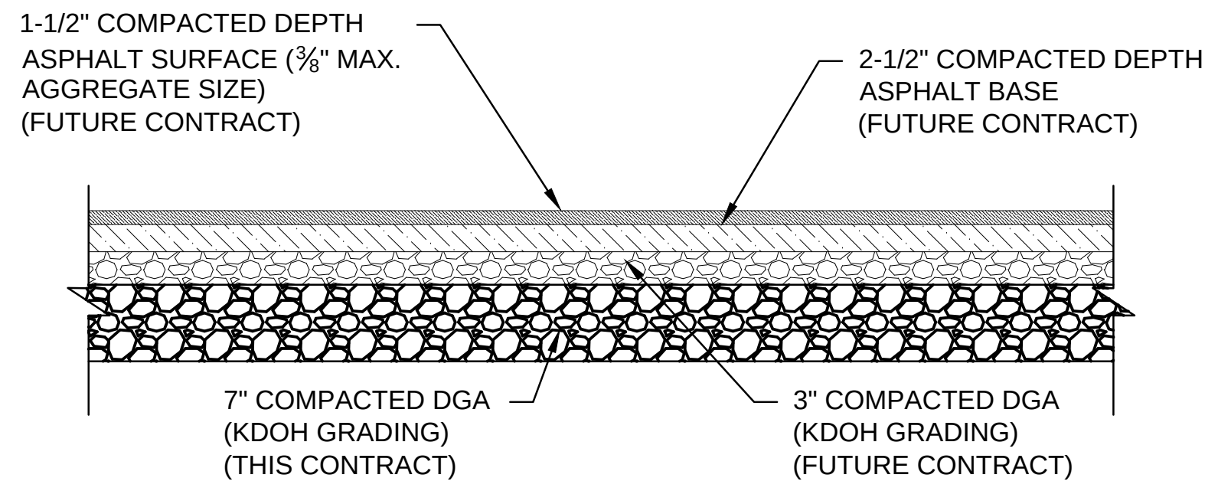
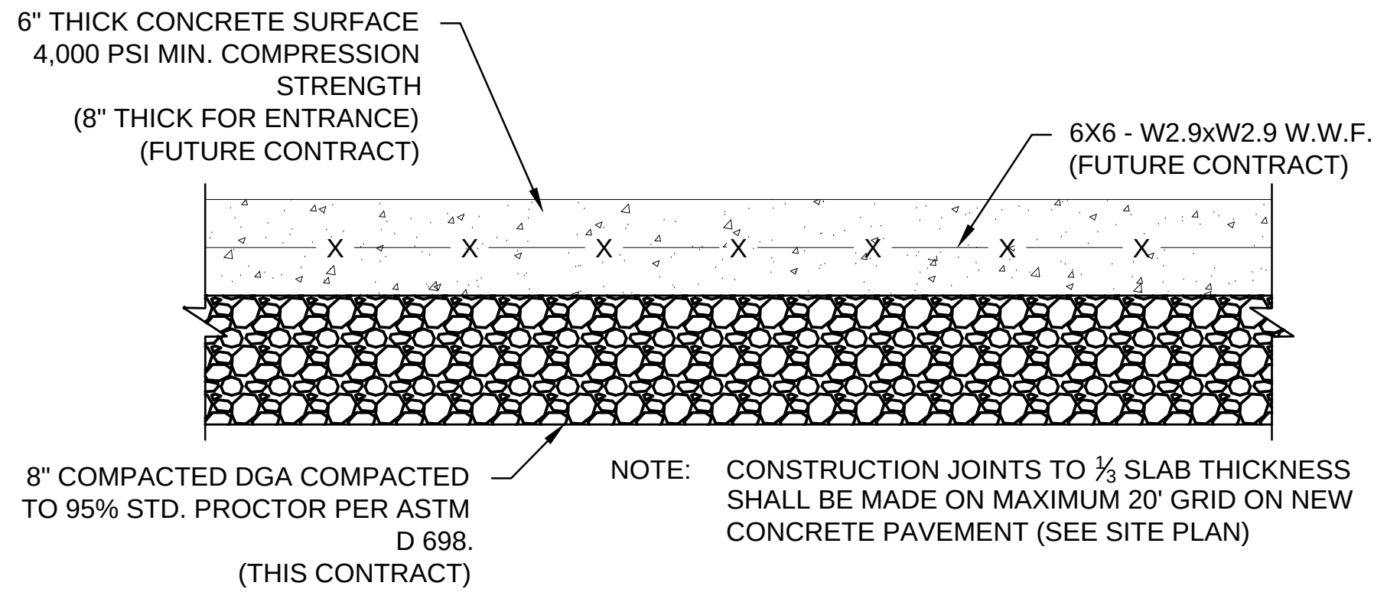

1" COMPACTED DEPTH ASPHALT SURFACE (3/8" MAX. AGGREGATE SIZE) (FUTURE CONTRACT)
2" COMPACTED DEPTH ASPHALT BASE (FUTURE CONTRACT)
4" COMPACTED DGA (KDOH GRADING) (THIS CONTRACT)
4" COMPACTED DGA (KDOH GRADING) (FUTURE CONTRACT)

1 STANDARD DUTY ASPHALT PAVEMENT
C8.0 SCALE: N.T.S.

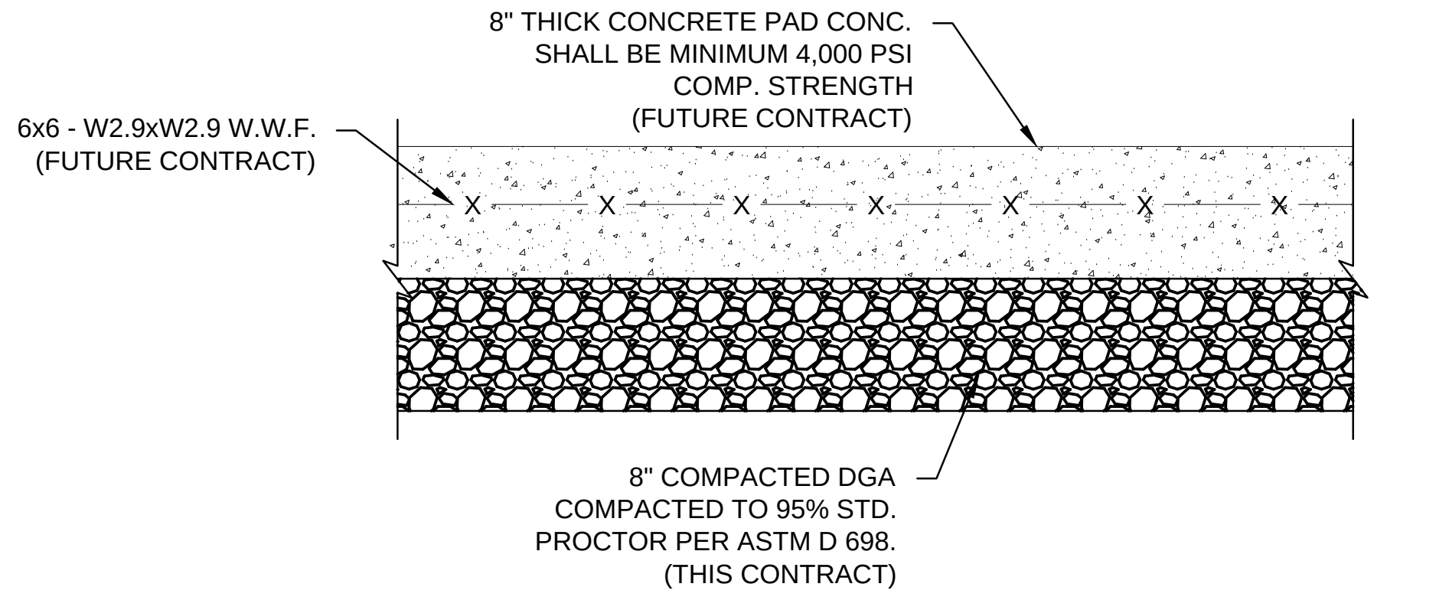

1-1/2" COMPACTED DEPTH ASPHALT SURFACE (3/8" MAX. AGGREGATE SIZE) (FUTURE CONTRACT)
2-1/2" COMPACTED DEPTH ASPHALT BASE (FUTURE CONTRACT)
7" COMPACTED DGA (KDOH GRADING) (THIS CONTRACT)
3" COMPACTED DGA (KDOH GRADING) (FUTURE CONTRACT)

2 HEAVY DUTY ASPHALT PAVEMENT
C8.0 SCALE: N.T.S.

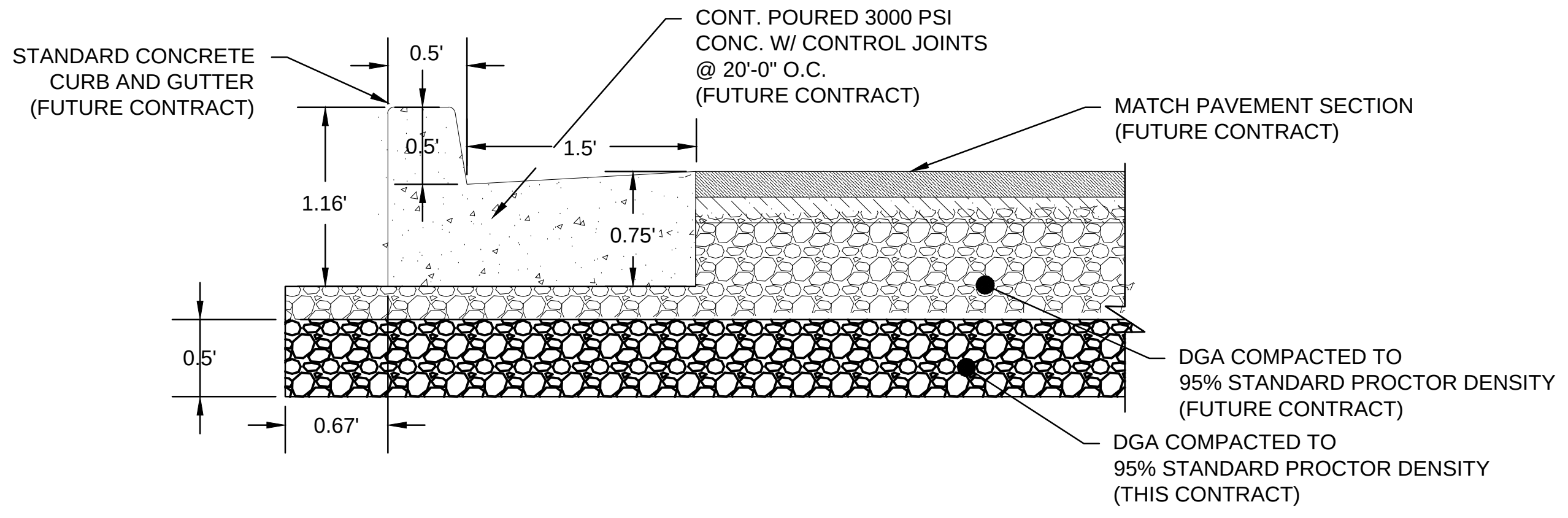

6" THICK CONCRETE SURFACE 4,000 PSI MIN. COMPRESSION STRENGTH (8" THICK FOR ENTRANCE) (FUTURE CONTRACT)
6X6 - W2.9xW2.9 W.W.F. (FUTURE CONTRACT)
8" COMPACTED DGA COMPACTED TO 95% STD. PROCTOR PER ASTM D 698. (THIS CONTRACT)

NOTE: CONSTRUCTION JOINTS TO 1/3 SLAB THICKNESS SHALL BE MADE ON MAXIMUM 20' GRID ON NEW CONCRETE PAVEMENT (SEE SITE PLAN)

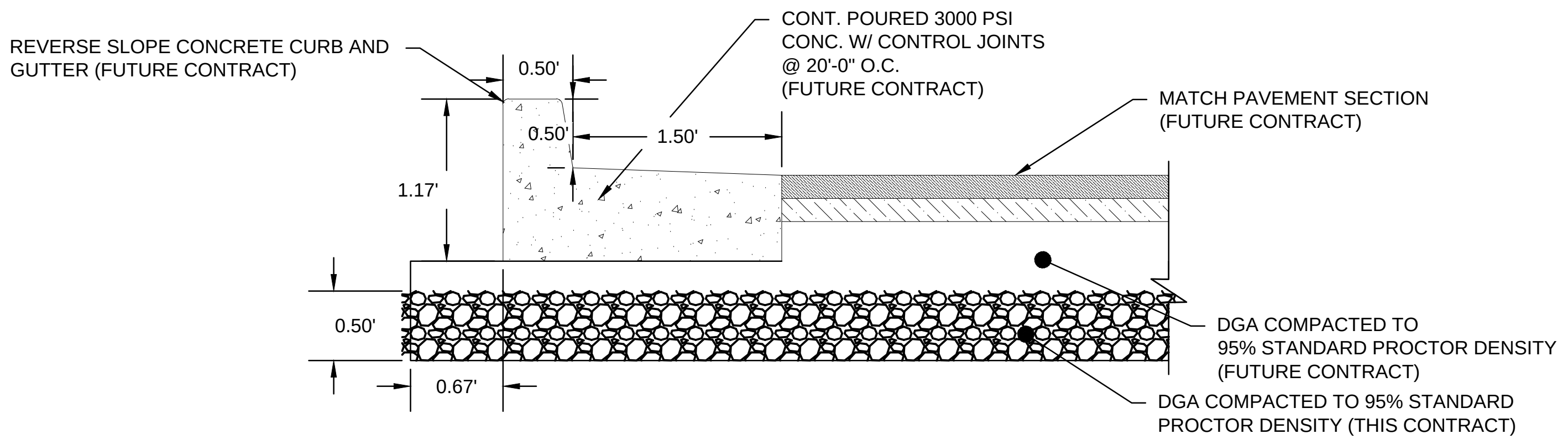
3 STANDARD DUTY CONCRETE PAVING
C8.0 SCALE: N.T.S.


8" THICK CONCRETE PAD CONC. SHALL BE MINIMUM 4,000 PSI COMP. STRENGTH (FUTURE CONTRACT)
6x6 - W2.9xW2.9 W.W.F. (FUTURE CONTRACT)
8" COMPACTED DGA COMPACTED TO 95% STD. PROCTOR PER ASTM D 698. (THIS CONTRACT)

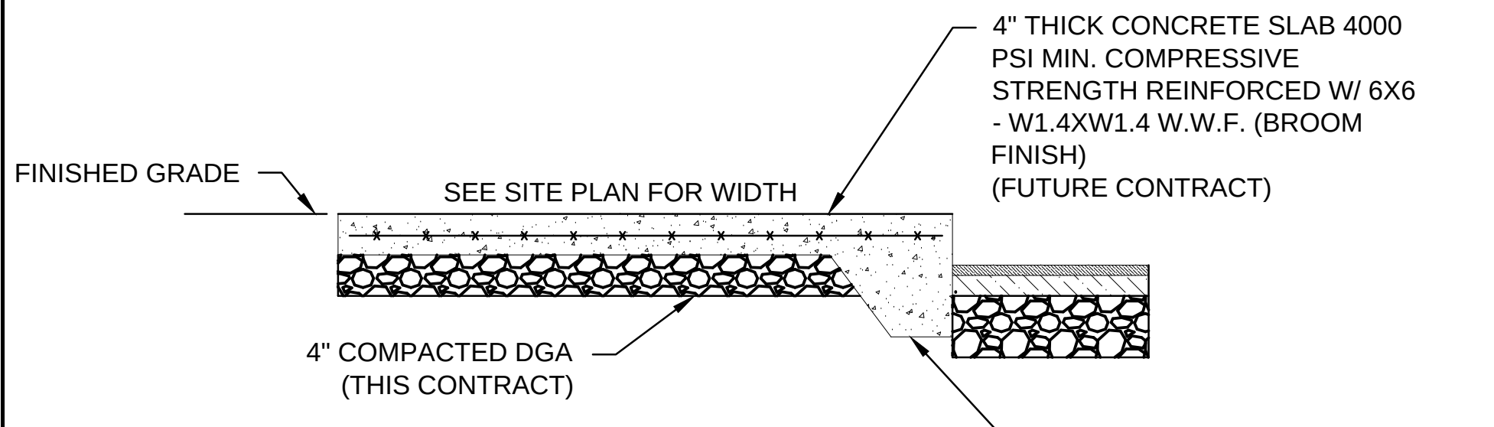
4 HEAVY DUTY CONCRETE PAVEMENT
C8.0 SCALE: N.T.S.


STANDARD CONCRETE CURB AND GUTTER (FUTURE CONTRACT)
0.5'
0.5'
1.5'
CONT. POURED 3000 PSI CONC. W/ CONTROL JOINTS @ 20'-0" O.C. (FUTURE CONTRACT)
MATCH PAVEMENT SECTION (FUTURE CONTRACT)
1.16'
0.75'
0.5'
0.67'
DGA COMPACTED TO 95% STANDARD PROCTOR DENSITY (FUTURE CONTRACT)
DGA COMPACTED TO 95% STANDARD PROCTOR DENSITY (THIS CONTRACT)

5 STANDARD CURB AND GUTTER
C8.0 SCALE: N.T.S.

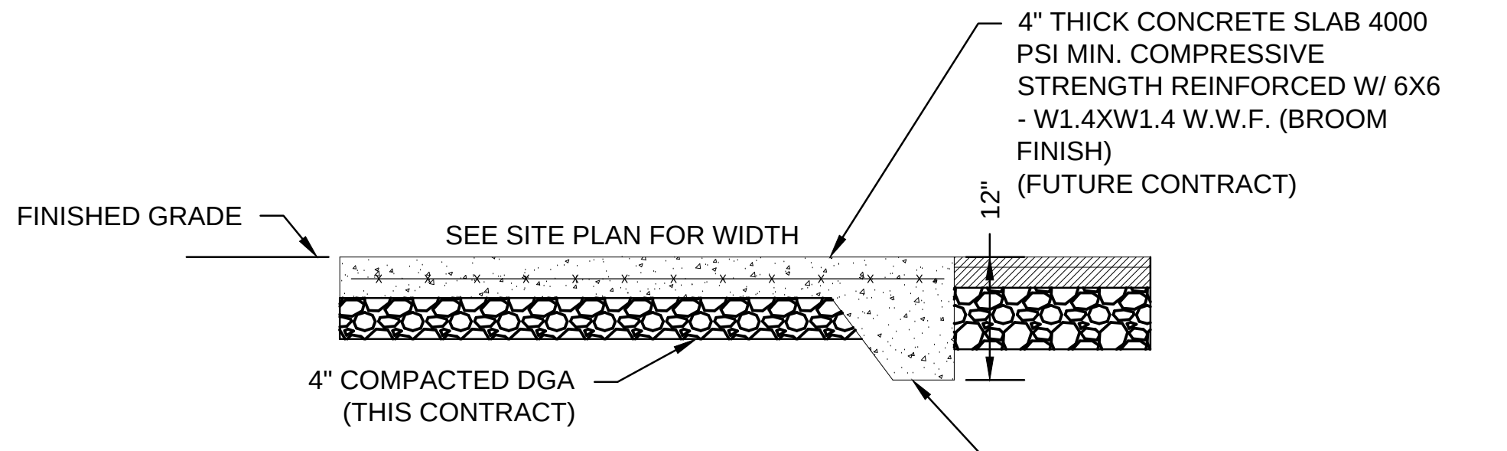

REVERSE SLOPE CONCRETE CURB AND GUTTER (FUTURE CONTRACT)
0.50'
0.50'
1.50'
CONT. POURED 3000 PSI CONC. W/ CONTROL JOINTS @ 20'-0" O.C. (FUTURE CONTRACT)
MATCH PAVEMENT SECTION (FUTURE CONTRACT)
1.17'
0.50'
0.67'
DGA COMPACTED TO 95% STANDARD PROCTOR DENSITY (FUTURE CONTRACT)
DGA COMPACTED TO 95% STANDARD PROCTOR DENSITY (THIS CONTRACT)

6 REVERSE SLOPE CURB AND GUTTER
C8.0 SCALE: N.T.S.


FINISHED GRADE
SEE SITE PLAN FOR WIDTH
4" THICK CONCRETE SLAB 4000 PSI MIN. COMPRESSIVE STRENGTH REINFORCED W/ 6X6 - W1.4XW1.4 W.W.F. (BROOM FINISH) (FUTURE CONTRACT)
4" COMPACTED DGA (THIS CONTRACT)
THICKENED SIDEWALK LOCATED ADJACENT TO PAVEMENT SECTIONS

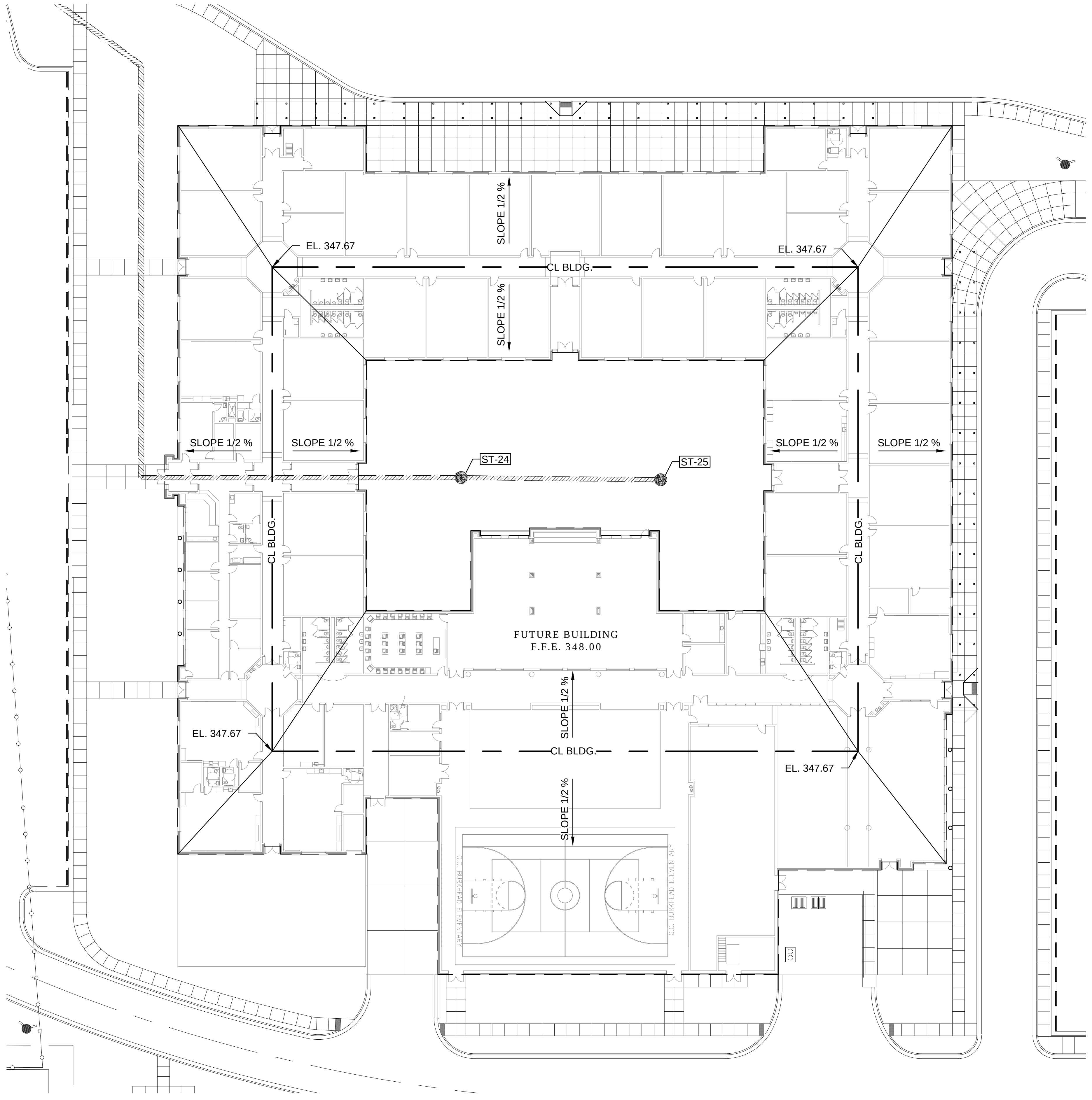
NOTE: CONSTRUCTION JOINTS SHALL BE MADE ON MAXIMUM JOINT SPACING TO SIDEWALK WIDTH RATION OF 1:1 (TYP.) (SEE SITE PLAN)

7 CONCRETE SIDEWALK
C8.0 SCALE: N.T.S.

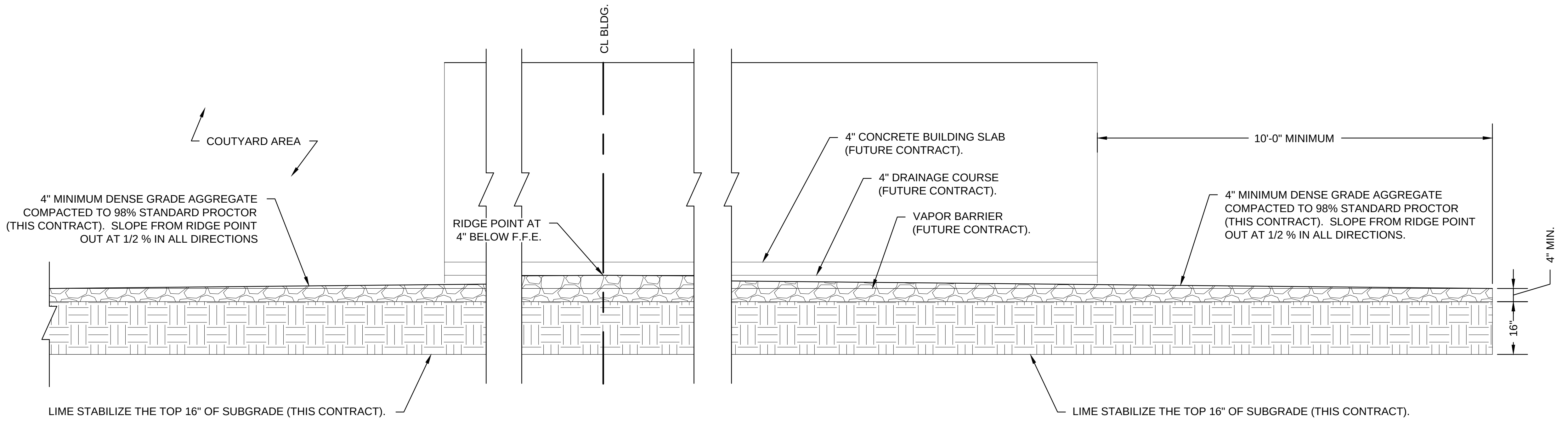

FINISHED GRADE
SEE SITE PLAN FOR WIDTH
4" THICK CONCRETE SLAB 4000 PSI MIN. COMPRESSIVE STRENGTH REINFORCED W/ 6X6 - W1.4XW1.4 W.W.F. (BROOM FINISH) (FUTURE CONTRACT)
12"
4" COMPACTED DGA (THIS CONTRACT)
THICKENED SIDEWALK LOCATED ADJACENT TO PAVEMENT SECTIONS

NOTE: TOOLED CONSTRUCTION JOINTS SHALL BE MADE ON MAXIMUM JOINT SPACING TO SIDEWALK WIDTH RATIO OF 1:1 (TYP.) EXPANSION JOINTS @ MAXIMUM 100' INTERVALS.

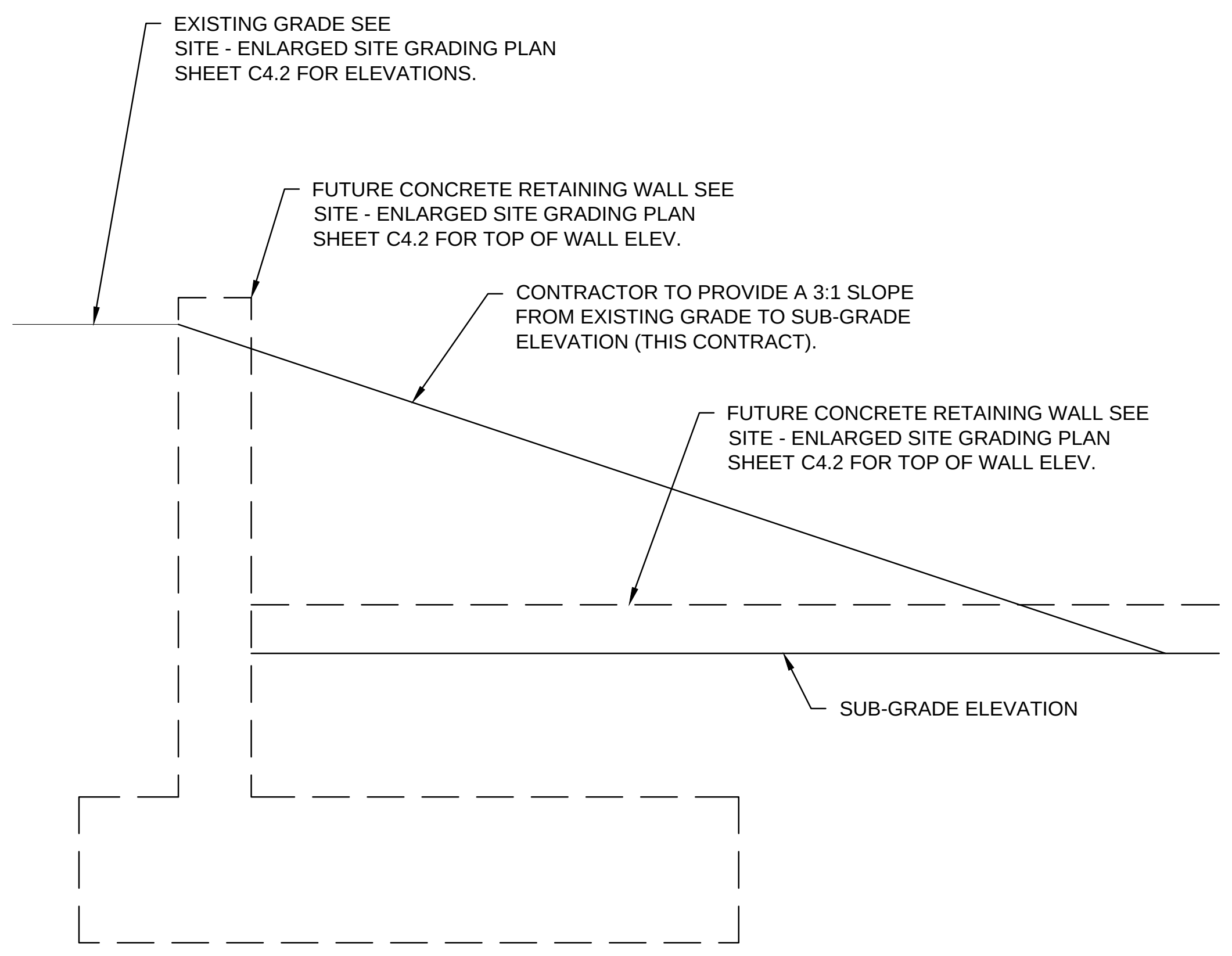
8 CONCRETE SIDEWALK
C8.0 SCALE: N.T.S.



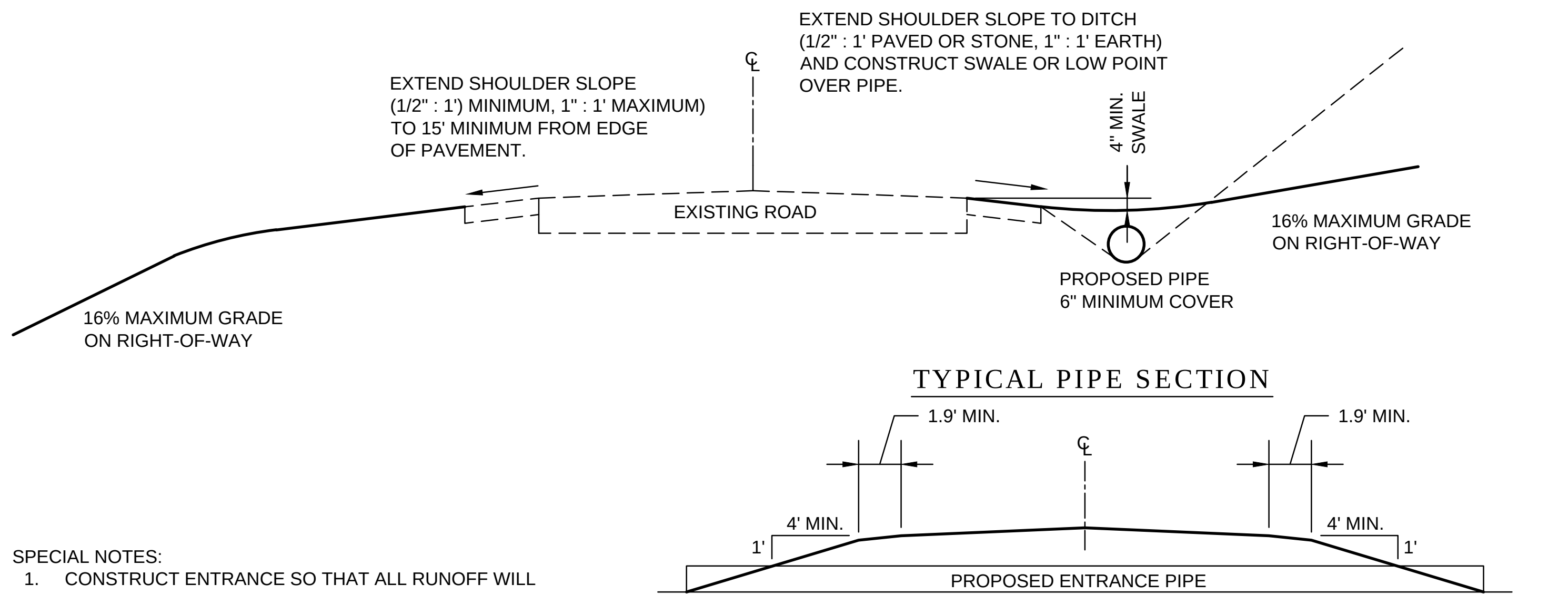
9 BUILDING PAD PLAN DETAIL
C8.0 SCALE: N.T.S.


CL BLDG.
COUTYARD AREA
4" MINIMUM DENSE GRADE AGGREGATE COMPACTED TO 98% STANDARD PROCTOR (THIS CONTRACT). SLOPE FROM RIDGE POINT OUT AT 1/2 % IN ALL DIRECTIONS
RIDGE POINT AT 4" BELOW F.F.E.
4" CONCRETE BUILDING SLAB (FUTURE CONTRACT).
4" DRAINAGE COURSE (FUTURE CONTRACT).
VAPOR BARRIER (FUTURE CONTRACT).
10'-0" MINIMUM
4" MINIMUM DENSE GRADE AGGREGATE COMPACTED TO 98% STANDARD PROCTOR (THIS CONTRACT). SLOPE FROM RIDGE POINT OUT AT 1/2 % IN ALL DIRECTIONS.
4" MIN.
16"
LIME STABILIZE THE TOP 16" OF SUBGRADE (THIS CONTRACT).
LIME STABILIZE THE TOP 16" OF SUBGRADE (THIS CONTRACT).

10 BUILDING PAD SECTION
C8.0 SCALE: N.T.S.


EXISTING GRADE SEE SITE - ENLARGED SITE GRADING PLAN SHEET C4.2 FOR ELEVATIONS.
FUTURE CONCRETE RETAINING WALL SEE SITE - ENLARGED SITE GRADING PLAN SHEET C4.2 FOR TOP OF WALL ELEV.
CONTRACTOR TO PROVIDE A 3:1 SLOPE FROM EXISTING GRADE TO SUB-GRADE ELEVATION (THIS CONTRACT).
FUTURE CONCRETE RETAINING WALL SEE SITE - ENLARGED SITE GRADING PLAN SHEET C4.2 FOR TOP OF WALL ELEV.
SUB-GRADE ELEVATION

11 RETAINING WALL DETAIL
C8.0 SCALE: N.T.S.


EXTEND SHOULDER SLOPE (1/2" : 1') MINIMUM, 1" : 1' MAXIMUM) TO 15' MINIMUM FROM EDGE OF PAVEMENT.
CL
EXTEND SHOULDER SLOPE TO DITCH (1/2" : 1' PAVED OR STONE, 1" : 1' EARTH) AND CONSTRUCT SWALE OR LOW POINT OVER PIPE.
4" MIN. SWALE
EXISTING ROAD
16% MAXIMUM GRADE ON RIGHT-OF-WAY
PROPOSED PIPE 6" MINIMUM COVER
16% MAXIMUM GRADE ON RIGHT-OF-WAY
TYPICAL PIPE SECTION
1.9' MIN.
CL
1.9' MIN.
4' MIN.
1'
4' MIN.
1'
PROPOSED ENTRANCE PIPE

SPECIAL NOTES:
1. CONSTRUCT ENTRANCE SO THAT ALL RUNOFF WILL DRAIN AWAY FROM ROADWAY AND IS NOT ALLOWED ONTO THE SHOULDER OR DRIVING LANE.
2. DITCHING OR OTHER EXCAVATION BE MAY NECESSARY TO ASSURE PROPER PIPE COVERAGE AND PROVIDE POSITIVE DRAINAGE.
3. MINIMUM DITCH FLOWLINE SLOPE IS 1/2' PER 100'.
4. ENTRANCE PAVEMENT SHOULD NOT EXTEND ABOVE EDGE OF HIGHWAY PAVEMENT.

PRIVATE ENTRANCES

WIDTH	10' MIN. - 20' MAX.
RADIUS	5' MIN. - 25' DESIREABLE
PROPERTY LINE	5' MIN.

12 TYPICAL ENTRANCE DETAIL
C8.0 SCALE: N.T.S.

JOB NAME
G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE
SITE - DETAILS

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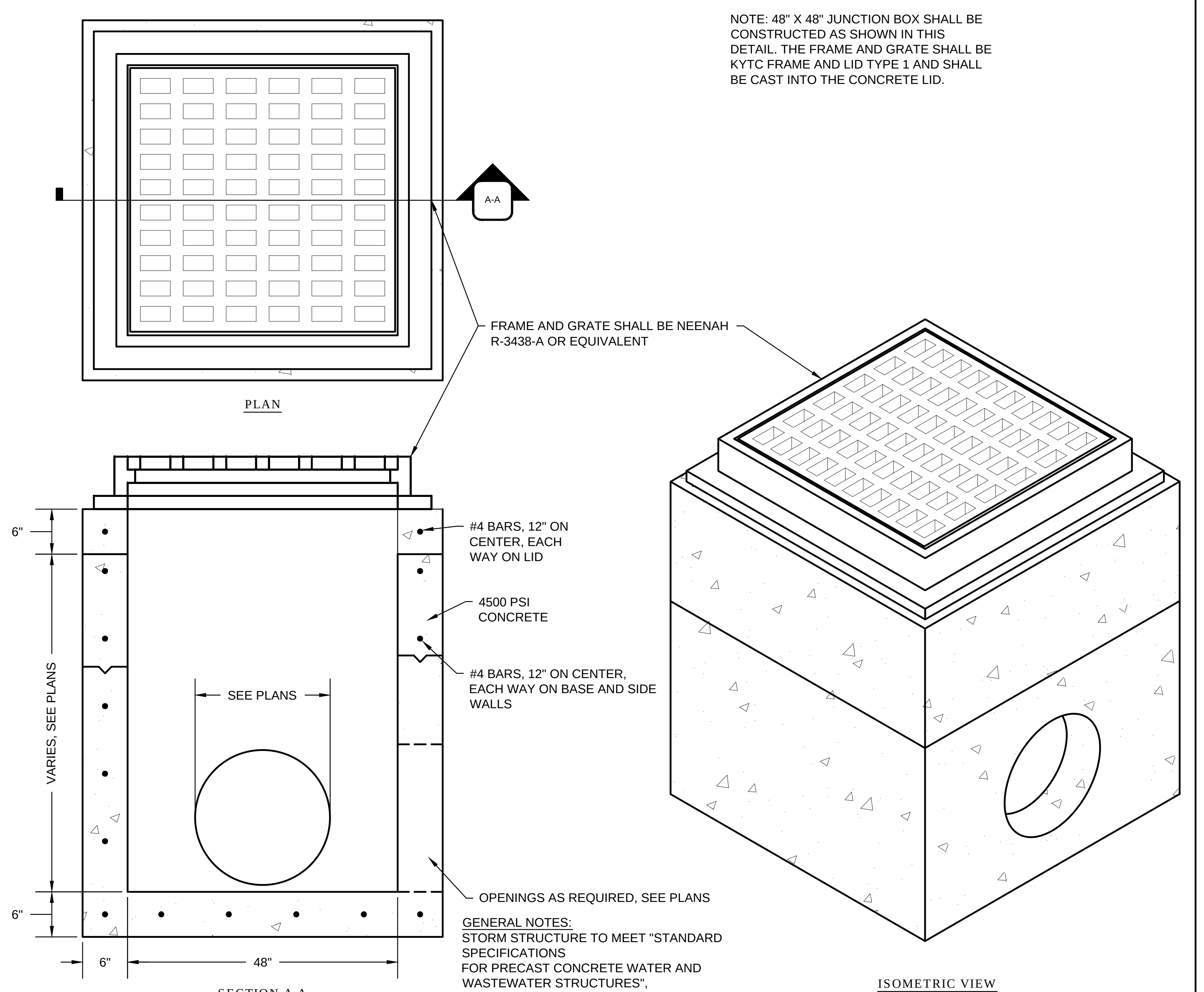
JOB NO. 1264
DATE 07.15.2013
PRODUCED BY: SAK/SLH
NOTES:

SHEET NUMBER
C8.0

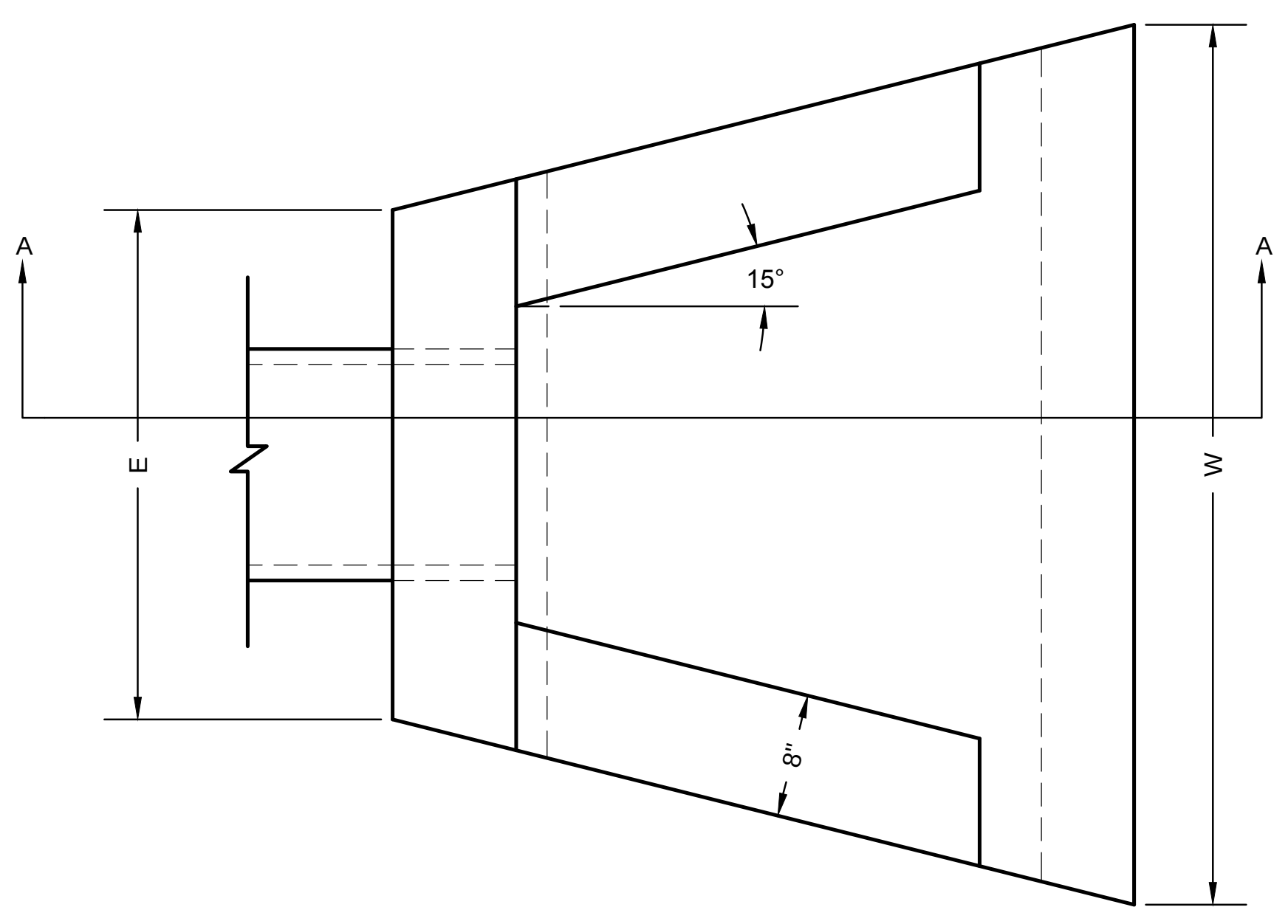

PLAN
A-A
FRAME AND GRATE SHALL BE NEENAH R-3438-A OR EQUIVALENT
#4 BARS, 12" ON CENTER, EACH WAY ON LID
4500 PSI CONCRETE
#4 BARS, 12" ON CENTER, EACH WAY ON BASE AND SIDE WALLS
SEE PLANS
VARIES, SEE PLANS
6"
6"
6"
48"
OPENINGS AS REQUIRED, SEE PLANS
SECTION A-A
ISOMETRIC VIEW

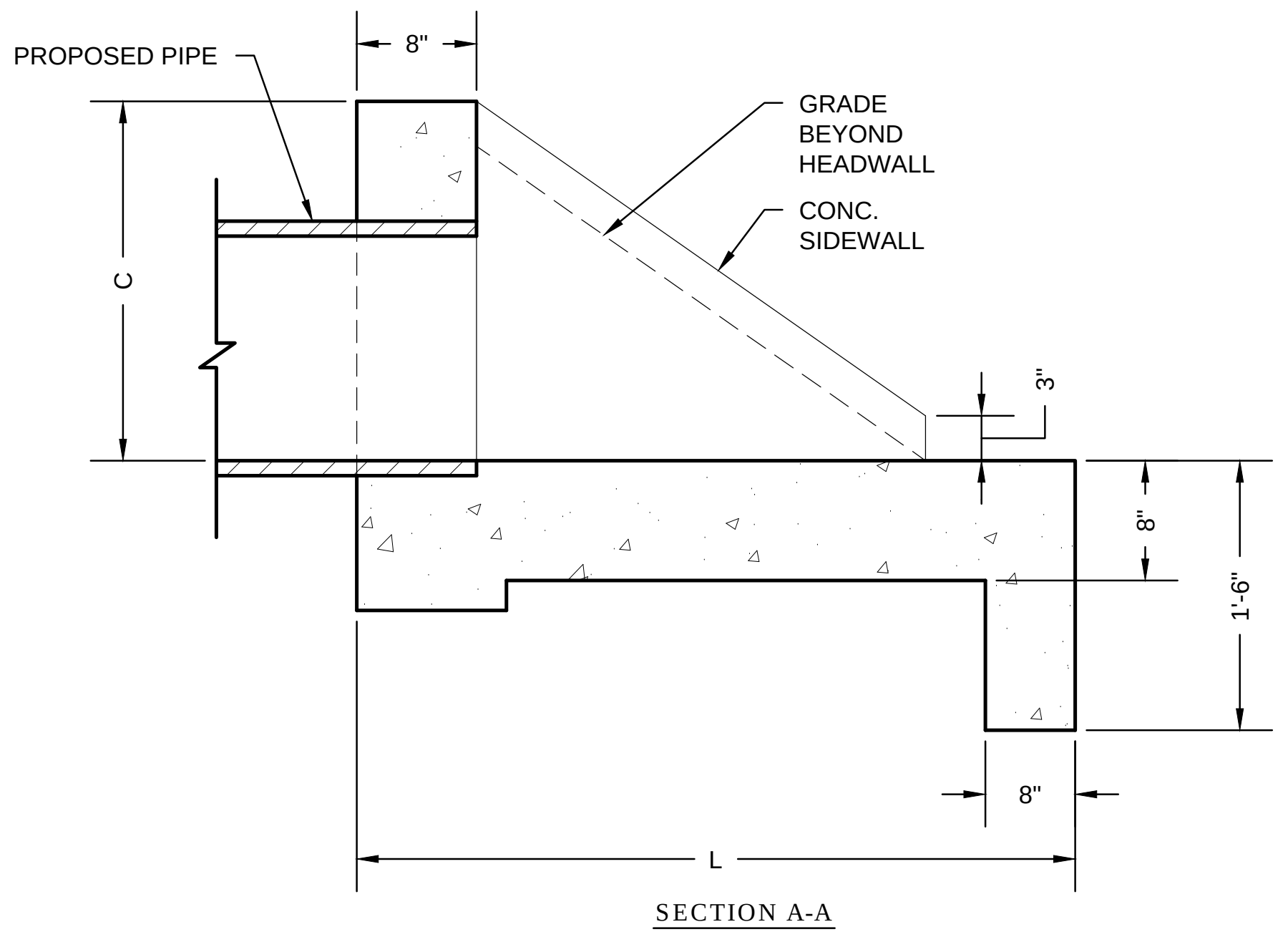
NOTE: 48" X 48" JUNCTION BOX SHALL BE CONSTRUCTED AS SHOWN IN THIS DETAIL. THE FRAME AND GRATE SHALL BE KYTC FRAME AND LID TYPE 1 AND SHALL BE CAST INTO THE CONCRETE LID.

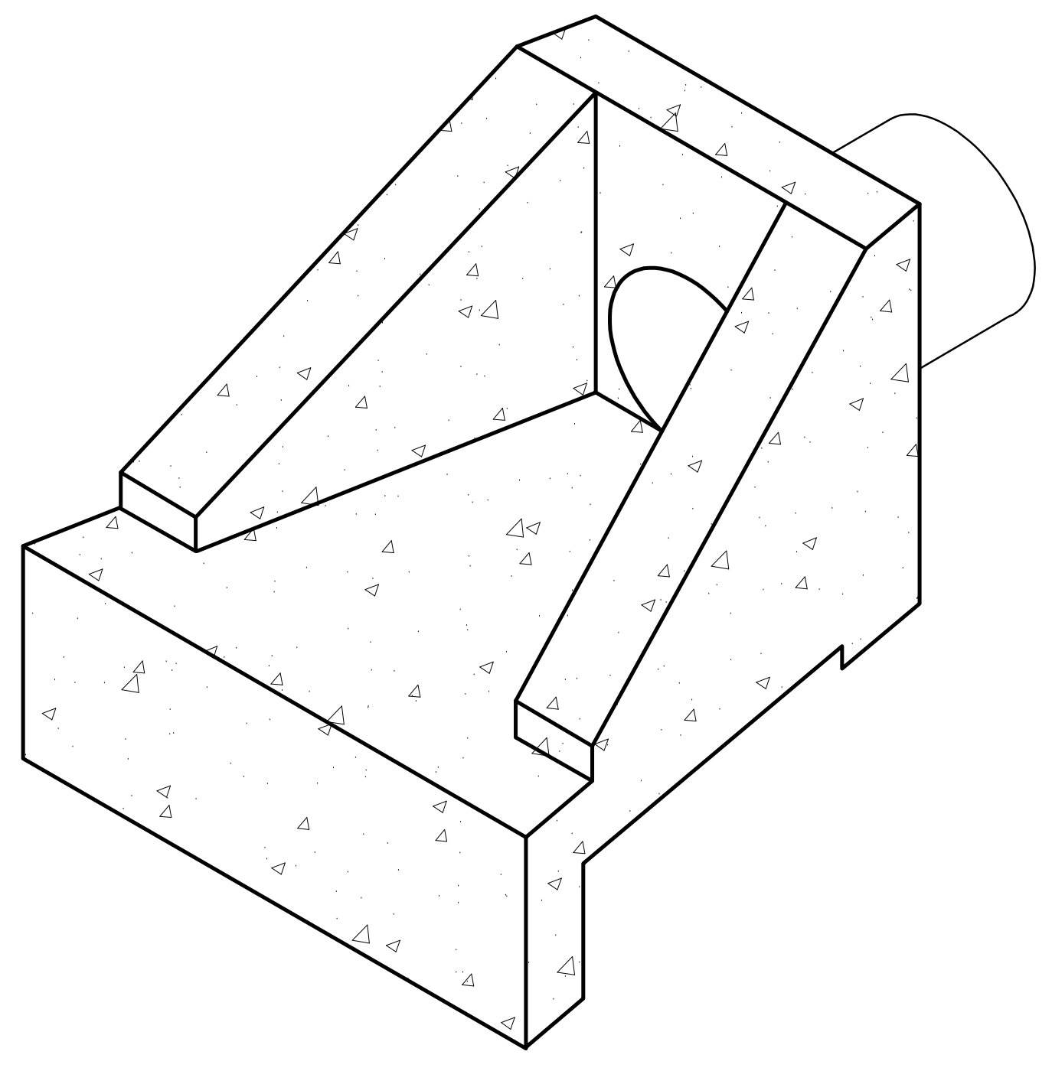
GENERAL NOTES:
STORM STRUCTURE TO MEET "STANDARD SPECIFICATIONS
FOR PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES",
PER ASTM C-913 (LATEST REVISION)

1 C8.1 48" X 48" CATCH BASIN

SCALE: N.T.S.





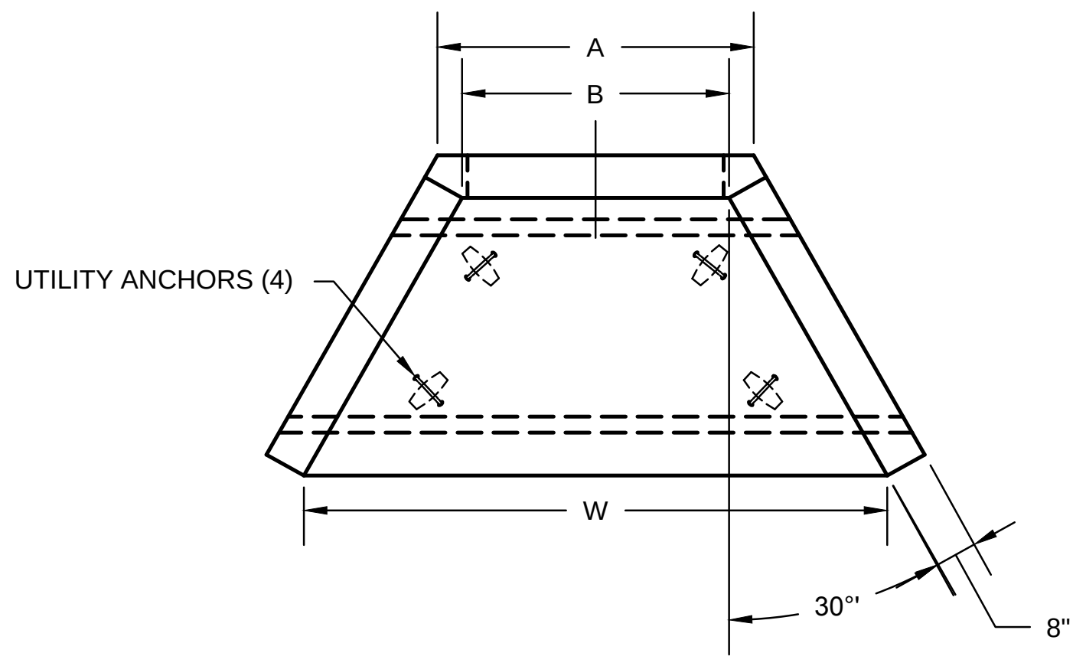


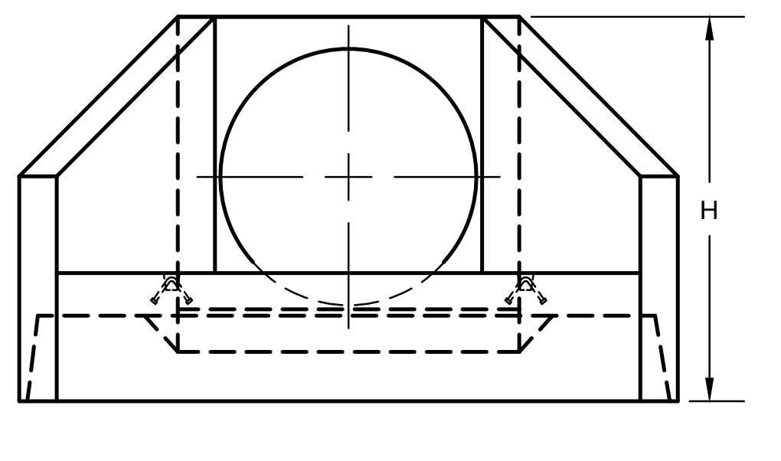
DIMENSIONS					
PIPE DIA.	C	L	W	E	WEIGHT
12" & 15"	2'-0"	4'-0"	4'-0"	2'-9"	3,040 lbs
18"	2'-3"	4'-6"	5'-3"	3'-0"	3,766 lbs
24"	2'-9"	5'-6"	6'-6"	3'-6"	5,470 lbs

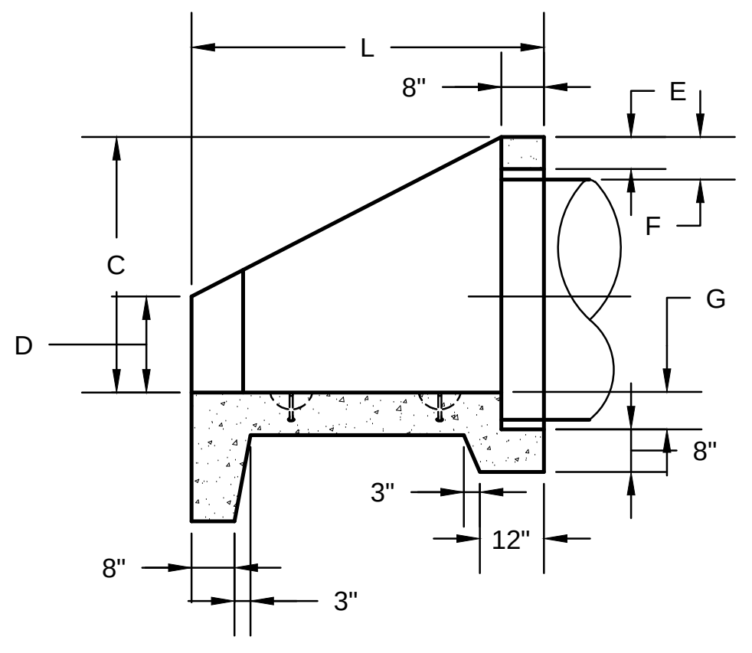
GENERAL NOTES:
1. #4 REBAR 12" C.C EA. WAY GRADE 60.
2. 3/4" CHAMFER ON ALL EXPOSED EDGES.
3. CONCRETE 4500 PSI @ 28 DAYS.
4. 2" CONCRETE COVER
5. CONFORM TO KDOH STD. DRAWING NO. RDH-020-03.

2 C8.1 SLOPED & FLARED HEADWALL DETAIL

SCALE: N.T.S.







GENERAL NOTES:

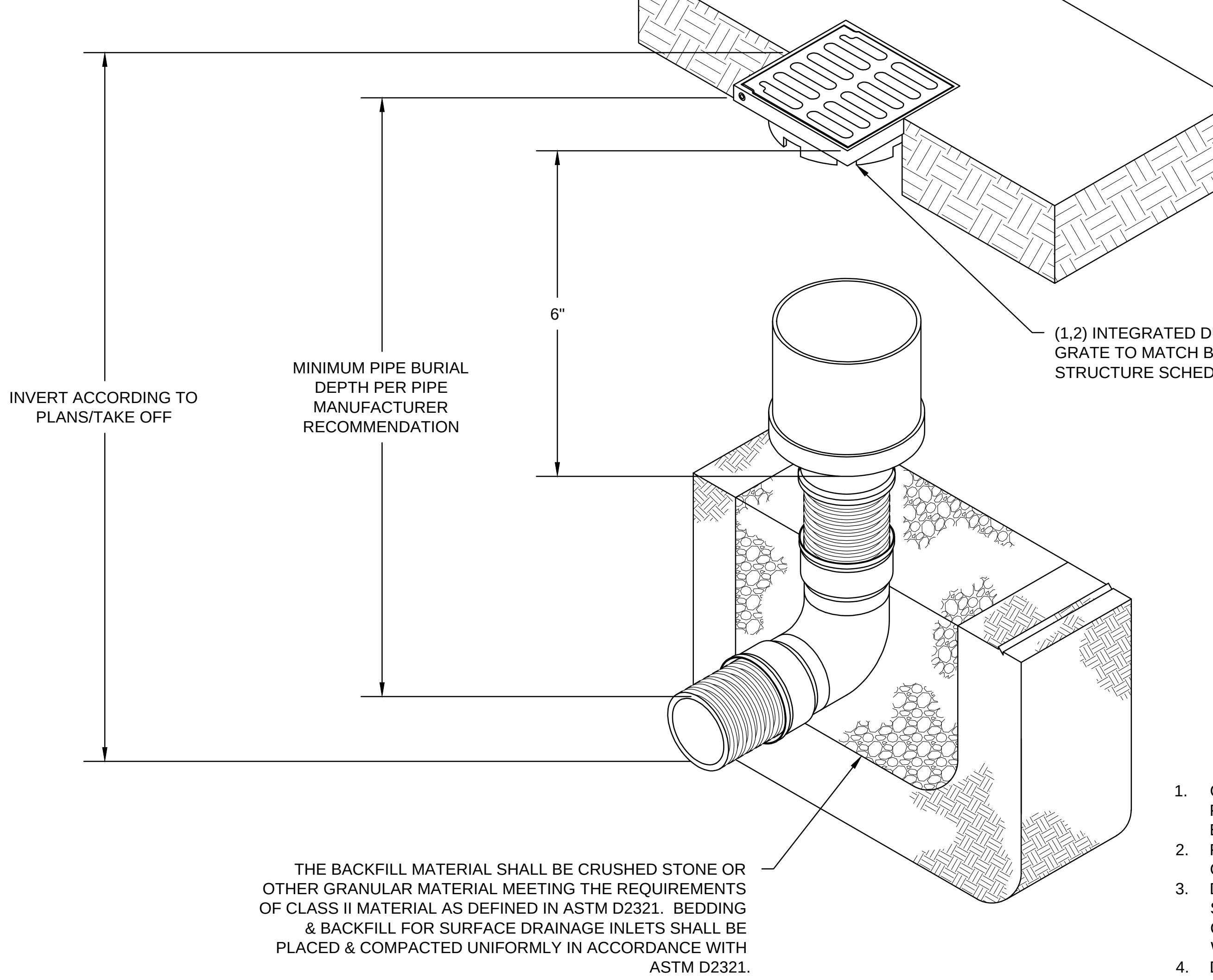
1. THE FOLLOWING STANDARD SPECIFICATIONS APPLY: REINFORCING- 811.02, STRUCTURE- 710.03.01, TACK WELDING- 605.03.04.
2. MINIMUM 2" CONCRETE COVER ON REBAR.
3. CONCRETE: CLASS A - 3500 PSI @ 28 DAYS W/ AIR ENTRAINMENT.
4. ALL PICK UP POINTS AND PIPE OPENINGS TO BE GROUTED BY CONTRACTOR WITH STATE APPROVED NON-SHRINK GROUT.
5. TO BE USED IN CONJUNCTION WITH DOH DWG. RDH-110-02.
6. 3/4" CHAMFER ON ALL EXPOSED EDGES.

PIPE SIZE	HOLE SIZE	"W"	"L"	"H"	"A"	"B"	"C"	"D"	"E"	"F"	"G"	WT.
30" RCP 36" RCP	40" 48"	110"	60"	72"	64"	50"	48"	18"	13" 6"	14Š" 8"	5" 6"	9615 Lbs.
42" RCP 48" RCP	54" 62"	146"	74"	87"	80"	70"	63"	27"	16" 8"	16Š" 8"	6" 7"	15,065 Lbs.
54" RCP 60" RCP	70" 76"	172"	88"	98"	89"	80"	74"	33"	6"	9"	8"	20,428 Lbs.

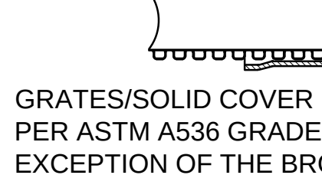
Hole Size For All Other Pipe Types Will Be Pipe O.D.+ 2"-4"

3 C8.1 30" - 60" PRECAST CONRETE HEADWALL

SCALE: N.T.S.


INVERT ACCORDING TO PLANS/TAKE OFF
MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION
6"
(1,2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D. SEE STRUCTURE SCHEDULE.

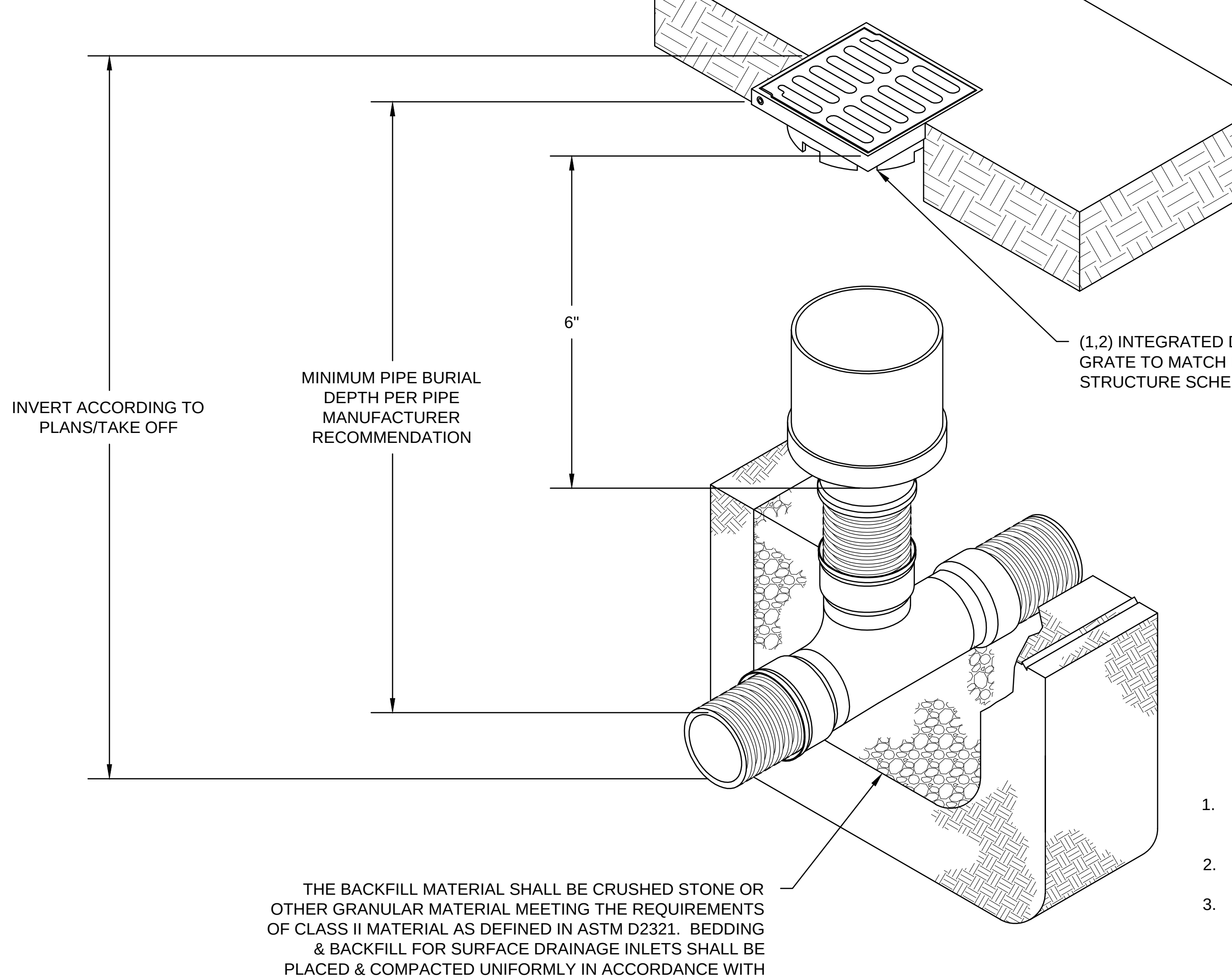
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.



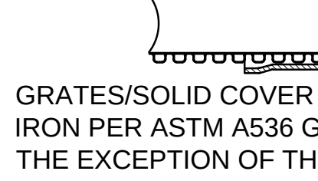
1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4. DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5. DIMENSIONS ARE IN INCHES SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

4 C8.1 18" INLINE DRAIN

SCALE: N.T.S.


INVERT ACCORDING TO PLANS/TAKE OFF
MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION
6"
(1,2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D. SEE STRUCTURE SCHEDULE.

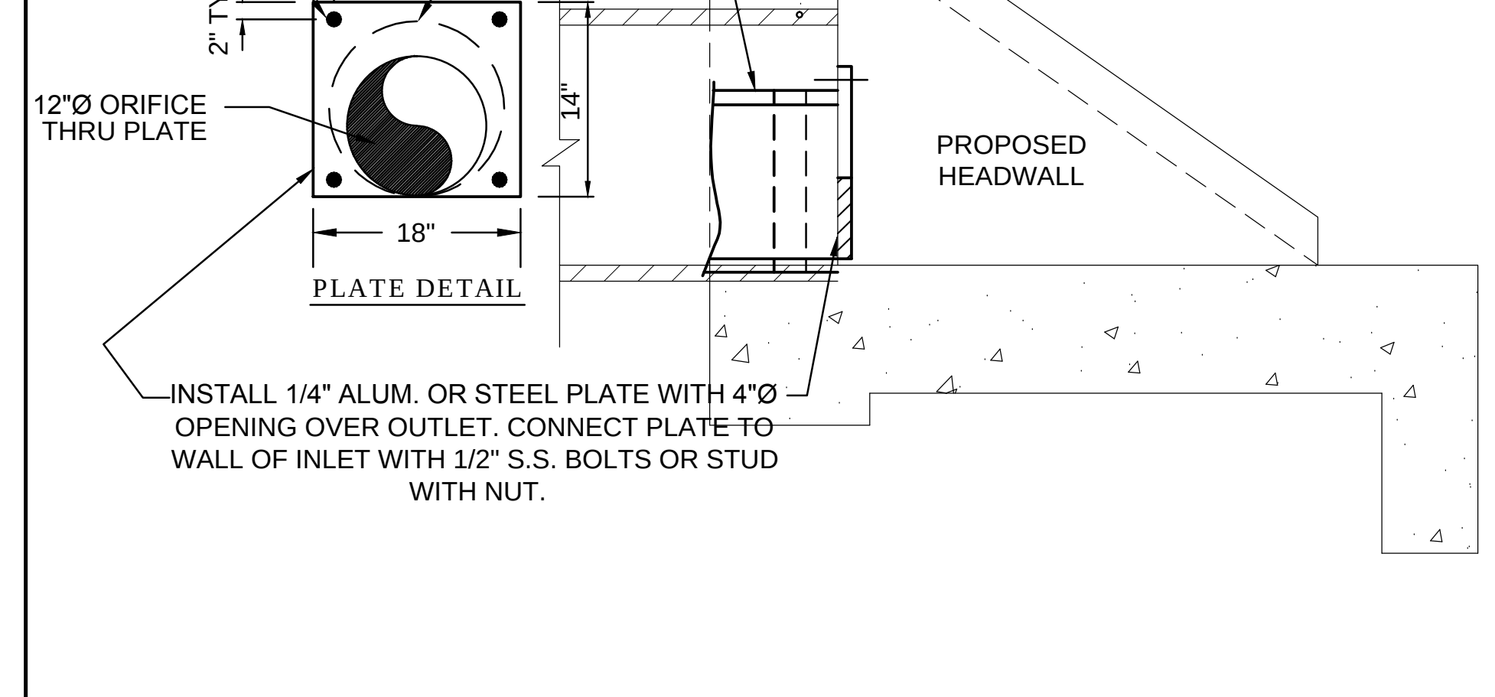
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.



1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4. DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5. DIMENSIONS ARE IN INCHES SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-364 FOR N-12 HP BELL INFORMATION.

5 C8.1 18" INLINE DRAIN (TEE)

SCALE: N.T.S.


2" X 0.50" S.S. BOLT OR STUD WITH NUT, TYP. OF 4
2" TYP.
2" TYP.
15" HDPE OUTLET PIPE
12"Ø ORIFICE THRU PLATE
14"
18"
PLATE DETAIL
PROPOSED HEADWALL
INSTALL 1/4" ALUM. OR STEEL PLATE WITH 4"Ø OPENING OVER OUTLET. CONNECT PLATE TO WALL OF INLET WITH 1/2" S.S. BOLTS OR STUD WITH NUT.

6 C6.3 ORIFICE PLATE

SCALE: 1" = 2'

JOB NAME
G.C. BURKHEAD ELEM. SCHOOL
EARLY RELEASE
SITE GRADING PACKAGE
BG# 13-131

SHEET TITLE
ESP SITE - DETAILS

MURPHY·GRAVES
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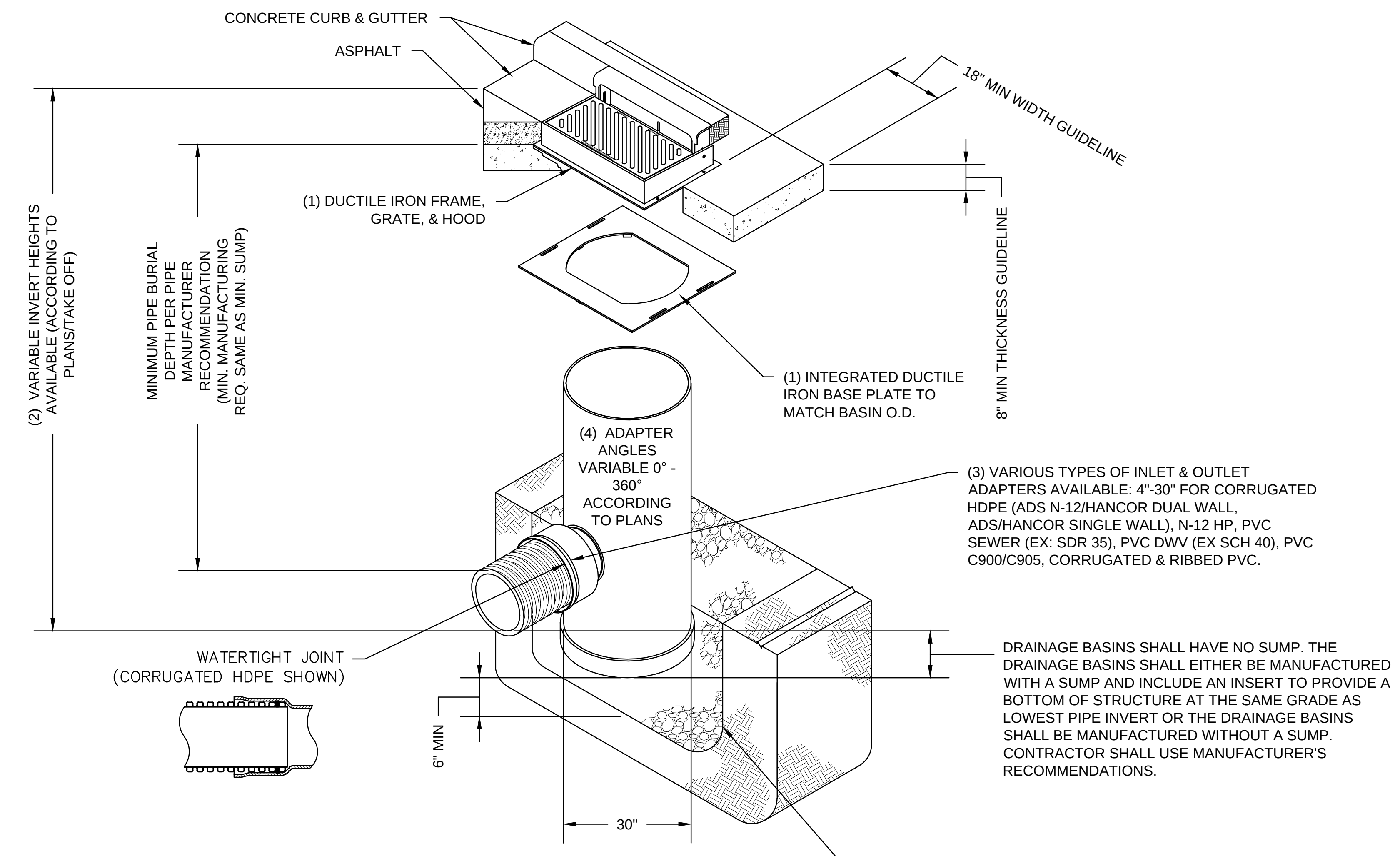
JOB NO. 1264
DATE 07.15.2013
PRODUCED BY: SAK/SLH
NOTES:

SHEET NUMBER
C8.1

NYLOPLAST 2 FT X 3FT CURB INLET STRUCTURE: PART #: 3030AGR


CONCRETE CURB & GUTTER
ASPHALT
18" MIN WIDTH GUIDELINE
8" MIN THICKNESS GUIDELINE
(1) DUCTILE IRON FRAME, GRATE, & HOOD
(1) INTEGRATED DUCTILE IRON BASE PLATE TO MATCH BASIN O.D.
(2) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)
MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN. MANUFACTURING REQ. SAME AS MIN. SUMP)
(4) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS
(3) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4"-30" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC.
WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)
DRAINAGE BASINS SHALL HAVE NO SUMP. THE DRAINAGE BASINS SHALL EITHER BE MANUFACTURED WITH A SUMP AND INCLUDE AN INSERT TO PROVIDE A BOTTOM OF STRUCTURE AT THE SAME GRADE AS LOWEST PIPE INVERT OR THE DRAINAGE BASINS SHALL BE MANUFACTURED WITHOUT A SUMP. CONTRACTOR SHALL USE MANUFACTURER'S RECOMMENDATIONS.
6" MIN
30"

1. 18" - 30" FRAMES, GRATES, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
4. ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
5. ALL CURB INLET GRATE OPTIONS (DIAGONAL & HIGH FLOW) SHALL MEET H-20 LOAD RATING.

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

1 / C8.2 — 2 FT X 3 FT CURB INLET STRUCTURE

SCALE: N.T.S.

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