

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

**ZONING REQUIREMENTS**

**ZONING: FORM BASE**  
 THE SITE IS ZONED LW-2 (LIVE WORK 2)  
 SETBACKS: SIDES - 0'  
 REAR - 5'  
 BUILD-TO ZONE: FRONT - 0-25'  
 CORNER - 0-15'

**PROPOSED USE ASSEMBLY**

**LOT TYPE**  
 CIVIC  
 REPLACE PAVEMENT AS NECESSARY TO CONSTRUCT UTILITY CONNECTIONS PER CITY STANDARD SPECIFICATIONS. COORDINATE WITH THE CITY OF KALAMAZOO (LIMITS SHOWN ARE APPROXIMATE, CONTRACTOR SHALL VERIFY).

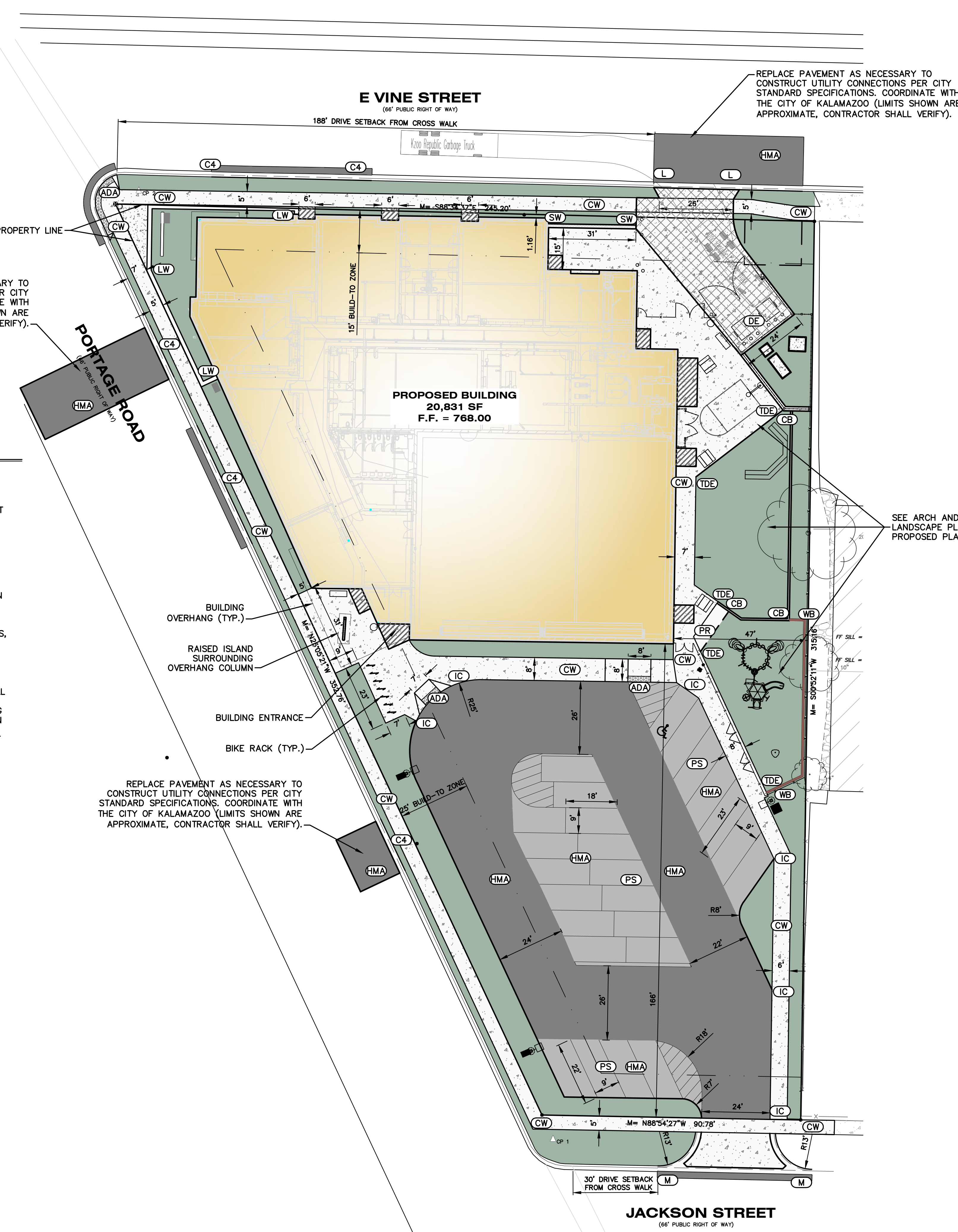
**LOT COVERAGE**  
 IMPERVIOUS: 80%  
 PERVIOUS: 20%

**STREET TYPES**

PORTAGE RD: NEIGHBORHOOD BUSINESS (NB)  
 VINE ST: COMMERCIAL BUSINESS (CB)  
 JACKSON ST: LOCAL NEIGHBORHOOD (LN)

**GENERAL NOTES**

- ALL DIMENSIONS SHOWN ARE TO THE EDGE OF METAL.
- PROVIDE CURB CUTS/RAMPS AT ALL BARRIER FREE ACCESS POINTS.
- PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE CURRENT MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND MICHIGAN BARRIER FREE CODE.
- MATCH EXISTING CURB & GUTTER SECTIONS WHEN CONNECTING TO THEM. CONDITIONS VARY THROUGHOUT PROJECT.
- EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AND THE CITY OF KALAMAZOO STANDARD SPECIFICATIONS.
- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- ALL EXTERIOR CONCRETE SHALL BE MDOT GRADE P1 (3500PSI), AIR ENTRAINED, LIMESTONE AGGREGATE, BROOM FINISHED, CURING SEAL.
- FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THIS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
- IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- CONTRACTOR SHALL NOTE THE RECENTLY COMPLETED PHASE 1 ESA, PHASE II ESA, AND BEA DOCUMENTS AND FOLLOW THE RECOMMENDATIONS OF THE DUE CARE PLAN (WHEN AVAILABLE) PREPARED BY FISHBEEK (FORMERLY ENVIROLOGIC). COPIES OF THESE DOCUMENTS ARE AVAILABLE FOR REVIEW.
- HANDLING, TESTING, AND DISPOSING OF ONSITE MATERIAL SHALL BE AS SPECIFIED IN THE DUE CARE PLAN (WHEN AVAILABLE).



NOTE: EXISTING FOUR PARCELS TO BE COMBINED. NEWLY COMBINED PARCEL ADDRESS WILL BE 847 PORTAGE STREET.

**SITE LEGEND**

- (HMA) HMA PAVEMENT
- (C4) C4 CURB AND GUTTER (SEE DETAIL)
- (L) MDOT DETAIL L DRIVEWAY OPENING (SEE DETAIL)
- (M) MDOT DETAIL M DRIVEWAY OPENING (SEE DETAIL)
- (IC) INTEGRAL CURB WALK (SEE DETAIL)
- (CW) CONCRETE WALK (SEE DETAIL)
- (PS) PARKING STRIPING
- (DE) DUMPSTER ENCLOSURE (SEE ARCH PLANS)
- (ADA) PROPOSED ADA RAMP W/ DETECTABLE WARNING
- (LW) LANDSCAPE WALL (SEE ARCH PLANS)
- (SW) SCREENING WALL
- (PR) PLAYGROUND ADA RAMP
- (CB) PLAYGROUND CONCRETE BORDER
- (TDE) PLAYGROUND TURNED DOWN EDGE
- (WB) PLAYGROUND WOOD BORDER

**LEGEND**

- STANDARD-DUTY BITUMINOUS PAVEMENT
- HEAVY-DUTY BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT AND SIDEWALK
- FROST FREE LANDING (SEE STRUCTURAL PLANS)
- HEAVY-DUTY CONCRETE
- PROPOSED BUILDING
- CURB AND GUTTER

**BENCHMARKS**

ELEVATIONS OF THIS SURVEY ARE BASED ON NAVD 88 AS DERIVED FROM GPS

BM 1 EL = 769.88  
 SPIKE IN THE NORTH FACE OF UTILITY POLE ON THE EAST SIDE OF PORTAGE ROAD 134'± SOUTH OF E VINE ST.

BM 2 EL = 767.98  
 SPIKE IN NORTHEAST FACE OF UTILITY POLE ON THE SOUTHEAST CORNER OF THE PORTAGE ROAD, E VINE STREET INTERSECTION.

BM 3 EL = 768.31  
 SPIKE IN THE SOUTH FACE OF UTILITY POLE ON THE SOUTH SIDE OF E VINE ST 228'± EAST OF PORTAGE ROAD.

ISSUED FOR \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT TITLE  
 BOYS & GIRLS CLUBS NEW FACILITY

OWNER  
 BOYS & GIRLS CLUB OF GREATER KALAMAZOO

SHEET TITLE  
 SITE LAYOUT PLAN

Kalamazoo, Michigan

DATE  
 FEBRUARY 16, 2024

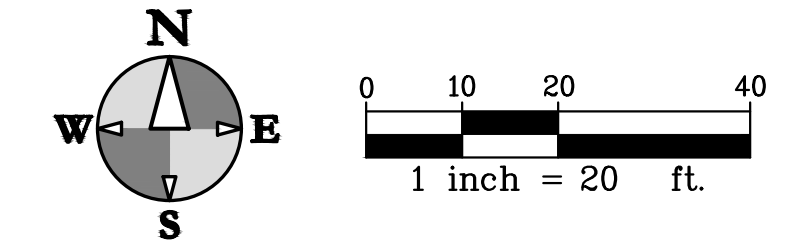
SHEET NUMBER  
 C 100  
 22-126





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FIELD WORK PERFORMED BY:  
HURLEY & STEWART, LLC

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2800 s. 11th street  
kalamazoo, michigan 49009  
269.552.4960 fax 269.552.4961  
www.hurleystewart.com

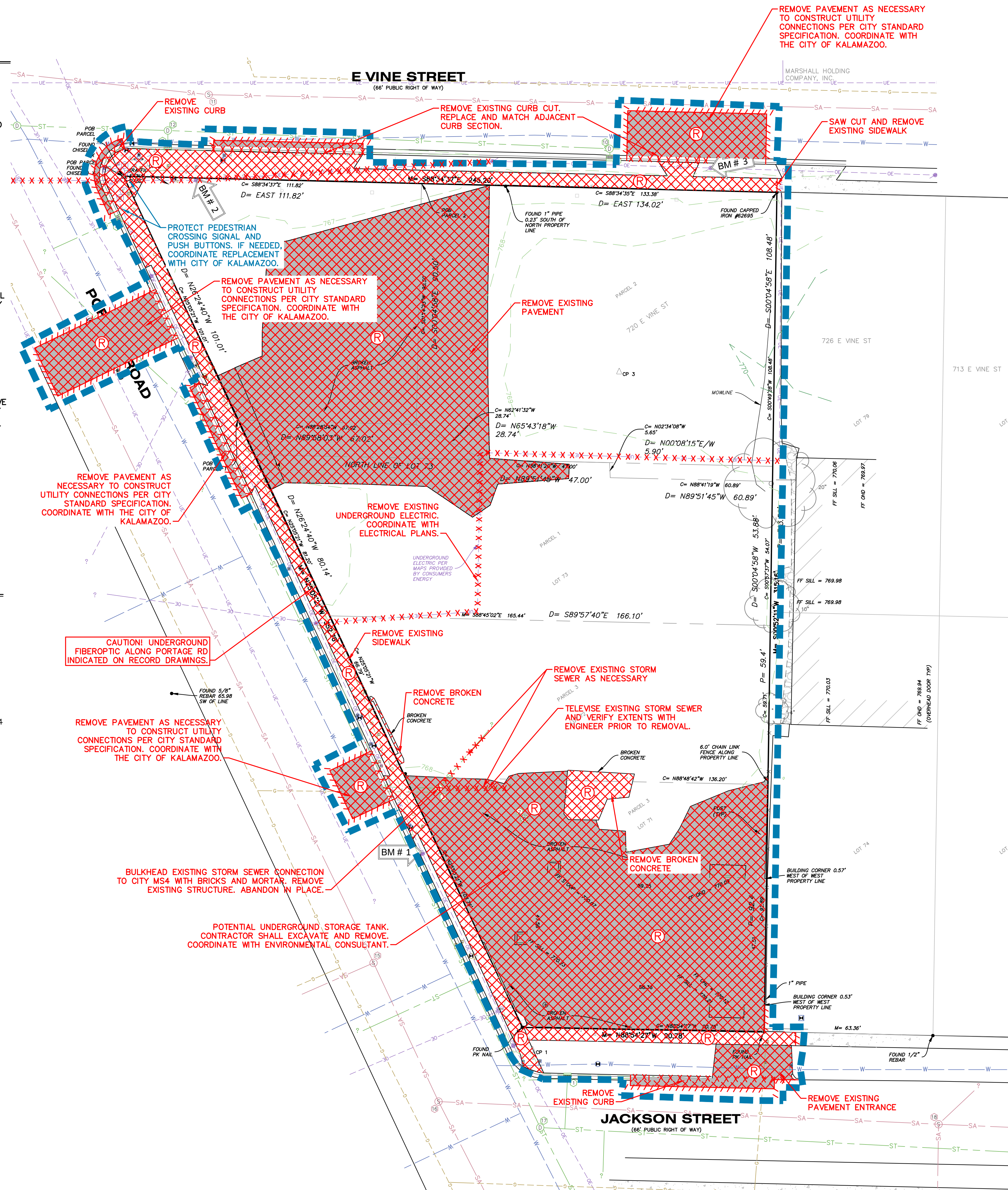


**REMOVAL NOTES**

- REVIEW ALL THE REMOVALS AND PROTECTION WITH OWNER PRIOR TO COMMENCING CONSTRUCTION. INSTALL TEMPORARY SNOW FENCE AROUND ALL TREES REQUIRING PROTECTION. SNOW FENCE SHALL BE PLACED AT EDGE OF DRIP LINE.
- SAWCUT ALL CURB, SIDEWALK, AND PAVEMENTS PRIOR TO REMOVAL. ADDITIONAL SAWCUT MAY BE NECESSARY PRIOR TO REPLACEMENT TO ENSURE CLEAN EDGE.
- ALL REMOVALS SHALL BE TAKEN OFF-SITE AND DISPOSED OF. NO STOCKPILE OR BURNING OF DEBRIS IS ALLOWED.
- COMPLY WITH ALL ASPECTS OF THE SOIL EROSION CONTROL PERMIT AS ISSUED BY KALAMAZOO COUNTY DRAIN COMMISSIONER. ALL TEMPORARY CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION.
- ALL REMOVALS SHALL BE TO THE LIMITS INDICATED ABOVE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. UNAUTHORIZED REMOVALS AND SUBSEQUENT REPLACEMENT SHALL BE AT THE CONTRACTOR'S EXPENSE.
- REMOVE, STORE, AND RESET ANY EXISTING SIGNS AS DIRECTED BY THE ENGINEER/OWNER.
- REMOVE ALL TREES TO THE CLEARING LIMITS AS SHOWN. REMOVE ALL EXISTING TREES, STUMPS AND BRUSH FROM THE SITE AS NECESSARY TO CONSTRUCT THE IMPROVEMENTS.
- IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
- CONTRACTOR SHALL NOTE THE RECENTLY COMPLETED PHASE 1 ESA, PHASE II ESA, AND BEA DOCUMENTS AND FOLLOW THE RECOMMENDATIONS OF THE DUE CARE PLAN (WHEN AVAILABLE) PREPARED BY FISBECK (FORMERLY ENVIROLOGIC). COPIES OF THESE DOCUMENTS ARE AVAILABLE FOR REVIEW.
- HANDLING, TESTING, AND DISPOSING OF ONSITE MATERIAL SHALL BE AS SPECIFIED IN THE DUE CARE PLAN (WHEN AVAILABLE).

**STRUCTURE DATA**

- |  |   |
|--|---|
| ① STM CB<br>RIM = 768.86<br>TOP OF PIPE = 764.36<br>VERTICAL 12" PIPE DROP INTO<br>E/W PIPE  | ⑪ SAN MH UNOPENED<br>RIM = 766.31   |
| ② STM CB<br>RIM = 768.32<br>COULD NOT OPEN.<br>NO PIPES VISIBLE.<br>BOTTOM = 765.60  | ⑫ STM MH UNOPENED<br>RIM = 765.84   |
| ③ 4.0' BRICK STM MH<br>RIM = 768.13<br>INV. NE 6" ACP = 765.83±<br>INV. E 10" CLAY = 765.38<br>INV. W 10" CLAY = 765.38<br>SUMP = 762.78 | ⑬ STM MH UNOPENED<br>RIM = 766.14   |
| ④ 2.0' BLOCK STM CB<br>RIM = 766.20<br>INV. NW 12" IRON = 762.70<br>SUMP = 762.70  | ⑭ 4.0' BRICK STM MH<br>RIM = 765.84<br>INV. S 18" CLAY = 760.74<br>INV. NW 18" CLAY = 760.24<br>SUMP = 760.24                                     |
| ⑤ TRAFFIC SIGNAL MH<br>RIM = 766.57  | ⑮ 4.0' BRICK SAN MH<br>RIM = 768.82<br>INV. N 12" IRON = 759.45<br>INV. S 12" IRON = 759.55<br>INV. W 8" CLAY = 759.72                            |
| ⑥ ELECTRIC MH<br>RIM = 766.42  | ⑯ 4.0' BRICK SAN MH<br>RIM = 769.20<br>INV. N 12" IRON = 759.65<br>INV. S 12" IRON = 759.75<br>INV. E 10" CLAY = 760.30                           |
| ⑦ 2.0' BLOCK STM CB<br>RIM = 765.58<br>INV. N 12" RCP = 762.03<br>WATER = 762.03<br>SUMP = 761.88  | ⑰ 4.0' BRICK STM MH<br>RIM = 769.28<br>INV. NW 18" IRON = 761.98<br>INV. SE 18" IRON = 762.08<br>INV. E 18" IRON = 761.98                         |
| ⑧ STM CB<br>RIM = 766.27<br>TOP OF PIPE = 763.02<br>12" VERTICAL PIPE  | ⑱ 4.0' BRICK SAN MH<br>RIM = 769.67<br>INV. E 10" CLAY = 762.37<br>INV. W 10" CLAY = 762.47<br>INV. NE 6" IRON = 764.15<br>INV. S 6" PVC = 761.39 |
| ⑨ 4.0' CONCRETE SAN MH<br>RIM = 766.76<br>INV. E 12" PVC = 760.11<br>INV. W 12" PVC = 760.01   |   |
| ⑩ 4.0' CONCRETE MH<br>RIM = 766.38<br>INV. S 12" IRON = 762.33<br>E/W ENCLOSED PIPE THROUGH<br>STRUCTURE<br>SEDIMENT = 761.08            |   |



REFER TO DRIESENGA GEOTECH REPORT, PROJECT NO. 2350022.3A, DATED 2/10/23, FOR RECOMMENDATIONS RELATED TO SITE PREPARATION, FOUNDATIONS, FLOORS, PAVEMENTS, GROUNDWATER CONTROL, AND TEMPORARY EXCAVATION STABILITY.

**REMOVALS LEGEND**

- XXXXXX CURB REMOVAL
- XXXXXX SAWCUT
- XXXXXX PAVEMENT/SIDEWALK REMOVAL
- XXXXXXXXX UTILITY LINE REMOVAL
- (R) TREE REMOVAL
- (P) REMOVE
- (S) SALVAGE
- LIMITS OF CONSTRUCTION

**BENCHMARKS**

ELEVATIONS OF THIS SURVEY ARE BASED ON NAVD 88 AS DERIVED FROM GPS

BM 1 EL = 769.88  
SPIKE IN THE NORTH FACE OF UTILITY POLE ON THE EAST SIDE OF PORTAGE ROAD 134'± SOUTH OF E VINE ST.

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ISSUED FOR DATE

PROJECT TITLE  
BOYS & GIRLS CLUBS NEW FACILITY

OWNER  
BOYS & GIRLS CLUB OF GREATER KALAMAZOO

SHEET TITLE  
EXISTING CONDITIONS AND DEMO PLAN

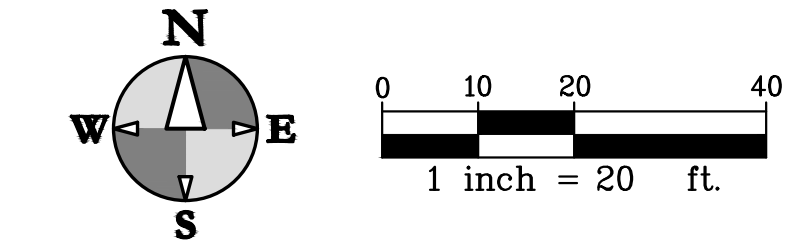
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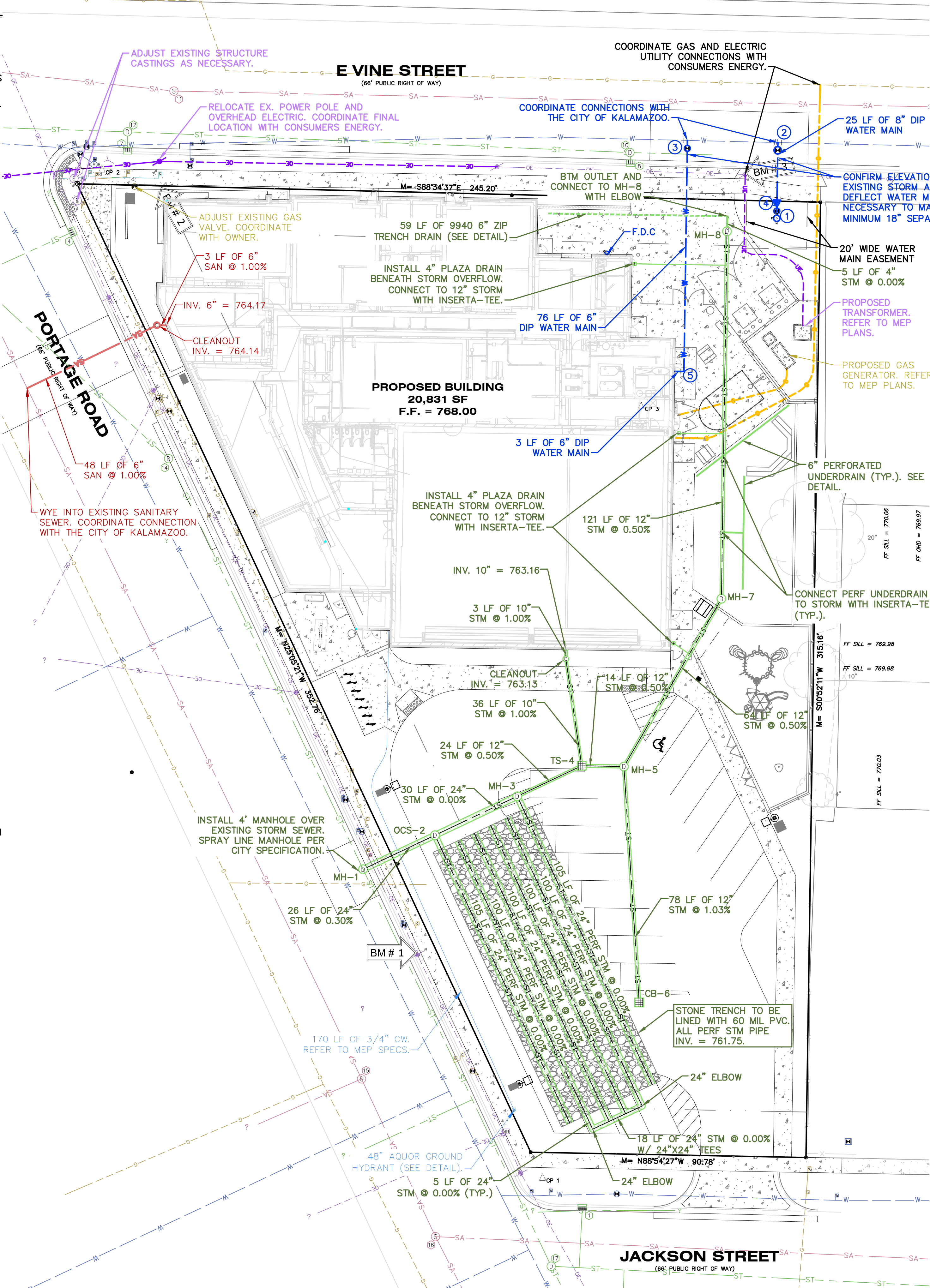
**UTILITY NOTES**

1. FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
2. ALL MATERIAL AND CONSTRUCTION WILL BE IN ACCORDANCE WITH THE MOST RECENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE OF MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT). MDOT SPECIFICATIONS ARE SUBJECT TO THE CURRENT ADDENDA. IN ADDITION, ALL WORK WILL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL AND STATE STANDARDS AND REGULATIONS.
3. PLACE SANITARY CLEANOUT EVERY 100' AND/OR AT BENDS ON ALL 6" SANITARY SEWER LEADS.
4. ALL BEDDING MATERIAL TYPES ARE TO BE PER MDOT SPEC. 603.06.
5. DEWATERING MAY BE REQUIRED TO INSTALL OR REMOVE SOME UTILITIES. REFER TO SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.
6. ALL STRUCTURE CASTINGS TO BE EAST JORDAN IRON WORKS OR APPROVED EQUAL. SEE STRUCTURE TABLE FOR SPECIFIC CASTING AT EACH STRUCTURE.
7. STORM SEWERS SHALL BE CONCRETE C76-III, SOLID WALL ADS N-12 RIGID PIPE MEETING ASHTO M-294, TYPE S, OR APPROVED EQUAL. INSTALLED PER THE REQUIREMENTS OF MDOT AND THE CITY OF KALAMAZOO. MANDREL TESTING SHALL BE PERFORMED PRIOR TO PAVING. USE PERFORATED PIPE WHERE INDICATED.
8. PROVIDE 18" WATER MAIN SEPARATION WHEN CROSSING OTHER UTILITIES. DEFLECT UNDER OTHER UTILITIES W/O USING FITTINGS WHENEVER POSSIBLE. SEE WATER MAIN PROFILE.
9. THE CONTRACTOR SHALL INSTALL PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.
10. CONTRACTOR SHALL REFER TO THE ENVIRONMENTAL REPORTS FOR GROUNDWATER AND SOILS INFORMATION. ANY UTILITIES REQUIRING DEWATERING SHALL BE INSTALLED TO THE CITY OF KALAMAZOO STANDARDS AND INCLUDED IN THE INSTALLATION COSTS. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING NECESSARY TO CONSTRUCT UTILITIES IN THE DRY.
11. CONTRACTOR TO COORDINATE PRIVATE UTILITY CONNECTIONS WITH UTILITY COMPANIES.
12. SITE CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL UTILITIES TO 5' FROM BUILDING WALL.
13. COORDINATE ALL UTILITY LOCATIONS AND ELEVATIONS WITH MECHANICAL DRAWINGS AND BUILDING CONTRACTOR PRIOR TO INSTALLATION.
14. OWNER IS RESPONSIBLE FOR NEW SANITARY CONNECTION. INSPECTION IS REQUIRED DURING THE NEW SANITARY SEWER MATERIAL INSTALLATION SHALL COMPLY WITH THE CITY OF KALAMAZOO REQUIREMENTS. COORDINATE WORK AND INSPECTIONS WITH THE CITY OF KALAMAZOO.
15. WATER SUPPLY MATERIALS AND INSTALLATION SHALL COMPLY WITH THE CITY OF KALAMAZOO STANDARD SPECIFICATIONS, 2021 EDITION. COORDINATE CONNECTIONS WITH THE CITY OF KALAMAZOO.
16. SEE SITE ELECTRICAL PLAN FOR LOCATION OF ALL ELECTRICAL SLEEVES AND CONDUIT.
17. UNDERGROUND ELECTRICAL SHALL BE PROVIDED TO THE SITE LIGHT POLES.
18. REMOVE SEDIMENT FROM ALL STRUCTURES ONCE PAVING IS COMPLETE AND REMOVE SILT SACKS.
19. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
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21. HANDLING, TESTING, AND DISPOSING OF ONSITE MATERIAL SHALL BE AS SPECIFIED IN THE DUE CARE PLAN (WHEN AVAILABLE).

**STORM SEWER STRUCTURE SCHEDULE**

STR. #	RIM EL.	DIAM.	CASTING	PIPES IN:	PIPES OUT
CB-6	766.91	2'	5105 M1	12" N: 763.41	
MH-1	767.71	4'	1040 A	18" SE: 761.37 24" NE: 761.67	18" NW: 761.37
MH-3	766.77	4'	1040 A	12" NE: 762.42	24" SW: 761.75 24" SE: 761.75
MH-5	766.58	4'	1040 A	12" NE: 762.61 12" S: 762.61	12" W: 762.61
MH-7	767.76	4'	1040 A	12" N: 762.93	12" SW: 762.93
MH-8	767.04	4'	1040 A	4" N: 764.04	12" S: 763.54
OCS-2	767.43	4'	1040 A	24" NE: 761.75	24" SW: 761.75 24" SE: 761.75
TS-4	766.25	4'	5105 M1	12" E: 762.54 10" N: 762.77	12" SW: 762.54

- \*\* EXISTING PIPE
- \*\* BARRACUDA MAX S4 HYDRODYNAMIC SEPARATOR (SEE DETAIL)
- \*\*\* INCLUDES STAND PIPE WITH ORIFICE FOR SLOW RELEASE TO CITY STORM SEWER (SEE DETAIL)



**STRUCTURE DATA**

- |   |   |
|---|---|
| 1. STM CB<br>RIM = 768.86<br>TOP OF PIPE = 764.36<br>VERTICAL 12" PIPE DROP INTO E/W PIPE   | 6. SAN MH UNOPENED<br>RIM = 766.31  |
| 2. STM CB<br>RIM = 768.32<br>COULD NOT OPEN.<br>NO PIPES VISIBLE.<br>BOTTOM = 765.60  | 7. STM MH UNOPENED<br>RIM = 765.84  |
| 3. 4.0' BRICK STM MH<br>RIM = 768.13<br>INV. NE 6" ACP = 765.83±<br>INV. E 10" CLAY = 765.38<br>INV. W 10" CLAY = 765.38<br>SUMP = 762.78 | 8. STM MH UNOPENED<br>RIM = 766.14  |
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**BENCHMARKS**

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BM 3 EL = 768.31  
SPIKE IN THE SOUTH FACE OF UTILITY POLE ON THE SOUTH SIDE OF E VINE ST 228'± EAST OF PORTAGE ROAD.

**WATER MAIN FITTING SCHEDULE**

FITTING NUMBER	DESCRIPTION	TOTAL THIS SHEET
1	FIRE HYDRANT ASSEMBLY W/ 6" VALVE	1
2	8" X 8" TAPPING SLEEVE & VALVE	1
3	8" X 6" TAPPING SLEEVE & VALVE	1
4	8" X 6" REDUCER	1
5	6" 90° BEND	1

**LEGEND**

- DEFLECT WATER MAIN 18" UNDER PIPE CONFLICT (SEE DETAIL)

NOTE:  
CONTRACTOR RESPONSIBLE FOR VERIFYING FITTINGS. AMOUNTS DO NOT TAKE INTO CONSIDERATION VERTICAL DEFLECTIONS.

ISSUED FOR \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT TITLE  
BOYS & GIRLS CLUBS NEW FACILITY

OWNER  
BOYS & GIRLS CLUB OF GREATER KALAMAZOO

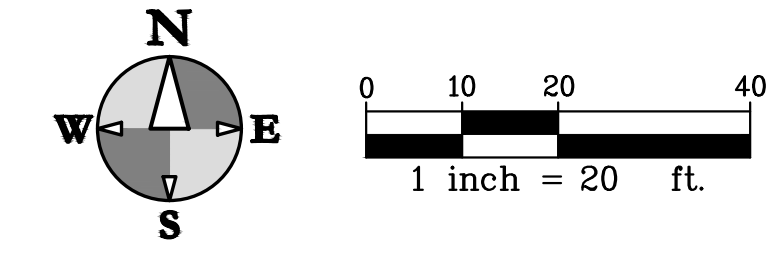
SHEET NUMBER  
SITE UTILITY PLAN

Kalamazoo, Michigan

DATE  
FEBRUARY 16, 2024

SHEET NUMBER  
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22-126



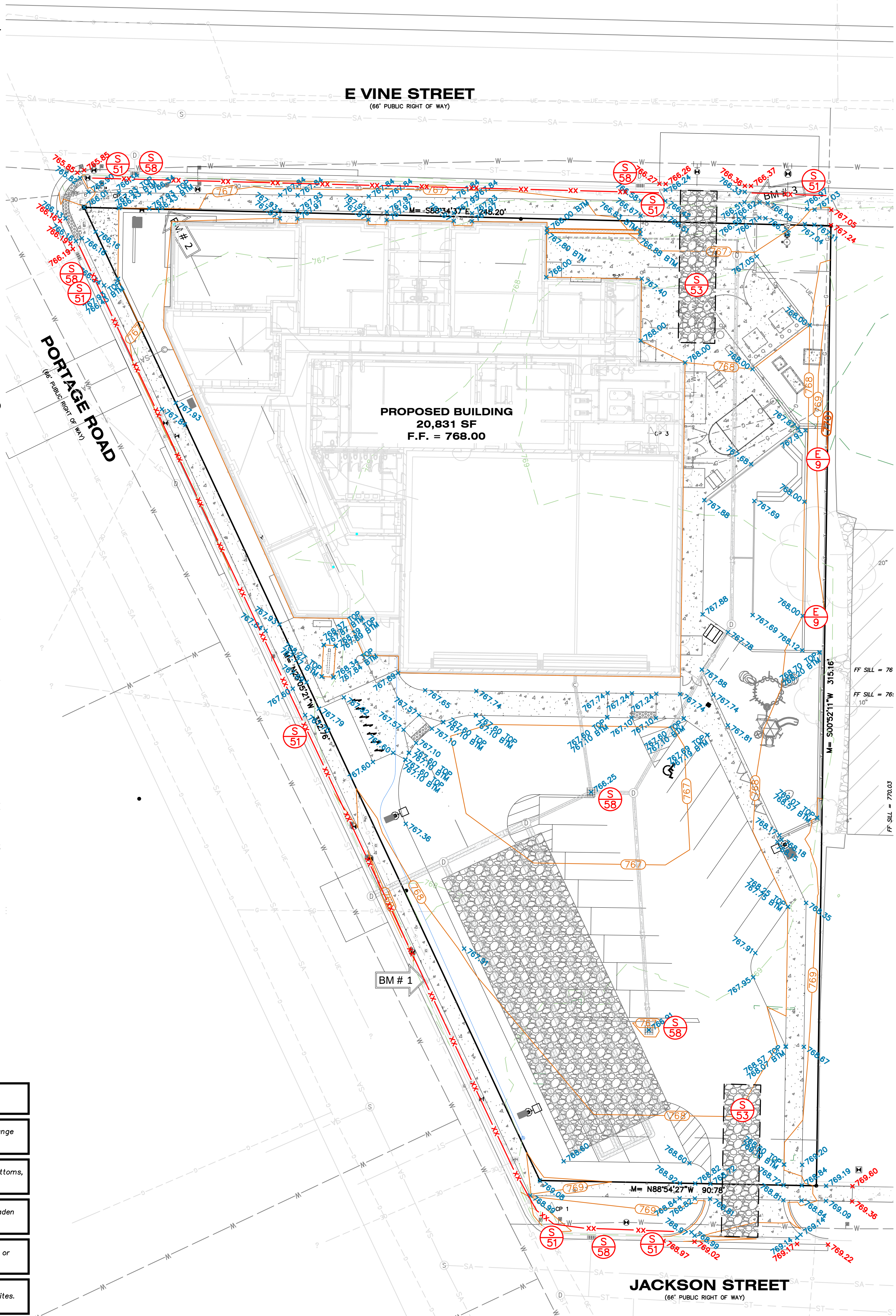


**GRADING & SESC NOTES**

- ALL WORK WILL COMPLY WITH THE PROVISIONS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ACT (PA 451, PART 91 OF 1994 AS AMENDED) ADMINISTERED BY THE CITY OF KALAMAZOO.
- FOR INSTALLATION SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL (SESC) MEASURES, REFER TO THE STATE OF MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT, AND BUDGET (DTMB) SESC MANUAL.
- AVOID UNNECESSARY DISTURBING OR REMOVING EXISTING VEGETATED TOPSOIL OR EARTH COVER. THESE AREAS ACT AS SEDIMENT FILTERS.
- ALL TEMPORARY SOIL EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL REMOVAL IS REQUIRED FOR FINAL CLEANUP AND APPROVAL.
- ALL SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION.
- ALL SOIL PILES SHALL BE SURROUNDED BY SILT FENCE IF ALLOWED TO REMAIN IN PLACE FOR MORE THAN 7 DAYS. TOPSOIL PILES SHALL BE SEEDED IF ALLOWED TO REMAIN IN PLACE FOR MORE THAN 20 DAYS. SPOIL PILES SHALL NOT BE PLACED WITHIN 50' FROM ANY TEMPORARY OR PERMANENT WATERCOURSE.
- THE CONTRACTOR SHALL COMPLY WITH THE WEEKLY RECOMMENDATIONS OF THE CERTIFIED STORM WATER OPERATOR.
- PROVIDE SILT SACKS IN EACH CATCH BASIN UNTIL SITE IS STABILIZED.
- SEE LANDSCAPE PLAN FOR FINAL SLOPE TREATMENTS.
- PLACE TOPSOIL AND SEED ACCORDING TO THE LANDSCAPE PLANS AS SOON AS AREAS ARE BROUGHT TO GRADE.
- WATER SITE WHEN NECESSARY TO PREVENT AIR BORNE SEDIMENT TRANSFER.
- STRAW MULCH BLANKETS SHALL BE USED ON 3:1 SLOPES OR GREATER. ALL SLOPES ON SITE SHALL BE 4:1 OR LESS, UNLESS OTHERWISE DIRECTED BY ENGINEER.
- MATCH EXISTING GRADES AROUND PERIMETER WITH SLOPES AS SHOWN. MATCH AT 1 ON 6 IF NOT LABELED.
- THE CONTRACTOR SHALL INSTALL PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.
- ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT GRADES AT EDGE OF METAL (EOM) UNLESS OTHERWISE NOTED.
- ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK.
- REMOVE AND REPLACE WITH CONTROLLED FILL ANY AREAS THAT HAVE BEEN SOFTENED BY RAINS, FREEZING, CONSTRUCTION EQUIPMENT, ETC.
- ALL REQUIRED FILL FOR THIS PROJECT SHALL BE SELECTED EXCAVATED MATERIAL FROM THE SITE APPROVED BY THE ENGINEER OR CLASS II GRANULAR MATERIAL FROM BORROW AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL GRANULAR FILL UNDER THE INFLUENCE OF THE PAVEMENT AND PROCESSED PAVEMENT GRAVEL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- ALL COMPACTION SHALL BE ACCOMPLISHED BY PLACING THE FILL IN 12" LOOSE LIFTS AND MECHANICALLY COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. FIELD DENSITY TESTS SHOULD BE PERFORMED ON EACH LIFT AS NECESSARY TO ENSURE THAT ADEQUATE MOISTURE CONDITIONS AND COMPACTION ARE BEING ACHIEVED.
- SITE CONTRACTOR SHALL REMOVE AND STOCKPILE ALL TOPSOIL AND BLACK ORGANIC SOILS ON-SITE TO BE USED IN THE REGRADING OF LANDSCAPE AREAS. THIS MATERIAL IS NOT TO BE USED FOR FILL OR PAVEMENT SUBBASE. REMOVAL OF ANY EXCESS SOIL OFF-SITE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR RESPONSIBLE FOR VERIFYING EARTHWORK CALCULATIONS PRIOR TO COMMENCING WORK. NO EXTRA EARTHWORK WILL BE PAID FOR ONCE EARTHWORK HAS BEGUN. ANY DISCREPANCIES WITH THE EARTHWORK CALCULATIONS SHALL BE REVIEWED WITH THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID TRACKING SOIL ONTO ADJACENT ROADWAYS. SCRAPE ROAD AT THE END OF EACH WORKDAY AND SWEEP AT LEAST ONCE A WEEK.
- ANY DISTURBED AREA THAT WILL BE LEFT UNWORKED 5 DAYS OR LONGER MUST BE SEEDED AND MULCHED OR SODDED TO ESTABLISH VEGETATION FOR TEMPORARY STABILIZATION.
- ROAD RIGHTS-OF-WAY MUST BE STABILIZED WITH SEED AND MULCH WITHIN 5 DAYS OF COMPLETING UTILITY WORK IN THE RIGHT-OF-WAY.
- AREAS OF EARTH CHANGE THAT ARE DISTURBED BEYOND THE FALL SEEDING DEADLINE (NOV. 1) MUST BE TEMPORARILY STABILIZED WITH A MINIMUM OF STRAW MULCH SECURELY CRIMPED TO THE GROUND.
- IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- CONTRACTOR SHALL NOTE THE RECENTLY COMPLETED PHASE 1 ESA, PHASE II ESA, AND SEA DOCUMENTS AND FOLLOW THE RECOMMENDATIONS OF THE DUE CARE PLAN (WHEN AVAILABLE) PREPARED BY FISHBEEK (FORMERLY ENVROLOGIC). COPIES OF THESE DOCUMENTS ARE AVAILABLE FOR REVIEW.
- HANDLING, TESTING, AND DISPOSING OF ONSITE MATERIAL SHALL BE AS SPECIFIED IN THE DUE CARE PLAN (WHEN AVAILABLE).

**SOIL EROSION AND SEDIMENTATION CONTROL MEASURES**

KEY	BEST MANAGEMENT PRACTICES	SYMBOL	WHERE USED
E8	PERMANENT SEEDING		Stabilization method utilized on sites where earth change has been completed (final grading attained).
E9	MULCH BLANKETS		On exposed slopes, newly seeded areas, new ditch bottoms, or areas subject to erosion.
S51	SILT FENCE		Use adjacent to critical areas, to prevent sediment laden sheet flow from entering these areas.
S53	STABILIZED CONSTRUCTION ACCESS		Used at every point where construction traffic enters or leaves a construction site.
S58	INLET PROTECTION FABRIC DROP		Use at stormwater inlets, especially at construction sites.



**GRADING PLAN LEGEND**

- PROPOSED CONTOUR 5-FT
- PROPOSED CONTOUR NORMAL
- EXISTING CONTOUR 5-FT
- EXISTING CONTOUR NORMAL
- PROPOSED SPOT GRADE
- PROPOSED SPOT GRADES: TOP AND BOTTOM OF CURB/WALL
- EXISTING SPOT GRADE
- PROPOSED SURFACE SLOPE
- PROPOSED SILT FENCE
- PROPOSED GRADED SWALE
- SOIL BORING
- BENCH MARK
- SOIL EROSION MEASURE
- SEDIMENT CONTROL MEASURE

**BENCHMARKS**

ELEVATIONS OF THIS SURVEY ARE BASED ON NAVD 88 AS DERIVED FROM GPS

BM 1 EL = 769.88  
 SPIKE IN THE NORTH FACE OF UTILITY POLE ON THE EAST SIDE OF PORTAGE ROAD 134'± SOUTH OF E VINE ST.

BM 2 EL = 767.98  
 SPIKE IN NORTHEAST FACE OF UTILITY POLE ON THE SOUTHEAST CORNER OF THE PORTAGE ROAD, E VINE STREET INTERSECTION.

BM 3 EL = 768.31  
 SPIKE IN THE SOUTH FACE OF UTILITY POLE ON THE SOUTH SIDE OF E VINE ST 228'± EAST OF PORTAGE ROAD.

ISSUED FOR \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT TITLE  
**BOYS & GIRLS CLUBS NEW FACILITY**

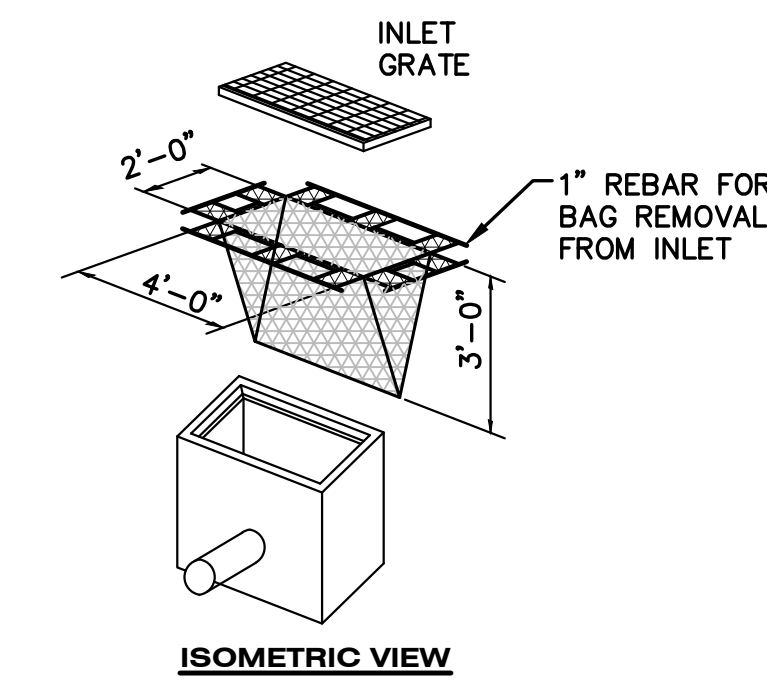
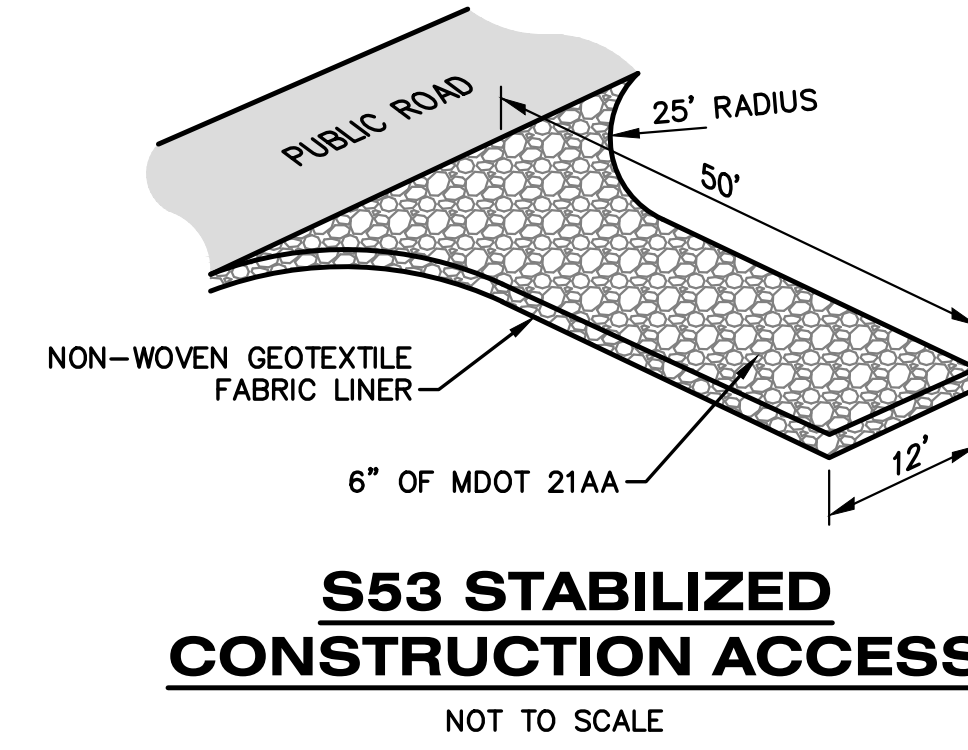
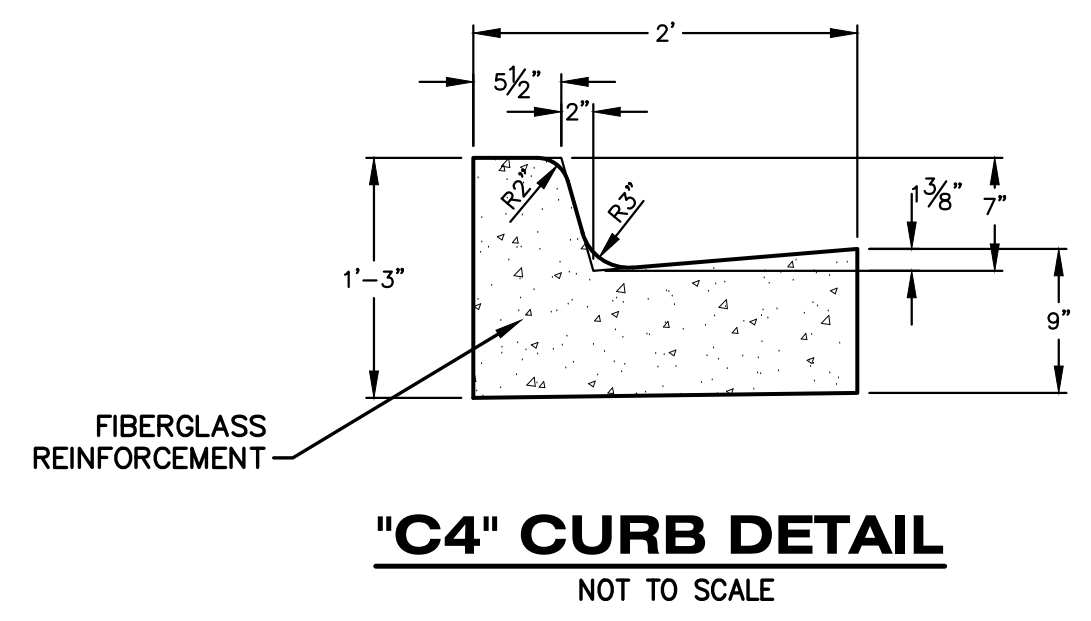
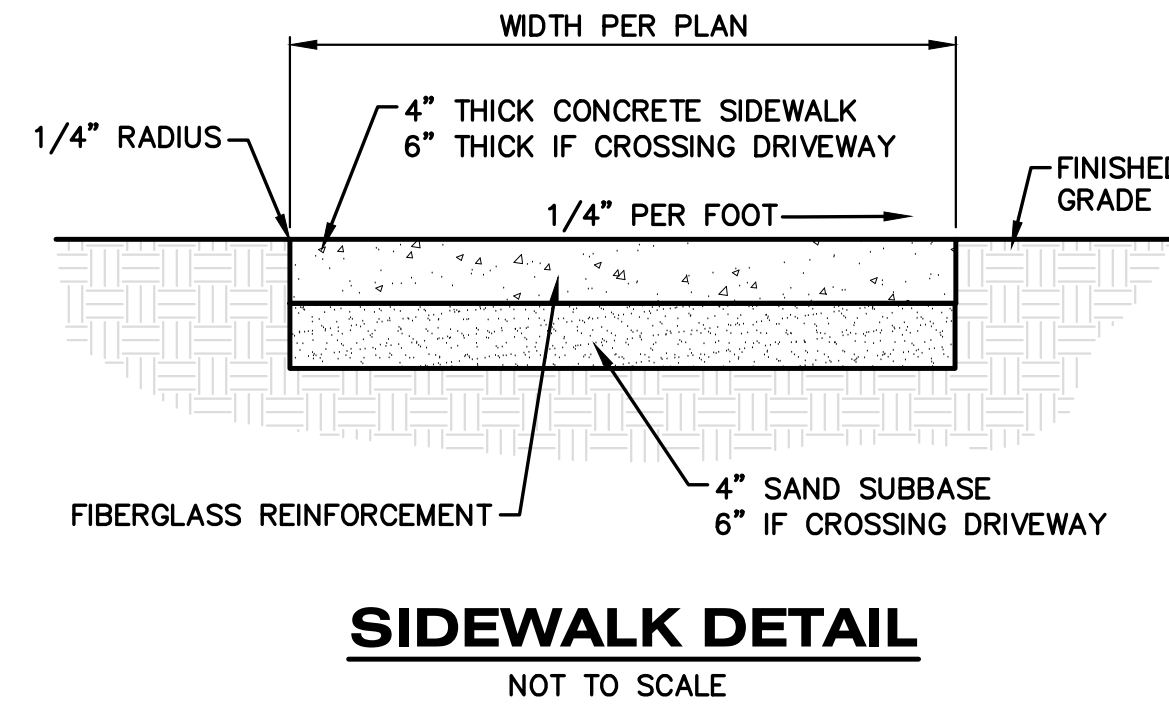
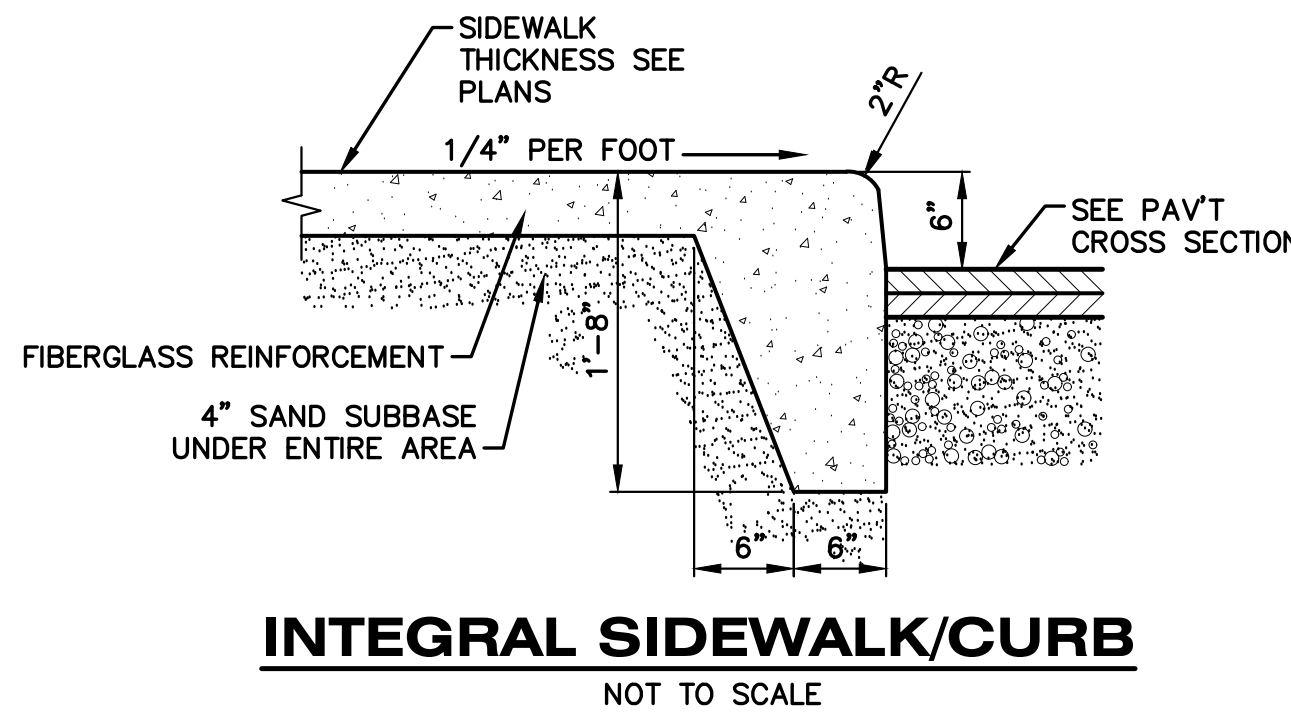
OWNER  
**BOYS & GIRLS CLUB OF GREATER KALAMAZOO**  
 Kalamazoo, Michigan

SHEET TITLE  
**SITE GRADING PLAN**

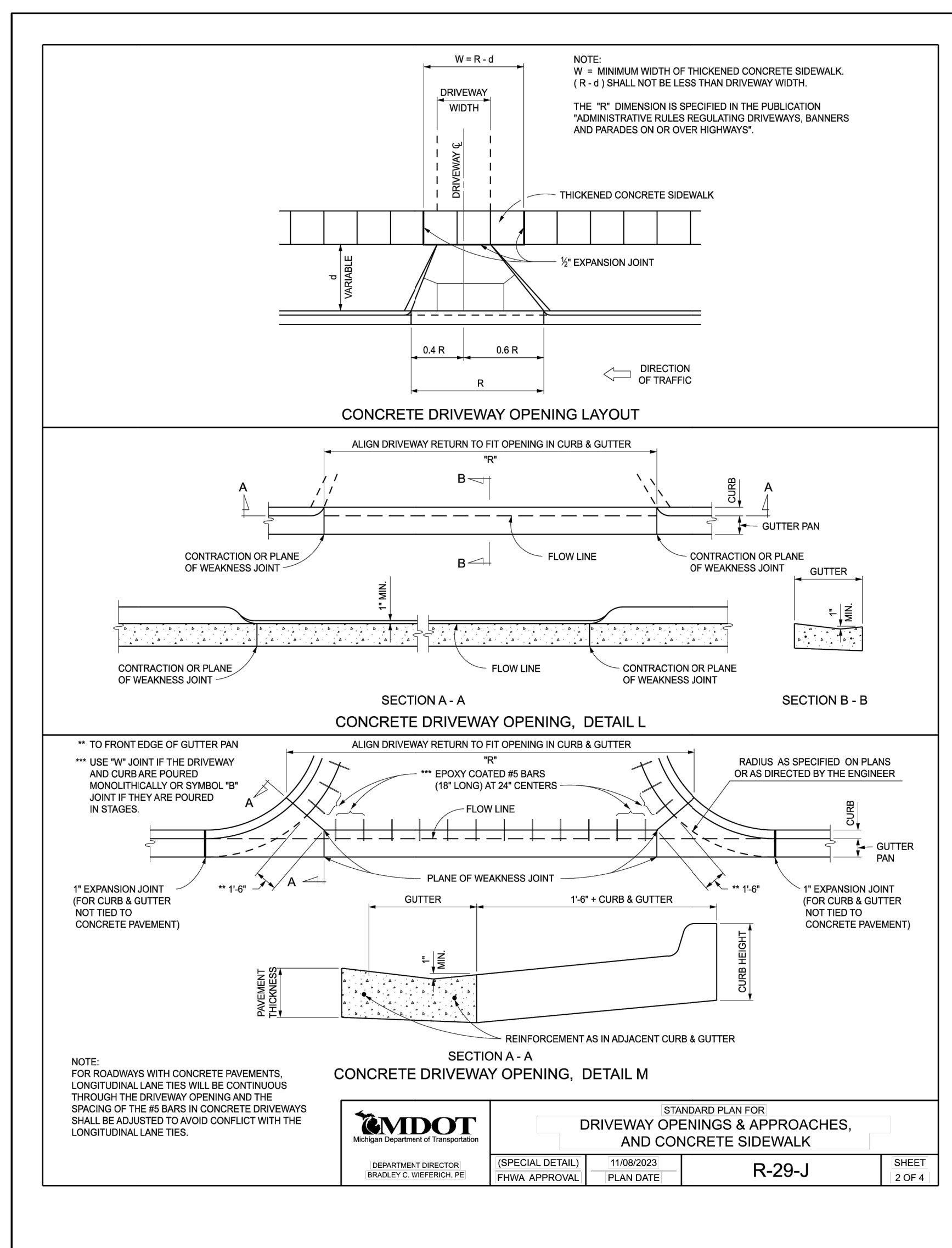
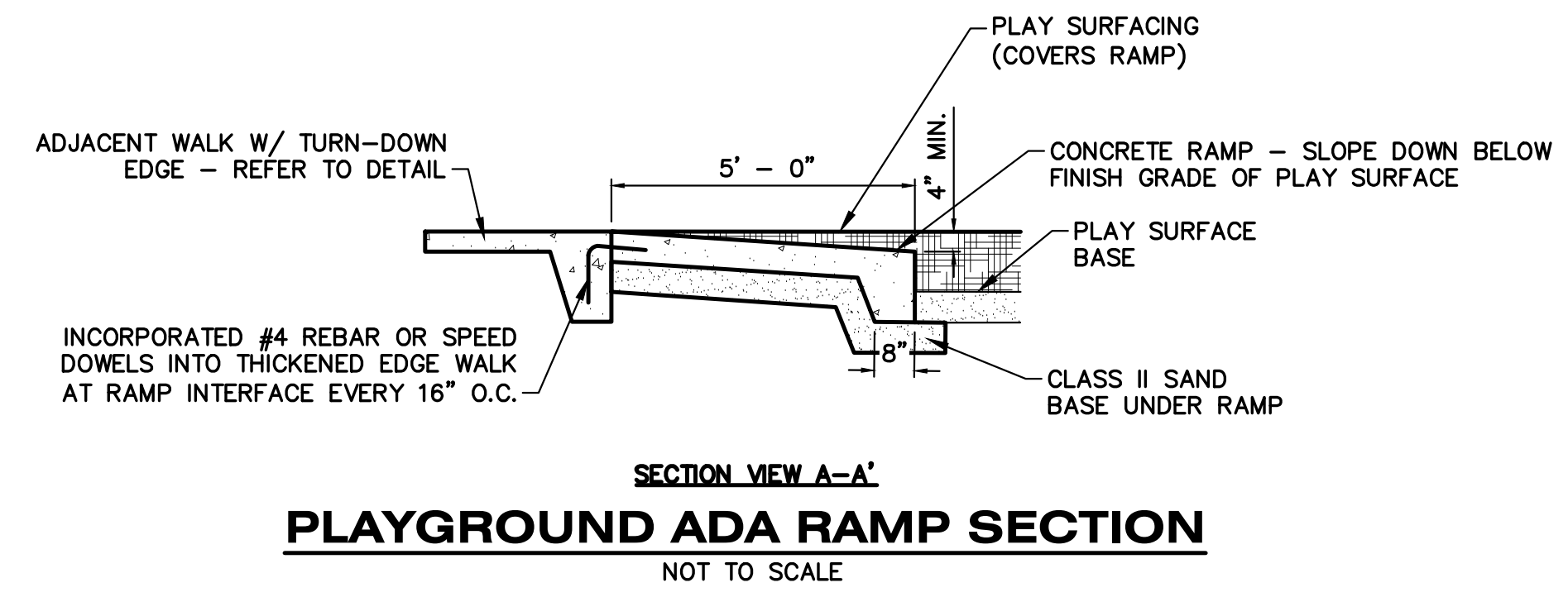
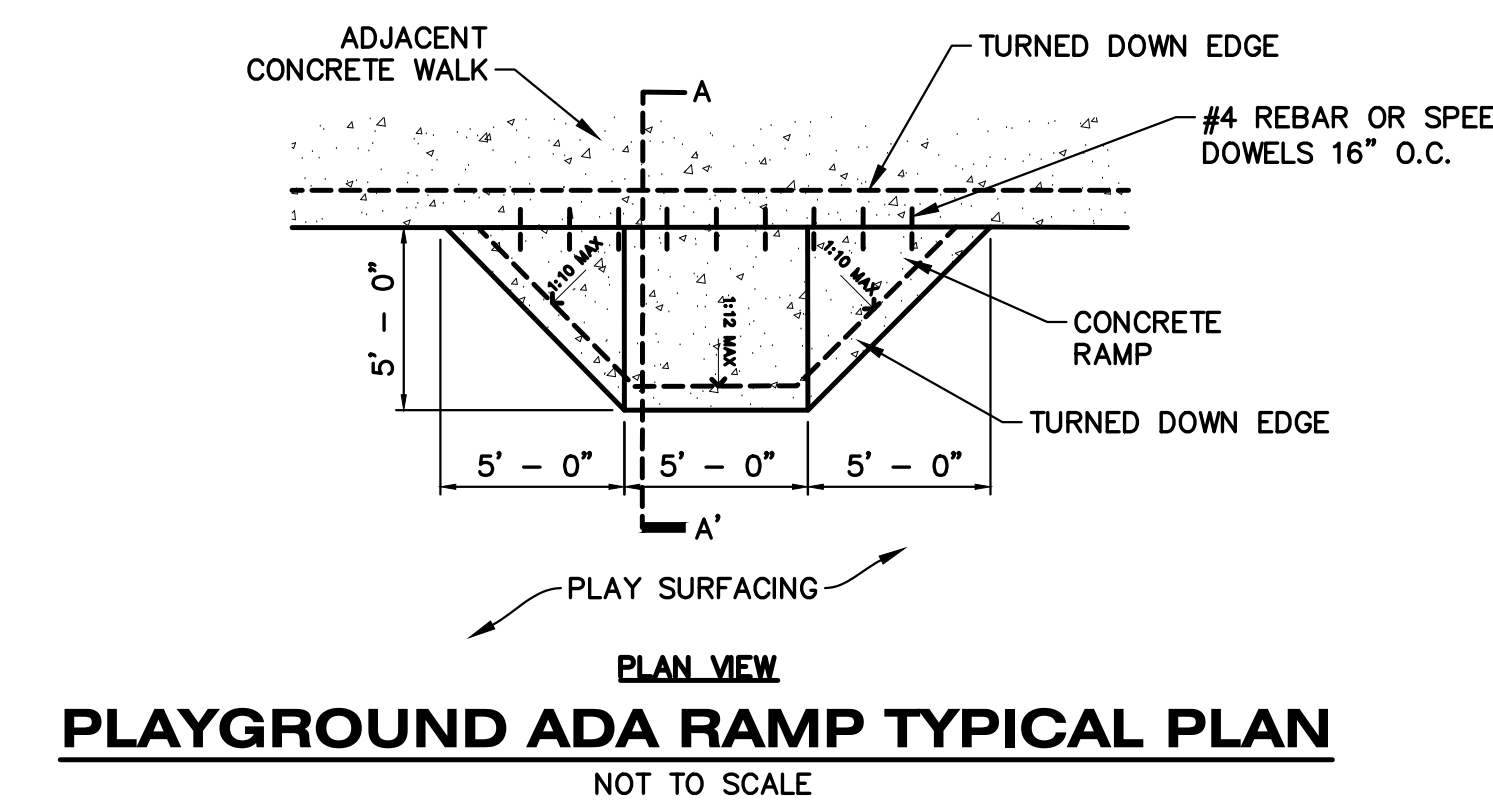
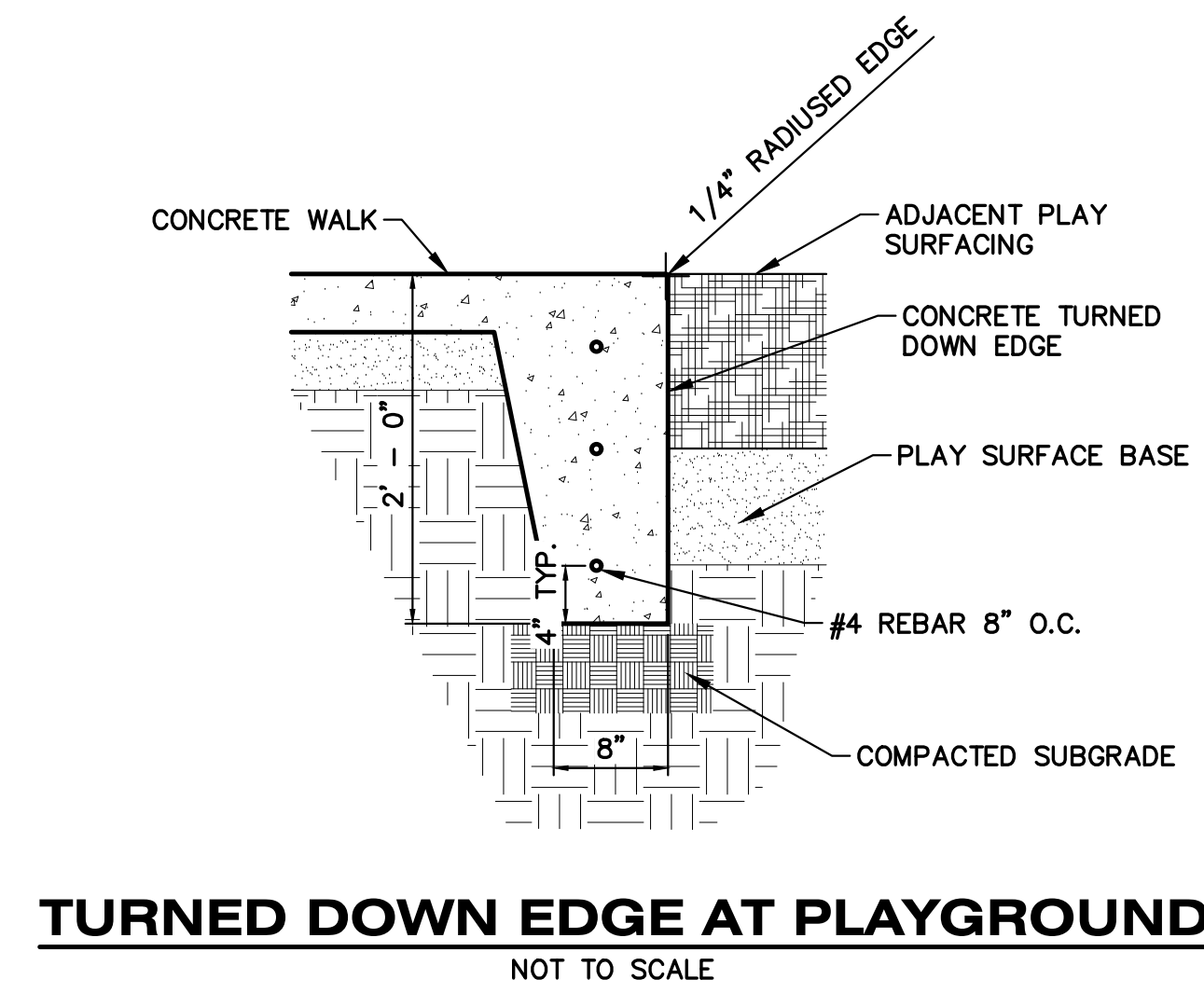
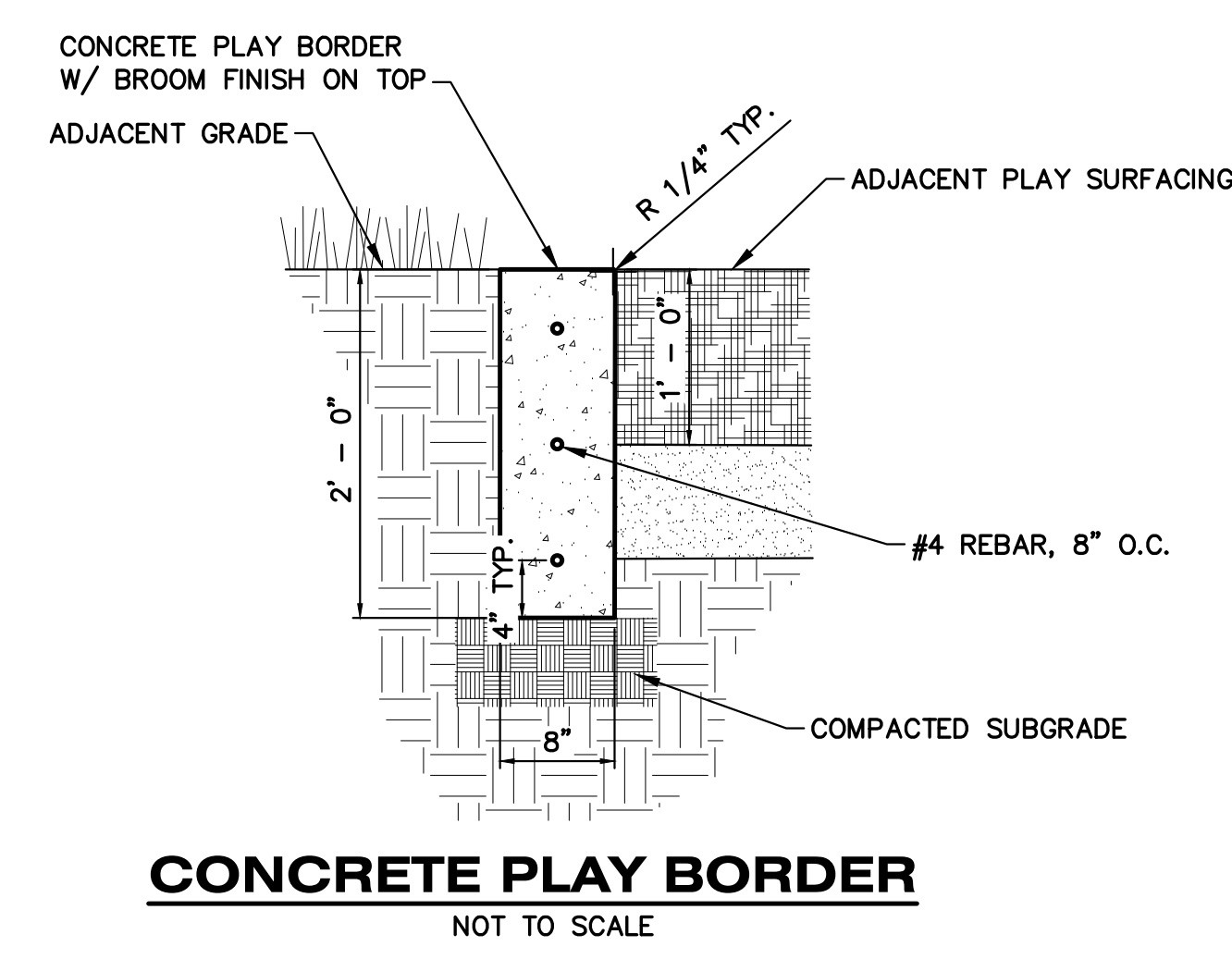
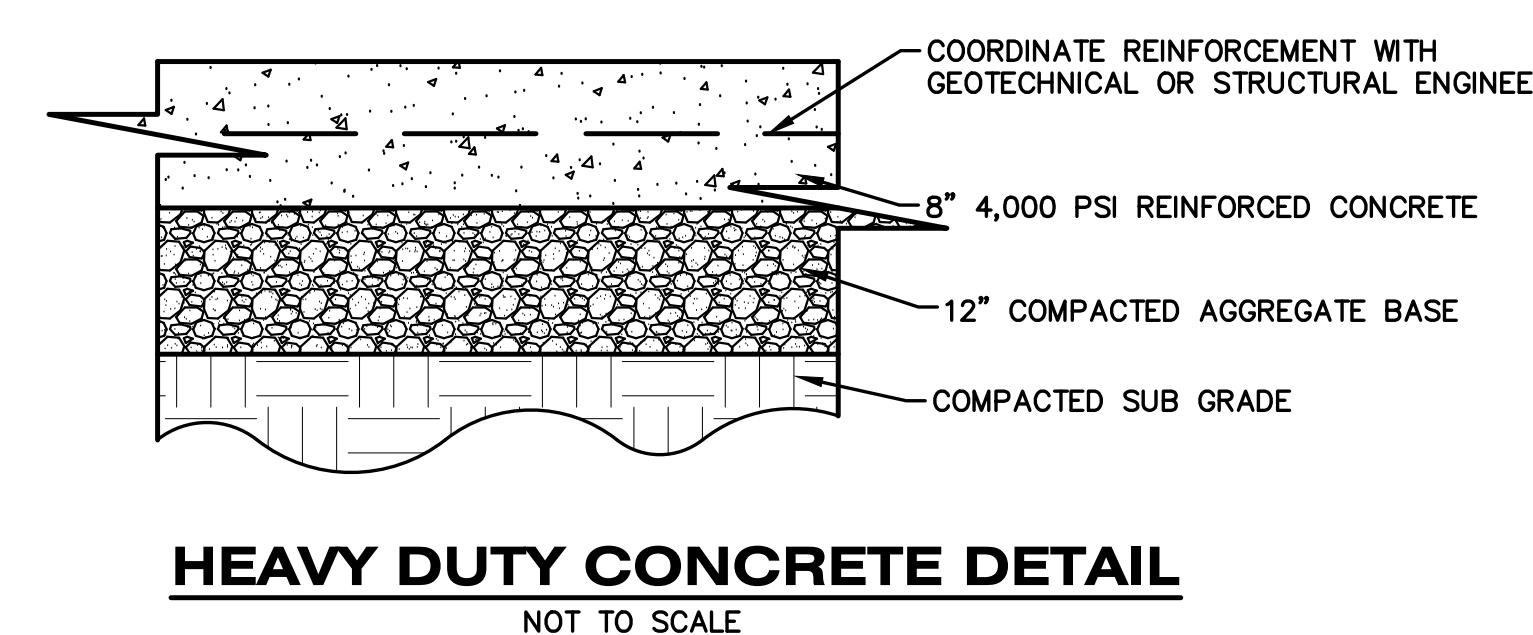
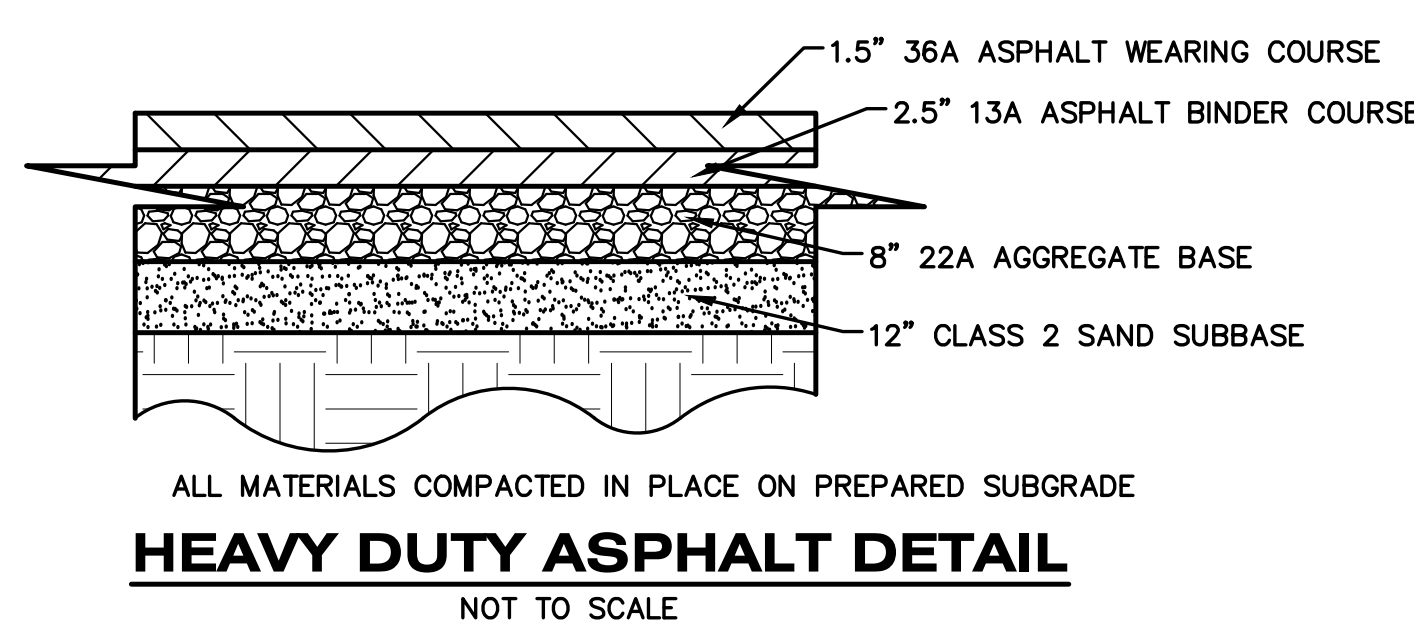
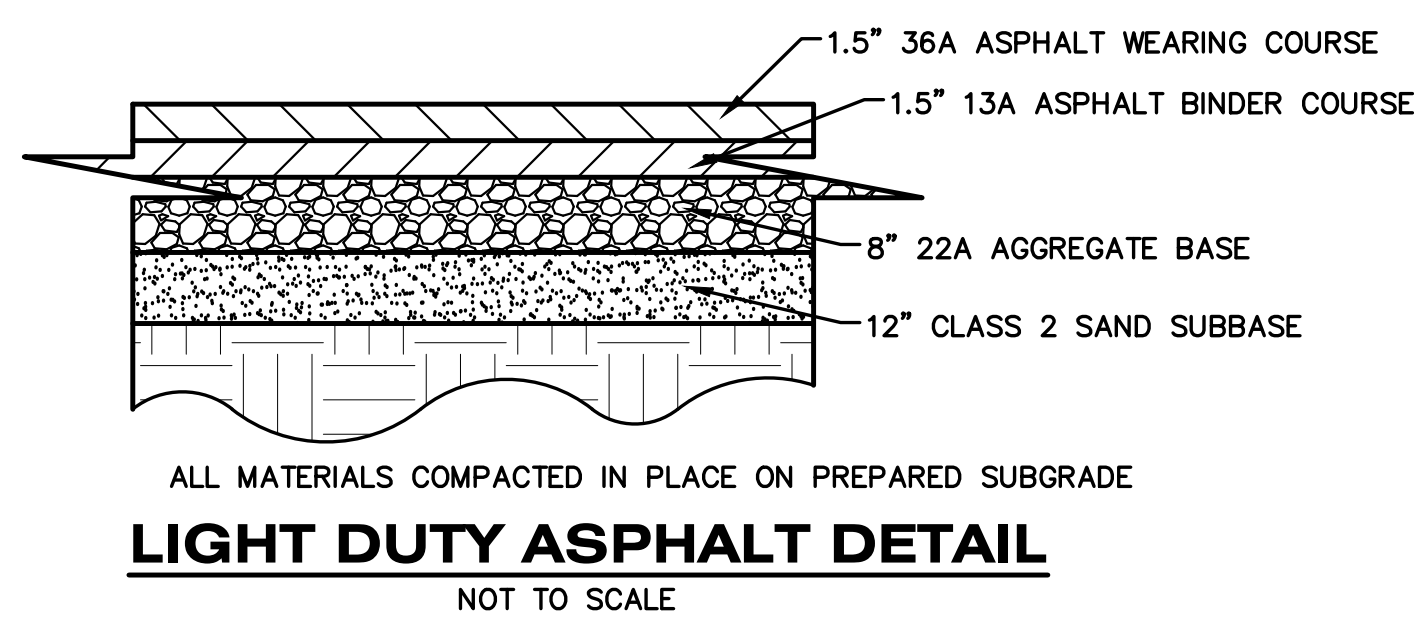
DATE  
**FEBRUARY 16, 2024**

SHEET NUMBER  
**C 102**  
 22-126





- PAVEMENT NOTES:**
1. THE SUBGRADE MATERIALS SHALL BE PROOF ROLLED AND/OR SCARIFIED AND COMPACTED PRIOR TO PLACEMENT OF BASE MATERIAL. WHERE EXISTING SUBGRADE MATERIALS ARE UNSUITABLE, THEY SHALL BE REMOVED AND REPLACED WITH COMPACTED SELECT MATERIAL IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
  2. ALL PAVEMENT AND AGGREGATE MATERIALS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT, DRIESENGA PROJECT NO. 2350022.3A ISSUED 02/10/2023



<b>MDOT</b> Michigan Department of Transportation	STANDARD PLAN FOR DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK
(SPECIAL DETAIL) PRINTED APPROVAL	1/10/2023 PLAN DATE
R-29-J	SHEET 2 OF 4

ISSUED FOR \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT TITLE  
BOYS & GIRLS CLUBS NEW FACILITY

OWNER  
BOYS & GIRLS CLUB OF GREATER KALAMAZOO

Kalamazoo, Michigan

SHEET TITLE  
SITE DETAILS

DATE  
FEBRUARY 16, 2024

SHEET NUMBER  
C 103

22-126







ISSUED FOR DATE

PROJECT TITLE  
BOYS & GIRLS CLUBS NEW FACILITY

OWNER  
BOYS & GIRLS CLUBS OF GREATER KALAMAZOO

SHEET NUMBER  
FIRST FLOOR CODE COMPLIANCE PLAN

Kalamazoo, Michigan

DATE  
FEBRUARY 16, 2024

SHEET NUMBER  
G 101  
22-126

**2015 MICHIGAN BUILDING CODE**

1. BUILDING AREA, OCCUPANCIES, AND BUILDING TYPES - **MBC CHAPTER 6**  
USE GROUP:  
B - BUSINESS (304.1)  
A-3 - ASSEMBLY

CONSTRUCTION TYPE: IIB, NONCOMBUSTIBLE, 0 HR STRUCTURE (TABLE 601)  
AUTOMATIC SPRINKLER SYSTEM THROUGHOUT ENTIRE BUILDING

(TABLE 601 VALUES FOR IIB) EXTERIOR LOAD BEARING - 0 HR EXTERIOR NONLOAD BEARING - 0 HR  
STRUCTURAL FRAME - 0 HR STAIR ENCLOSED - 1 HR SHAFTS - 1 HR

2. BUILDING AREAS, HEIGHT, FRONTAGE, AND INCREASE (506.3) - **MBC CHAPTER 5**

BLDG AREA NO.	GROUP	STORIES	AREA (ACTUAL)	PERIMETER	FERM AT OPEN YARDS	% OPEN	% INC
1-TYPE IIB	B/A-3	1	22,513 (A-3)	607'	462'	76	50

3. ALLOWABLE FLOOR AREA (506) - **MBC CHAPTER 5**

BLDG AREA NO.	STORIES	ALLOW. FLOOR AREA (TABLE 506.4)	TABULAR ALLOW. AREA (TABLE 506.5)	INC. AREA (TABLE 506.6)	ALLOW. AREA (TABLE 506.7)
1-TYPE IIB	2	75' > ACTUAL	A.3: 28,500 SF B: 69,000 SF	INC. AREA 11,500 SF	33,250 SF 22,513 SF OR

4. OCCUPANT LOAD - **MBC CHAPTER 10**  
1004.1.1 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

ACCESSORY STORAGE	ASSEMBLY WITHOUT FIXED SEATS	ASSEMBLY STANDING SPACE	ASSEMBLY UNCONCENTRATED TABLES AND CHAIRS	BUSINESS AREAS	EDUCATIONAL CLASSROOMS	EDUCATIONAL SHOPS AND OTHER VOCATIONAL	MECHANICAL/ELECTRICAL ROOMS	RECEIVING/SHIPPING ROOMS	KITCHENS/COMMERCIAL
300 GROSS	7 NET	5 NET	15 NET	100 GROSS	20 NET	200 GROSS	300 GROSS	200 GROSS	200 GROSS

SEE CALCULATED OCCUPANCIES OUTLINED AT EACH BUILDING AREA

5. PROTECTION FROM HAZARDS - **MBC CHAPTER 7**  
FIRE WALLS (SECTION 706.1) - EACH PORTION OF A BUILDING SEPARATED BY ONE OR MORE FIRE WALLS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED A SEPARATE BUILDING.

6. FIRE / SMOKE DAMPERS AND DUCT PENETRATIONS (N/A MEANS NOT APPLICABLE) - **MBC CHAPTER 7**

ITEM	FIRE DAMPER	SMOKE DAMPER	SAFING	MBC
1 HR FIRE BARRIER WALLS	NA*	NA	-	717.5.2
2 HR FIREWALLS	X	NA	-	717.5.1
STAIR SHAFTS	NOTE 1	NOTE 1	-	1023.5
1 HR MECHANICAL SHAFTS	X	X	-	717.5.3
1 HR FLOOR ASSEMBLIES	X	NA	-	717.5.1
THRU 1 NON RATED FL.	NA	NA	-	717.5.3
SMOKE RESISTIVE ROOMS	NA	NA	-	NA

NOTE 1: DUCT PENETRATIONS AND DAMPERS NOT PERMITTED.  
\* MUST MEET 717.5.2 EXCEPTION #3 TO VOID FIRE DAMPERS  
\*\* DUCT THRU FLOOR ASSEMBLIES SHALL SEAL GAPS W/ NONCOMP FIRE SAFING  
\*\*\* SEAL PENETRATIONS WITH SMOKE RESISTIVE SEALANT (NO TRANSFER GRILLES)

7. FIRE STOPPING AND SMOKE STOPPING - **MBC CHAPTER 7**  
FILL ALL HOLES AND JOINTS IN FIRE RATED PARTITIONS AND FLOOR ASSEMBLIES AROUND ALL MECHANICAL PLUMBING, PIPING, ELECTRICAL PENETRATIONS WITH FIRE RATED FIRE STOP MATERIALS PER SPECIFICATION IN DIVISION 7 AND PER ASTM E814. FILL GAPS BETWEEN TOP OF FIRE RATED WALLS AND FLOOR ROOF DECK ABOVE WITH FIRESTOPPING. SUBMIT FIRE STOP TEST REPORTS AND PRODUCT LITERATURE AS REQUESTED BY AUTHORIZED HAVING JURISDICTION. IAC PENETRATIONS THROUGH SMOKE RESISTIVE PARTITIONS SHALL BE SEALED SMOKE TIGHT WITH SMOKE RESISTIVE SEALANT. GAPS AROUND PENETRATIONS THRU NONRATED FLOOR ASSEMBLIES SHALL BE SEALED WITH NONCOMBUSTIBLE FIRE SAFING SECURED IN PLACE (MBC 714.4.1.2)

8. FIRE ALARM & FIRE SPRINKLERED SYSTEMS - **MBC CHAPTER 8**  
PREWIRE FIRE ALARM SYSTEM THROUGHOUT BUILDING (807.2.3) WITH VOICE ALARMS EXCEPT AT MANUAL PULL STATIONS. FIRE SPRINKLERED AND FIRE ALARM SYSTEMS CONTRACTOR SHALL BE MICHIGAN CERTIFIED UNDER MICHIGAN ACT 144 AND SHALL SUBMIT SHOP DRAWINGS TO AUTHORITIES HAVING JURISDICTION FOR APPROVAL. CONTRACTOR CANNOT BID UNLESS CERTIFIED.

ENTIRE BUILDING SHALL BE WITH FIRE SPRINKLERED SYSTEM IN ACCORDANCE WITH 2013 NFPA 13

9. MEANS OF EGRESS - **MBC CHAPTER 10**  
MINIMUM REQUIRED EGRESS WIDTH (SECTION 1005) THE MEANS OF EGRESS WIDTH SHALL NOT BE LESS THAN REQUIRED BY THIS SECTION. THE TOTAL WIDTH OF MEANS OF EGRESS IN INCHES SHALL NOT BE LESS THAN THE TOTAL OCCUPANT LOAD SERVED BY THE MEANS OF EGRESS.

EGRESS WIDTH PER OCCUPANT SERVED (SECTION 1005.3) REFER TO LSC NOTES (MORE RESTRICTIVE)

EGRESS CAPACITY GUIDELINES BASED ON 0.2 OCCUPANTS AT DOORS AND 0.3 OCCUPANTS AT STAIRS:  
36" (3') CLEAR DOOR: 160 OCCUPANTS MAX  
72" (6') CLEAR FIRE DOOR, NO MULLION: 355 OCCUPANTS MAX  
36" STAIR WIDTH: 120 OCCUPANTS MAX  
48" STAIR WIDTH: 160 OCCUPANTS MAX

PANIC AND FIRE EXIT HARDWARE (SECTION 1010.1.10) DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OR E OCCUPANCY SHALL NOT BE PROVIDED WITH A LATCH OR LOCK OTHER THAN PANIC HARDWARE OR FIRE EXIT HARDWARE.

MEANS OF EGRESS LIGHTING: PROVIDE EMERGENCY EGRESS LIGHTING IN ALL MEANS OF EGRESS SPACES HAVING 2 OR MORE MEANS OF EGRESS, IN COMMON TOILET ROOMS AND AT EXTERIOR SIDE OF EXITS. PROVIDE PHOTO-METRIC PLAN CALCULATIONS OF LIGHTING LEVELS IN ACCORDANCE WITH 1008.3.5 TO AND REQUESTED BY AUTHORITIES HAVING JURISDICTION.

MAXIMUM COMMON PATH OF TRAVEL IS 75 FEET WITHIN ASSEMBLY AND GROUP E (TABLE 1006.2.1) EXCEPT 100 FEET PERMITTED WITHIN STAFF BUSINESS AREAS WHEN FULLY SPRINKLERED WITH AUTOMATIC SPRINKLER SYSTEM (TABLE 1006.2.1). COMMON PATH FOR GROUP E IS MORE RESTRICTIVE THAN LSC.

MAXIMUM CORRIDOR DEAD END TRAVEL: 50 FEET WHEN EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM (MBC 1020.4) EXCEPT 20 FEET IN ASSEMBLY OCCUPANCIES AND WITHOUT AN AUTOMATIC SPRINKLER SYSTEM (MBC 1020.4)

EGRESS THROUGH INTERVENING SPACES (1016.2.2) NOT ALLOWED EXCEPT WHERE ADJOINING ROOMS ARE ACCESSORY TO ONE OR THE OTHER AND PROVIDE A DISCREET PATH OF EGRESS TRAVEL TO AN EXIT, OR AS PERMITTED BY LSC (REFER TO LSC NOTES)

WHERE TWO EXITS, EXIT ACCESS DOORWAYS, OR EXIT ACCESS STAIRWAYS ARE REQUIRED FROM ANY PORTION OF THE EXITS (1007.1.1) - THE TWO ELEMENTS SHALL BE PLACED A DISTANCE APART NO LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED WHEN FULLY SPRINKLERED.

BOILER, INCINERATOR AND FURNACE ROOMS. (1006.2.2.1) TWO EXIT ACCESS DOORWAYS ARE REQUIRED IN BOILER, INCINERATOR AND FURNACE ROOMS WHERE THE AREA IS OVER 500 SQUARE FEET... AND ANY FULLY-FIRED EQUIPMENT EXCEEDS 400,000 BTU/H INPUT CAPACITY... WHERE EXIT ACCESS DOORWAYS ARE REQUIRED, ONE IS PERMITTED TO BE A FIXED LADDER OR AN ALTERNATING TREAD DEVICE. EXIT ACCESS DOORWAYS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE EQUAL TO ONE-HALF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE ROOM.

TRAVEL DISTANCE LIMITATIONS - EXITS SHALL BE LOCATED ON EACH STORY SUCH THAT THE MAXIMUM LENGTH OF EXIT ACCESS TRAVEL DOES NOT EXCEED THE DISTANCES GIVEN IN TABLE 1017.2 (SEE LSC NOTES)

COMMON PATH OF TRAVEL (TABLE 1006.2.1) SHALL NOT EXCEED 75' FOR OCCUPANCIES UNDER 50. COMMON PATH OF EGRESS TRAVEL - THAT PORTION OF EXIT ACCESS WHICH THE OCCUPANTS ARE REQUIRED TO TRAVEL BEFORE TWO SEPARATE AND DISTINCT PATHS OF EGRESS TRAVEL TO TWO EXITS ARE AVAILABLE. PATHS THAT MERGE ARE COMMON PATHS OF TRAVEL. COMMON PATHS OF EGRESS TRAVEL SHALL BE INCLUDED WITHIN THE PERMITTED TRAVEL DISTANCE. EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2) - OCCUPANCY E TRAVEL DISTANCE IS 250' W/ SPRINKLER SYSTEM

CORRIDOR CONSTRUCTION (TABLE 1020.1) - E OCCUPANCY FULLY SPRINKLERED DOES NOT REQUIRE FIRE RESISTANCE RATING. CORRIDORS SHALL BE SMOKE RESISTANT PER 407.3 & 710.

CORRIDOR WIDTH IN GROUP E OCCUPANCIES HAVING AN OCCUPANT LOAD OF 100 OR MORE SHALL HAVE A MINIMUM WIDTH OF 72 INCHES (TABLE 1020.2).

MINIMUM NUMBER OF EXITS (TABLE 1006.3.1)  
1 TO 500 OCCUPANTS = 2 EXITS REQUIRED  
501 TO 1,000 OCCUPANTS = 3 EXITS REQUIRED  
1,000 AND OVER OCCUPANTS = 4 EXITS REQUIRED

EVERY STUDENT OCCUPIED ROOM OVER 250 S.F. MUST HAVE A DOOR OR WINDOW TO THE EXTERIOR (14.2.11) EXCEPT: NOT REQUIRED IN FULLY SPRINKLERED BUILDINGS.

(1028.1) EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE A DIRECT PATH OF EGRESS TRAVEL TO GRADE. EXCEPT AS PERMITTED PER 1028.1 TO ALLOW INTERIOR EXIT DISCHARGE.

10. INTERIOR FINISHES - **MBC CHAPTER 8**  
ALL ROOMS / CORRIDORS / LOBBIES: CLASS C, EXCEPT WITHIN ENCLOSED STAIR EXITS TO HAVE CLASS B (TABLE 803.11)

**CODE COMPLIANCE KEY**

**EGRESS SYMBOLS**

**FIRE SAFETY SYMBOLS**

- FEC - FIRE EXTINGUISHER
- FEC - FIRE EXTINGUISHER CABINET
- AED - AUTOMATED EXTERNAL DEFIBRILLATOR (AED)
- RECESSED CABINET
- KNOX - KNOX BOX
- FDC - FDC FLAG STYLE SIGN

**MISC. NOTES & INFORMATION**

- Business (B) Occupancy = 3,458 SF
- OL - OCCUPANT LOAD
- OLF - OCCUPANT LOAD FACTOR
- SF - SQUARE FEET
- DF - DRINKING FOUNTAIN
- Wheelchair Turning Diameter

**FIRE-RATING KEY**

DESIGNATION	PARTITION RATING	PRIORITY
[Symbol]	3 HOUR	1
[Symbol]	2 HOUR FIRE/SMOKE	2
[Symbol]	2 HOUR	3
[Symbol]	1 HOUR FIRE/SMOKE	4
[Symbol]	1 HOUR	5
[Symbol]	SMOKE RESISTANT	6

**PLUMBING COUNTS (2018 MICHIGAN PLUMBING CODE)**

SEPARATED, NON-SIMULTANEOUS OCCUPANCY COUNTS  
A-3 OCCUPANCY ACTUAL LOAD = 499 MAXIMUM (MULTI-PURPOSE RM 101 UTILIZED EXCLUSIVELY)  
B OCCUPANCY DESIGN LOAD = 21 OCCUPANTS  
A-3 OCCUPANCY DESIGN LOAD = 422 OCCUPANTS (EXCLUDING MULTI-PURPOSE RM 101 - SEPARATED OCCUPANCY)

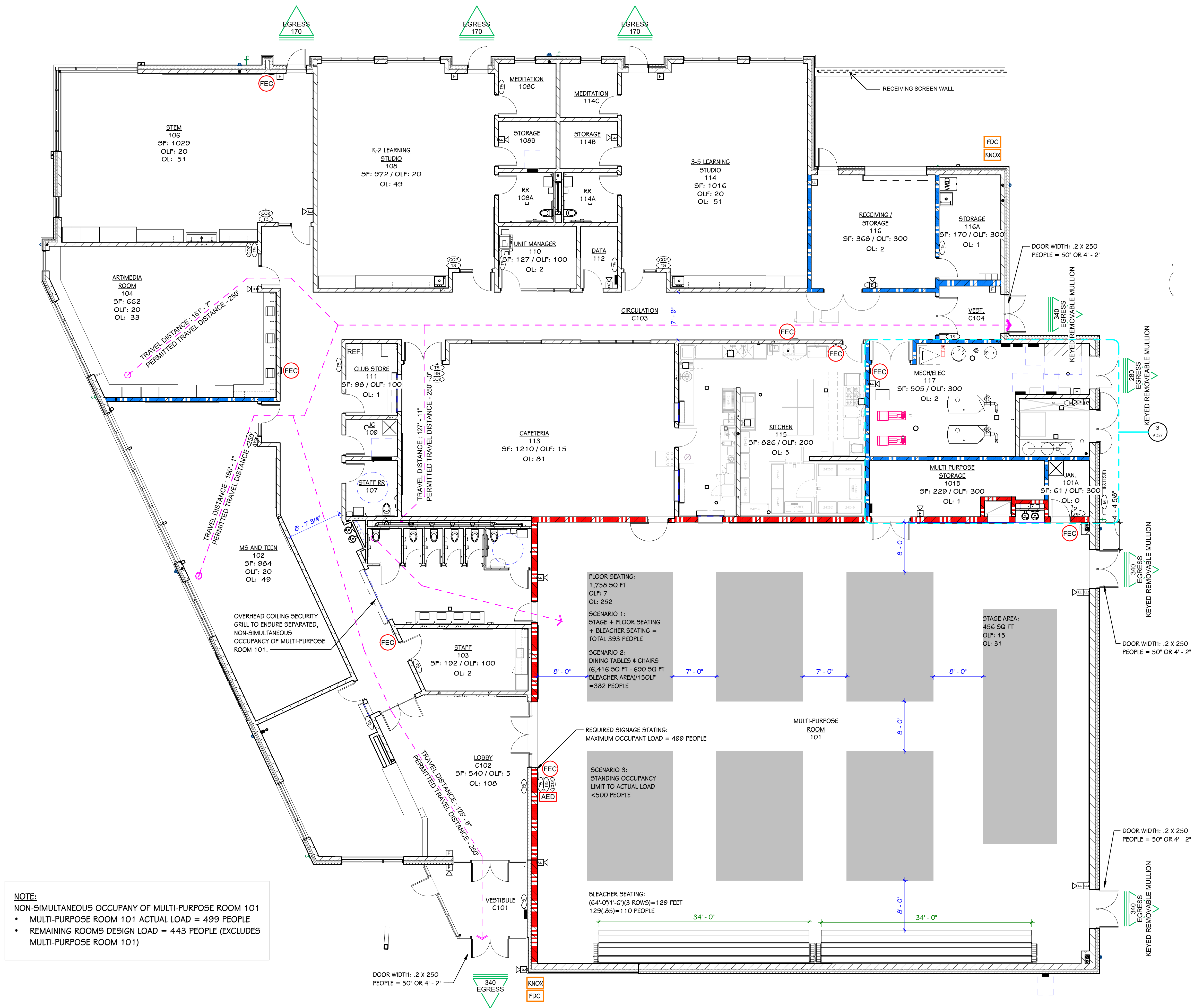
REQUIRED PLUMBING FIXTURES (PER BUSINESS CLASSIFICATION)  
21 OCCUPANTS TOTAL / 2 = 11 OCCUPANTS PER SEX  
MALE WATER CLOSETS = 1 PER 25 = 1 (BUT TO 1 MAY BE SUBSTITUTED BY URINALS PER SECTION 419.2)  
FEMALE WATER CLOSETS = 1 PER 25 = 1  
MALE LAVATORIES = 1 PER 40 = 1  
FEMALE LAVATORIES = 1 PER 40 = 1  
DRINKING FOUNTAINS = 1 PER 100 = 2 (PER SECTION 410.3)  
SERVICE SINKS = 1

REQUIRED PLUMBING FIXTURES (PER ASSEMBLY-3 CLASSIFICATION)  
499 OCCUPANTS / 2 = 250 OCCUPANTS PER SEX  
MALE WATER CLOSETS = 1 PER 25 = 10 (BUT TO 2 MAY BE SUBSTITUTED BY URINALS PER SECTION 419.2)  
FEMALE WATER CLOSETS = 1 PER 25 = 10  
MALE LAVATORIES = 1 PER 200 = 2  
FEMALE LAVATORIES = 1 PER 200 = 2  
DRINKING FOUNTAINS = 1 PER 500 = 2 (PER SECTION 410.3)  
SERVICE SINKS = 1

TOTAL REQUIRED REQUIRED:  
WATER CLOSETS = 8  
LAVATORIES = 6  
DRINKING FOUNTAINS = 4  
SERVICE SINKS = 2

PROVIDED PLUMBING FIXTURES  
UNisex WATER CLOSETS PROVIDED = 2 (0 OF WHICH ARE URINALS)  
UNisex LAVATORIES PROVIDED = 2  
DRINKING FOUNTAINS = 4 (DRINKING FOUNTAINS (2 DOUBLE) + 2 BOTTLE FILLING STATIONS)  
SERVICE SINKS = 2

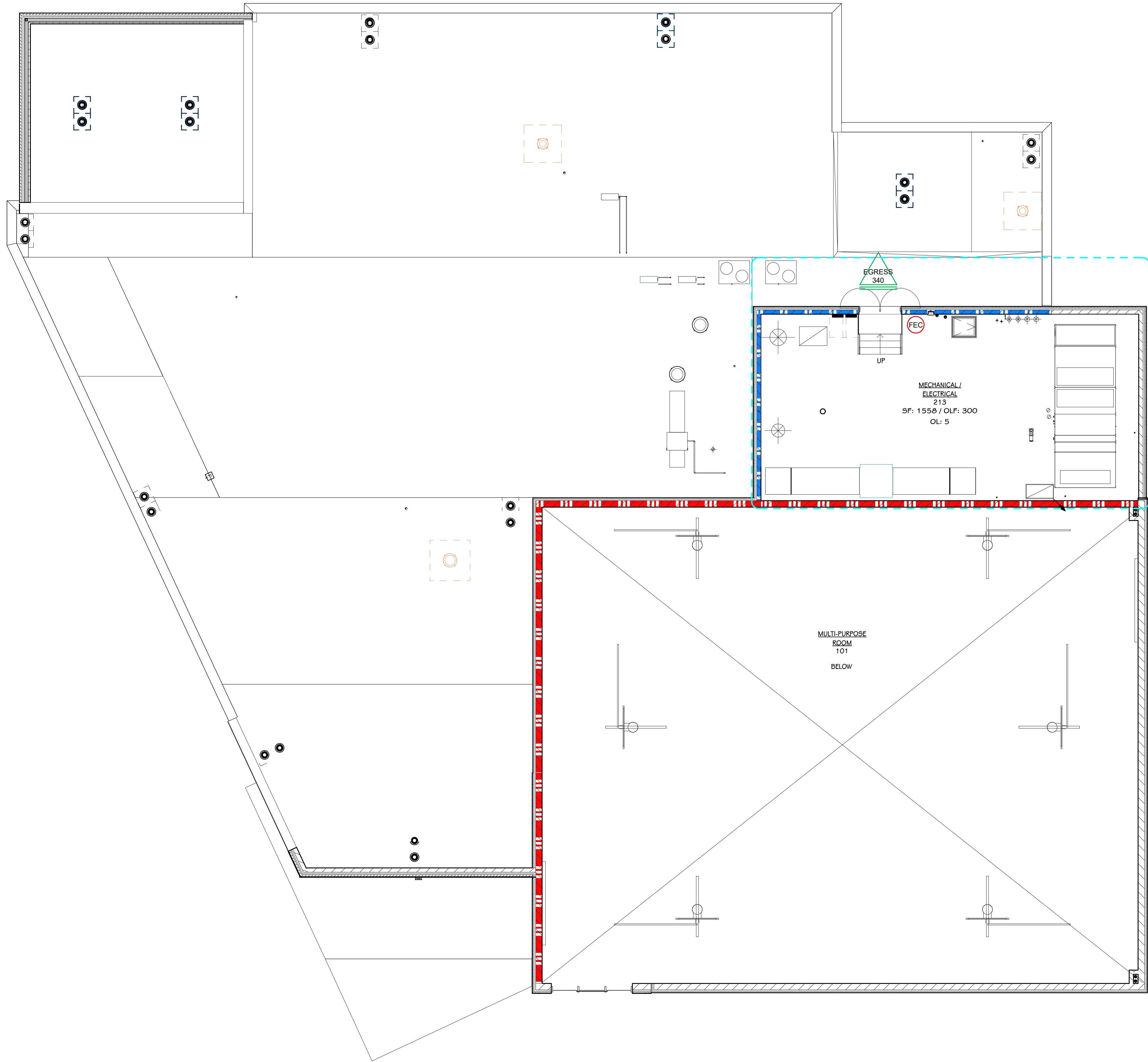
OVERHEAD COOLING SECURITY GRILL TO BE UTILIZED FOR GROUP RESTROOM ONLY WHEN MULTI-PURPOSE RM 101 IS BEING USED INDEPENDENT AND EXCLUSIVE OF OTHER ROOMS. OVERHEAD COOLING SECURITY GRILL WILL BE LOCKED 50 ROOM 101 OCCUPANTS CANNOT ACCESS CIRCULATION C103 AND ASSOCIATED ROOMS.



**NOTE:**  
NON-SIMULTANEOUS OCCUPANCY OF MULTI-PURPOSE ROOM 101  
• MULTI-PURPOSE ROOM 101 ACTUAL LOAD = 499 PEOPLE  
• REMAINING ROOMS DESIGN LOAD = 443 PEOPLE (EXCLUDES MULTI-PURPOSE ROOM 101)

THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING





1 SECOND FLOOR CODE COMPLIANCE PLAN  
 1/8" = 1'-0"

**CODE COMPLIANCE KEY**

**EGRESS SYMBOLS**

- EGRESS EXIT NUMBER FROM ROOM OR SPACE
- MAXIMUM NUMBER OF OCCUPANTS PERMITTED BY EGRESS WIDTH
- ROOM OR SPACE EGRESS IS FROM

**EGRESS ROOM**

EXISTING TRAVEL DISTANCE TO EGRESS DOOR

TRAVEL DISTANCE : 100'-0"

DIRECTION OF EGRESS

PERMITTED TRAVEL DISTANCE - 200'-0"

PERMITTED MAXIMUM TRAVEL DISTANCE PER CONDITION

**FIRE SAFETY SYMBOLS**

- FE FIRE EXTINGUISHER
- FEC FIRE EXTINGUISHER CABINET
- AED AUTOMATED EXTERNAL DEFIBRILLATOR (AED) RECESSED CABINET
- KNOX KNOX BOX
- FDC FDC FLAG STYLE SIGN

**MISC. NOTES & INFORMATION**

- BUSINESS (B) OCCUPANCY = 3,456 SF
- OL OCCUPANT LOAD
- OLF OCCUPANT LOAD FACTOR
- SF SQUARE FEET
- DF DRINKING FOUNTAIN
- WHEELCHAIR TURNING DIAMETER

**FIRE-RATING KEY**

DESIGNATION	PARTITION RATING	PRIORITY
[Green dashed line symbol]	3 HOUR	1
[Red dashed line symbol]	2 HOUR FIRE/SMOKE	2
[Red solid line symbol]	2 HOUR	3
[Blue dashed line symbol]	1 HOUR FIRE/SMOKE	4
[Blue solid line symbol]	1 HOUR	5
[Grey dashed line symbol]	SMOKE RESISTANT	6

- ALL PENETRATIONS THROUGH A FIRE OR SMOKE RATED PARTITION SHOULD BE SEALED WITH AN APPROVED U.L. RATED PRODUCT.
- THE TOPS OF ALL FIRE RATED PARTITIONS SHALL BE SEALED TO THE CONTINUOUS STRUCTURE ABOVE WITH A U.L. RATED SYSTEM OR ASSEMBLY.
- WOOD BLOCKING IN FIRE-RATED PARTITIONS SHALL BE NON-COMBUSTIBLE TREATED WOOD.
- REFER TO SPECIFICATION U.L. RATING INFORMATION.
- FIRE-RATED WALLS ENDING INTO AN ACOUSTICAL DECK MUST HAVE THE FLUTES FILLED, REFER TO TOP OF WALL DETAIL AT ACOUSTIC DECK SHOWN ON THIS SHEET.

- FOR MASONRY WALLS THE MASON SHALL FILL VOIDS AND FIRE SPRAY WITH UL LISTED MATERIAL.
- FOR STUD WALLS USE FIRE SAFING AND FIRE CAULK.

ISSUED FOR DATE

PROJECT TITLE  
 BOYS & GIRLS CLUBS NEW FACILITY

OWNER  
 BOYS & GIRLS CLUBS OF GREATER KALAMAZOO

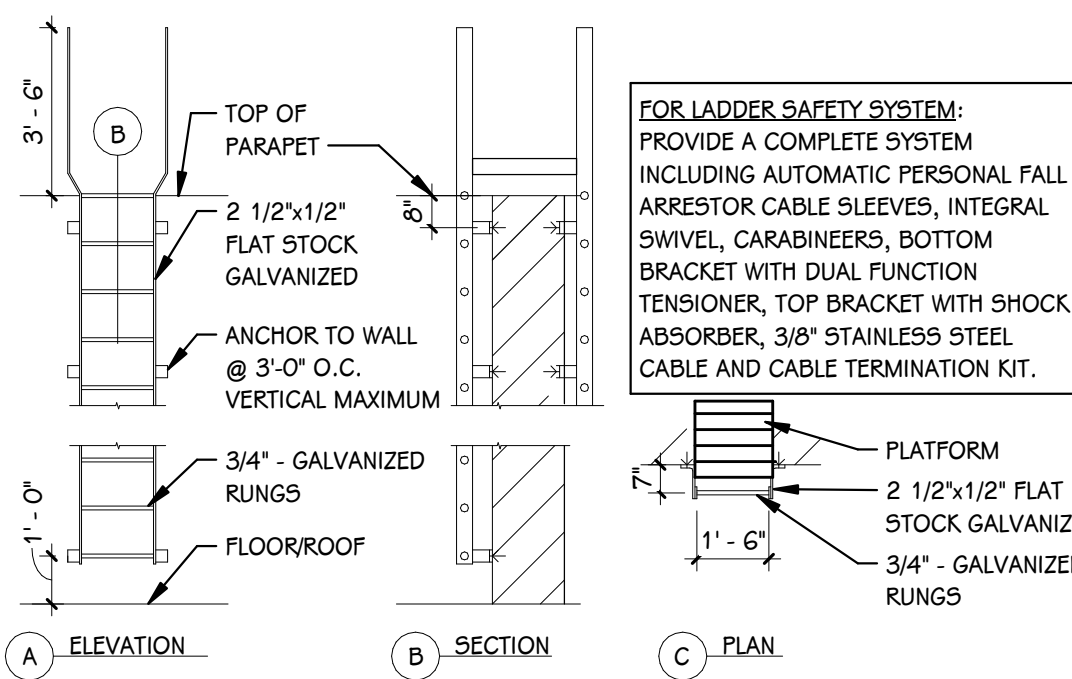
Kalamazoo, Michigan

SHEET TITLE  
 MECHANICAL PENTHOUSE CODE COMPLIANCE PLAN

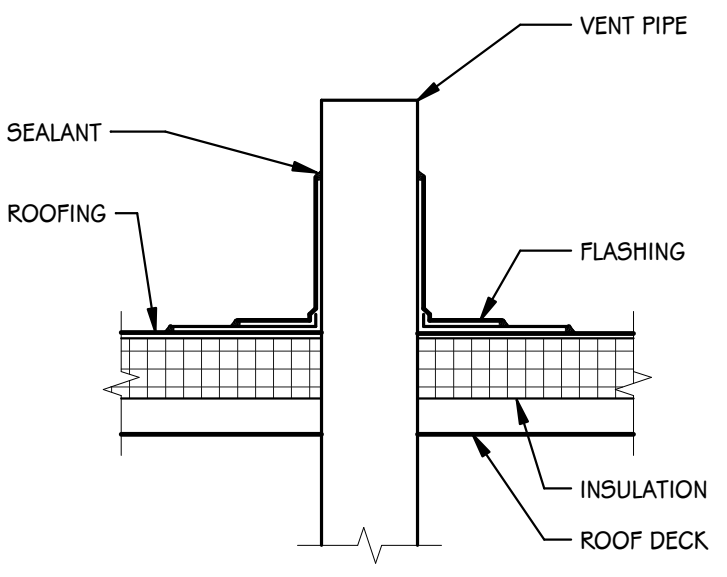
DATE  
 FEBRUARY 16, 2024

SHEET NUMBER  
 G 102  
 22-126

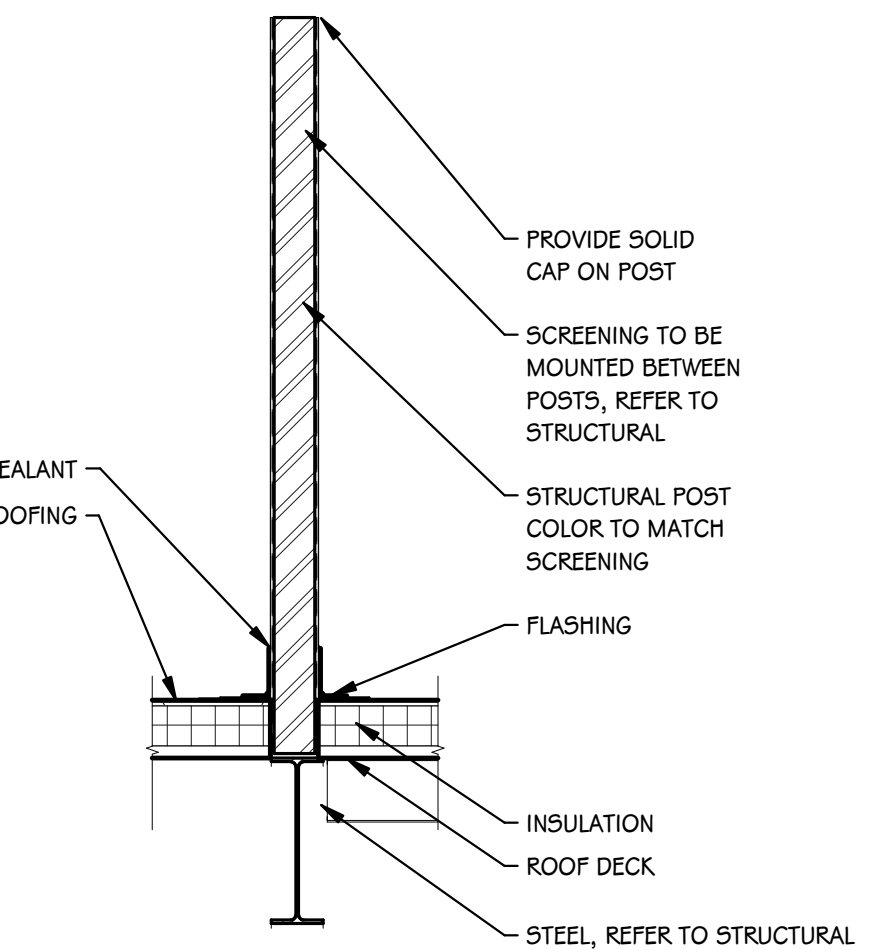




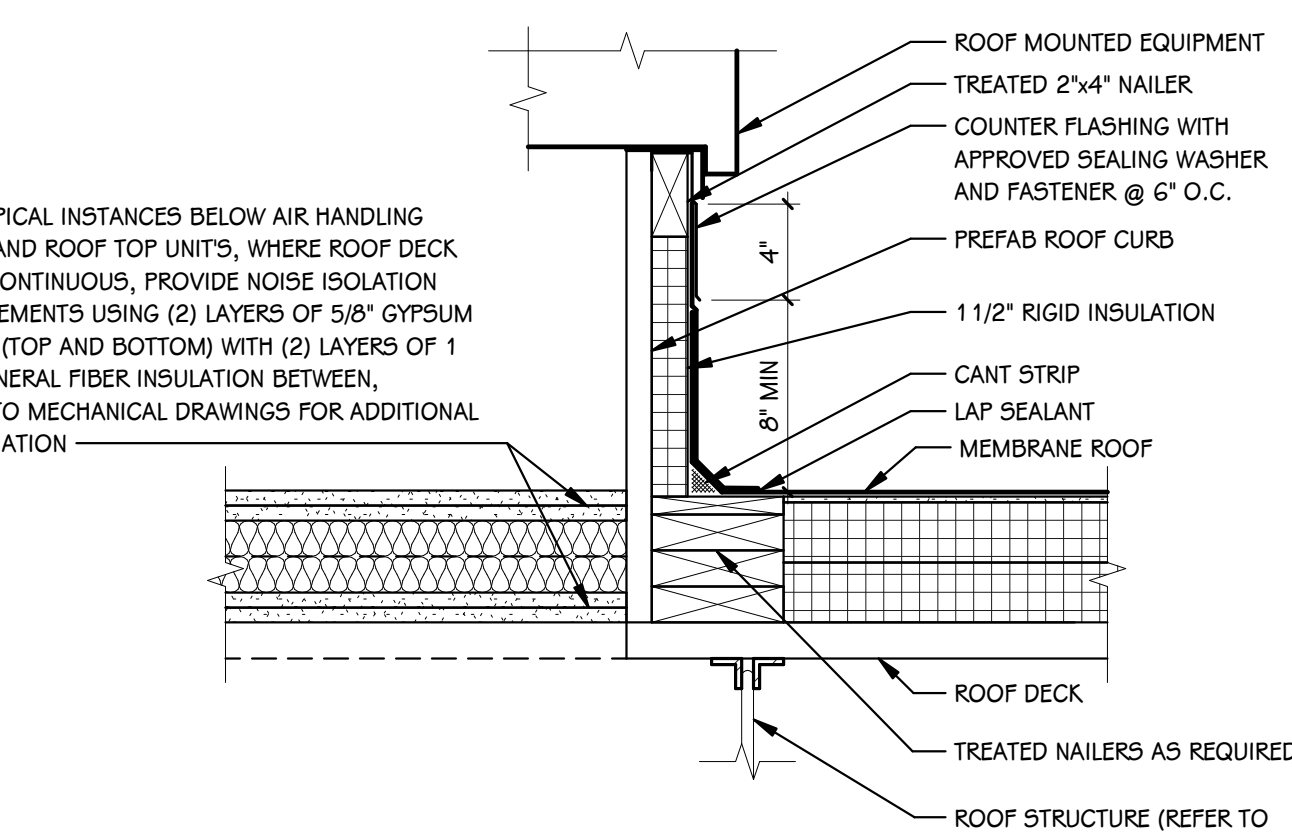
**1 ROOF LADDER DETAIL W/ EXTENDED SIDE RAIL**  
1/4" = 1'-0"



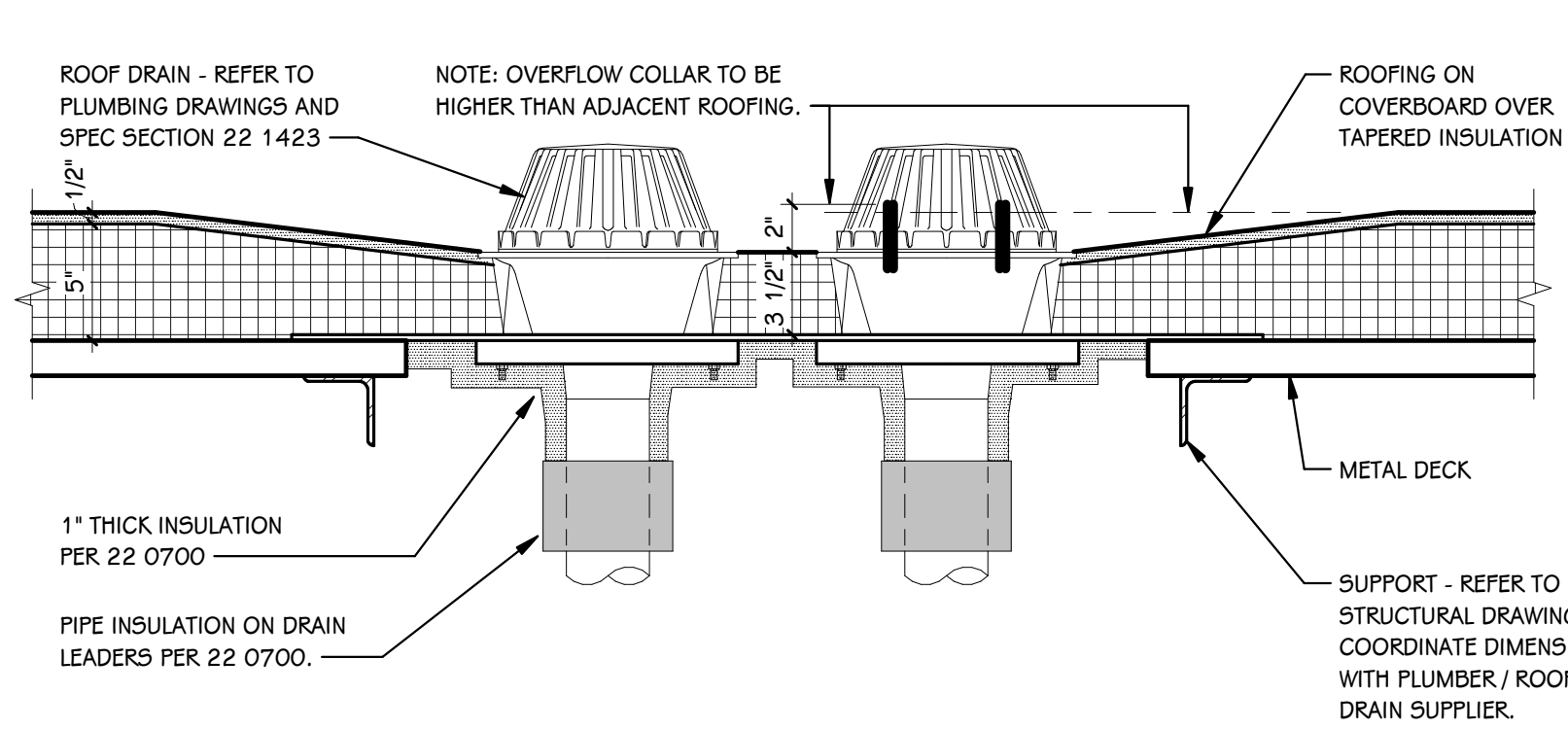
**2 TYPICAL ROOF PENETRATION**  
1 1/2" = 1'-0"



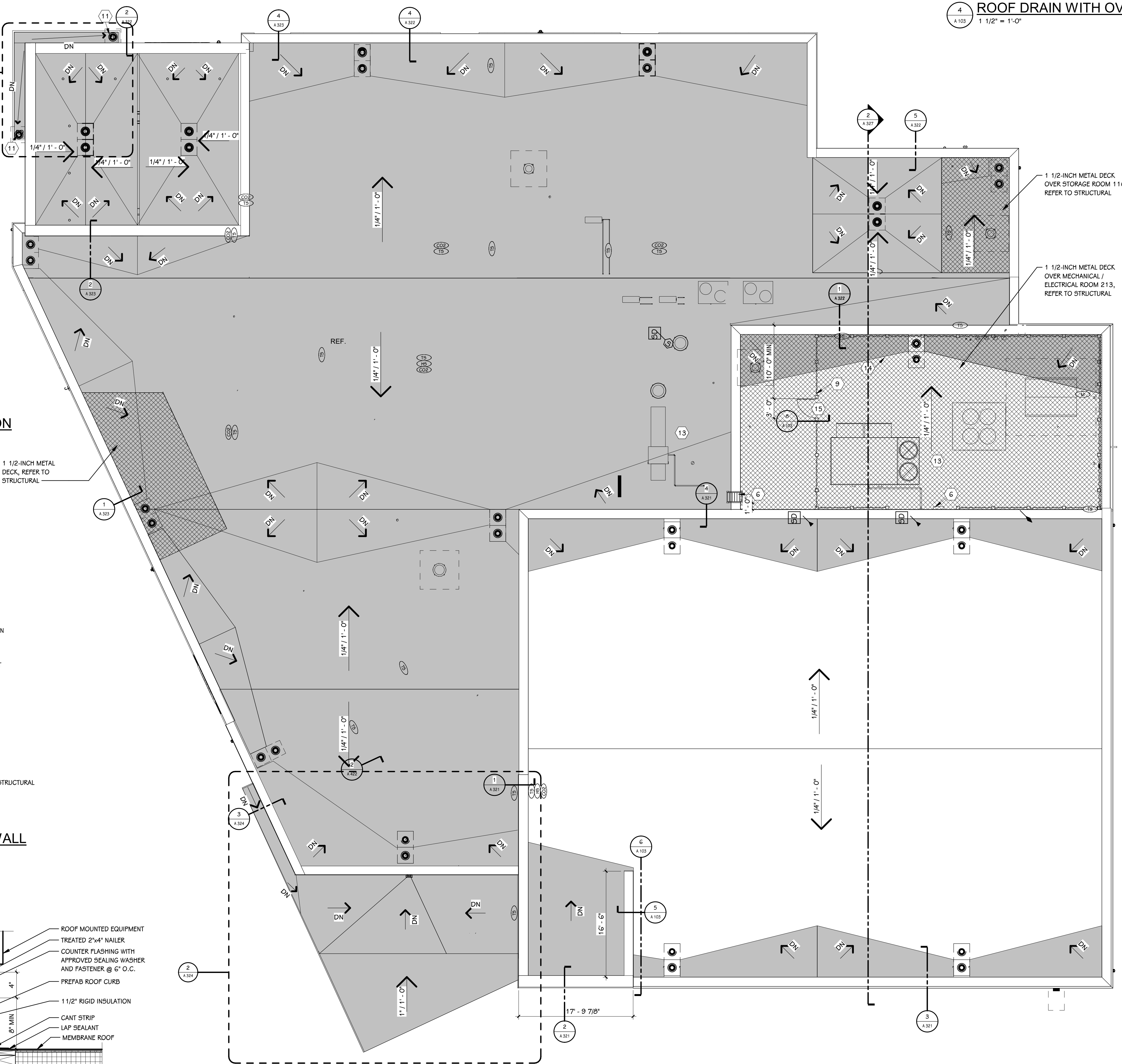
**6 MECHANICAL SCREENING WALL**  
1/2" = 1'-0"



**3 TYPICAL ROOF CURB**  
1 1/2" = 1'-0"



**4 ROOF DRAIN WITH OVERFLOW DETAIL**  
1 1/2" = 1'-0"

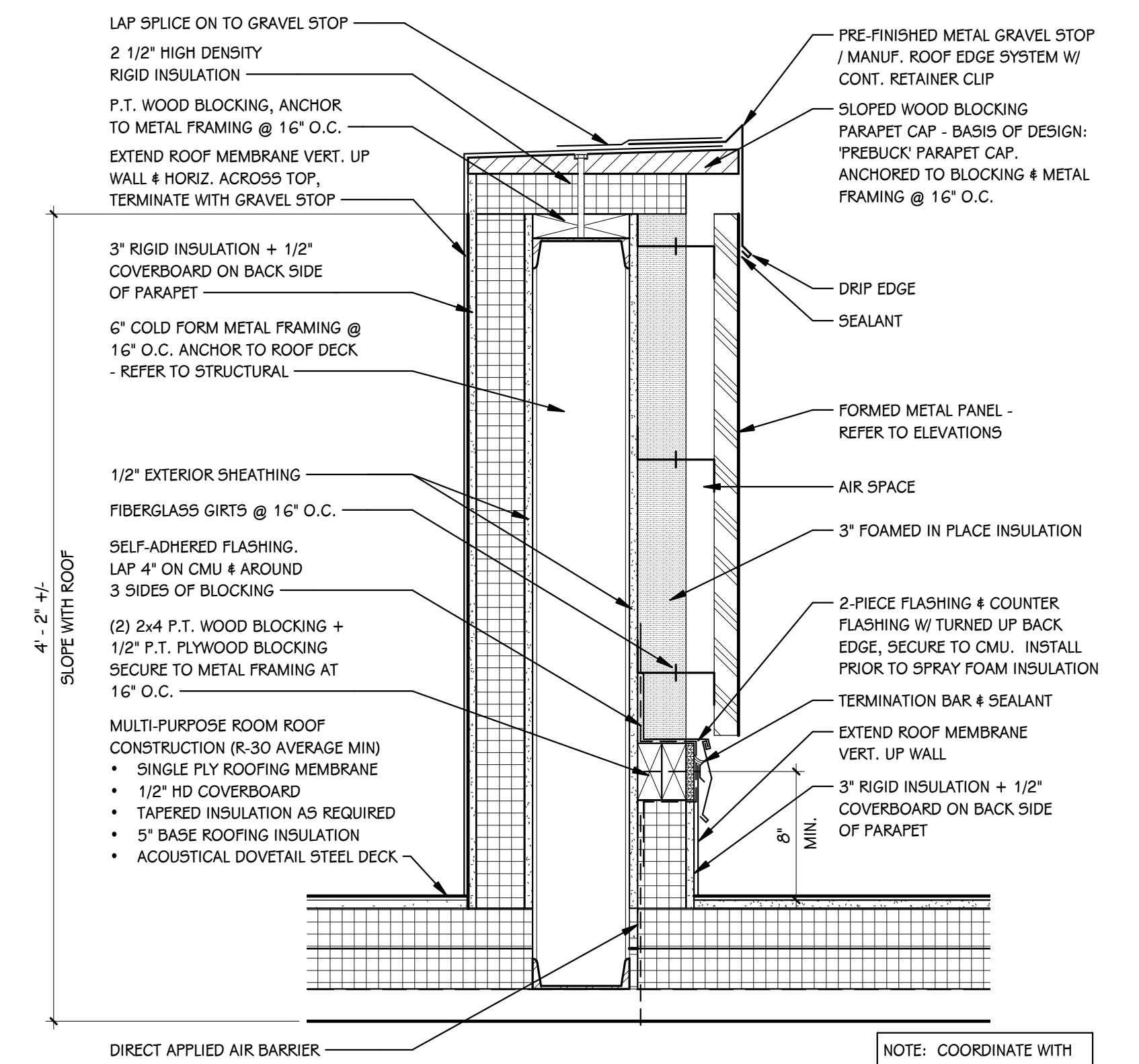


**ROOF PLAN**  
1/8" = 1'-0"

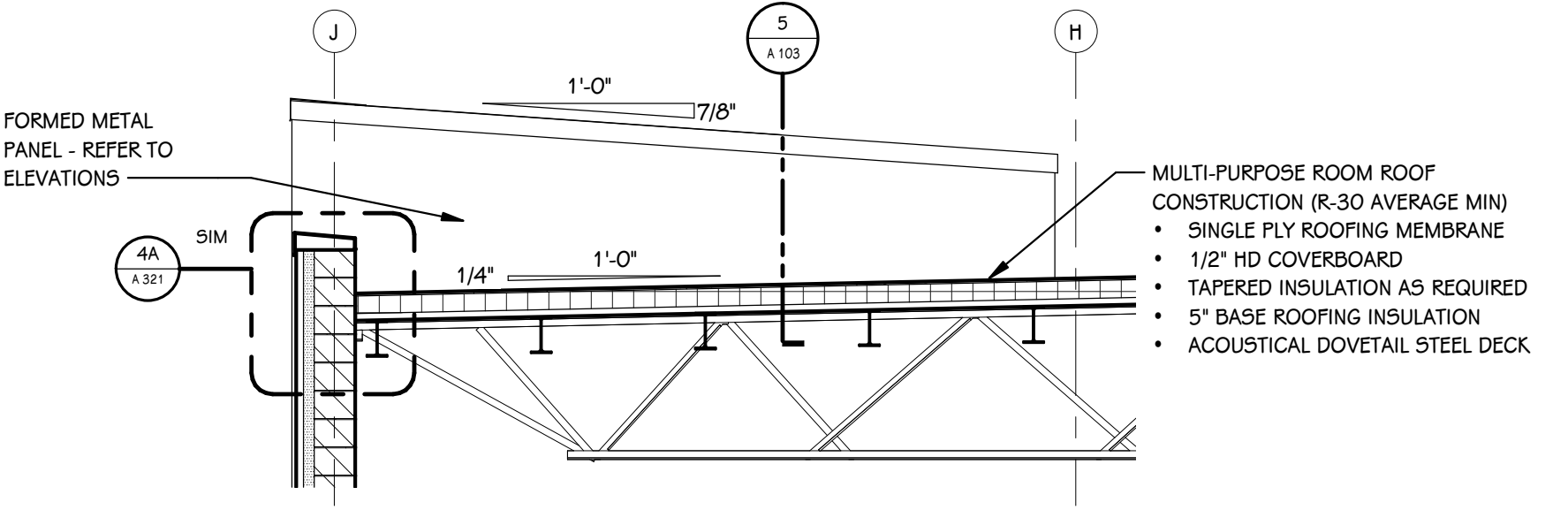
ROOF PLAN KEY	
	TAPERED INSULATION
	1 1/2-INCH METAL DECKING, REFER TO STRUCTURAL
R.D.	ROOF DRAIN - SEE PLUMBING DRAWINGS
O.D.	OVERFLOW DRAIN - SEE PLUMBING DRAWINGS
	ROOF SLOPE DUE TO TAPERED INSULATION OR SLOPED STRUCTURE - REFER TO STRUCTURAL DRAWINGS
AHU OR RTU	ROOF TOP UNIT - SEE MECHANICAL DRAWINGS
ACCU	CONDENSING UNIT - SEE MECHANICAL DRAWINGS
E.F.	EXHAUST FAN / HOOD - SEE MECHANICAL DRAWINGS

- NOTES**
- TYPICAL ROOF SLOPE 1/4" / 1'-0" UNLESS NOTED OTHERWISE.
  - PROVIDE ROOFING MANUFACTURER'S STANDARD ROOFING TERMINATION DETAILS AT ALL PARAPETS, PRE-MANUFACTURED ROOF EDGE SYSTEMS, CURBS, PIPE PENETRATIONS, ETC.
  - PROVIDE CRICKETS AS REQUIRED AT ALL MECHANICAL UNITS, VENTS, ETC. TO MAINTAIN POSITIVE SLOPE OF 1/4" / 1'-0" MINIMUM.

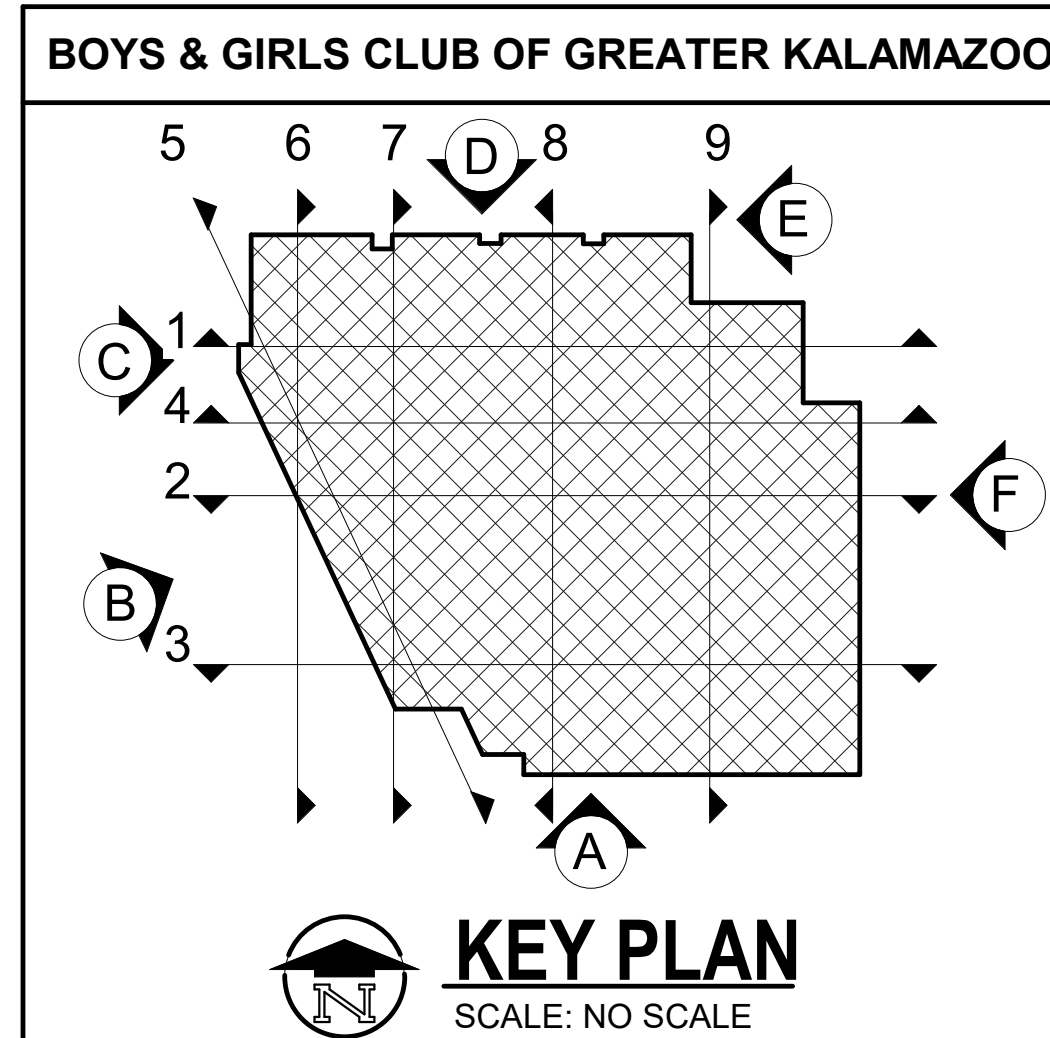
- KEYED NOTES - NEW CONSTRUCTION**
- 1-HR FIRE-RATED SECOND FLOOR MECHANICAL ROOM ACCESS HATCH
  - OVERHEAD COILING GRILL
  - SECURITY CURTAIN OR GRILL TO PROTECT STUDENT BELONGINGS / CHECK IN ROOM
  - AED
  - GYM DIVIDER CURTAIN
  - ROOF LADDER
  - CLEAN OUT AT BASE FOR 10" STORM PIPING
  - STAINLESS STEEL WRAPPED COUNTER, REFER TO PSE FOR DETAILS
  - ROOF TOP SCREENING OF MECHANICAL EQUIPMENT - LOUVERED PRIVACY FENCING (REFER TO ELEVATIONS)
  - CHASE FOR GANGLY ROOF DRAIN. CLAD IN METAL TO MATCH CORRESPONDING CANOPY.
  - CANOPY ROOF DRAIN
  - WALL POCKET FOR SECURITY CURTAIN
  - PROVIDE 3'-0" WIDE WALK PADS AROUND ALL SERVICEABLE EQUIPMENT
  - ROOF ACCESS HATCH & LADDER
  - GATE
  - WALLS TO BE paneled WITH FIRE-RATED PLYWOOD



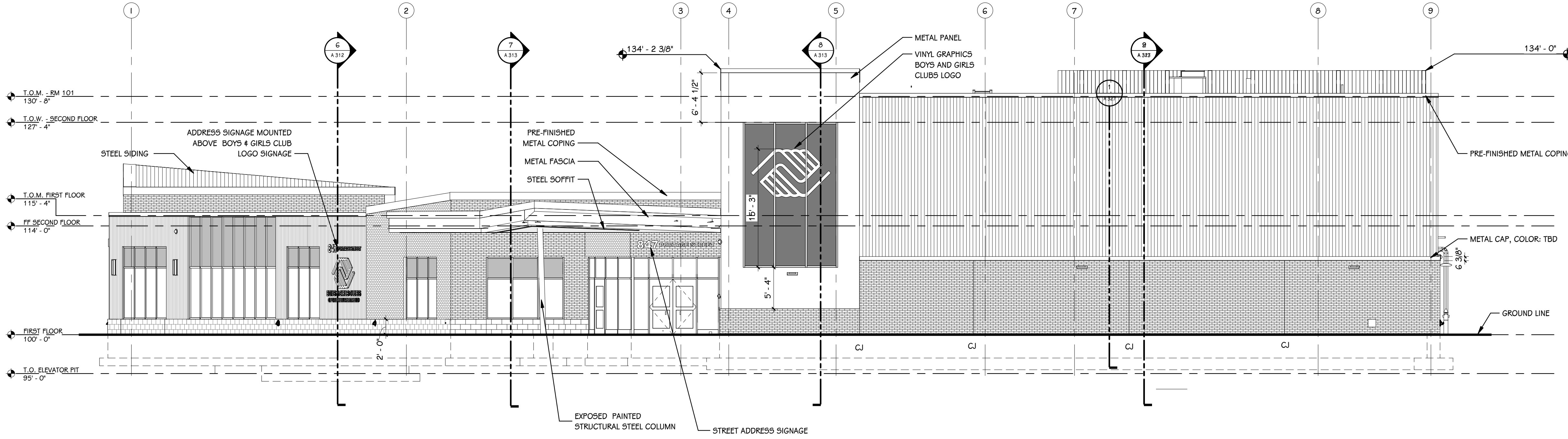
**5 PARAPET SCREEN DETAIL**  
1 1/2" = 1'-0"



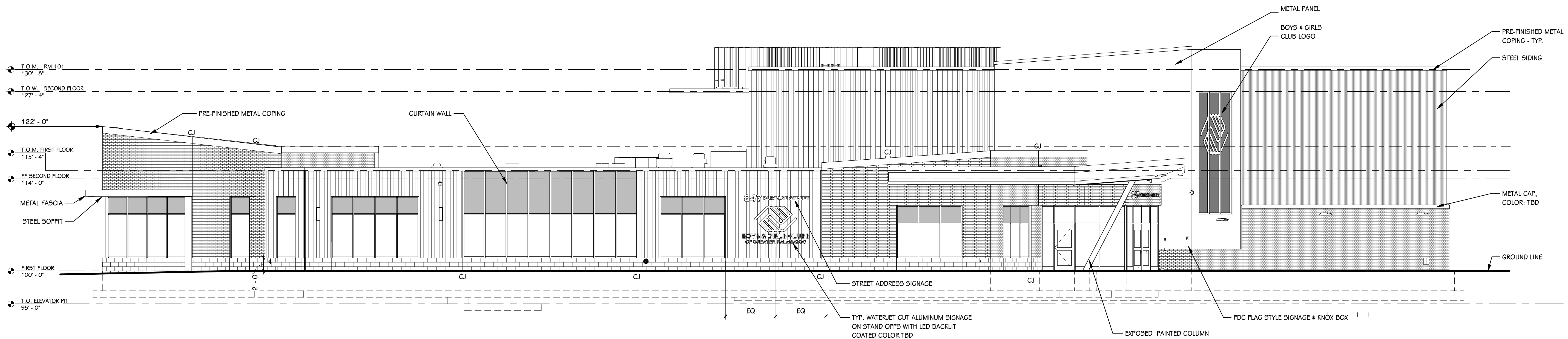
**6 PARAPET SCREEN ELEVATION**  
1/4" = 1'-0"



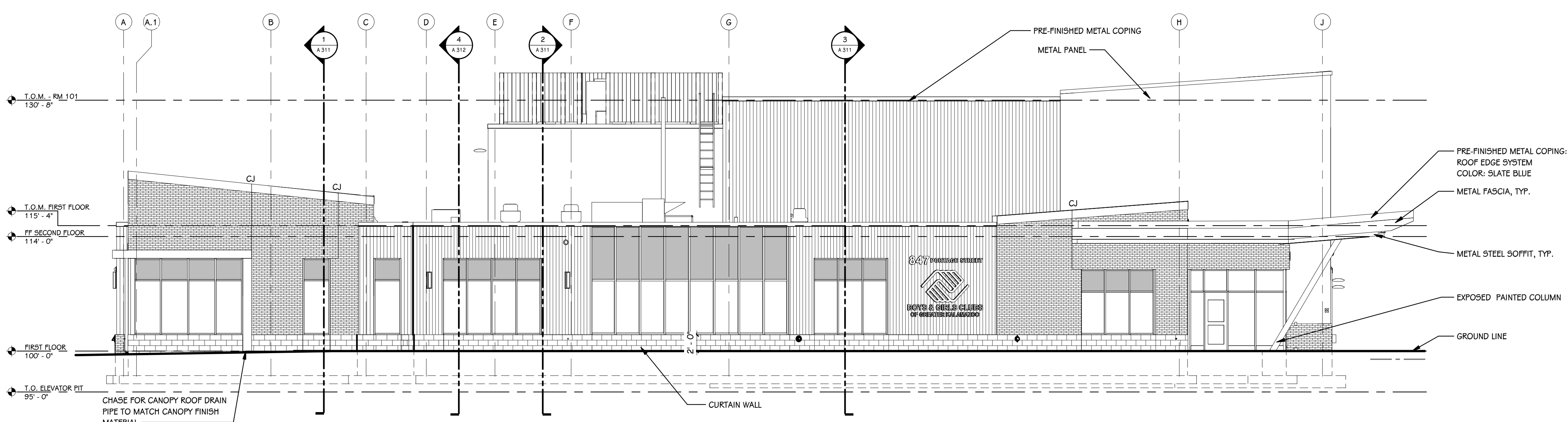




**A SOUTH ELEVATION**  
1/8" = 1'-0"



**B SOUTHWEST ELEVATION**  
1/8" = 1'-0"



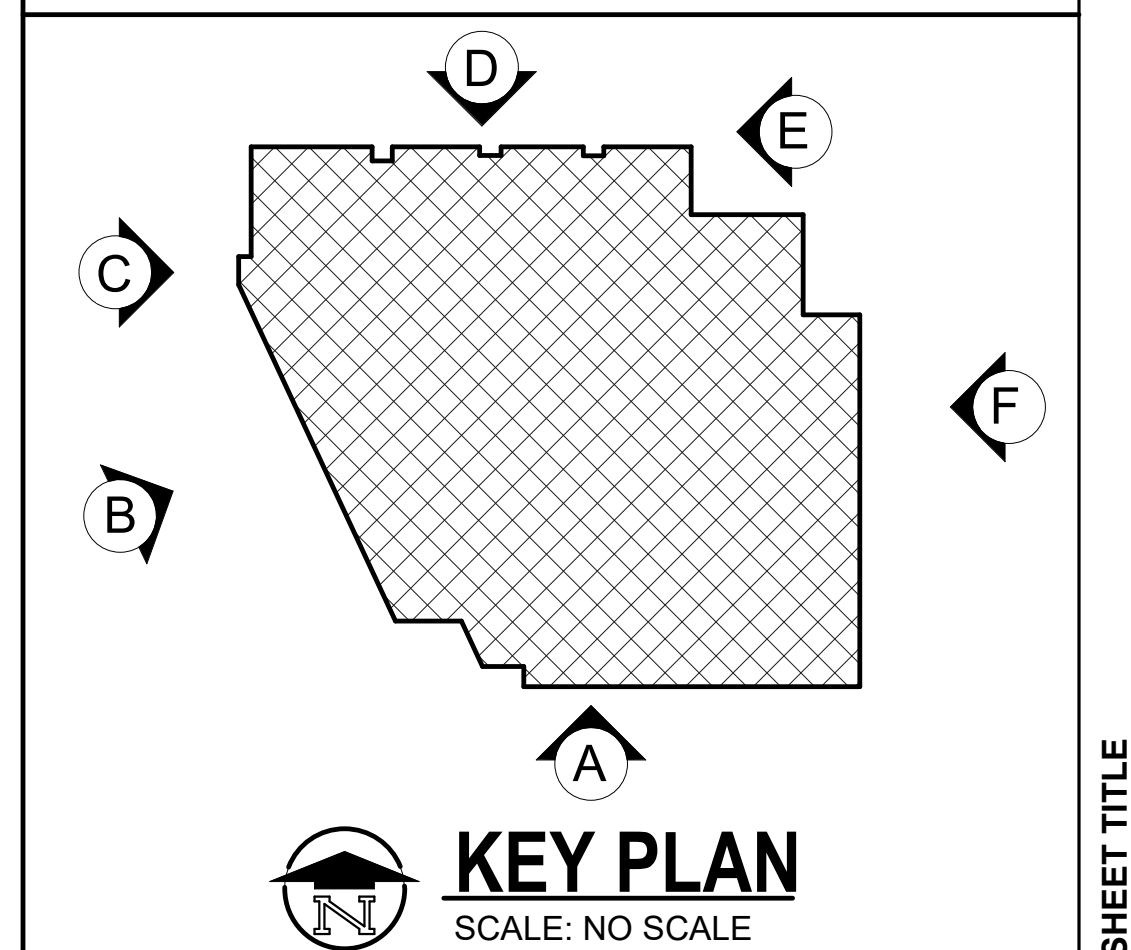
**C WEST ELEVATION**  
1/8" = 1'-0"

**EXTERIOR ELEVATION KEY**

- STEEL SIDING  
BASIS OF DESIGN: MAC METAL ARCHITECTURAL HARRYWOOD  
COLOR: CORK, MHGC 1780
  - FORMED METAL WALL PANELS  
BASIS OF DESIGN: CENTRAL CONCEALED FASTENER PANELS  
W/ RAINSCREEN SERIES, IW-11A  
COLOR: 9955 BLUE EFFECT COATINGS
  - BRICK 1  
GLEN-GERY, MODULAR RUNNING BOND  
COLOR: TITANIUM METALLIC  
MORTAR: SOLGOMN COLORS: WHITE 60H
  - DCMU CONSUMERS CONCRETE  
RUNNING BOND, SPLIT-FACE BLOCK - 4' X 16"  
COLOR: OBSIDIAN  
MORTAR: TBD
  - GLAZING (IG-1) - IN ALUMINUM STOREFRONT SYSTEMS  
LOW-E COATED, CLEAR INSULATING GLASS
  - GLAZING (IG-2) - IN ALUMINUM STOREFRONT SYSTEMS  
PROPRIETARY COATED, BACK PAINTED, INSULATING  
SPANDREL GLASS
  - GLAZING (IG-3) - MULTI-PURPOSE ROOM EXTERIOR  
IMPACT RESISTANT LAMINATED INSULATING GLASS
  - ALUMINUM STOREFRONT SYSTEMS  
TRIFAB VERSAGLAZE 601 FRAMING SYSTEM  
COLOR: BLACK ANODIZED
  - CURTAIN WALL  
KAWNEER SYSTEM  
COLOR: BLACK ANODIZED
  - PRE-FINISHED METAL COPING - TYP. (CANOPY COPING DIFFERS)
  - ROOF EDGE SYSTEM  
COLOR: MATTE BLACK
  - METAL FASCIA - TYP.  
MCELROY METAL PANELS  
COLOR: BONE WHITE
  - METAL STEEL SOFFIT - TYP.  
MAC METAL ARCHITECTURAL HARRYWOOD VENTED  
COLOR: CORK, MHGC 1780
- CJ = CONTROL JOINT, COLOR: PLAIN NATURAL  
FOR CONTROL JOINTS IN STRUCTURAL WALL, REFER TO STRUCTURAL
- EJ - BUILDING EXPANSION JOINT, COLOR: TBD  
PROVIDE EXPANSION JOINT BETWEEN DIFFERENT MATERIALS

- NOTES:**
- EXTERIOR ELECTRICAL FIXTURES TO BE MOUNTED TO OUTERMOST FACE OF STEEL SIDING & FORMED METAL PANELS
  - BUILDING TRANSPARENCY PORTAGE STREET: 55%\*
  - BUILDING TRANSPARENCY VINE STREET: 30%\*
  - \*MEASURED BETWEEN 2' TO 8' ABOVE GROUND LINE.

**BOYS & GIRLS CLUB OF GREATER KALAMAZOO**



**KEY PLAN**  
SCALE: NO SCALE

ISSUED FOR DATE

PROJECT TITLE  
**BOYS & GIRLS CLUBS NEW FACILITY**

OWNER  
**BOYS & GIRLS CLUBS OF GREATER KALAMAZOO**

Kalamazoo, Michigan

SHEET TITLE  
**EXTERIOR ELEVATIONS**

DATE  
**FEBRUARY 16, 2024**

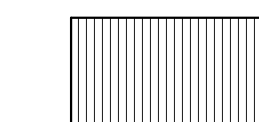
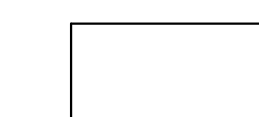
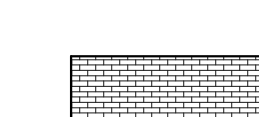
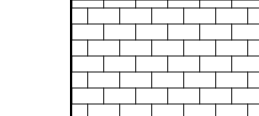







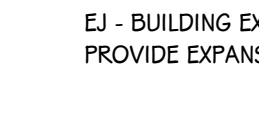
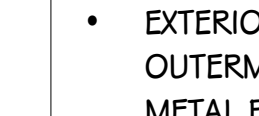
SHEET NUMBER  
**A 301**  
22-126



**EXTERIOR LOUVER SCHEDULE**

NUMBER	ROOM #	ELEVATION	LENGTH	HEIGHT	AREA	FINISH
L1	213	3' - 10"	8' - 2"	5' - 2 15/16"	42.82 SF	BLACK ANODIZED

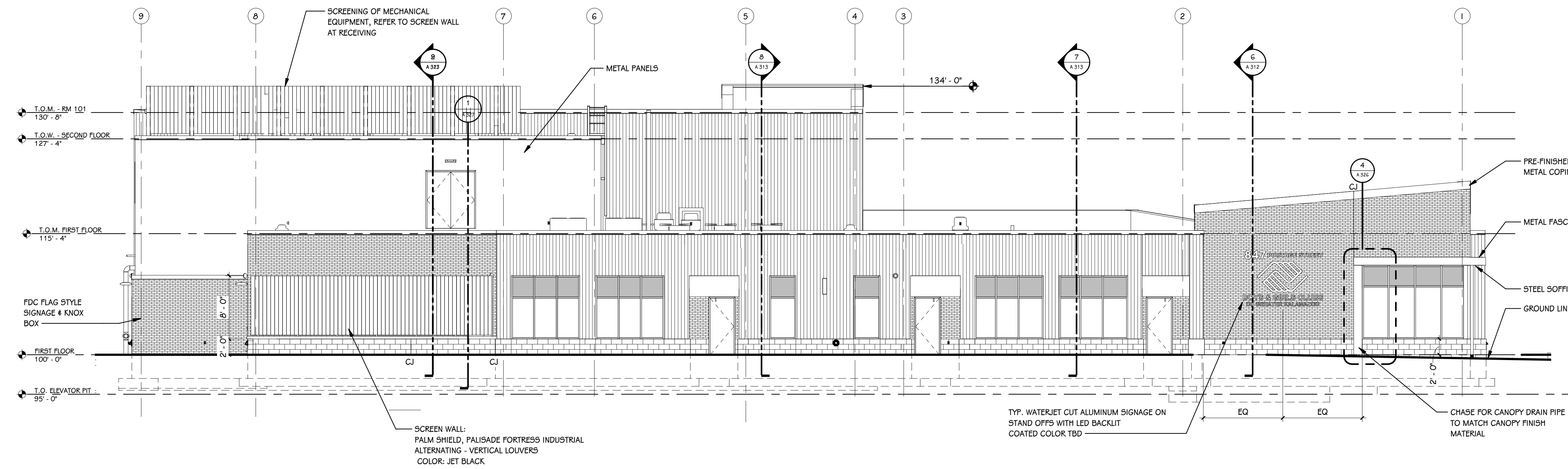
**EXTERIOR ELEVATION KEY**

-  STEEL SIDING  
BASIS OF DESIGN: MAC METAL ARCHITECTURAL HARRYWOOD  
COLOR: CORK, MHGC 1780
-  FORMED METAL WALL PANELS  
BASIS OF DESIGN - CENTRAL CONCEALED FASTENER PANELS  
IW RAINSCREEN SERIES, IW-11A  
COLOR: 9955 BLUE EFFECT COATINGS
-  BRICK 1  
GLEN-GERY, MODULAR RUNNING BOND  
COLOR: TITANIUM METALLIC  
MORTAR: SOLCOMEN COLORS: WHITE 60H
-  DCMU  
CONSUMERS CONCRETE  
RUNNING BOND, SPLIT-FACE BLOCK - 4' X 16"  
COLOR: OBSIDIAN  
MORTAR: TBD
-  GLAZING (IG-1) - IN ALUMINUM STOREFRONT SYSTEMS  
LOW-E COATED, CLEAR INSULATING GLASS
-  GLAZING (IG-2) - IN ALUMINUM STOREFRONT SYSTEMS  
PROPRIETARY COATED, BACK PAINTED, INSULATING SPANDREL GLASS
-  GLAZING (IG-3) - MULTI-PURPOSE ROOM EXTERIOR  
IMPACT RESISTANT LAMINATED INSULATING GLASS
-  ALUMINUM STOREFRONT SYSTEMS  
TRIFAB VERSAGLAZE 601 FRAMING SYSTEM  
COLOR: BLACK ANODIZED
-  CURTAIN WALL  
KAWNEER SYSTEM  
COLOR: BLACK ANODIZED
-  PRE-FINISHED METAL COPING - TYP. (CANOPY COPING DIFFERS)
-  ROOF EDGE SYSTEM  
COLOR: MATTE BLACK
-  METAL FASCIA - TYP.  
MCELROY METAL PANELS  
COLOR: BONE WHITE
-  METAL STEEL SOFFIT - TYP.  
MAC METAL ARCHITECTURAL HARRYWOOD VENTED  
COLOR: CORK, MHGC 1780

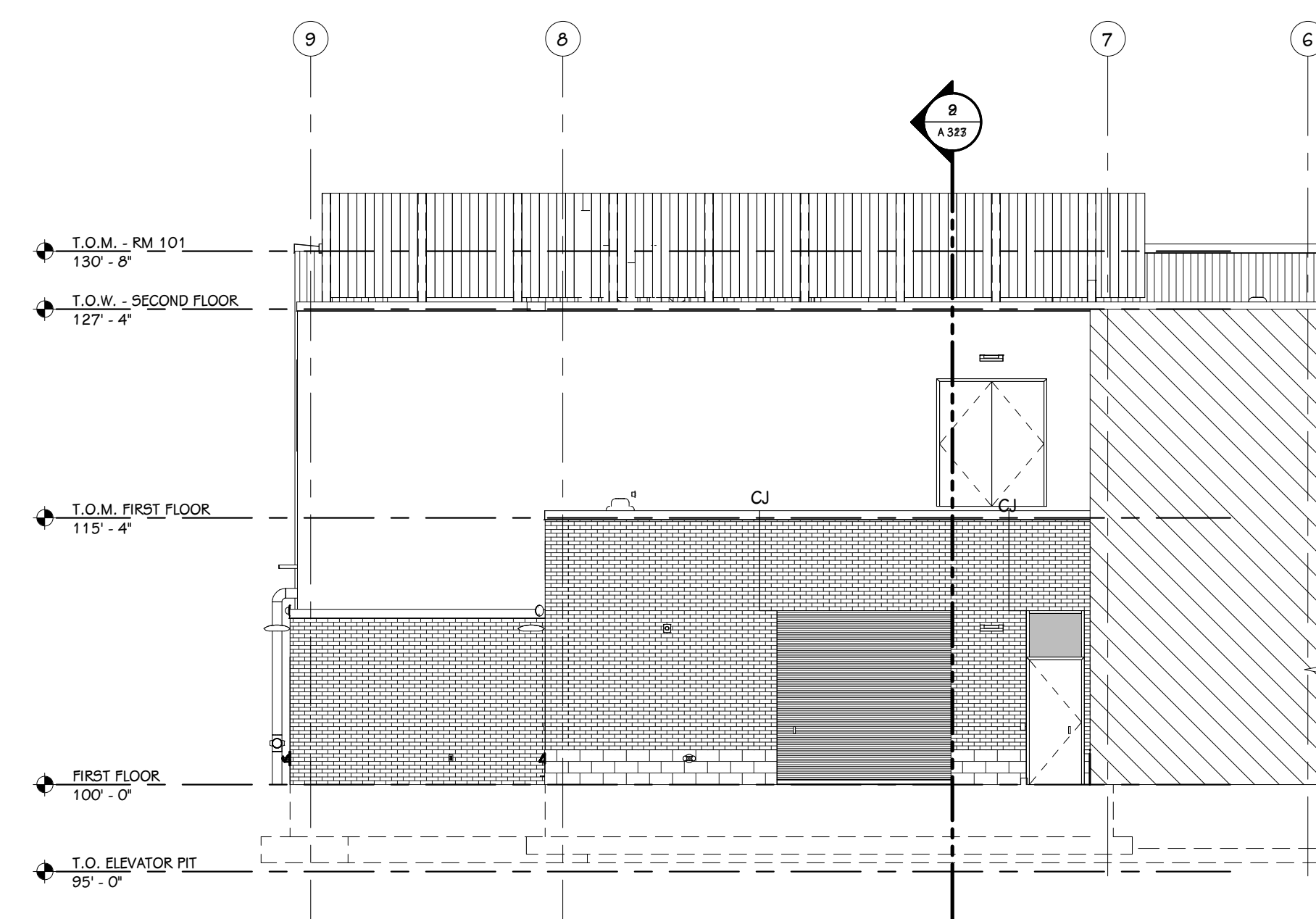
CJ = CONTROL JOINT, COLOR: PLAIN NATURAL  
FOR CONTROL JOINTS IN STRUCTURAL WALL, REFER TO STRUCTURAL

EJ - BUILDING EXPANSION JOINT, COLOR: TBD  
PROVIDE EXPANSION JOINT BETWEEN DIFFERENT MATERIALS

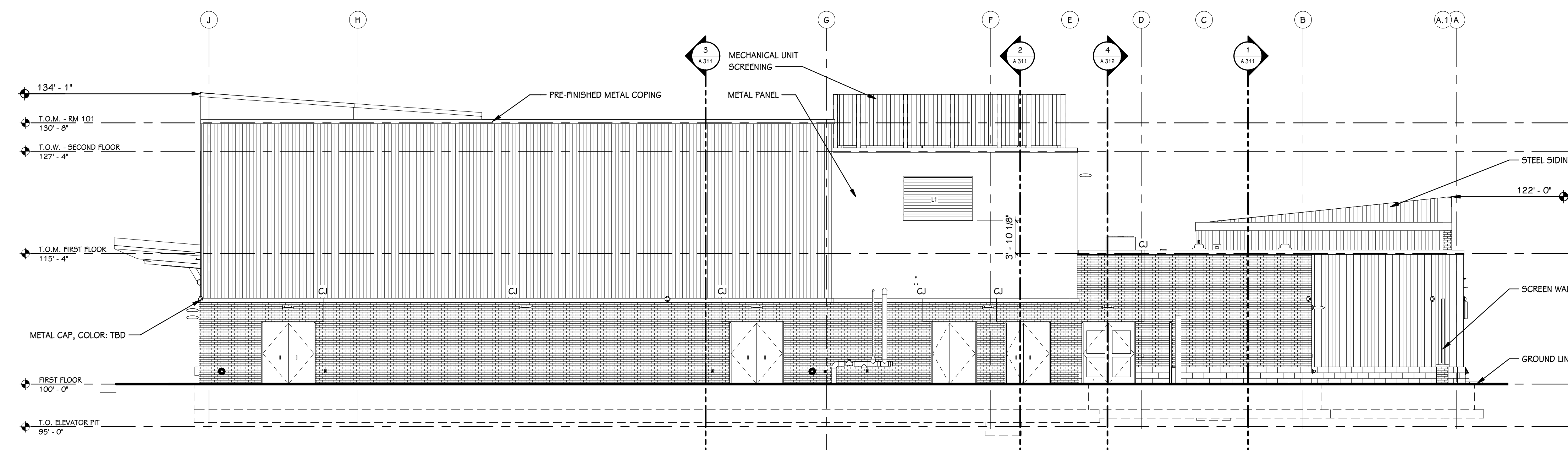
- NOTES:**
- EXTERIOR ELECTRICAL FIXTURES TO BE MOUNTED TO OUTERMOST FACE OF STEEL SIDING # FORMED METAL PANELS
  - BUILDING TRANSPARENCY PORTAGE STREET: 55%
  - BUILDING TRANSPARENCY VINE STREET: 30%
  - \*MEASURED BETWEEN 2' TO 8' ABOVE GROUND LINE.



**D NORTH ELEVATION**  
1/8" = 1'-0"

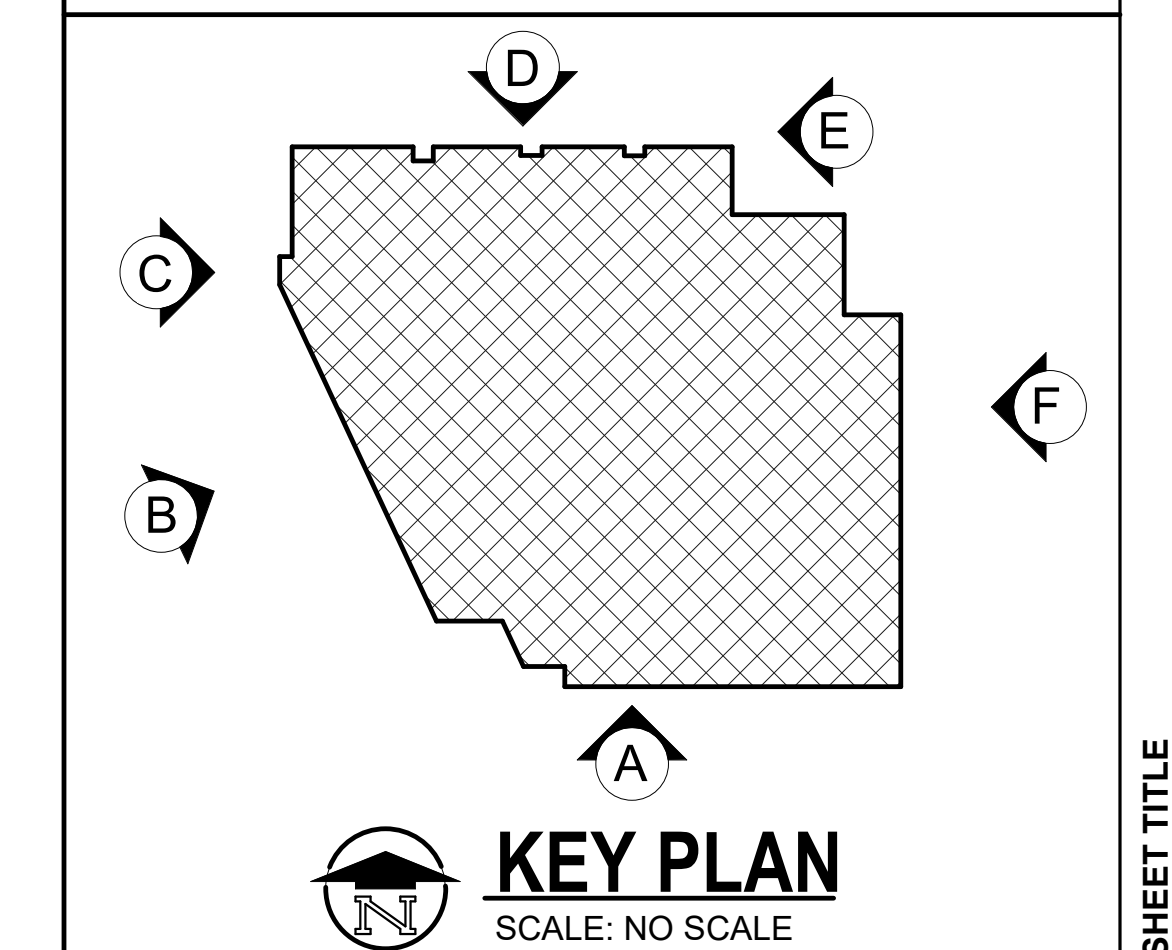


**E NORTH ELEVATION - RECEIVING**  
1/8" = 1'-0"



**F EAST ELEVATION**  
1/8" = 1'-0"

**BOYS & GIRLS CLUB OF GREATER KALAMAZOO**



ISSUED FOR DATE

PROJECT TITLE  
**BOYS & GIRLS CLUBS NEW FACILITY**

OWNER  
**BOYS & GIRLS CLUBS OF GREATER KALAMAZOO**

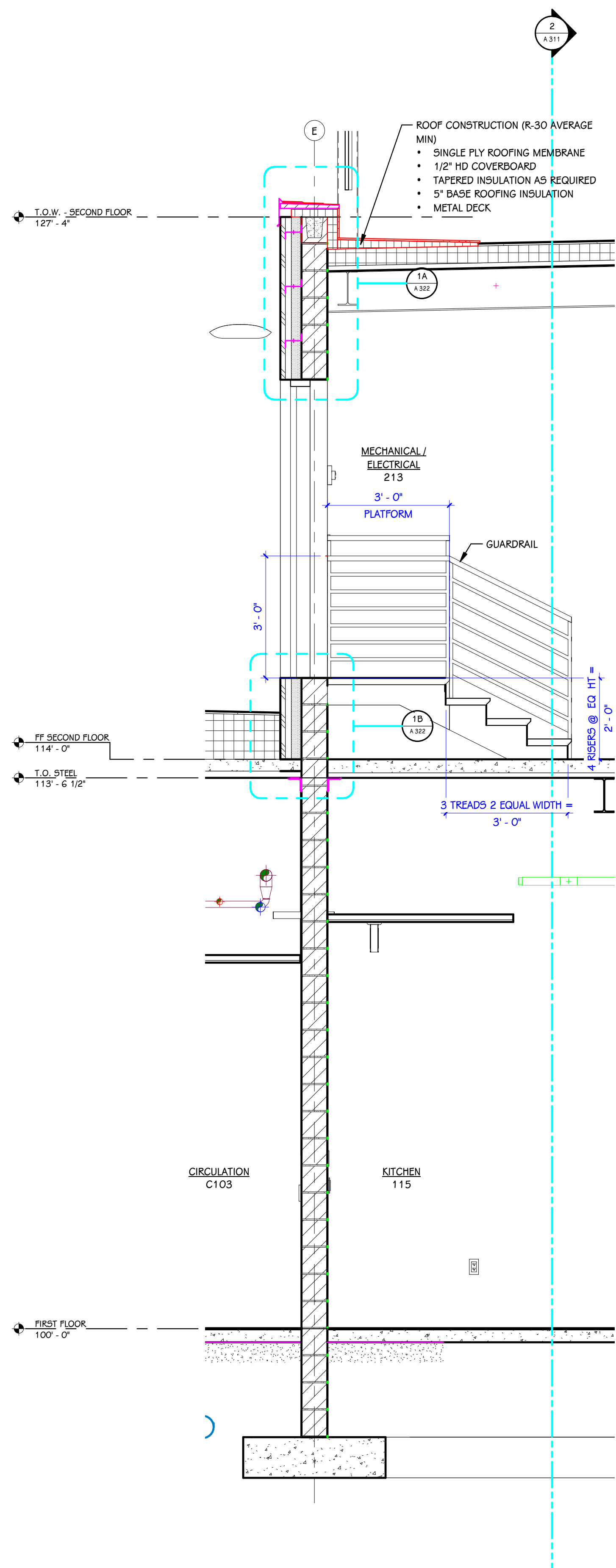
Kalamazoo, Michigan

SHEET TITLE  
**EXTERIOR ELEVATIONS**

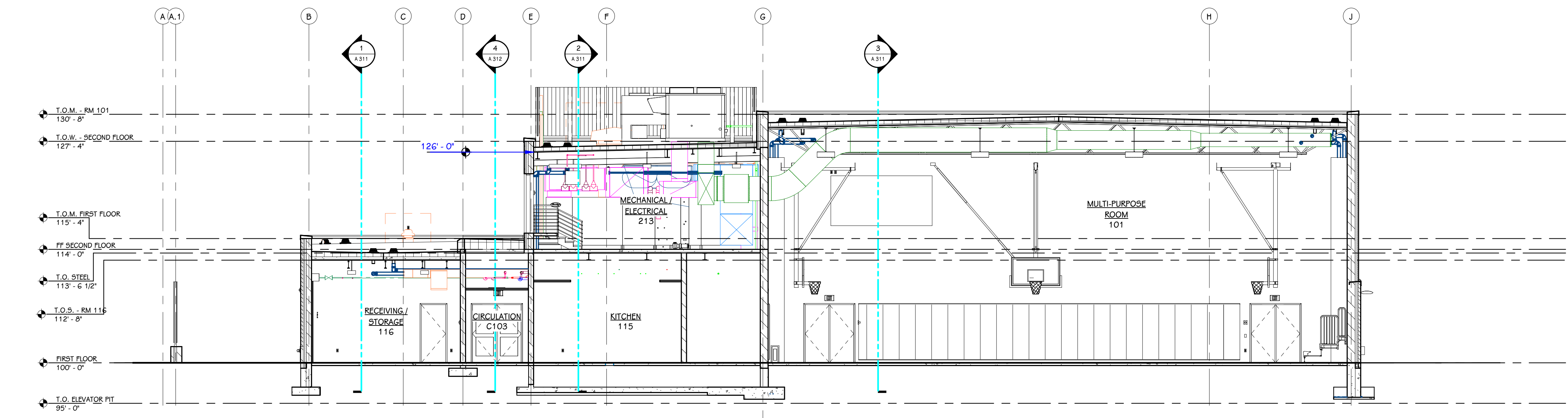
DATE  
**FEBRUARY 16, 2024**

SHEET NUMBER  
**A 302**  
22-126

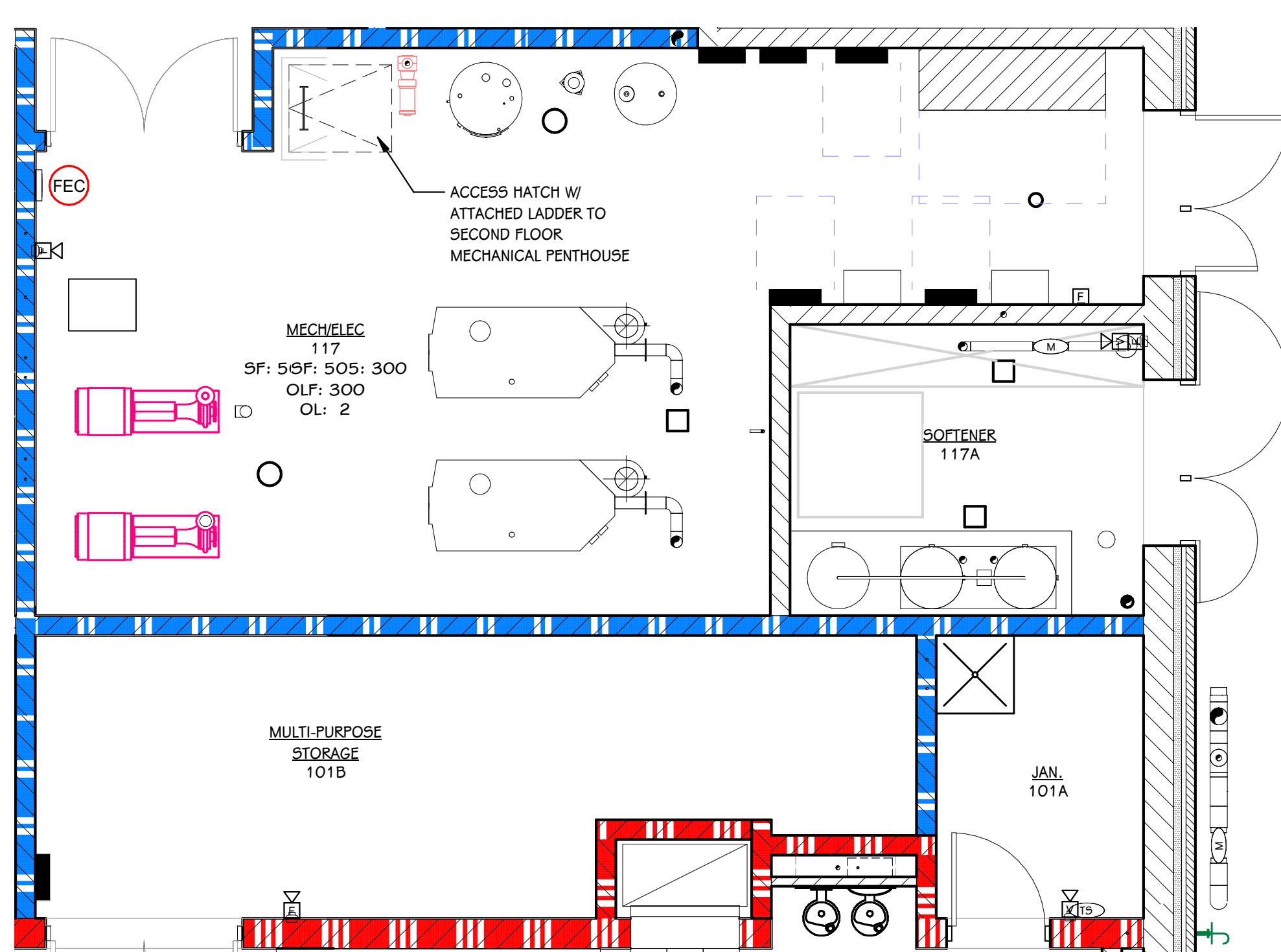




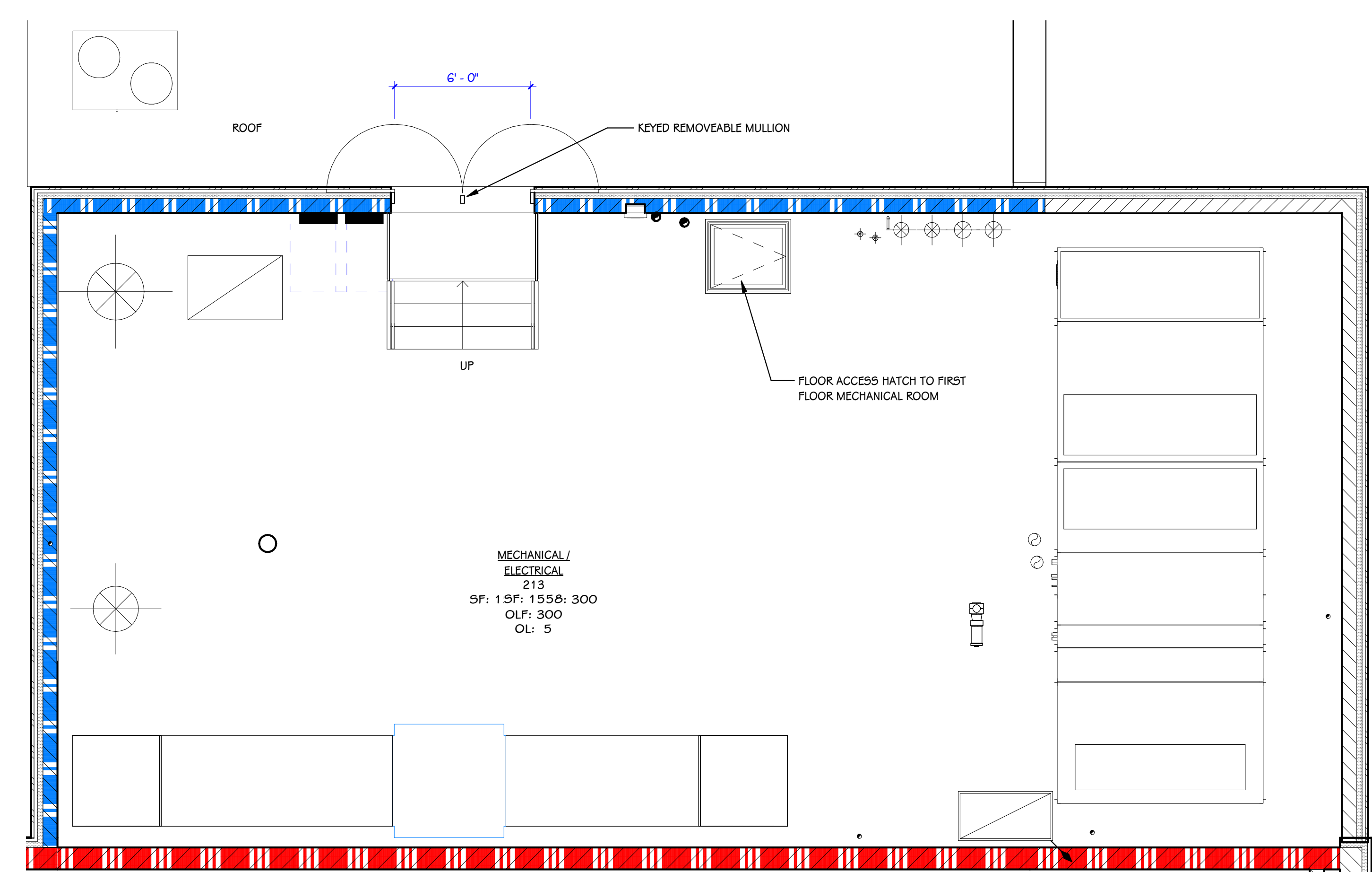
1 WALL SECTION  
@ MECHANICAL ROOM EGRESS  
1/2" = 1'-0"



2 BUILDING SECTION 9  
1/8" = 1'-0"

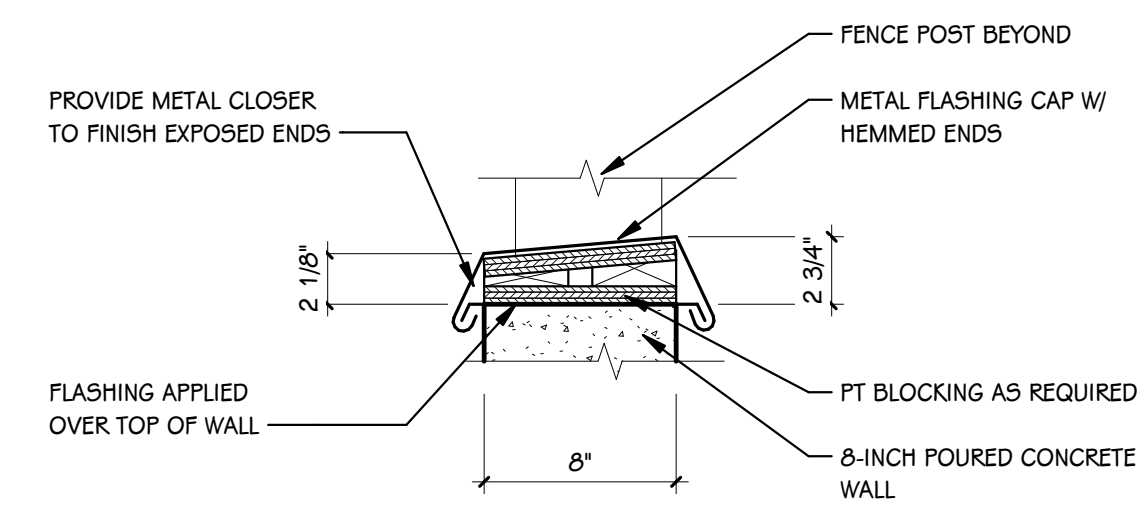


3 FIRST FLOOR MECHANICAL - CODE COMPLIANCE PLAN  
1/4" = 1'-0"

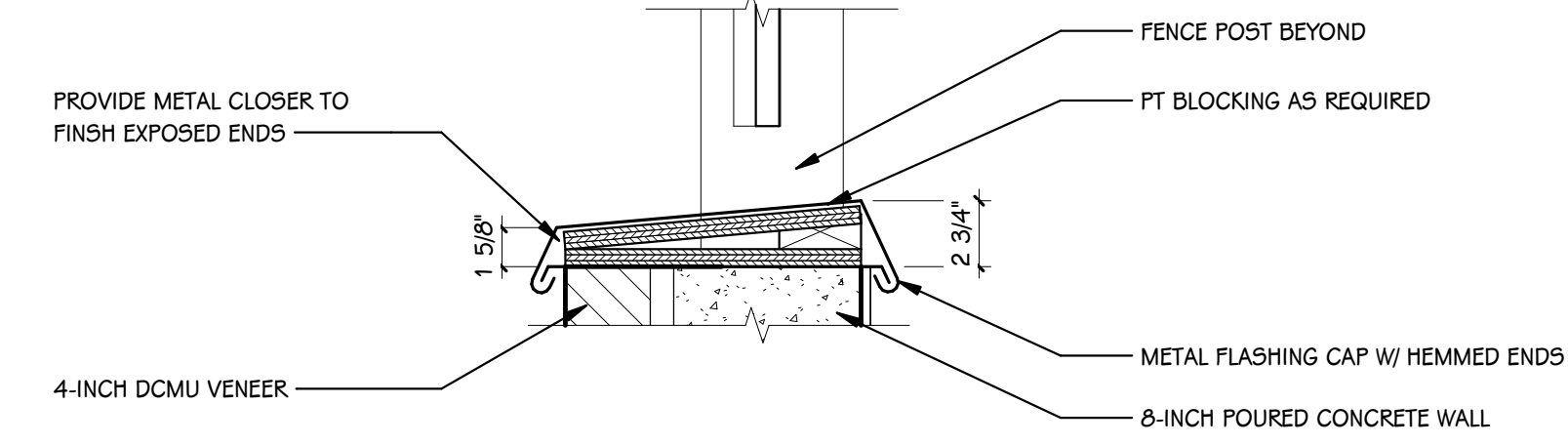


4 MECHANICAL PENTHOUSE CODE COMPLIANCE PLAN  
1/4" = 1'-0"

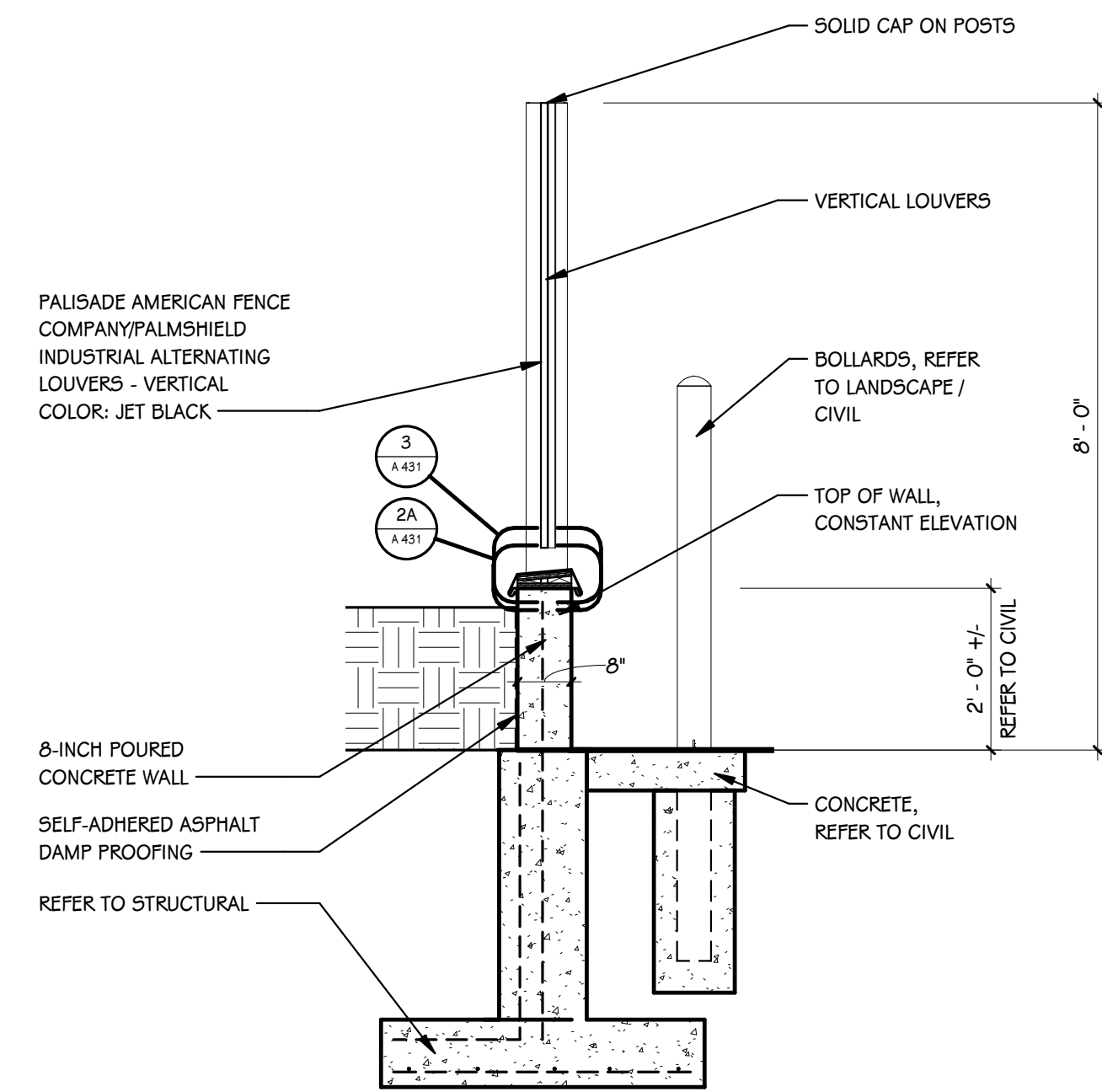




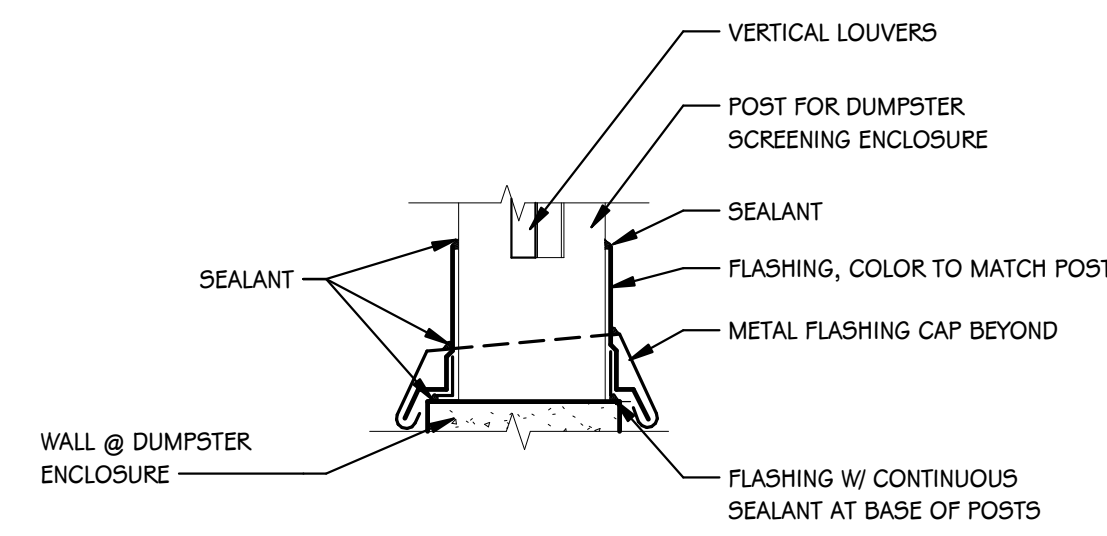
**METAL FLASHING / CAP  
- RETAINING WALL**  
2A  
A.431 1/2" = 1'-0"



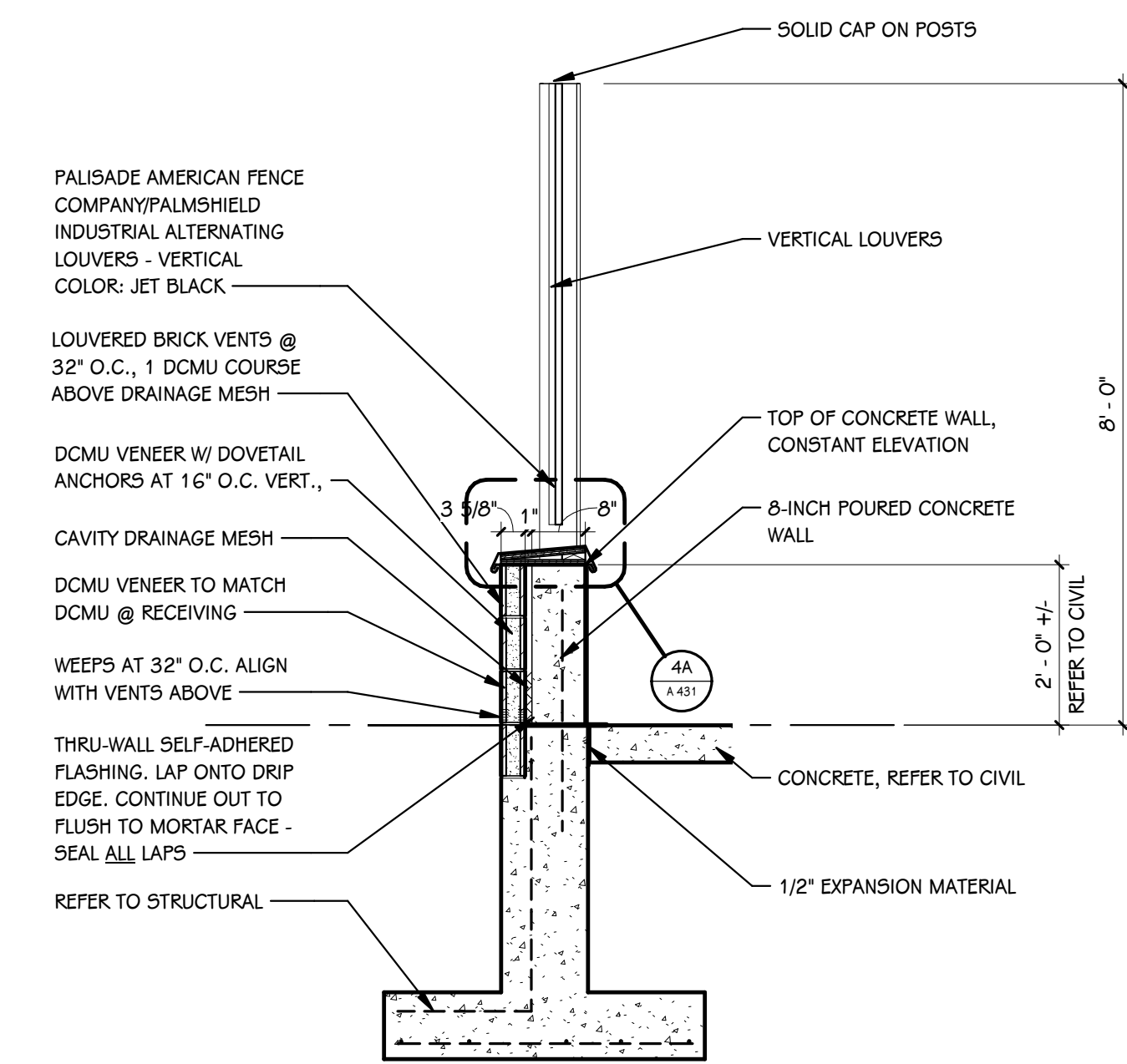
**METAL FLASHING / CAP  
- DUMPSTER ENCLOSURE**  
4A  
A.431 1/2" = 1'-0"



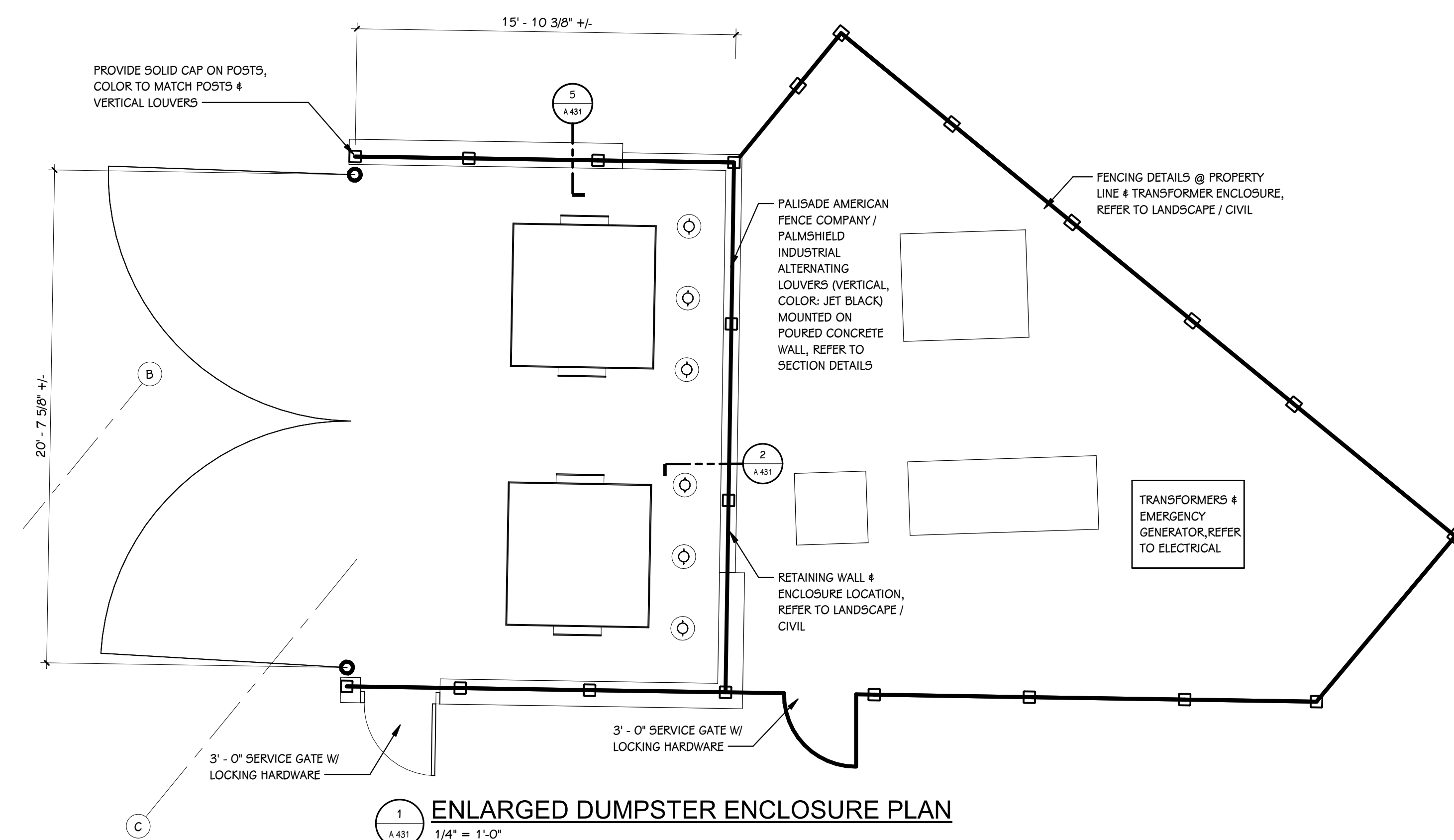
**DUMPSTER ENCLOSURE @ RETAINING WALL**  
2  
A.431 1/2" = 1'-0"



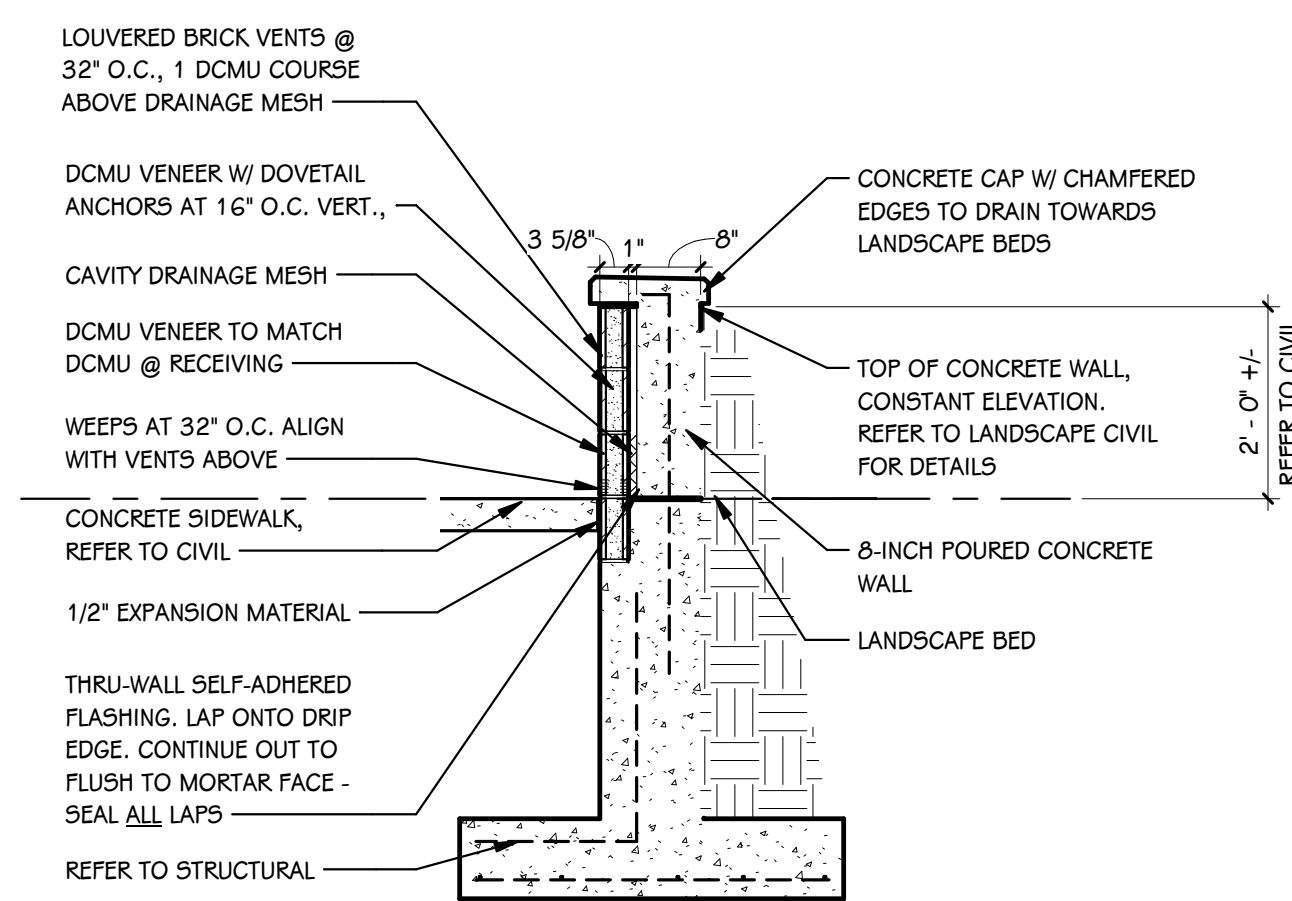
**POSTS DETAIL  
@ DUMPSTER ENCLOSURE**  
3  
A.431 1/2" = 1'-0"



**DUMPSTER ENCLOSURE @ EXPOSED DCMU**  
4  
A.431 1/2" = 1'-0"

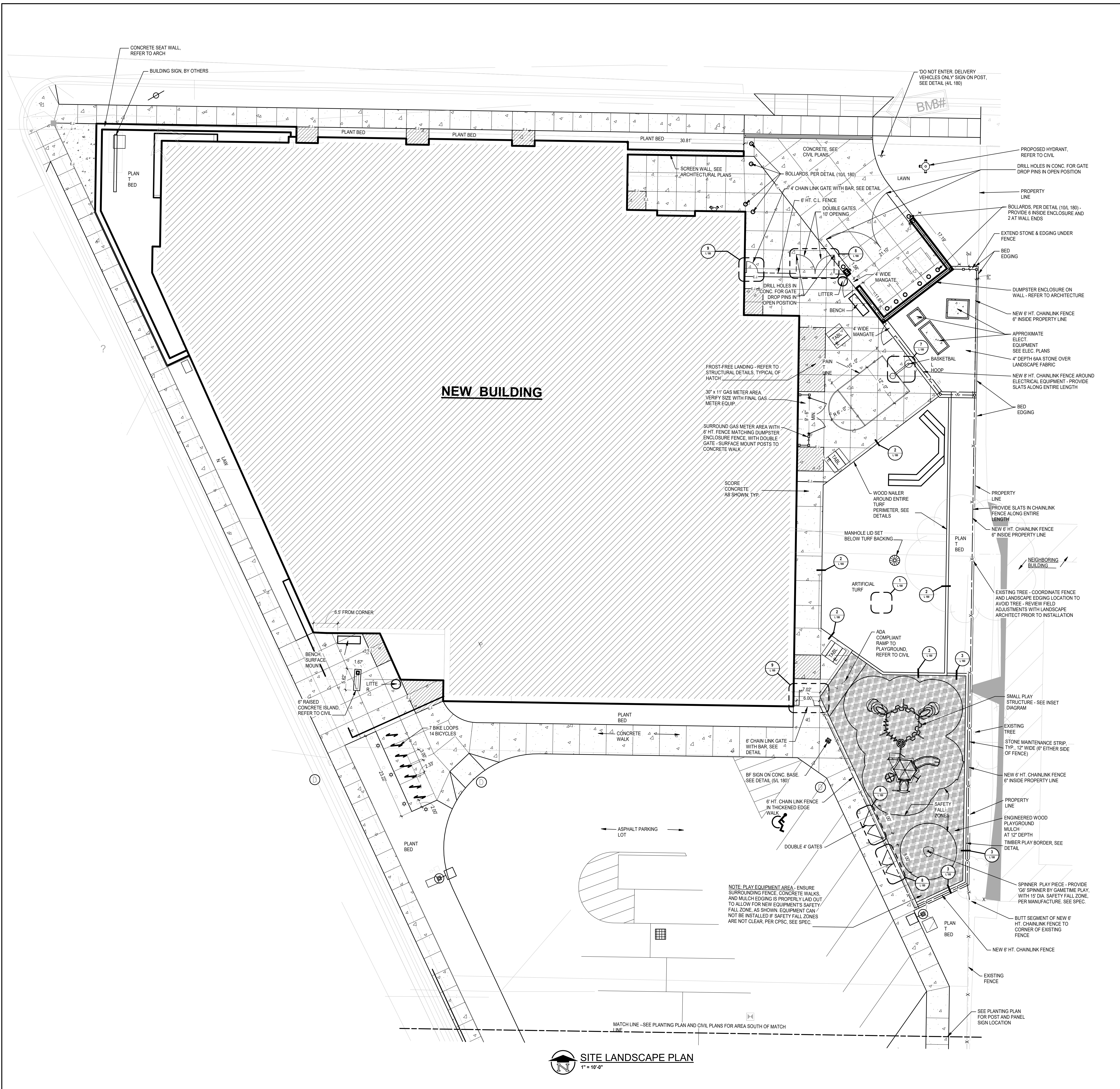


**ENLARGED DUMPSTER ENCLOSURE PLAN**  
1  
A.431 1/4" = 1'-0"

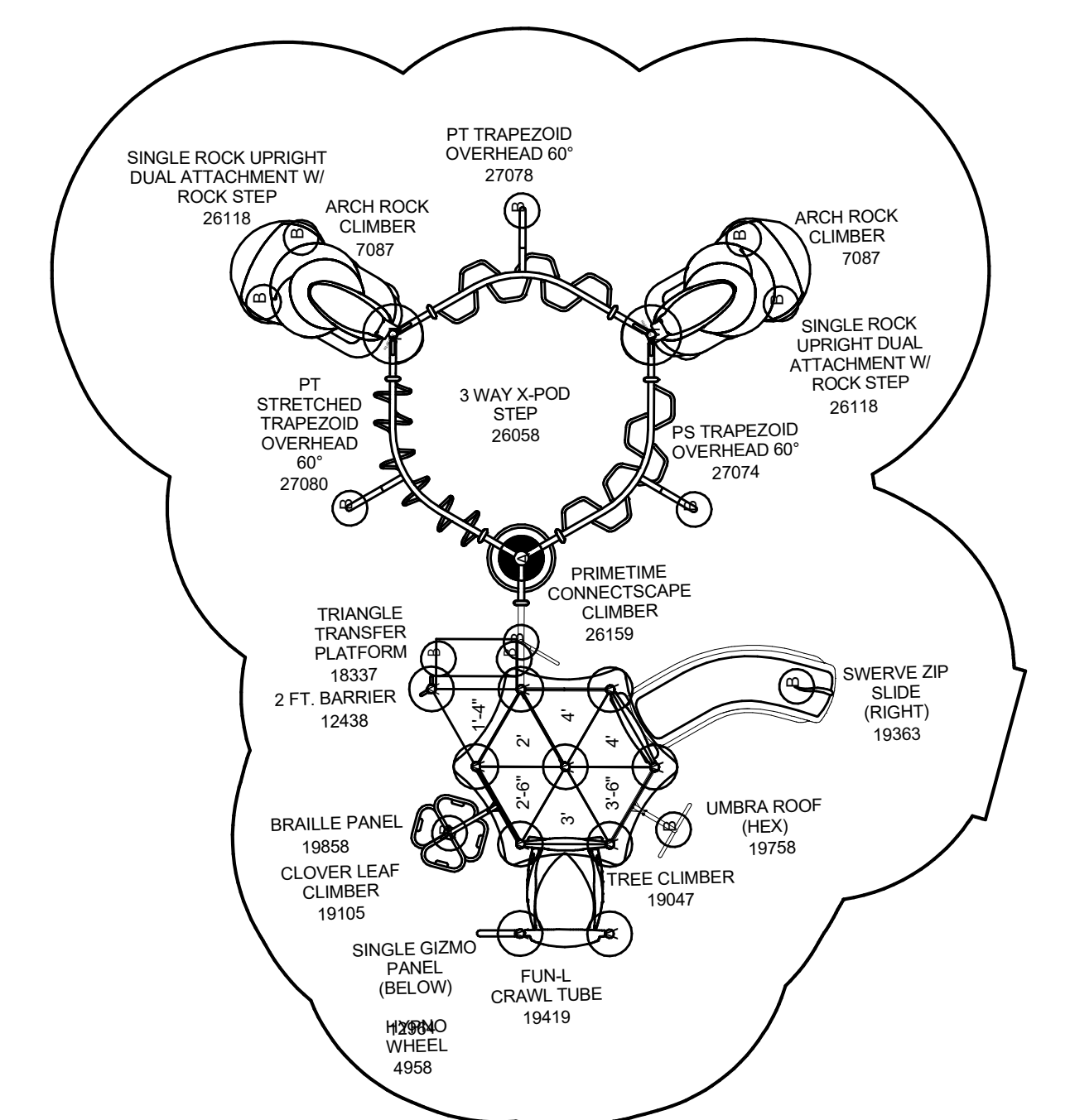
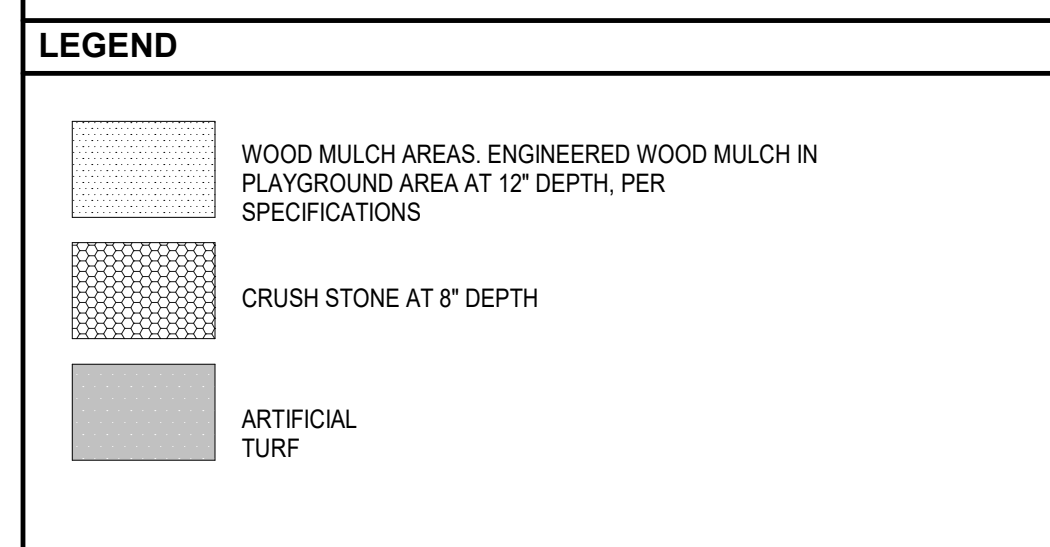


**RETAINING WALL DETAIL @ LANDSCAPE BED**  
5  
A.431 1/2" = 1'-0"





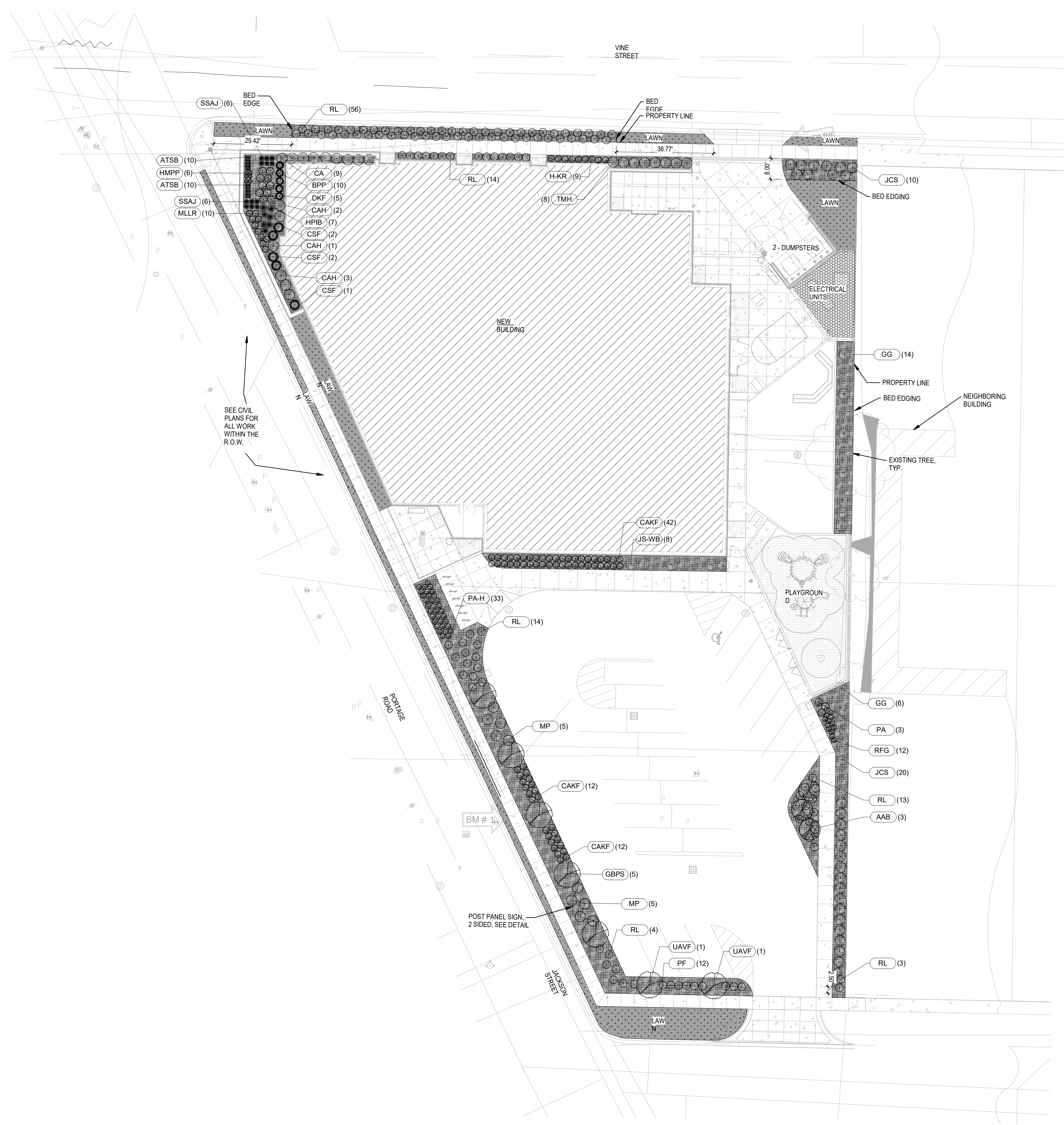
- LANDSCAPE NOTES**
1. SCARIFY ALL SUBSOILS PRIOR TO PLACING TOPSOILS AND PLANTING SOILS. TEST ALL TOPSOIL PER SPECIFICATIONS.
  2. GUY AND STAKE ALL TREES AND MULCH PER DETAILS. INSTALL WATER BAGS ON ALL TREES. REMOVE BAGS AND GUY STAKES AFTER WARRANTY PERIOD.
  3. BACKFILL ALL TREES, SHRUB AND PLANT BEDS WITH PLANTING SOIL PER SPECIFICATIONS AND DETAILS.
  4. PROVIDE TEMPORARY WATERING SYSTEM AS REQUIRED TO ESTABLISH LAWN PER SPECIFICATIONS.
  5. INSTALL SHREDDED BARK MULCH IN ALL PLANT BEDS AT 3" COMPACTED DEPTH OR AS NOTED OR DETAILED.
  6. DO NOT SCAR NEW CONCRETE WITH LANDSCAPE EQUIPMENT, INCLUDING RUBBER TIRE TRACK MARKS ON NEW PAVEMENT.



**SITE LANDSCAPE PLAN**  
1" = 10'-0"

**SMALL PLAY STRUCTURE EQUIPMENT DIAGRAM**  
3/16" = 1'-0"





**PLANTING PLAN**  
1" = 20'-0"

**LANDSCAPE NOTES**

1. SCARIFY ALL SUBSOILS PRIOR TO PLACING TOPSOILS AND PLANTING SOILS. TEST ALL TOPSOIL PER SPECIFICATIONS.
2. GUY AND STAKE ALL TREES AND MULCH PER DETAILS. INSTALL WATER BAGS ON ALL TREES. REMOVE BAGS AND GUY STAKES AFTER WARRANTY PERIOD.
3. BACKFILL ALL TREES, SHRUB AND PLANT BEDS WITH PLANTING SOIL PER SPECIFICATIONS AND DETAILS.
4. PROVIDE TEMPORARY WATERING SYSTEM AS REQUIRED TO ESTABLISH LAWN PER SPECIFICATIONS.
5. INSTALL SHREDDED BARK MULCH IN ALL PLANT BEDS AT 3" COMPACTED DEPTH OR AS NOTED OR DETAILED.
6. DO NOT SCAR NEW CONCRETE WITH LANDSCAPE EQUIPMENT, INCLUDING RUBBER TIRE TRACK MARKS ON NEW PAVEMENT.

**LEGEND**

- WOOD MULCH AREAS. ENGINEERED WOOD MULCH IN PLAYGROUND AREA AT 12" DEPTH, PER SPECIFICATIONS
- CRUSH STONE AT 8" DEPTH
- ARTIFICIAL TURF

**PLANTING SCHEDULE**

ID	QTY	SCIENTIFIC NAME	COMMON NAME	PLANT SIZE	SPACING	COMMENTS
<b>DECIDUOUS TREE</b>						
GBPS	5	GINKGO BILOBA 'PRINCETON SENTRY'	GINKGO TREE	3" CALIPER		
UAVF	12	ULMUS AMERICANA 'VALLEY FORGE'	AMERICAN ELM	3" CALIPER		NATIVE
<b>EVERGREEN TREE</b>						
GG	20	THUJA 'GREEN GIANT'	GREEN GIANT ARBORVITAE	6'-0" HT.	5'-0" O.C.	
JCS	31	JUNIPERUS CHINENSIS 'SPARTAN'	SPARTAN JUNIPER	6'-0" HT.	4'-0" O.C.	
JS-WB	8	JUNIPERUS SCOPULORUM 'WICHITA BLUE'	WICHITA BLUE JUNIPER	6'-0" x 8'-0" HT.	6'-0" O.C.	
<b>ORNAMENTAL TREE</b>						
AAB	3	'AMERLANCHIER X GRANDIFLORA' 'AUTUMN BRILLIANCE'	MULTITRUNK AUTUMN BRILLIANCE SERVICEBERRY	8'-0"-10'-0" HT.		NATIVE
<b>PERENNIAL</b>						
ATSB	20	ALLIUM TANGUTICUM 'SUMMER BEAUTY'	SUMER BEAUTY ALLIUM	1 GAL.	1'-0" O.C.	
CAKF	66	CALLIAGROSIS X ACUTIFLORA 'KARL FOERSTER'	'KARL FOERSTER' FEATHER REED	1 GAL.	2'-0" O.C.	
H-KR	9	HOSTA 'KROSSA REGAL'	KROSSA REGAL HOSTA	1 GAL.	2'-0" O.C.	
HMPP	6	HEUCHERA MICRANTHA 'PALACE PURPLE'	PALACE PURPLE CORALBELLS	1 GAL.	1'-4" O.C.	
MLLR	10	MONARDA HYBRID 'LEADING LADY RAZZBERRY'	LEADING LADY RAZZBERRY BEE BALM	1 GAL.	2'-0" O.C.	NATIVE-CULTIVAR
PA	3	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	1 GAL.	3'-0" O.C.	
PAH	33	'PENSETUM ALPECUROIDES 'HAMELBY'	DWARF FOUNTAIN GRASS	1 GAL.	2'-0" O.C.	
RFG	12	RUDEBECKIA FULGIDA 'GOLDSTRUM'	BLACK EYED SUSAN	1 GAL.	1'-0" O.C.	NATIVE
SSAJ	12	SEDUM SPECTABILE 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL.	2'-0" O.C.	
<b>SHRUB</b>						
BPP	10	BUDDLEIA X RUGOSTER 'PINKER'	'PINKER' BUTTERFLY BUSH	3 GAL.	3'-0" O.C.	
CA	9	CELANOTHUS AMERICANUS	NEW JERSEY TEA	3 GAL.	4'-0" O.C.	NATIVE
CAH	6	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	3 GAL.	4'-0" O.C.	
CSF	5	CORNUS SERICEA 'FARROW'	ARTIC FIRE RED TWIG DOGWOOD	3 GAL.	4'-0" O.C.	NATIVE
DKF	5	DIERVILLA X KODIAK 'FRESH'	KODIAK FRESH HONEYSUCKLE	3 GAL.	3'-0" O.C.	
HPIB	7	HYDRANGEA PANICULATA 'ILVOBO'	ILVOBO HYDRANGEA	3 GAL.	3'-0" O.C.	
MP	10	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	3 GAL.	5'-0" O.C.	NATIVE
PF	9	POTENTILLA FRUTICOSA 'GOLDFINGER'	GOLDFINGER POTENTILLA	3 GAL.	3'-0" O.C.	NATIVE
RL	107	RHUS AROMATICA 'GRO LOW'	LOW SPREADING SUMAC	3 GAL.	4'-0" O.C.	NATIVE
TMH	8	TAXUS X MEDIA 'HICKSII'	HICKS YEW	3 GAL.	4'-0" O.C.	

**TowerPinkster**  
Architecture - Engineering - Interiors  
242 East Kalamazoo Avenue, Suite 100  
Kalamazoo, Michigan 49001  
269.343.6133  
616.456.9644  
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**PROJECT TITLE**  
BOYS AND GIRLS CLUB NEW FACILITY

**OWNER**  
BOYS & GIRLS CLUB OF GREATER KALAMAZOO  
Kalamazoo, Michigan

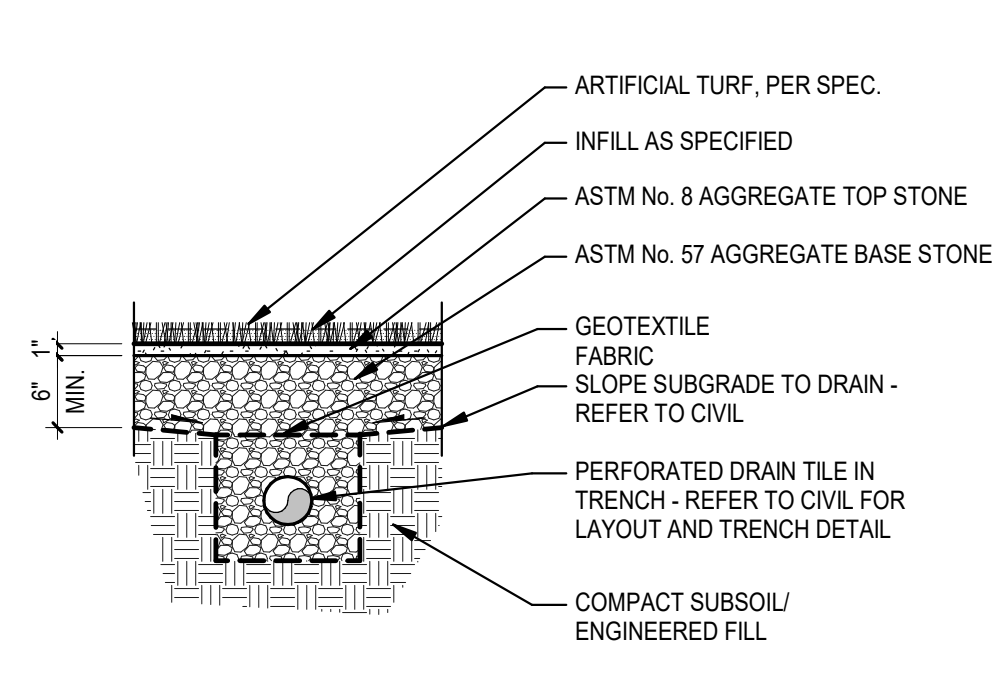
**SHEET TITLE**  
PLANTING PLAN

**DATE**  
FEBRUARY 16, 2024

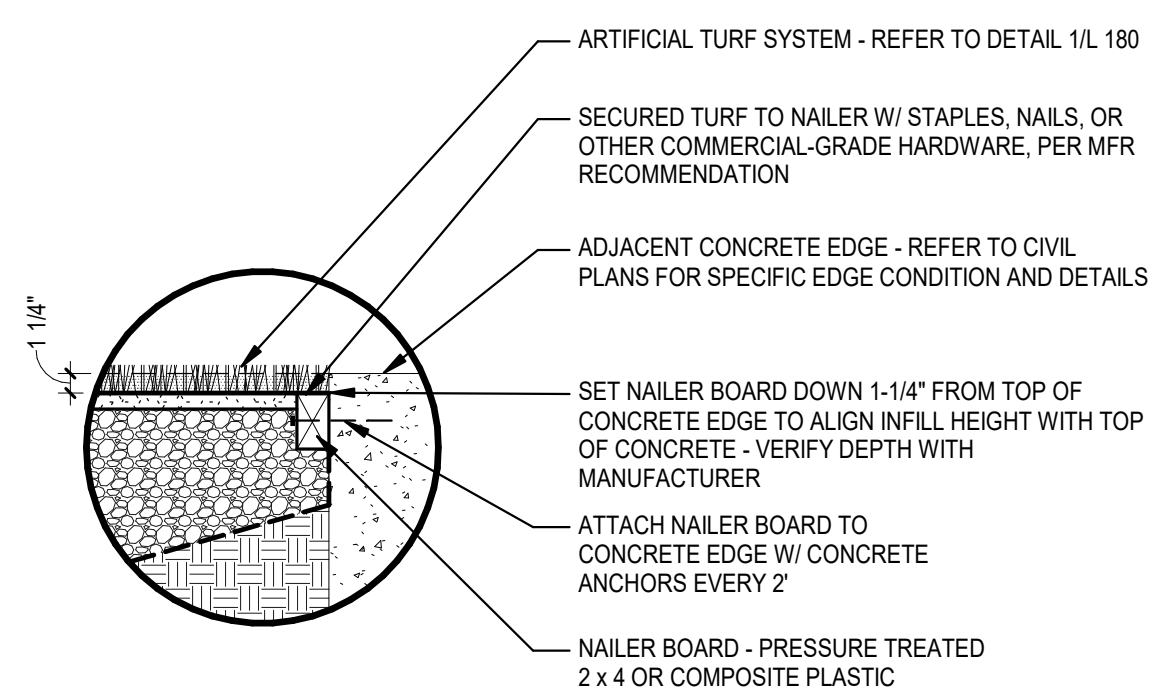
**SHEET NUMBER**  
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22-126.00

**ISSUED FOR** \_\_\_\_\_ **DATE** \_\_\_\_\_

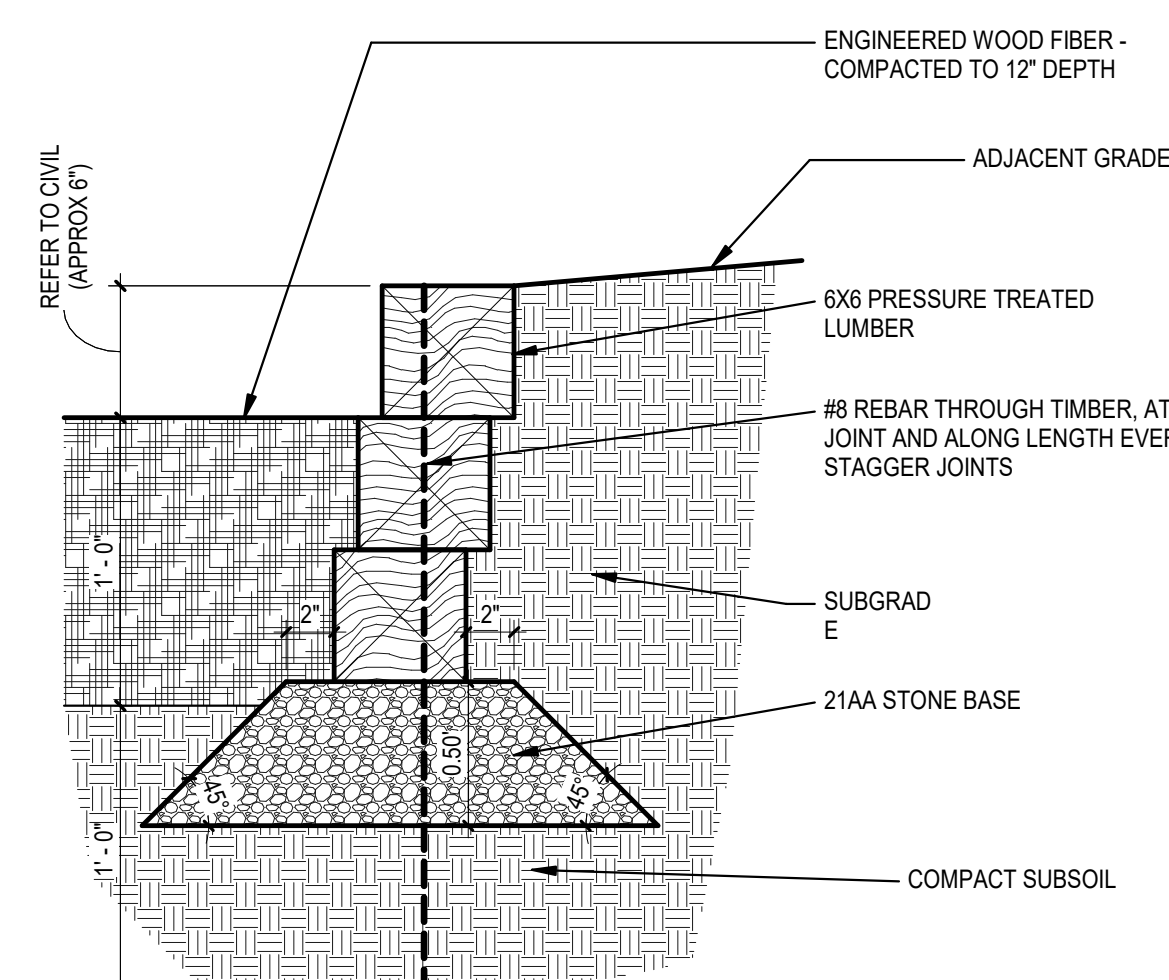




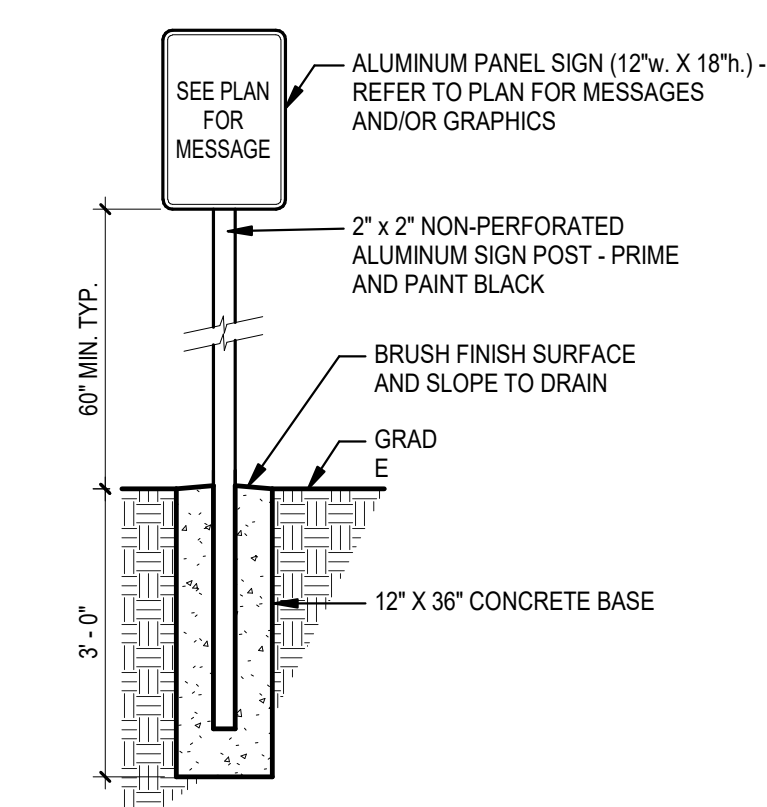
1 TURF SECTION, TYPICAL  
L1/8 3/4" = 1'-0"



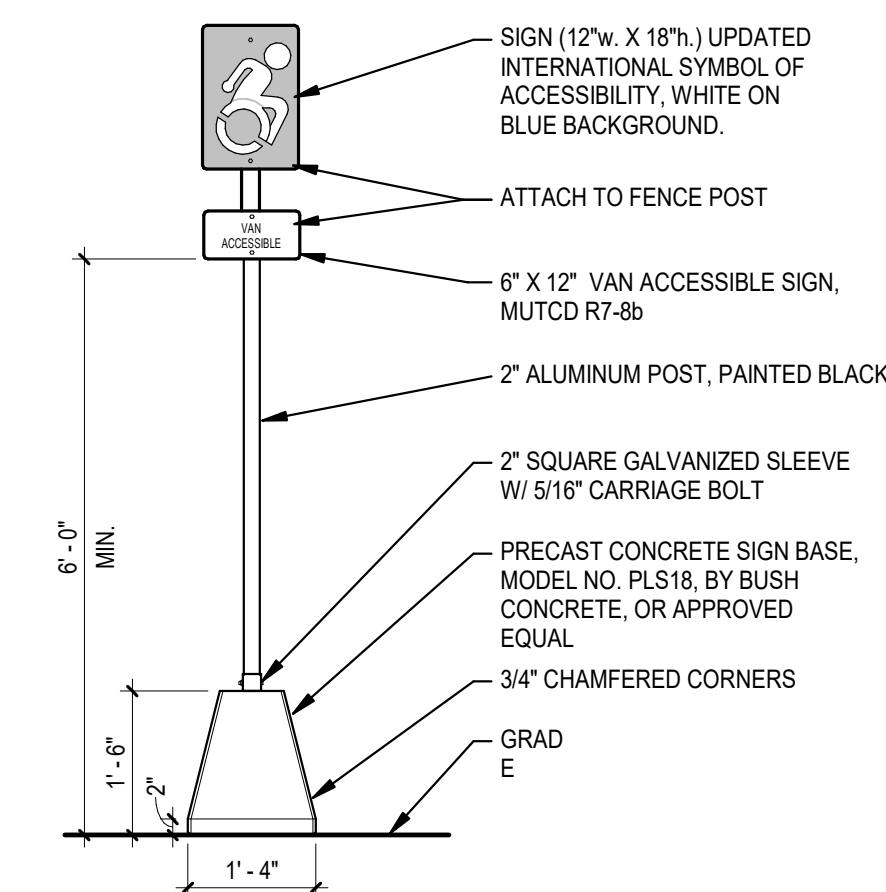
2 TURF NAILER, TYPICAL  
L1/8 1" = 1'-0"



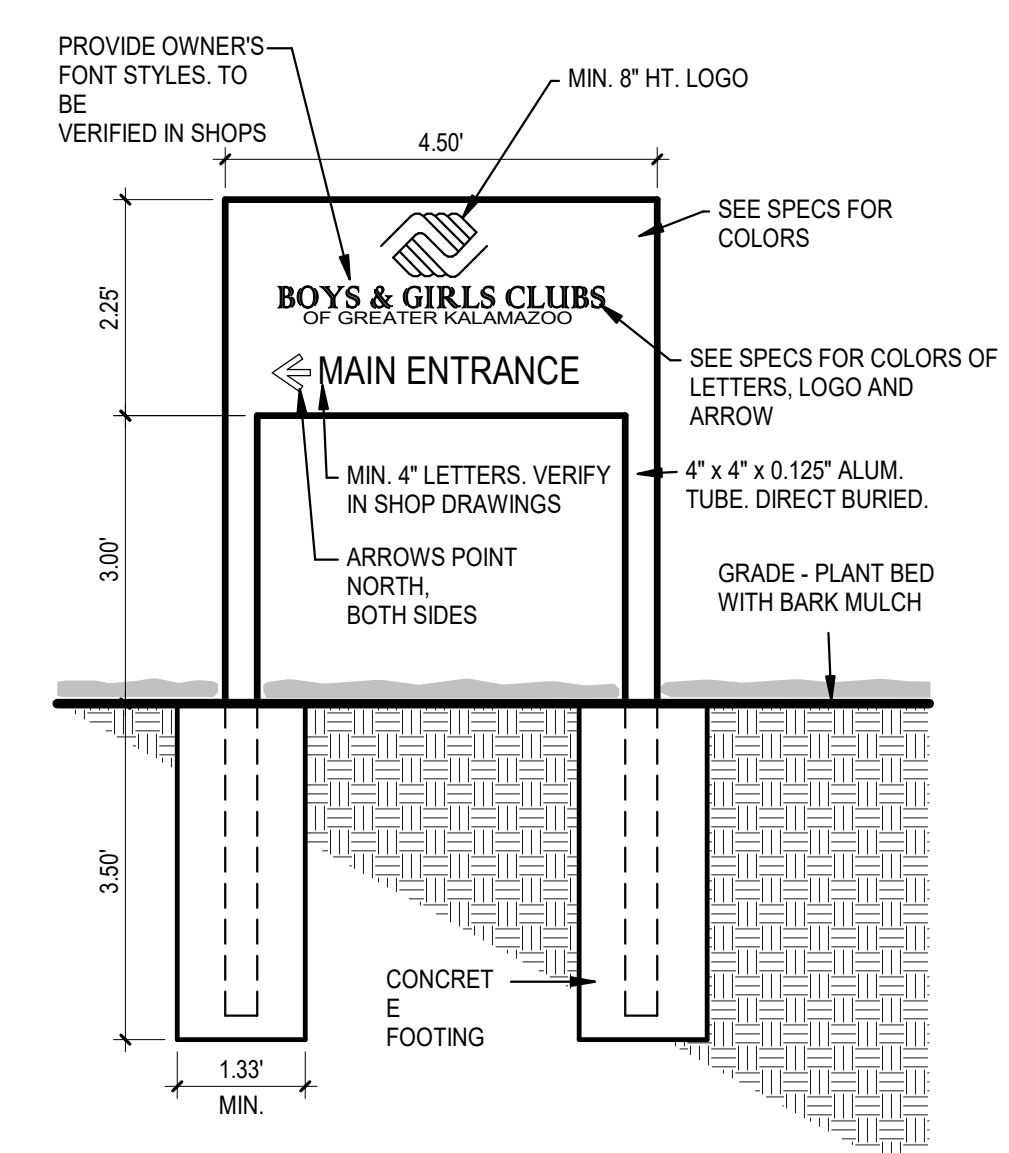
3 TIMBER PLAY BORDER SECTION  
L1/8 1 1/2" = 1'-0"



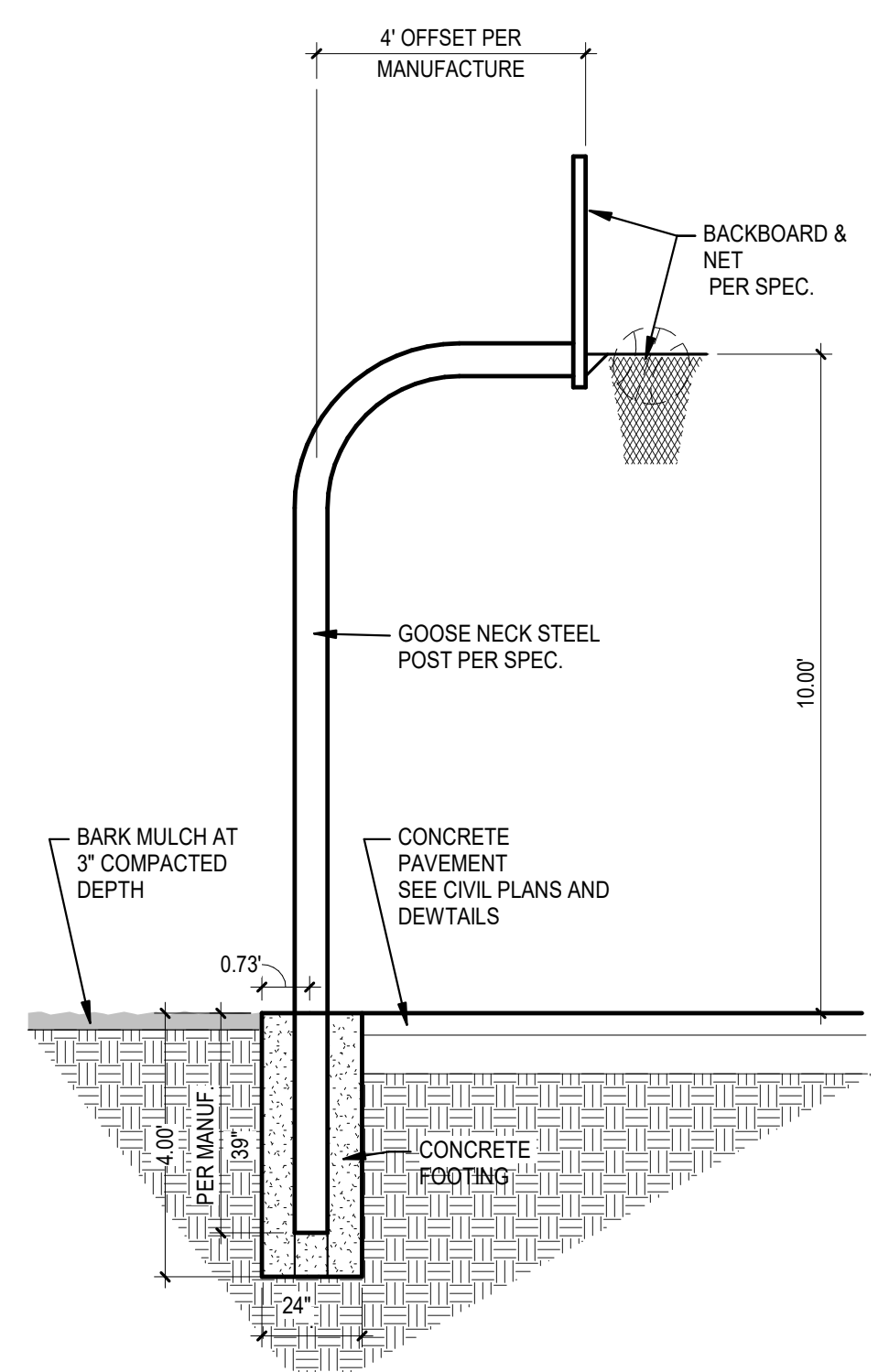
4 TYPICAL SIGN DETAIL  
L1/8 1/2" = 1'-0"



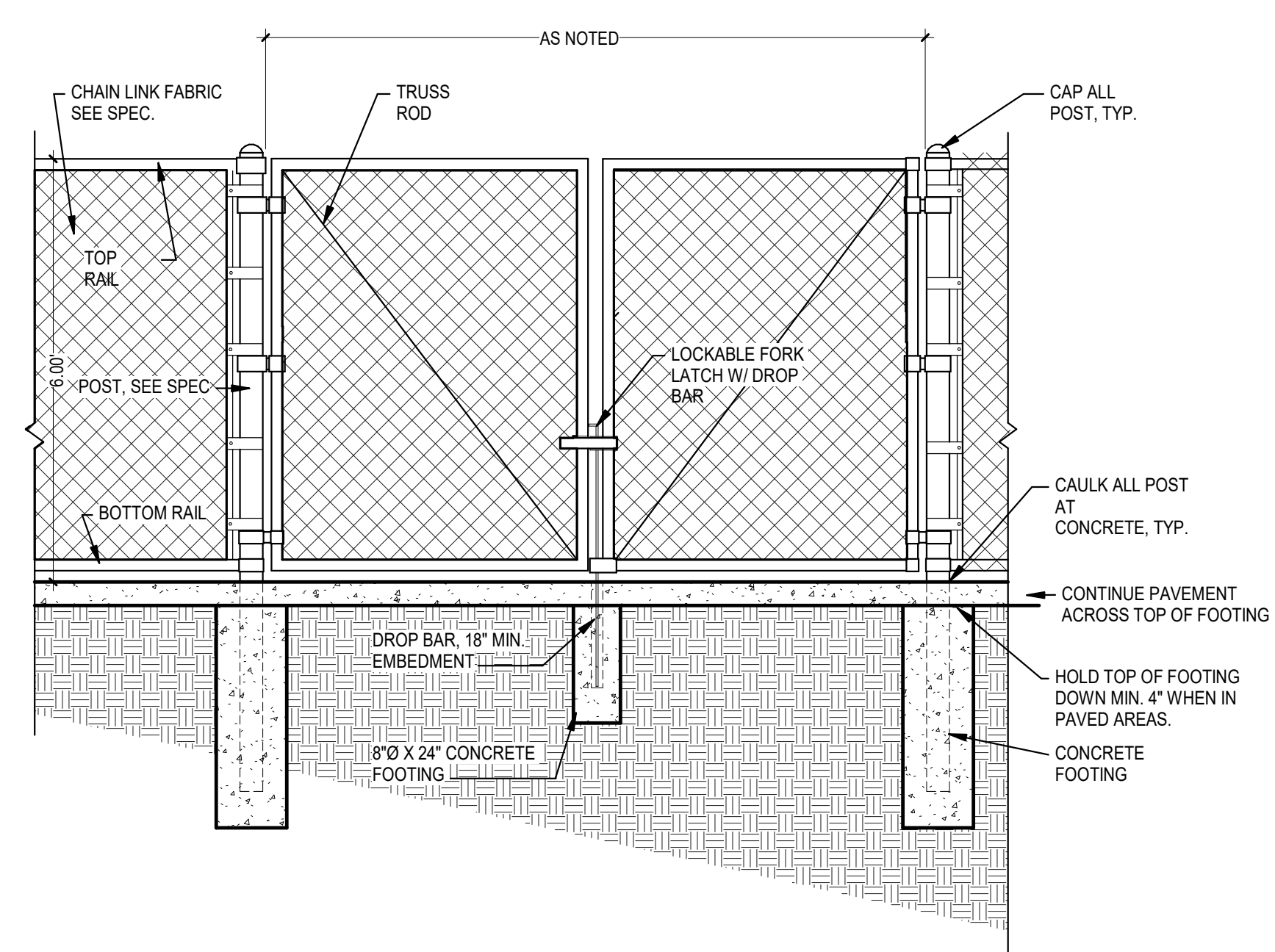
5 BARRIER FREE SIGN ON BASE  
L1/8 1/2" = 1'-0"



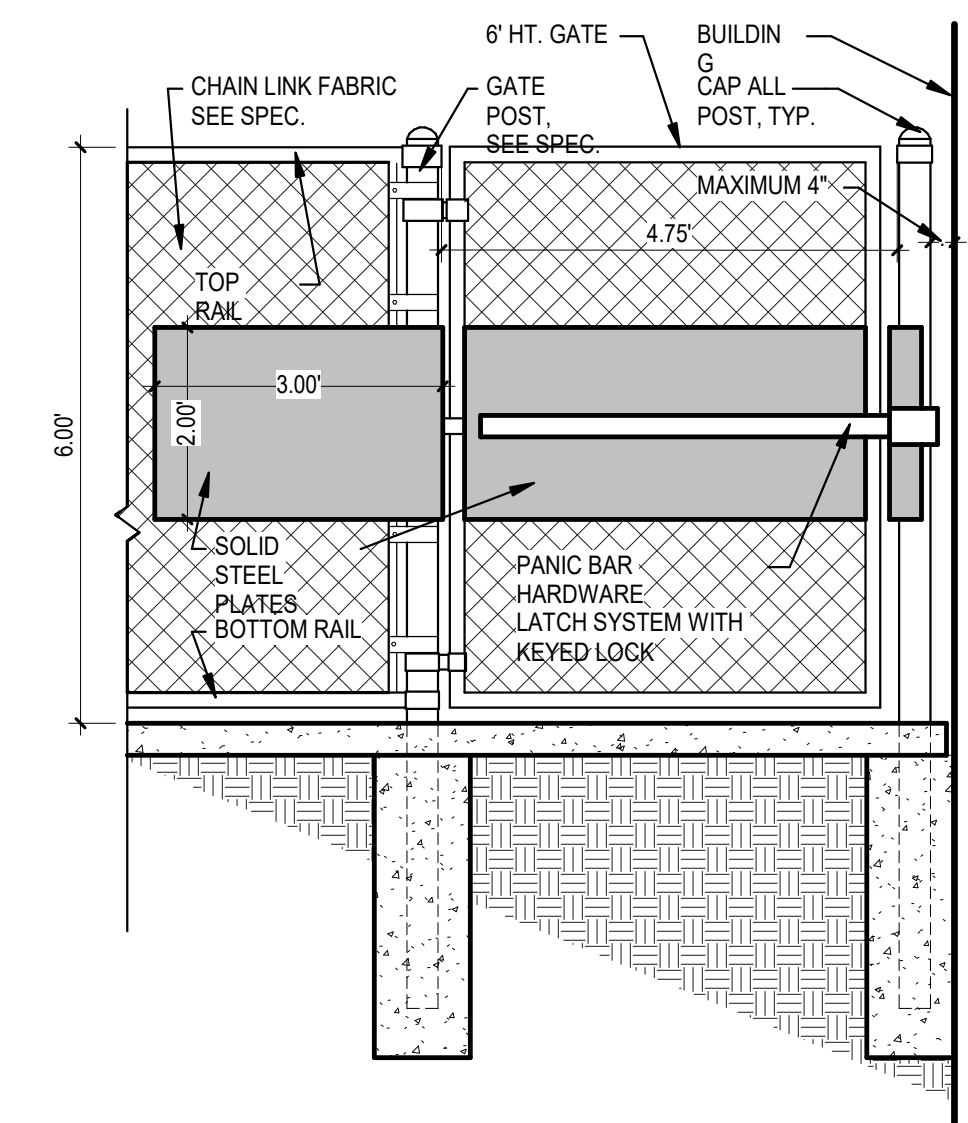
6 POST PANEL SIGN DETAIL  
L1/8 1/2" = 1'-0"



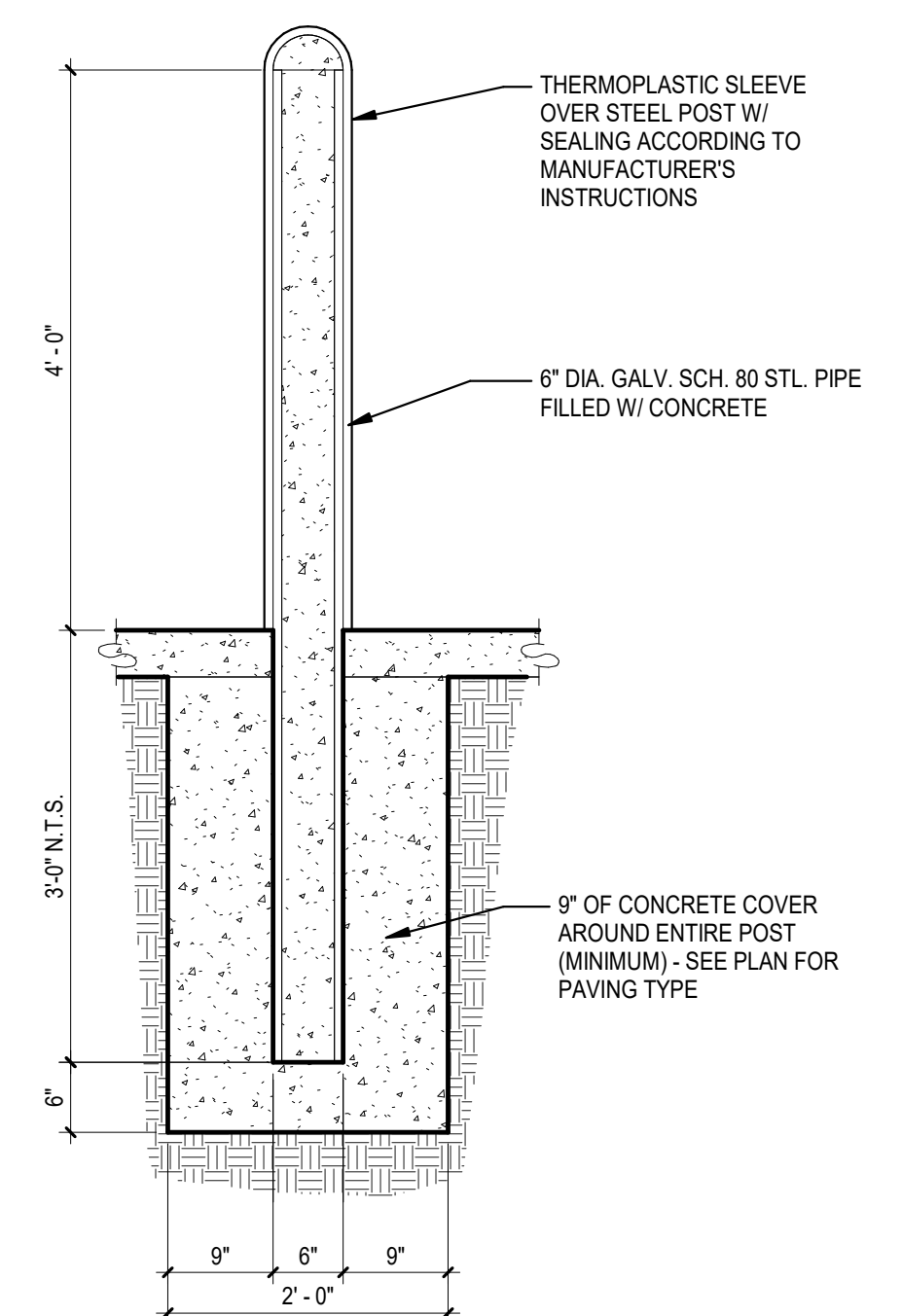
7 BASKETBALL GOAL  
L1/8 3/8" = 1'-0"



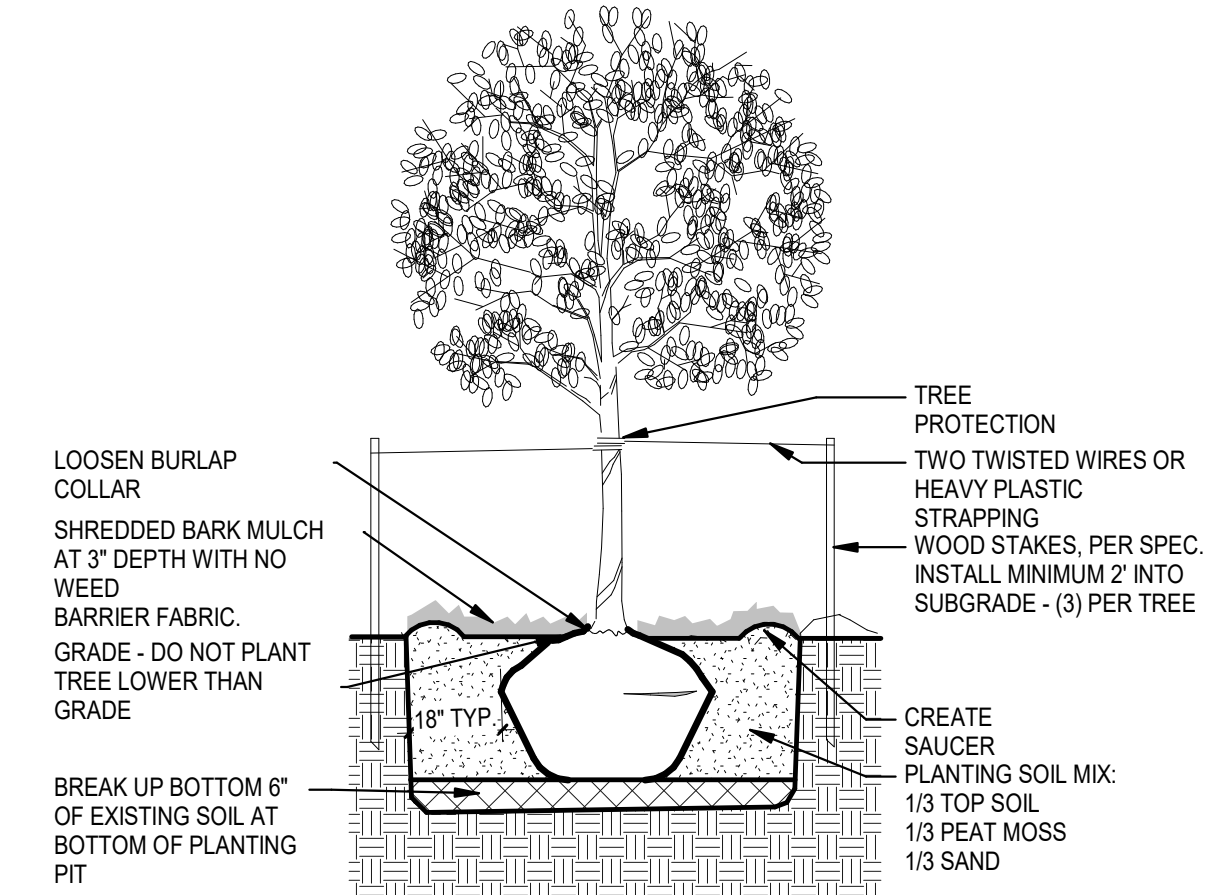
8 CHAIN LINK DOUBLE GATE DETAIL  
L1/8 1/2" = 1'-0"



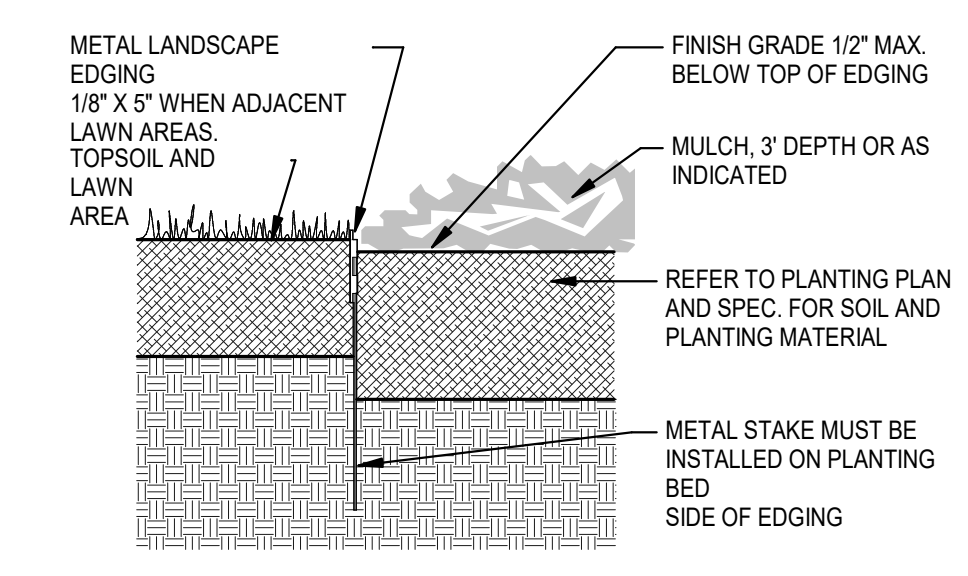
9 CHAIN LINK SINGLE GATE WITH PANIC BAR DETAIL  
L1/8 1/2" = 1'-0"



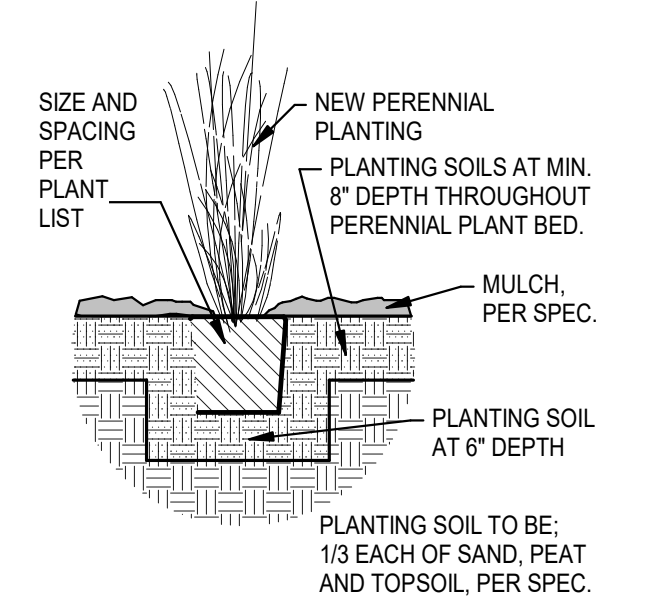
10 BOLLARD DETAIL - THERMOPLASTIC  
L1/8 3/4" = 1'-0"



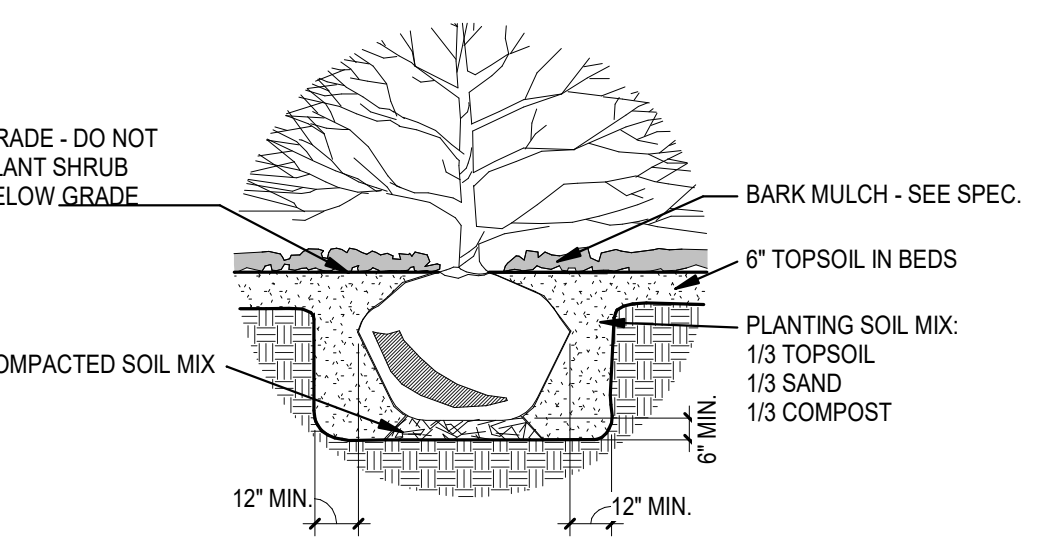
11 DECIDUOUS TREE PLANTING DETAIL 1  
L1/8 12" = 1'-0"



12 METAL EDGING DETAIL  
L1/8 1/8" = 1'-0"

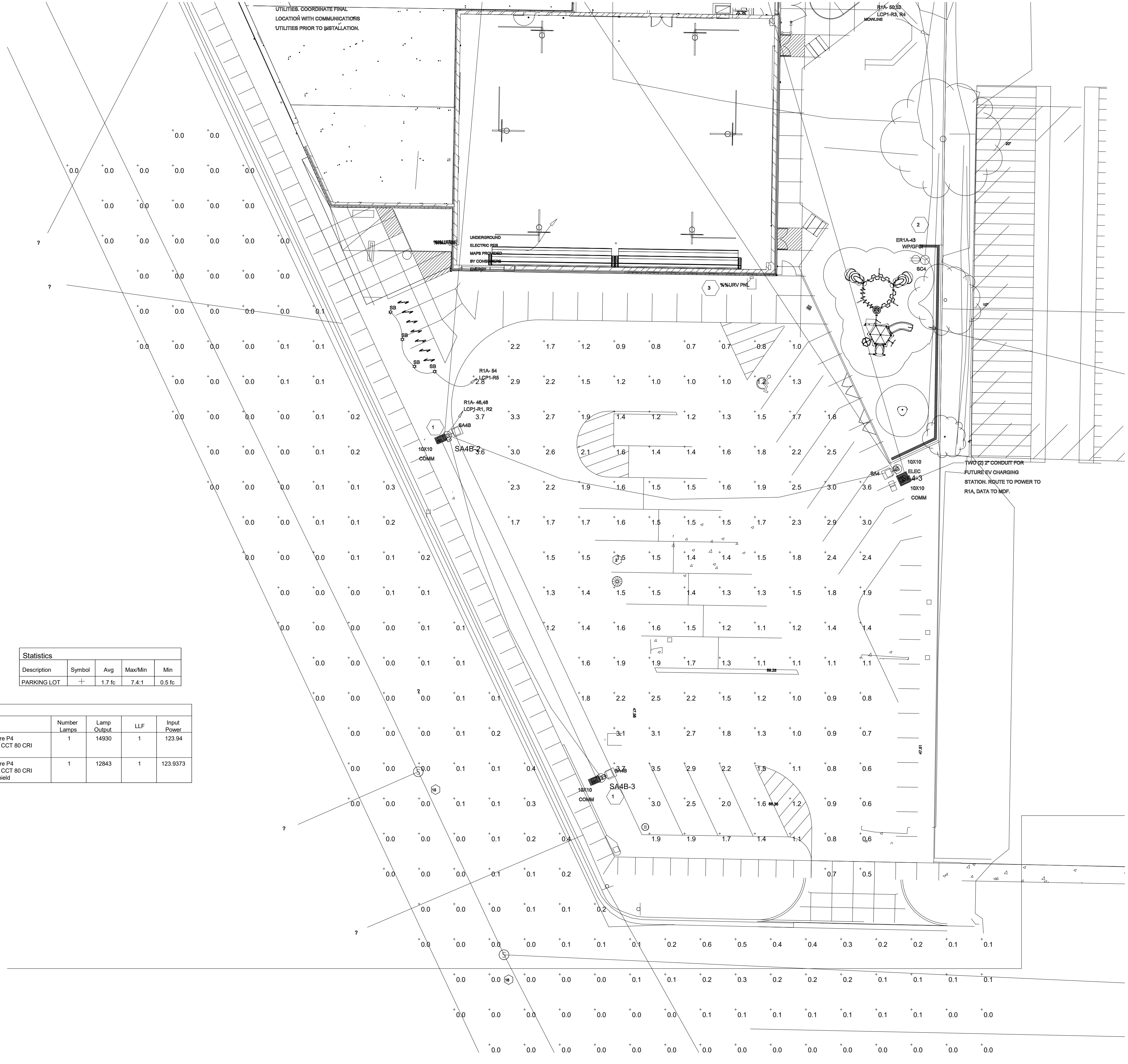


13 PERENIAL PLANTING DETAIL 1  
L1/8 1/2" = 1'-0"



14 SHRUB PLANTING DETAIL 1  
L1/8 1/8" = 1'-0"





Statistics				
Description	Symbol	Avg	Max/Min	Min
PARKING LOT	+	1.7 fc	7.4/1	0.5 fc

Schedule									
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
□	SA4	1	Lithonia Lighting	DSX1 LED P4 40K 80CRI TAM	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 80 CRI Type 4 Medium	1	14500	1	123.94
□	SA4B	2	Lithonia Lighting	DSX1 LED P4 40K 80CRI TAM HS	D-Series Size 1 Area Luminaire P4 Performance Package 4000K CCT 80 CRI Type 4 Medium HouseSide Shield	1	12843	1	123.9373



**SURVEYOR'S NOTES**

1. BASIS OF BEARINGS: MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83
2. CONTOUR INTERVAL = 1 FOOT
3. UTILITIES SHOWN ARE BASED ON FIELD LOCATION OF SURFACE EVIDENCE AND RECORDS PROVIDED BY OTHERS. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY BE ENCOUNTERED. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL CALL MISS DIG AT 1-800-482-7171.
4. THERE WAS NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED AT THE TIME OF SURVEY.
5. THERE ARE NO KNOWN CHANGES PROPOSED TO THE STREET RIGHT OF WAY LINES. NO RECENT SIDEWALK CONSTRUCTION OR REPAIRS WERE OBSERVED AT THE TIME OF SURVEY.
6. BY SCALED MAP LOCATION AND GRAPHIC PLOTTING ONLY, THE LAND DEPICTED IN THIS SURVEY LIES IN ZONE X. MAP 26077C0187D, EFFECTIVE DATE 02/17/2010.
7. NO WETLANDS ON SITE PER THE NATIONAL WETLANDS INVENTORY. A DELINEATION OF THE WETLANDS BY A QUALIFIED CONSULTANT WAS NOT PERFORMED AT THE TIME OF SURVEY.
8. PARCEL CONTAINS 1.22± ACRES (53,006± SQ FT)

**SCHEDULE "C" LEGAL DESCRIPTION**  
**TITLE CO: SUN TITLE AGENCY OF MICHIGAN, LLC**  
**UNDERWRITTEN BY: OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY**  
**COMMITMENT #PC138663 EFFECTIVE DATE 03/19/2020 AT 08:00 AM**

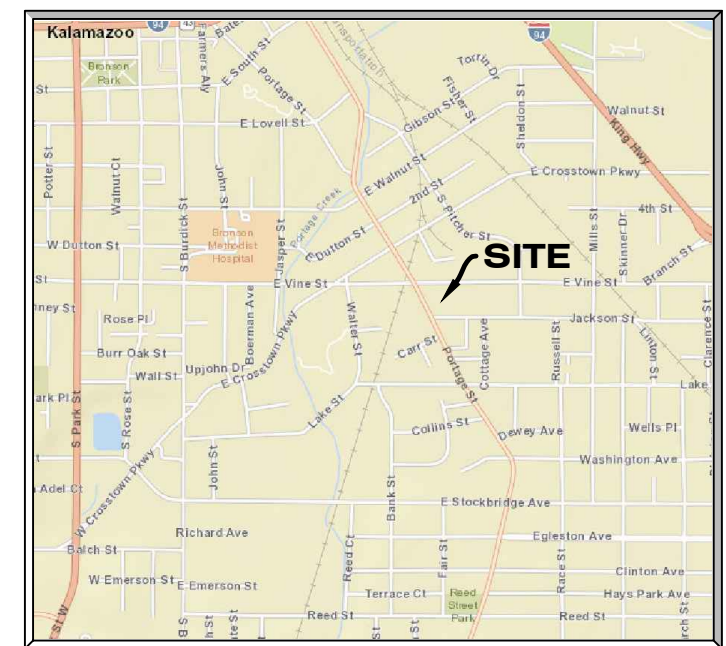
THE LAND REFERRED TO IN THIS COMMITMENT IS DESCRIBED AS FOLLOWS:  
 LAND SITUATED IN THE CITY OF KALAMAZOO, KALAMAZOO COUNTY, MICHIGAN:  
**PARCEL 1:**  
 BEGINNING AT THE SOUTHEAST CORNER OF VINE STREET AND PORTAGE STREET AND RUNNING THENCE EAST ALONG THE SOUTH LINE OF VINE STREET, 111.82 FEET; THENCE SOUTH 0 DEGREES 04 MINUTES 58 SECONDS EAST 90.50 FEET; THENCE NORTH 89 DEGREES 58 MINUTES 03 SECONDS WEST 67.02 FEET TO THE EASTERLY LINE OF PORTAGE STREET; THENCE NORTH 26 DEGREES 24 MINUTES 40 SECONDS WEST THEREON 101.01 FEET TO THE PLACE OF BEGINNING.  
 AND,  
 COMMENCING AT THE SOUTHEAST CORNER OF VINE STREET AND PORTAGE STREET AND RUNNING THENCE SOUTH 26 DEGREES 24 MINUTES 40 SECONDS EAST ALONG THE EASTERLY LINE OF PORTAGE STREET, 101.01 FEET FOR THE PLACE OF BEGINNING OF THE LAND HERINAFTER DESCRIBED; THENCE CONTINUING SOUTH 26 DEGREES 24 MINUTES 40 SECONDS EAST ALONG SAID EASTERLY LINE, 80.14 FEET TO THE SOUTH LINE OF LOT 73 OF T.P. SHELTON'S ADDITION TO THE CITY OF KALAMAZOO, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 3 OF PLATS ON PAGE 17, KALAMAZOO COUNTY RECORDS; THENCE SOUTH 89 DEGREES 57 MINUTES 45 SECONDS EAST THEREON, 166.10 FEET TO THE SOUTHEAST CORNER OF SAID LOT 73; THENCE NORTH 0 DEGREES 04 MINUTES 58 SECONDS WEST ALONG THE EAST LINE OF SAID LOT 73, 53.88 FEET; THENCE NORTH 89 DEGREES 51 MINUTES 45 SECONDS WEST PARALLEL TO THE NORTH LINE OF SAID LOT 73, 60.89 FEET; THENCE NORTH 0 DEGREES 08 MINUTES 15 SECONDS WEST 5.90 FEET TO THE NORTH LINE OF SAID LOT 73; THENCE NORTH 89 DEGREES 51 MINUTES 45 SECONDS WEST THEREON, 47.00 FEET; THENCE NORTH 65 DEGREES 43 MINUTES 18 SECONDS WEST 28.74 FEET; THENCE NORTH 0 DEGREES 04 MINUTES 58 SECONDS WEST 67.02 FEET TO THE PLACE OF BEGINNING.  
 3906--22--281--008  
**PARCEL 2:**  
 COMMENCING AT THE SOUTHEAST CORNER OF VINE STREET AND PORTAGE STREET AND RUNNING THENCE EAST ALONG THE SOUTH LINE OF VINE STREET 111.82 FEET FROM THE PLACE OF BEGINNING OF THE LAND HERINAFTER DESCRIBED; THENCE CONTINUING EAST ALONG SAID SOUTH LINE 134.02 FEET TO THE NORTHWEST CORNER OF LOT 79 OF T.P. SHELTON'S ADDITION TO THE CITY OF KALAMAZOO, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 3 OF PLATS ON PAGE 17, KALAMAZOO COUNTY RECORDS; THENCE SOUTH 0 DEGREES 04 MINUTES 58 SECONDS EAST THEREON, 108.48 FEET; THENCE NORTH 89 DEGREES 51 MINUTES 45 SECONDS WEST PARALLEL TO THE NORTH LINE OF LOT 73 OF SAID PLAT, 60.89 FEET; THENCE NORTH 0 DEGREES 08 MINUTES 15 SECONDS EAST, 5.90 FEET TO THE NORTH LINE OF SAID LOT 73; THENCE NORTH 89 DEGREES 51 MINUTES 45 SECONDS WEST THEREON, 47.00 FEET; THENCE NORTH 65 DEGREES 43 MINUTES 18 SECONDS WEST, 28.74 FEET; THENCE NORTH 0 DEGREES 04 MINUTES 58 SECONDS WEST 90.50 FEET TO THE PLACE OF BEGINNING.  
 3906--22--282--002  
**PARCEL 3:**  
 LOT 71 AND 72, THEODORE P. SHELTON'S ADDITION TO THE VILLAGE (NOW CITY) OF KALAMAZOO, ACCORDING TO THE PLAT THEREOF RECORDED IN LIBER 3 OF PLATS, PAGE 17, KALAMAZOO COUNTY RECORDS.  
 3906--22--287--002

**SCHEDULE B SECTION II EXCEPTIONS**  
**TITLE CO: SUN TITLE AGENCY OF MICHIGAN, LLC**  
**UNDERWRITTEN BY: OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY**  
**COMMITMENT #PC138663 EFFECTIVE DATE 03/19/2020 AT 08:00 AM**

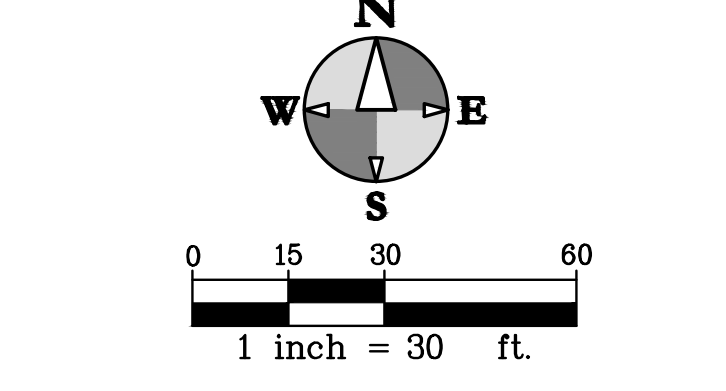
- [12] EASEMENT IN FAVOR OF CONSUMERS POWER COMPANY (NOW KNOWN AS CONSUMERS ENERGY), AS RECORDED IN LIBER 290, PAGE 508 (DOES NOT TOUCH SURVEYED PARCEL).
- [13] EASEMENT IN FAVOR OF CONSUMERS POWER COMPANY (NOW KNOWN AS CONSUMERS ENERGY), AS RECORDED IN LIBER 290, PAGE 510 (DOES NOT TOUCH SURVEYED PARCEL).
- [14] EASEMENT IN FAVOR OF CONSUMERS POWER COMPANY (NOW KNOWN AS CONSUMERS ENERGY), AS RECORDED IN LIBER 594, PAGE 498 (DOES NOT TOUCH SURVEYED PARCEL).

**LEGEND**

<ul style="list-style-type: none"> <li>□ BENCH MARK</li> <li>■ SET MONUMENT</li> <li>● FOUND MONUMENT</li> <li>○ SET CAPPED IRON LIC. # 57885</li> <li>● FOUND IRON</li> <li>⊗ SET CHISELED "X"</li> <li>⊗ FOUND CHISELED "X"</li> <li>▲ CP # CONTROL POINT</li> <li>P= PLATTED</li> <li>D= DESCRIBED</li> <li>M= MEASURED</li> <li>R= RECORD</li> <li>C= CALCULATED</li> <li>▨ CURB CATCH BASIN</li> <li>▨ SQUARE CATCH BASIN</li> <li>○ ROUND CATCH BASIN</li> <li>○ MANHOLE STORM</li> <li>○ DOWN SPOUT</li> <li>○ YARD DRAIN</li> <li>○ FLARED END SECTION</li> <li>○ MANHOLE SANITARY</li> <li>○ SANITARY CLEANOUT</li> <li>○ FIRE HYDRANT</li> <li>○ FIRE DEPARTMENT CONNECTION</li> <li>○ WATER VALVE</li> <li>○ WATER METER</li> <li>○ WELL HEAD</li> <li>○ SPRINKLER CONTROL VALVE</li> <li>○ SPRINKLER HEAD</li> <li>○ MONITOR WELL</li> <li>○ POST INDICATOR VALVE</li> <li>○ SPIGOT</li> <li>○ TRANSFORMER</li> <li>○ YARD LIGHT</li> <li>○ HAND HOLE (ELECTRIC)</li> <li>○ LIGHT POLE</li> <li>○ (UTILITY, GUY, POWER) POLE</li> <li>○ GUY WIRE</li> <li>○ ELECTRIC MANHOLE</li> <li>○ ELECTRIC METER</li> <li>○ AIR CONDITIONER</li> <li>○ GAS METER</li> <li>○ GAS VALVE</li> <li>○ TELEPHONE MANHOLE</li> <li>○ COMMUNICATION MANHOLE</li> </ul>	<ul style="list-style-type: none"> <li>□ RISER</li> <li>○ PIPE MARKER COMMUNICATIONS</li> <li>○ PIPE MARKER FIBEROPTICS</li> <li>○ PIPE MARKER ELECTRIC</li> <li>○ PIPE MARKER GAS</li> <li>○ SIGN (SINGLE/DOUBLE)</li> <li>○ MAILBOX</li> <li>○ PARKING METER (SINGLE/DOUBLE)</li> <li>○ POST</li> <li>○ SOIL BORING</li> <li>○ FLAG</li> <li>○ COLUMN</li> <li>○ BOLLARD</li> <li>○ CONTOUR HIGHLIGHTED</li> <li>○ CONTOUR NORMAL</li> <li>○ POWER LINE</li> <li>○ MISS DIG COMMUNICATION</li> <li>○ MISS DIG ELECTRIC</li> <li>○ MISS DIG FIBEROPTIC</li> <li>○ MISS DIG GAS</li> <li>○ MISS DIG SANITARY SEWER</li> <li>○ MISS DIG STORMWATER</li> <li>○ MISS DIG TELEPHONE</li> <li>○ MISS DIG WATER</li> <li>○ WETLAND MARKER</li> <li>○ MISS DIG UNKNOWN</li> <li>○ TREE LINE</li> <li>○ GUARD RAIL</li> <li>○ DECIDUOUS TREE</li> <li>○ CONIFEROUS TREE</li> <li>○ BUSH</li> <li>○ PAVEMENT</li> <li>○ CONCRETE SURFACE</li> <li>○ ADA RAMP BUMPS</li> <li>○ GRAVEL</li> <li>○ LANDSCAPING</li> <li>○ PAVERS</li> </ul>
--	---



**SITE LOCATION MAP**  
 NOT TO SCALE  
**SECTION 22, TOWN 02 S, RANGE 11 W,**  
**CITY OF KALAMAZOO, KALAMAZOO**  
**COUNTY, MICHIGAN**  
**720, 726 E VINE ST,**  
**825, 847 PORTAGE ST**



**SURVEY CONTROL**

CP 1	N = 4667.44	E = 5145.27	EL = 769.11
CP 2	N = 5000.01	E = 4999.99	EL = 766.52
CP 3	N = 4921.97	E = 5177.79	EL = 769.61
CP 4	N = 5046.24	E = 5412.09	EL = 766.70

**BENCHMARKS**  
 ELEVATIONS OF THIS SURVEY ARE BASED ON NAVD 88 AS DERIVED FROM GPS

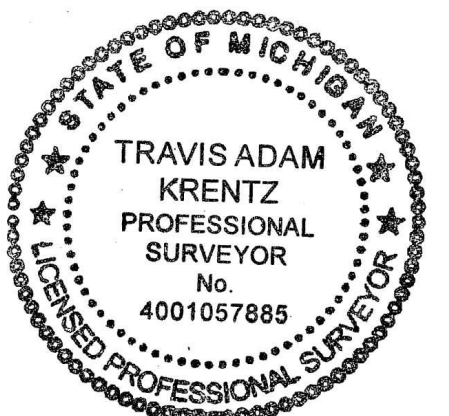
BM 1	EL = 769.88
BM 2	EL = 767.98
BM 3	EL = 768.31

**STRUCTURE DATA**

1. STM CB RIM = 768.86 TOP OF PIPE = 764.36 VERTICAL 12" PIPE DROP INTO STRUCTURE SEDIMENT = 761.08	16. 4.0' CONCRETE MH RIM = 766.38 INV. S 12" IRON = 762.33 E/W ENCLOSED PIPE THROUGH STRUCTURE SEDIMENT = 761.08
2. STM CB RIM = 768.32 COULD NOT OPEN. NO PIPES VISIBLE. BOTTOM = 765.60	17. SAN MH UNOPENED RIM = 766.31
3. 4.0' BRICK STM MH RIM = 768.13 INV. NE 6" ACP = 765.83± INV. E 10" CLAY = 765.38 INV. W 10" CLAY = 765.38 SUMP = 762.78	18. STM MH UNOPENED RIM = 765.84
4. 2.0' BLOCK STM CB RIM = 766.20 INV. NW 12" IRON = 762.70 SUMP = 762.70	19. STM MH UNOPENED RIM = 766.14
5. TRAFFIC SIGNAL MH RIM = 766.57	20. 4.0' BRICK SAN MH RIM = 768.82 INV. N 12" IRON = 759.45 INV. S 12" IRON = 759.55 INV. W 8" CLAY = 759.72
6. ELECTRIC MH RIM = 766.42	21. 4.0' BRICK SAN MH RIM = 769.20 INV. E 10" CLAY = 762.37 INV. N 12" RCP = 762.03 WATER = 762.03 SUMP = 761.88
7. STM CB RIM = 766.27 TOP OF PIPE = 763.02 12" VERTICAL PIPE	22. 4.0' BRICK SAN MH RIM = 769.67 INV. E 10" CLAY = 762.37 INV. N 12" IRON = 759.75 INV. E 10" CLAY = 760.30 SUMP = 761.88
8. 4.0' CONCRETE SAN MH RIM = 766.76 INV. E 12" PVC = 760.11 INV. W 12" PVC = 760.01	

**MISS DIG DESIGN TICKET DATA**

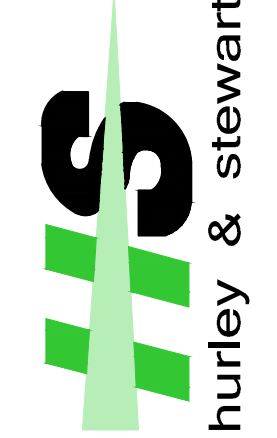
AT&T - ANIKA ESTES 248-454-2998 - MAPS PROVIDED - 07/14/20  
 CENTURYLINK - RYAN EGAN 877-366-8344 - NO RESPONSE  
 CITY OF KALAMAZOO - WILL EICHELBERGER 269-337-8727 - MAPS PROVIDED - 07/14/20  
 CHARTER COMMUNICATIONS - 4800-242-8511 - MAPS PROVIDED - 07/15/20  
 CONSUMERS ENERGY (ELECTRIC DISTRIBUTION) - JESSE BURNS 269-337-2311 - MAPS PROVIDED - 07/14/20  
 CONSUMERS ENERGY (GAS DISTRIBUTION) - KURT GOLDING - MAPS PROVIDED - 07/10/20  
 QUEST COMMUNICATIONS - GEORGE MCELVAIN 303-992-9931 - NO RESPONSE  
 SPRINT - GERRY A. CRAIN/ERICSSON 847-445-1869 - NO RESPONSE



TO BOYS & GIRLS CLUBS OF GREATER KALAMAZOO, SUN TITLE AGENCY OF MICHIGAN, LLC:  
 THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2018 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDED ITEMS 1, 2, 3, 4, 5, 7(g), 8, 11, 13, 16 AND 17 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON 07/15/20  
 DATE OF PLAT OR MAP: 07/16/2020

TRAVIS A. KRENTZ PROFESSIONAL SURVEYOR # 57885

hurley & stewart, llc  
 2800 south 11th street  
 Kalamazoo, michigan 49009  
 269.552.4960 fax 269.552.4961  
 www.hurleystewart.com



Job No. 20-084D - P.M.-T.M. - D.R.H. - B.D.E. - S.A./C.C. 07/16/20  
 ISSUED FOR REVISIONS:  
 #1 ALTA/NSPS SURVEY 07/16/20  
 COPYRIGHT © of Hurley & Stewart, LLC

**ALTA/NSPS LAND TITLE SURVEY**  
**825/847 PORTAGE ST / 720/726 E VINE ST**  
**BOYS & GIRLS CLUBS OF GREATER KALAMAZOO**

Sheet Title:  
 Project:  
 Client:  
 07/16/20  
 Sheet  
**S-1**  
 1 of 1

