

VILLAGE OF GERMANTOWN
N112 W17001 MEQUON ROAD
GERMANTOWN, WI 53022

MEETING:	PLAN COMMISSION
DATE AND TIME:	MONDAY, MAY 22, 2017 6:30 p.m.
LOCATION:	Germantown Village Hall Board Room

- I. **CALL TO ORDER:** This meeting has been given public notice in accordance with Wisconsin Statutes, Section 19.83 and 19.84 in such form that will apprise the general public and news media of subject matter that is intended for discussion and action.
- II. **ROLL CALL:**
- III. **PUBLIC INPUT/PUBLIC APPEARANCE:** Please be advised per §19.84(2) that information will be received from the public, however, no action will be taken at this time.
- IV. **APPROVAL OF MINUTES:** April 10, 2017
- V. **NEW BUSINESS:**
- A. Plunkett Raysich Architects, LLP, Agent for the Germantown School District. Site Plan Review for Renovations/Remodeling and/or Additions to the following sites:
1. Germantown High School, W180 N11501 River Lane Road
 2. Kennedy Middle School, W160 N11836 Crusader Court
 3. MacArthur Elementary School, W154 N11492 Fond du Lac Avenue
 4. County Line Elementary School, W159 N9939 Butternut Road
- B. Stacy Cooke, Agent for Gehl Foods LLC, Property Owner, N116 W16044 Main Street & N116 W15850 Main Street. Rezoning & Certified Survey Map Consultation for a Land Combination and N116 W15970 Main Street. Site Plan Consultation for Construction of 10 Silos.
- C. JSD Professional Services, Inc., Agent for Rainbow Child Care Center and First Bank Financial Centre, Property Owner, N112 W17060 Mequon Road. Site & Sign Plan Review for a 10,782 Square Foot building & Conditional Use Permit (Child Care Center).
- VI. **ANNOUNCEMENTS:**
- VII. **ADJOURNMENT:**

The next Plan Commission Meeting will be on June 12, 2017 at 6:30 p.m.

UPON REASONABLE NOTICE, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service please contact the Village Clerk at (262)250-4740 at least 2 days prior to the meeting. Notice is given that a majority of the Village Board may attend this meeting to gather information about an item over which they have decision making responsibility. This may constitute a meeting of the Village Board per State ex rel. Badke v. Greendale Village Board, even though the Village Board will not take formal action at this meeting.



GERMANTOWN SCHOOL DISTRICT

GERMANTOWN H.S. - ADDITIONS & REMODELING

W180 N11501 RIVER LN, GERMANTOWN, WI 53022



PLUNKETT RAYSICH
ARCHITECTS, LLP

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2310 crossroads drive suite 2000 madison, wisconsin 53718 608 240 9900
205 north orange avenue suite 202 sarasota, florida 34236 941 348 3618

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Sheet Index

General

000-PC PLAN COMMISSION TITLE SHEET

Civil

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- C200 SITE DEVELOPMENT PLAN
- C201 SITE DEVELOPMENT PLAN
- C202 SITE DEVELOPMENT PLAN
- C203 SITE DEVELOPMENT PLAN
- C300 SITE GRADING PLAN
- C301 SITE GRADING PLAN
- C302 SITE GRADING PLAN
- C400 SITE EROSION CONTROL PLAN
- C500 SITE UTILITY PLAN
- C501 SITE SANITARY SEWER PLAN AND PROFILE
- C600 SITE CONSTRUCTION DETAILS
- C700 SITE CONSTRUCTION SPECIFICATIONS

Landscape

- L1.0 LANDSCAPE RESTORATION PLAN
- L1.1 DETAILS & SPECIFICATIONS
- L1.2 NOTES & PLANT SCHEDULES

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- A230 ROOF PLANS
- A400 EXTERIOR ELEVATIONS
- A401 EXTERIOR ELEVATIONS
- A402 EXTERIOR ELEVATIONS
- A420 PERSPECTIVES & AXONS

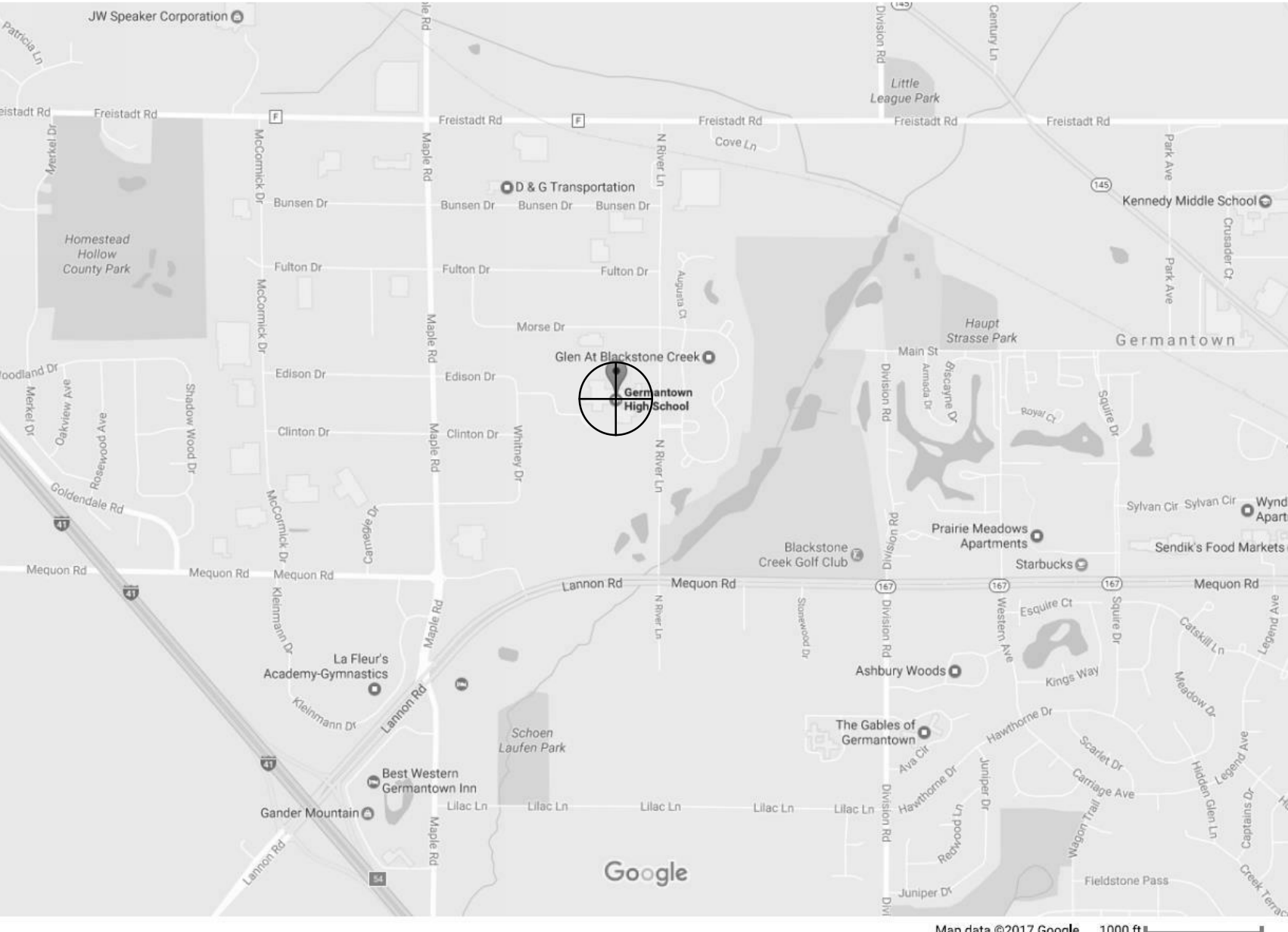
Electrical

- E000 SITE PHOTOMETRIC PLAN
- E001 SITE ELECTRICAL CUT SHEETS
- E002 SITE ELECTRICAL CUT SHEETS

Project Information

Project Date: 05/17/2017
PRA Project Number: 160024-06
Drawing Set: PLANNING COMMISSION

Project Location



Applicable Codes and Zoning

2017 Wisconsin Commercial Building Code (SPS 360-366)
2009 International Existing Building Code
2009 International Building Code
Education occupancy, Group E
Zoning: Village of Germantown, WI ordinances

Building Area

Area Schedule (Existing Gross Building)		Areas - Gross Building - Overall Code	
Level	Area	Name	Area
00-LOCKER ROOM LEVEL	41,814 SF	FIRE PROTECTION ONLY	153,695 SF
01-LOWER LEVEL	95,386 SF	HEAVY RENOVATION	65,105 SF
02-GYM LEVEL	71,648 SF	LIGHT RENOVATION	10,384 SF
03-MIDDLE LEVEL	50,119 SF	NEW - ADMINISTRATION	4,789 SF
04-UPPER LEVEL	19,479 SF	NEW - AUDITORIUM	30,913 SF
	278,425 SF	NEW - CLASSROOMS	15,801 SF
		NEW - FIELDHOUSE	49,663 SF
		NEW - POOL	21,032 SF
		NEW - TECH ED	9,865 SF
		NO CONSTRUCTION	31,702 SF
			393,239 SF

OWNER: Germantown School District
N104 W13840 Donges Bay Rd
Germantown, WI 53022

ARCHITECT: Plunkett Raysich Architects, LLP
209 S Water St
Milwaukee, WI 53204

CM: C.D. Smith Construction, Inc.
889 E Johnson St
Fond du Lac, WI 54935

The site is currently zoned I – Institutional

The neighboring sites are zoned:
North: M-1 – Limited Industrial
West: M-1 – Limited Industrial
South: EC-1 – Environmental Corridor
West: Rs-1 – Single Family Residential

Number of employees – 180

Statement of Design Intent:

The proposed work at the Germantown High School will be composed of building demolition, additions, alterations and site improvements. The additions will include a new fieldhouse, new pool, new locker rooms, new performing arts center, new woods and construction labs and a new main entry containing the administration. The building demolition will include the demolition of the existing maintenance, woods shops, auto shops and metals shops. The alterations will include moving the autos, family consumer science, welding, metals, Project Lead the Way and student services to new locations within the existing building. The site improvements will include expanded parking, revised circulation for the parent drop off area, a fire truck path around the entire building and a new loading dock. Upon completion the building will be fully sprinklered.

The materials to be used will consist of face brick, architectural precast panels, architectural metal panels, curtain wall and storefront glazing. The roofs will be flat.

The current ingress/egress point to the site will be kept. An additional site exit point is being requested which will be a right turn egress only exit at the south east corner of the student parking lot onto River Lane.

Project Team

Construction Manager

C.D. SMITH (Under Seperate Contract)
Tel (414) 555-1234

Civil

TRIO ENGINEERING Tel (262) 790-1480

Landscape

Team Member Name Tel (414) 555-1234

Structural

R.A. SMITH NATIONAL, INC. Tel (262) 781-1000

Plumbing

MUERMANN ENGINEERING, LLC Tel (920) 894-7800

Mechanical

FREDERICKSEN ENGINEERING, INC. Tel (262) 243-9090

Electrical

MUERMANN ENGINEERING, LLC Tel (920) 894-7800

Fire Protection

MUERMANN ENGINEERING, LLC Tel (920) 894-7800

Audio Visual

PROFESSIONAL AUDIO DESIGNS, INC. Tel (414) 476-1011

Theatrical

MAINSTAGE THEATRICAL SUPPLY, INC. Tel (414) 278-0878



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE: EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

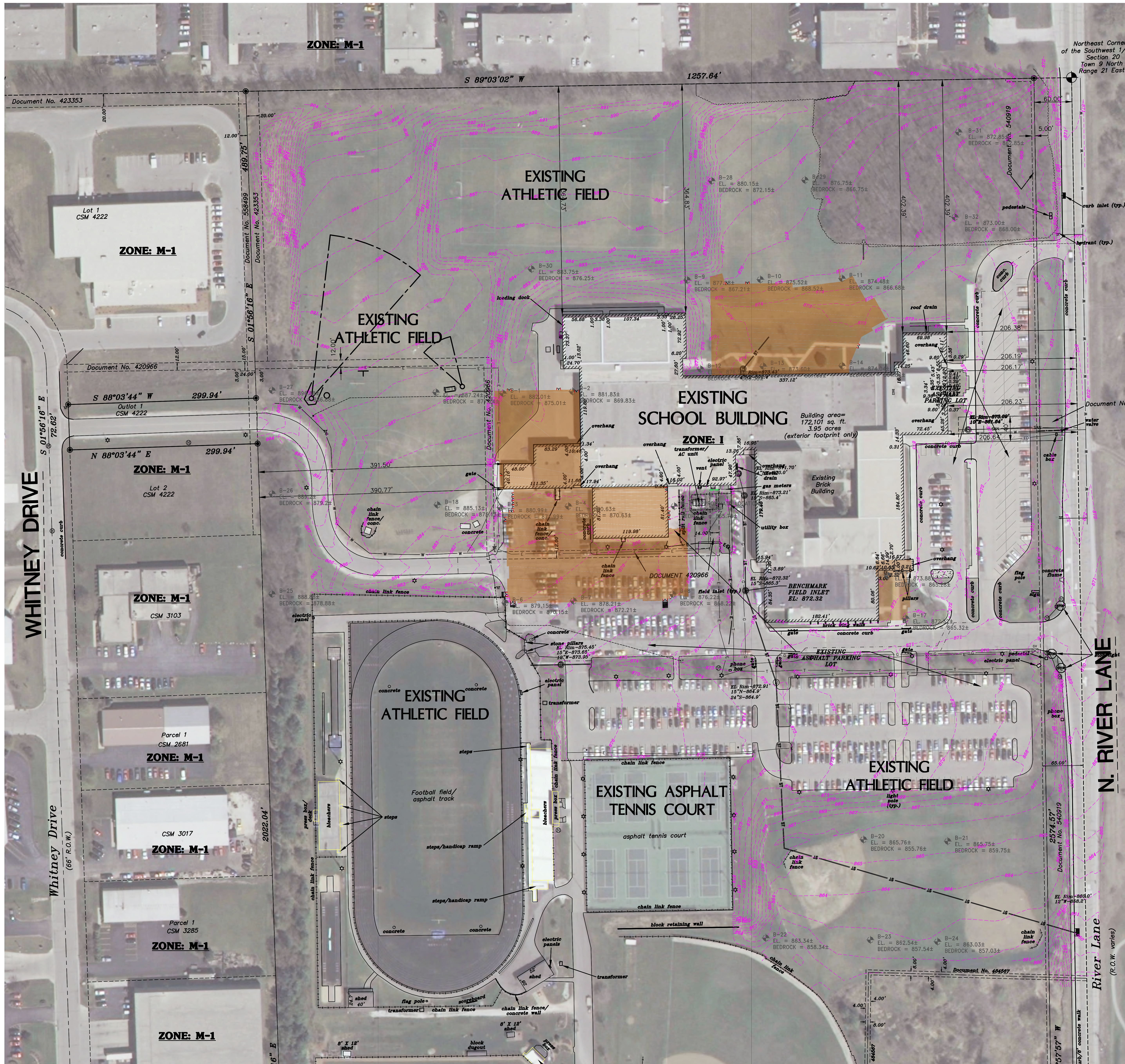
EXISTING CONDITION SURVEY DATA OBTAINED BY METROPOLITAN SURVEY SERVICE, INC. DATED FEBRUARY, 2015 AND MARCH 2017

SETBACKS

Building Setback = 30' front
Building Setback = 10' side
Building Setback = 25' rear
Parking Setback = 8' along all sides

LEGEND:

---	EXISTING CONTOUR
---	EXISTING SANITARY SEWER
○	EXISTING SANITARY MANHOLE
---	EXISTING WATER MAIN
---	EXISTING HYDRANT
---	EXISTING STORM SEWER
---	EXISTING STORM MANHOLE
---	EXISTING STORM INLET
---	EXISTING TRANSFORMER
---	EXISTING ELECTRIC PEDESTAL
---	EXISTING TELEPHONE PEDESTAL
---	EXISTING CATV PEDESTAL
---	EXISTING POWER POLE



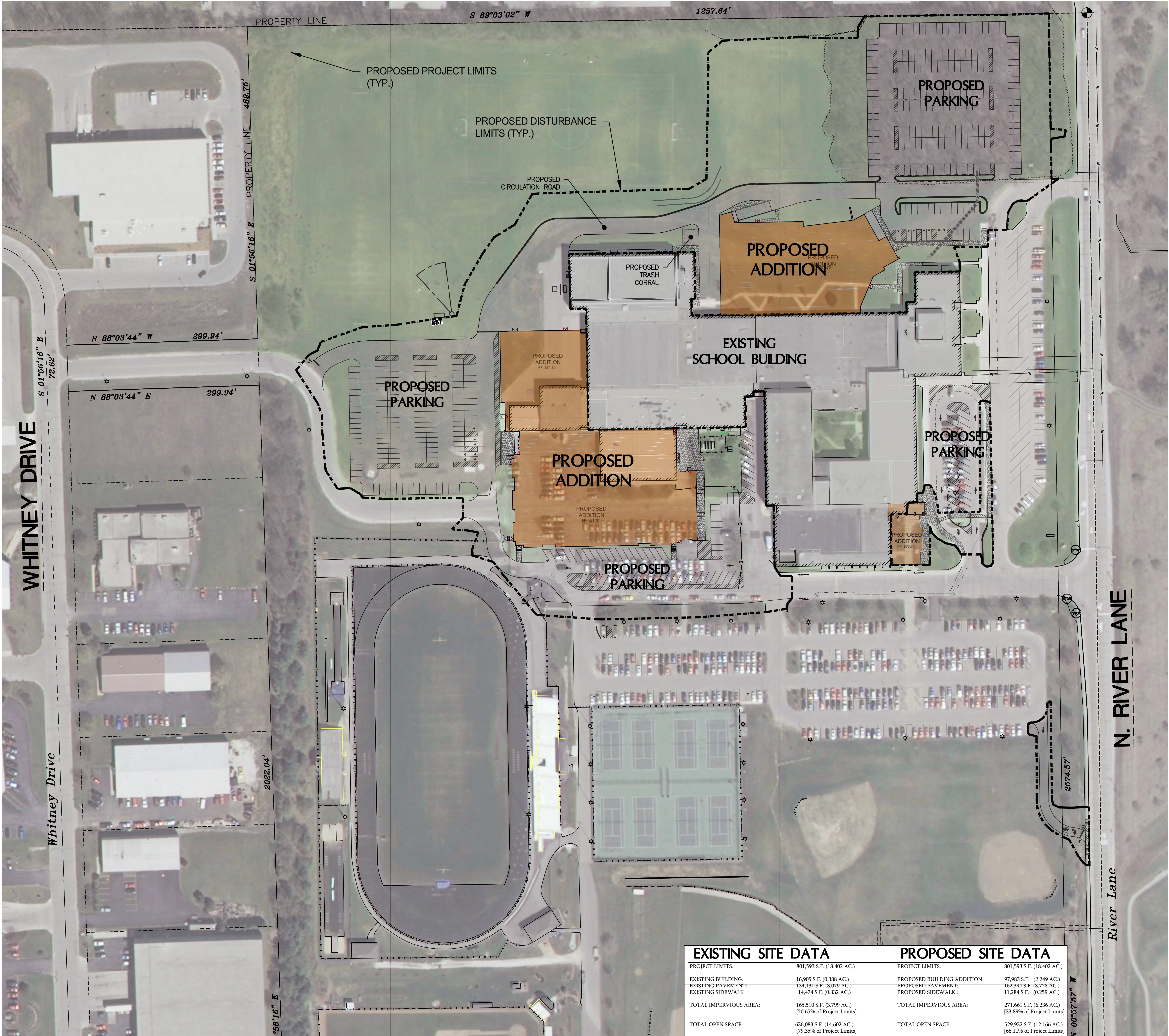
1" = 60'
EXISTING SITE CONDITIONS



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	PROPOSED HYDRANT
	PROPOSED WATER VALVE
	PROPOSED STORM SEWER
	PROPOSED STORM MANHOLE
	PROPOSED STORM INLET
	PROPOSED STORM END SECTION



EXISTING SITE DATA		PROPOSED SITE DATA	
PROJECT LIMITS:	801,593 S.F. (18.402 AC.)	PROJECT LIMITS:	801,593 S.F. (18.402 AC.)
EXISTING BUILDING:	16,905 S.F. (0.388 AC.)	PROPOSED BUILDING ADDITION:	97,983 S.F. (2.249 AC.)
EXISTING PAVEMENT:	134,131 S.F. (3.079 AC.)	PROPOSED PAVEMENT:	162,394 S.F. (3.728 AC.)
EXISTING SIDEWALK:	14,474 S.F. (0.332 AC.)	PROPOSED SIDEWALK:	11,284 S.F. (0.259 AC.)
TOTAL IMPERVIOUS AREA:	165,510 S.F. (3.799 AC.) [20.65% of Project Limits]	TOTAL IMPERVIOUS AREA:	271,661 S.F. (6.236 AC.) [33.89% of Project Limits]
TOTAL OPEN SPACE:	636,083 S.F. (14.602 AC.) [79.35% of Project Limits]	TOTAL OPEN SPACE:	529,932 S.F. (12.166 AC.) [66.11% of Project Limits]
		TOTAL FINISHED SITE PARKING:	18 SPACES
		PROPOSED ADA PARKING SPACES:	430 SPACES
		PROPOSED STANDARD PARKING SPACES:	372 SPACES
		EXISTING SITE PARKING SPACES:	820 SPACES
		TOTAL SITE PARKING SPACES:	820 SPACES

SITE DEVELOPMENT PLAN
1" = 60'



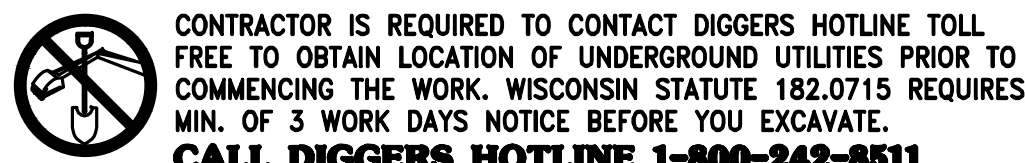
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CALL DIGGERS HOTLINE 1-800-245-8511

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LEGEND:	
904	EXISTING CONTOUR
— SAN	EXISTING SANITARY SEWER
○	EXISTING SANITARY MANHOLE
— W	EXISTING WATER MAIN
— H	EXISTING HYDRANT
— ST	EXISTING STORM SEWER
○	EXISTING STORM MANHOLE
904	EXISTING STORM INLET
— T	EXISTING TRANSFORMER
□	EXISTING ELECTRIC PEDESTAL
□	EXISTING TELEPHONE PEDESTAL
— CATV	EXISTING CATV PEDESTAL
⚡	EXISTING POWER POLE
○	PROPOSED SANITARY SEWER
○	PROPOSED SANITARY MANHOLE
— W	PROPOSED WATER MAIN
— H	PROPOSED HYDRANT
— V	PROPOSED WATER VALVE
— ST	PROPOSED STORM SEWER
○	PROPOSED STORM MANHOLE
□	PROPOSED STORM INLET
— T	PROPOSED STORM END SECTION

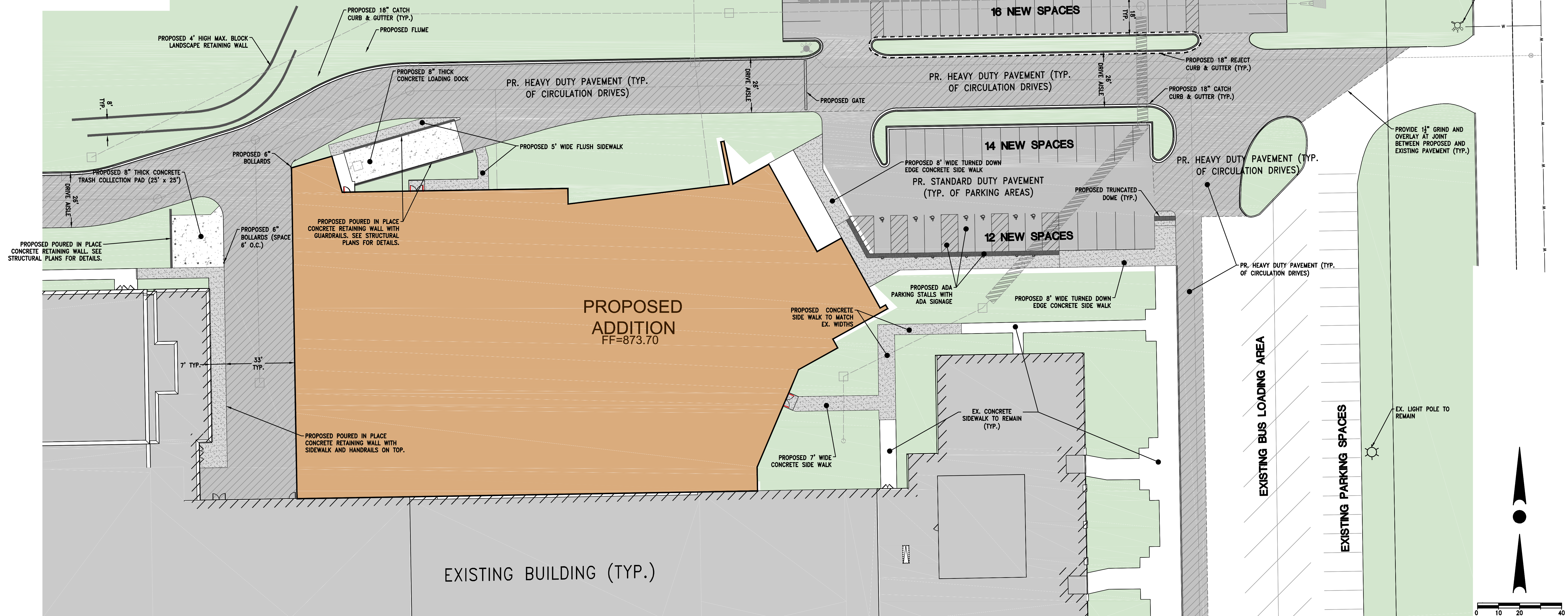
SITE DEVELOPMENT PLAN
1" = 20'



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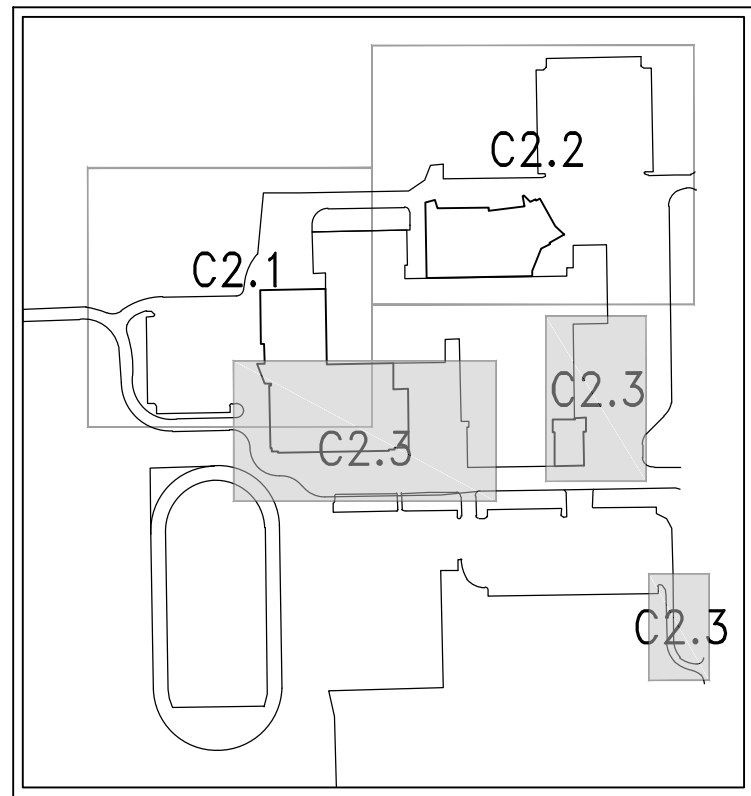


SITE DEVELOPMENT PLAN



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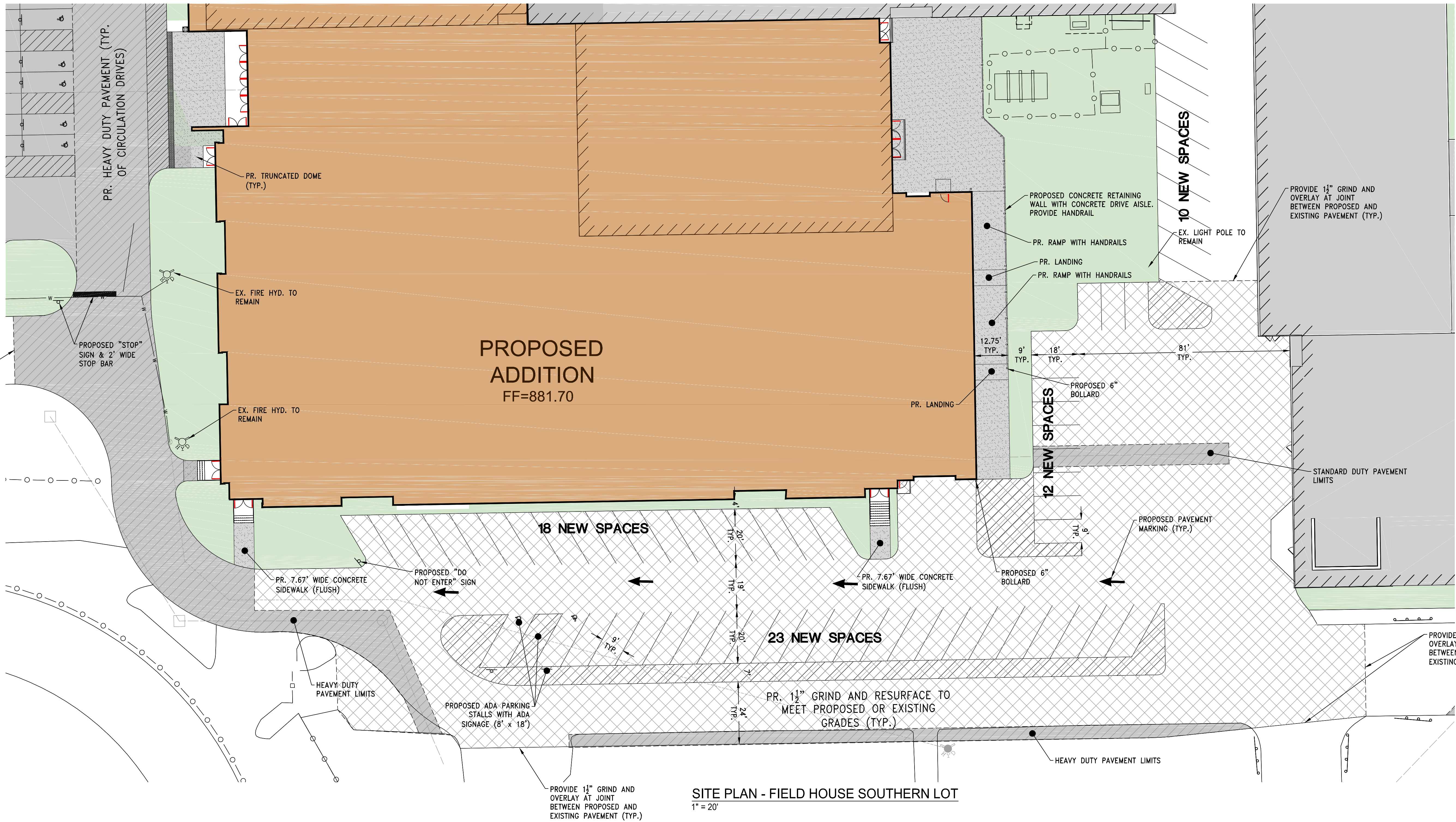
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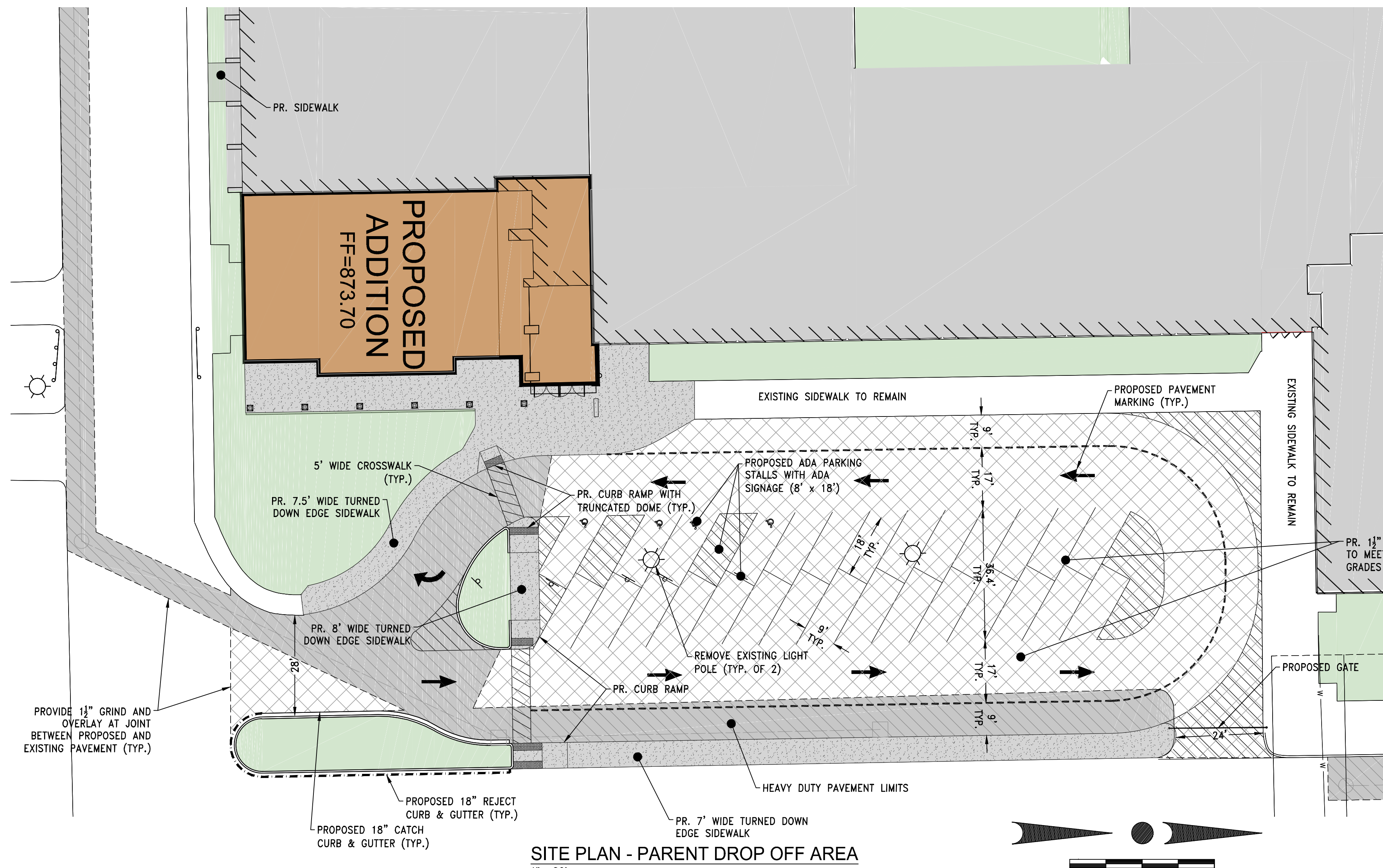
PLAN SHEET KEY
NTS

PROVIDE 1 1/2" GRIND AND OVERLAY AT JOINT BETWEEN PROPOSED AND EXISTING PAVEMENT (TYP.)

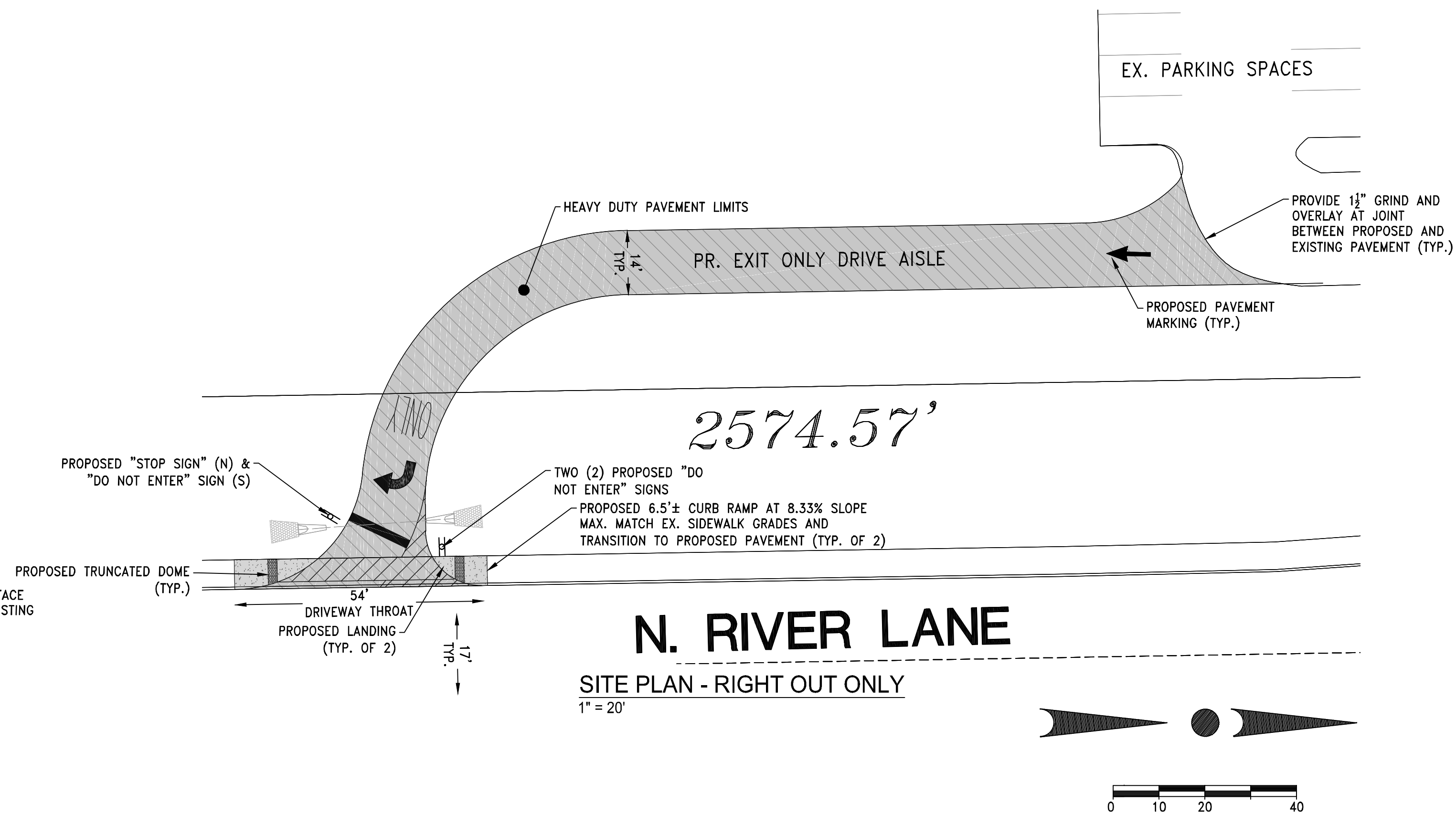
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SITE PLAN - FIELD HOUSE SOUTHERN LOT
1" = 20'



SITE PLAN - PARENT DROP OFF AREA
1" = 20'



SITE PLAN - RIGHT OUT ONLY
1" = 20'

SITE DEVELOPMENT PLAN
1" = 20'

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Brookfield, WI 53005
Tel: (262) 780-1448
Fax: (262) 780-1448
email: jordan@prach.com

GERMANTOWN H.S. - ADDITIONS & REMODELING
W180 N11501 RIVER LN, GERMANTOWN, WI 53022

Revisions

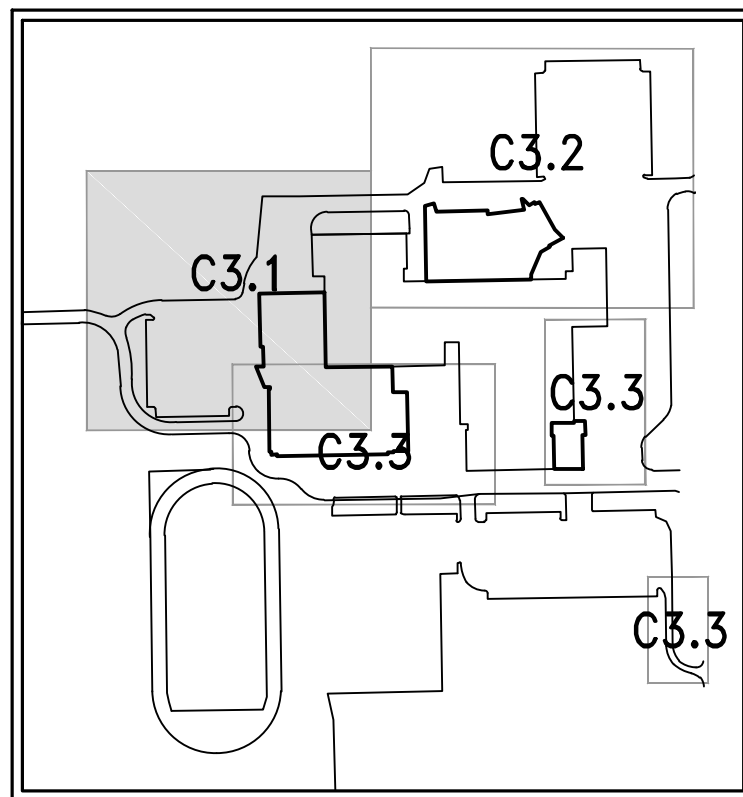
04-20-17 INITIAL SUBMITTAL
05-17-17 REV. PER BID SET
Date:
05-17-17
Job No.:
160024-06
Sheet No.:
C203



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LEGEND:	
904	EXISTING CONTOUR
904	PROPOSED CONTOUR
→	PROPOSED FLOW ARROW
XXX.XX	PROPOSED SPOT ELEVATION
FF=870.00	PROPOSED FINISHED FLOOR ELEV.



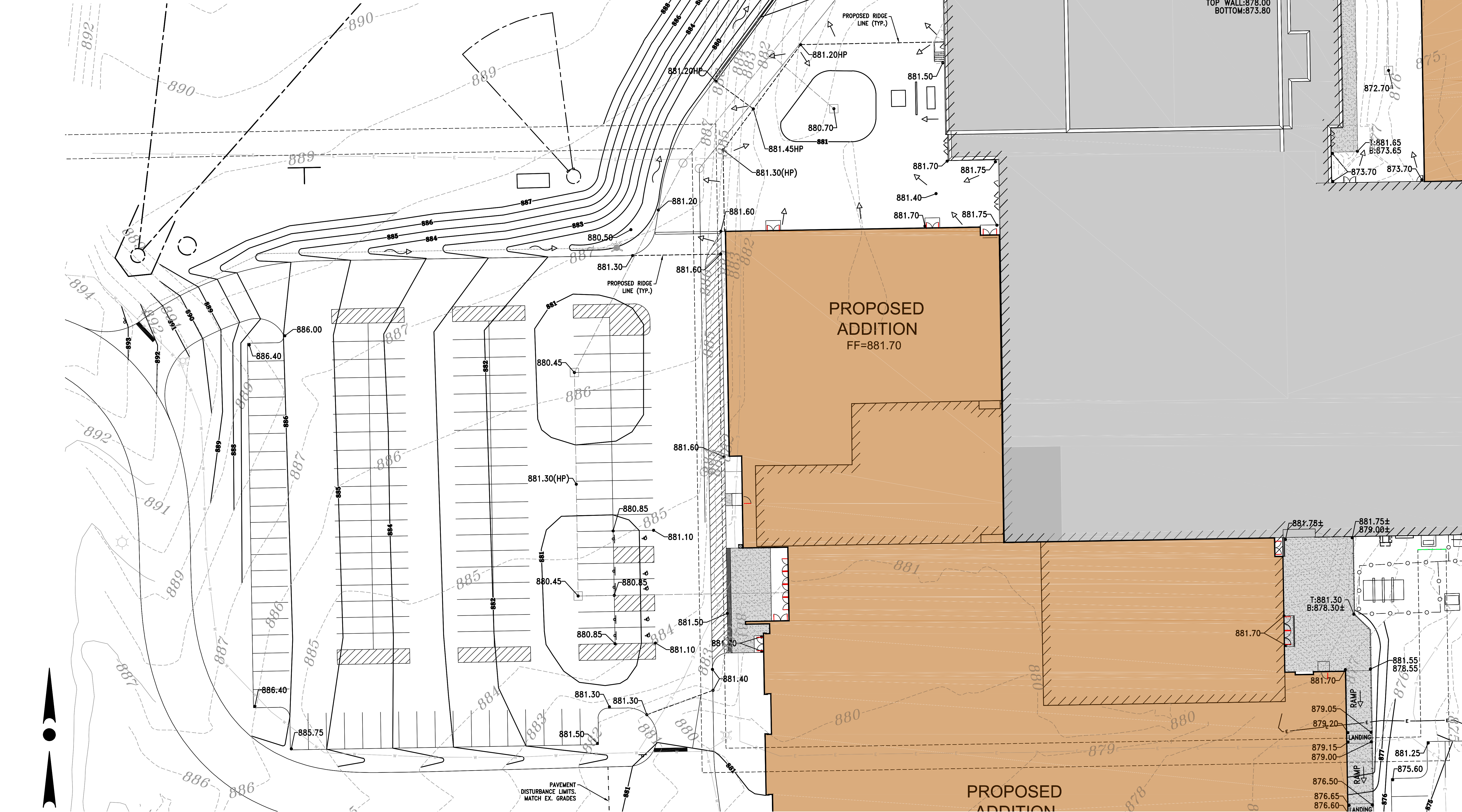
PLAN SHEET KEY
N76



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RETAINING WALL-UPPER TIER
T:883.00 - 881.00
B:881.00 - 879.00



SITE GRADING PLAN
1"=20'



prad
PLUNKETT RAYSICH
ARCHITECTS, LLP

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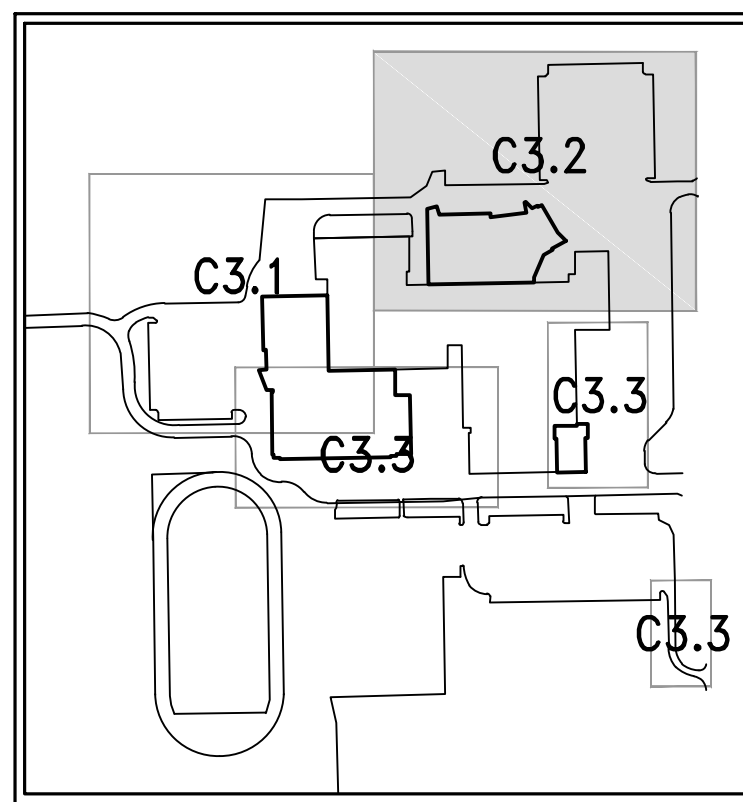
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Revisions	
04-20-17	INITIAL SUBMITTAL
05-17-17	REV. PER BID SET
Date:	05-17-17
Job No.:	160024-06
Sheet No.:	C300



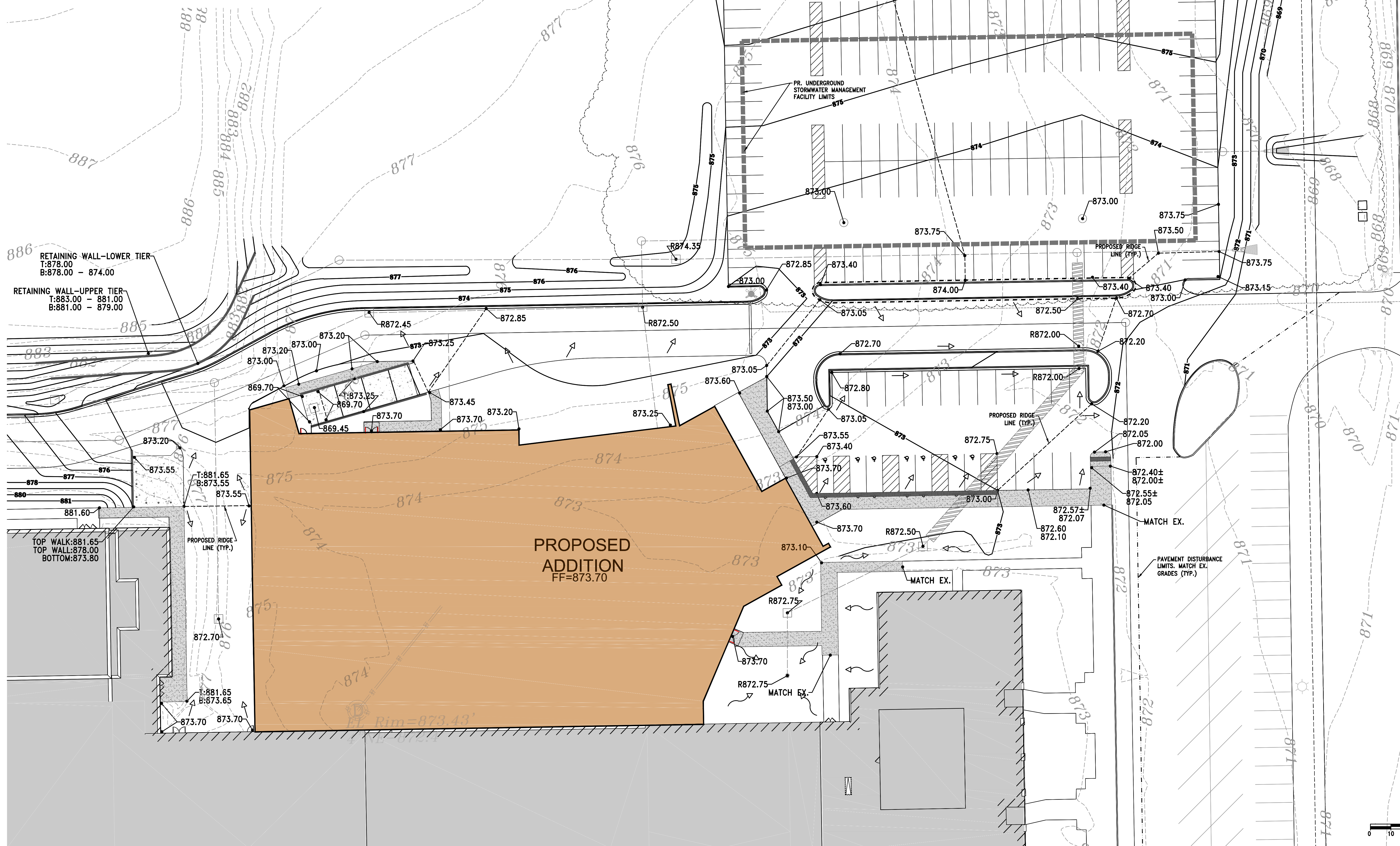
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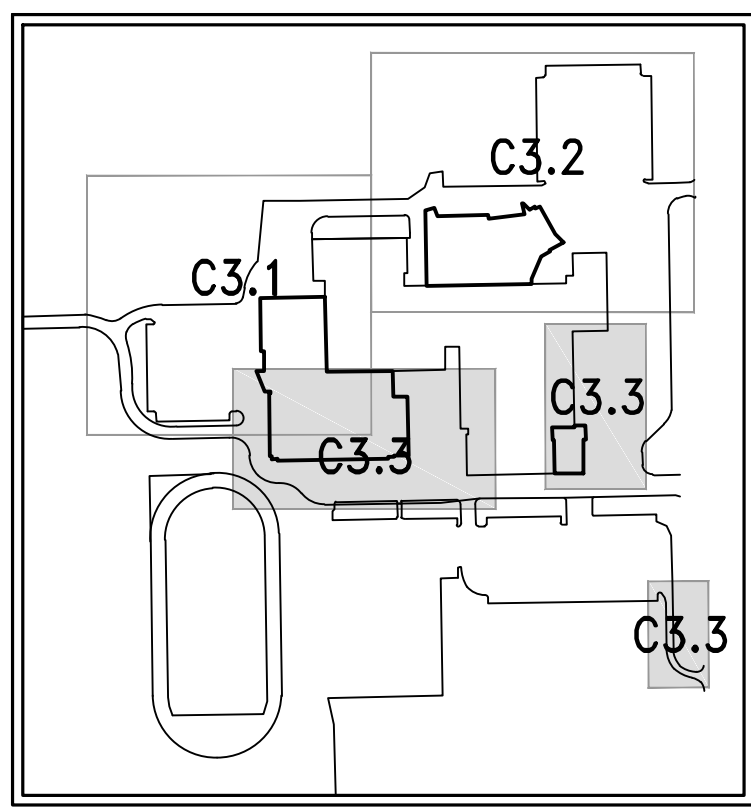


PLAN SHEET KEY
176

LEGEND:	
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→	PROPOSED FLOW ARROW
xxx.xx	PROPOSED SPOT ELEVATION
FF=870.00	PROPOSED FINISHED FLOOR ELEV.



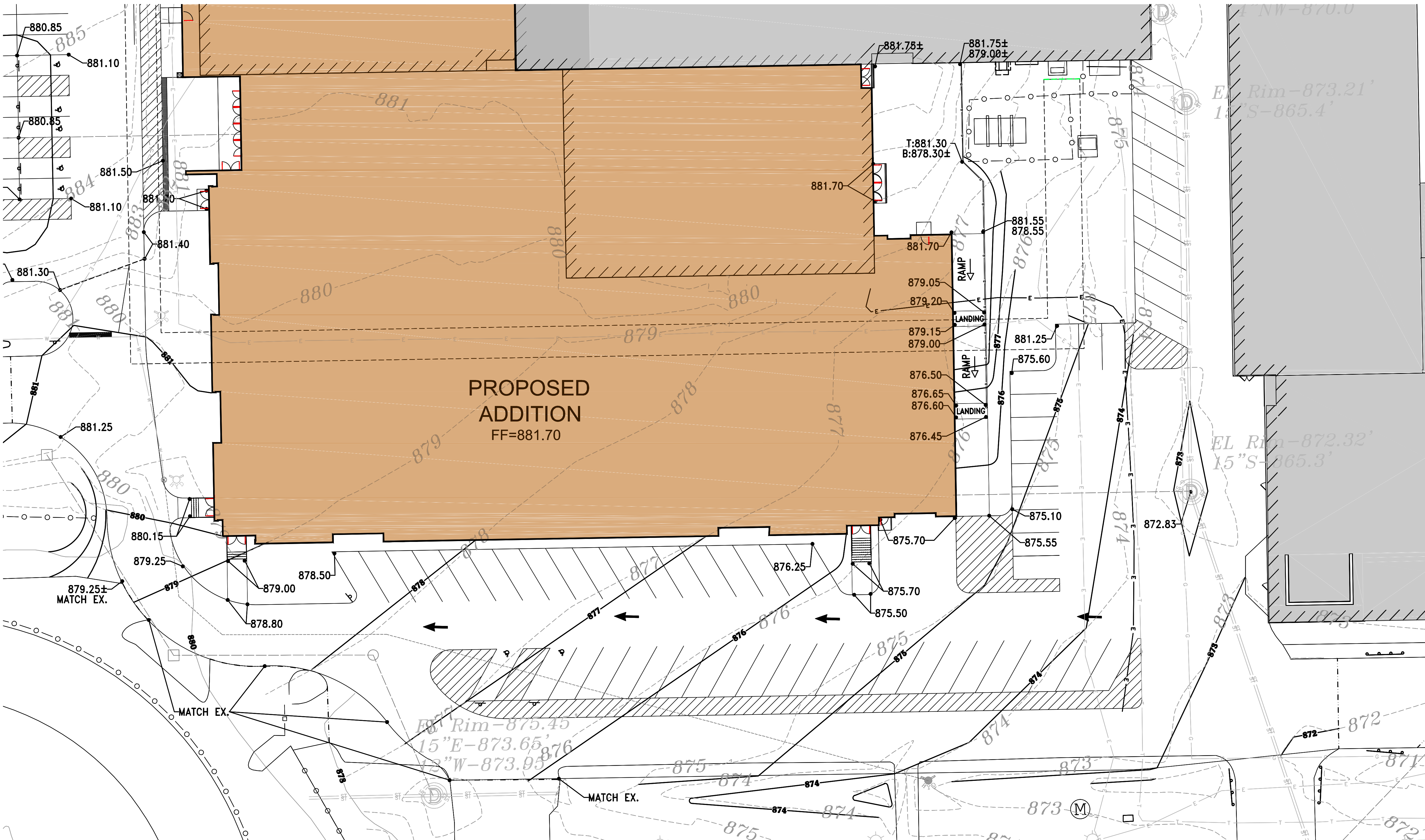
SITE GRADING PLAN
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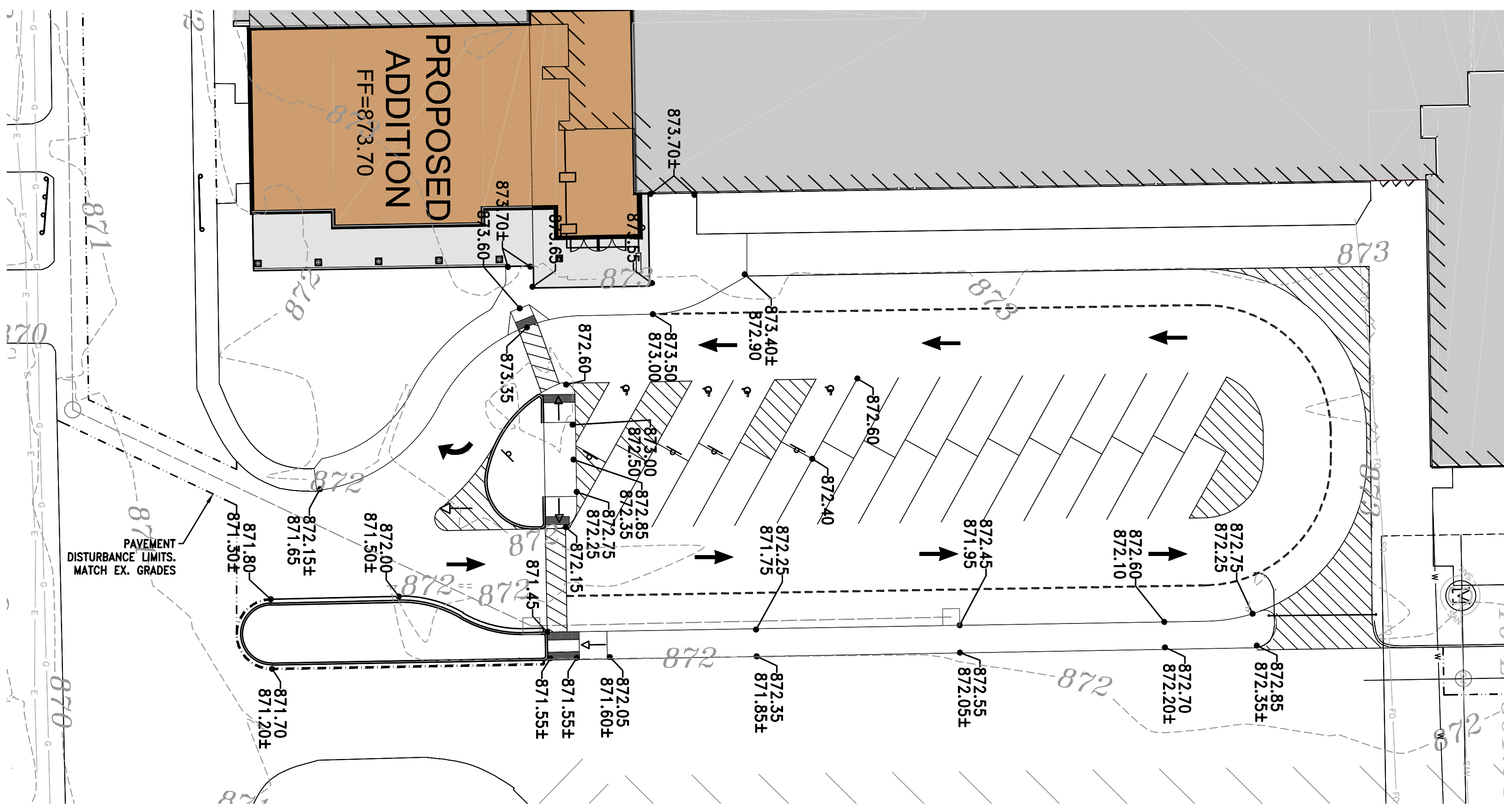
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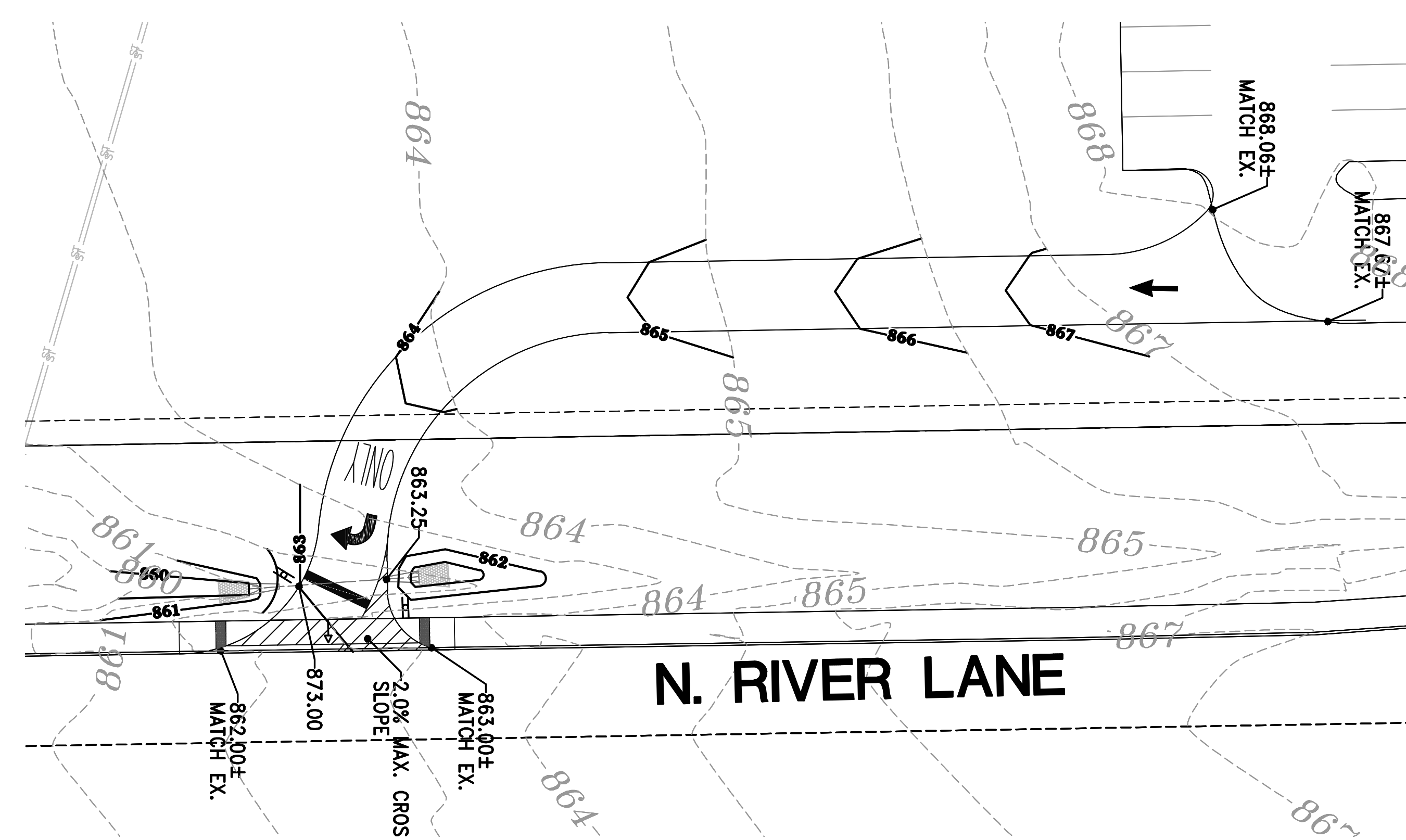
- LEGEND:**
- 904 - EXISTING CONTOUR
 - 904 - PROPOSED CONTOUR
 - PROPOSED FLOW ARROW
 - PROPOSED SPOT ELEVATION
 - FF=870.00 - PROPOSED FINISHED FLOOR ELEV.



SITE PLAN - FIELD HOUSE SOUTHERN LOT
1" = 20'



SITE PLAN - PARENT DROP OFF AREA
1" = 20'



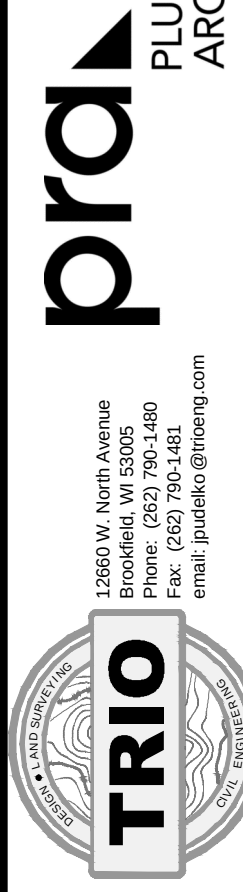
SITE PLAN - RIGHT OUT ONLY
1" = 20'

SITE GRADING PLAN
1" = 20'

GERMANTOWN H.S. - ADDITIONS & REMODELING

W180 N11501 RIVER LN, GERMANTOWN, WI 53022

Revisions	
04-20-17	INITIAL SUBMITTAL
05-17-17	REV. PER BID SET
Date:	
05-17-17	
Job No.:	
160024-06	
Sheet No.:	
C302	



209 south water street milwaukee, wisconsin 53204 414.359.3560
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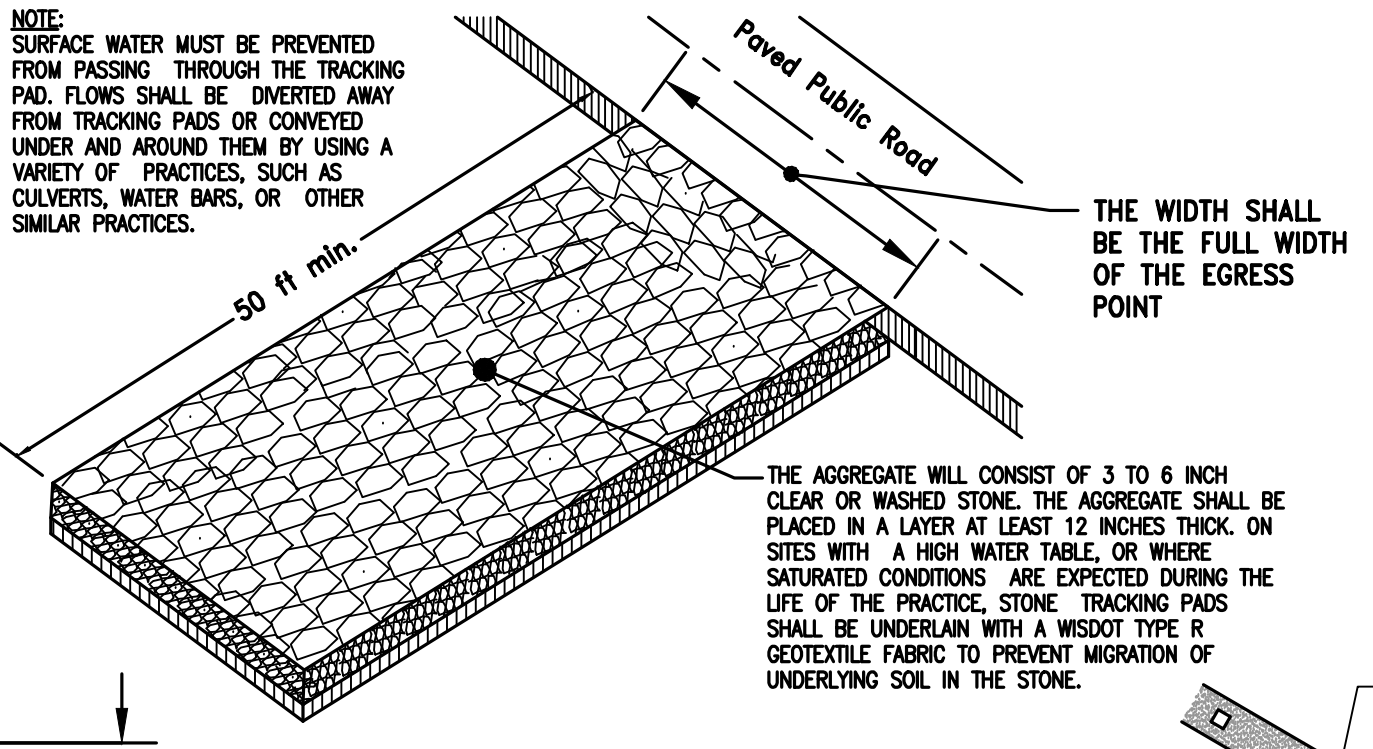
prarch
PLUNKETT RAYSICH
ARCHITECTS, LLP

13200 W. North Avenue
Brookfield, WI 53005
Phone: (262) 780-1448
Fax: (262) 780-1448
email: jprarch@prarch.com

TEMPORARY DEWATERING GEOTEXTILE BAG

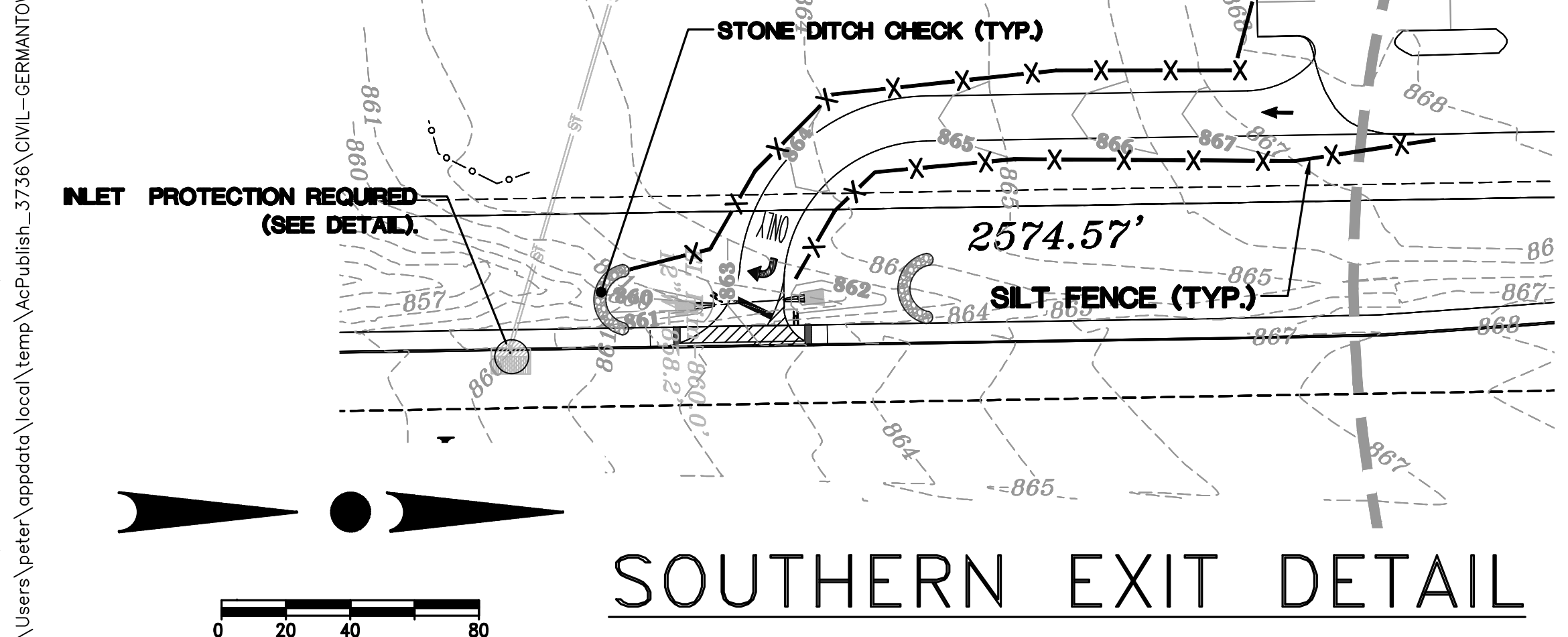
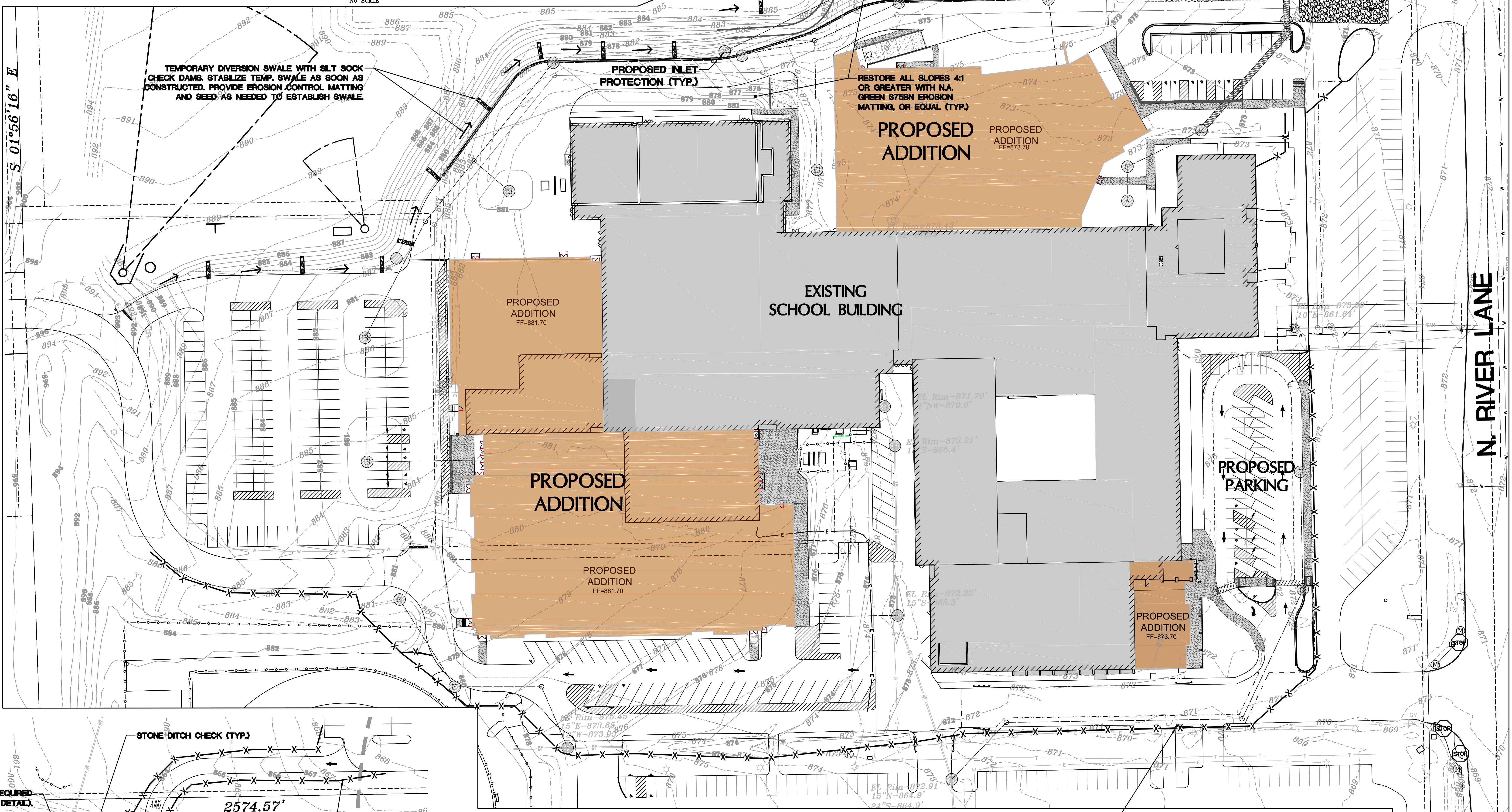
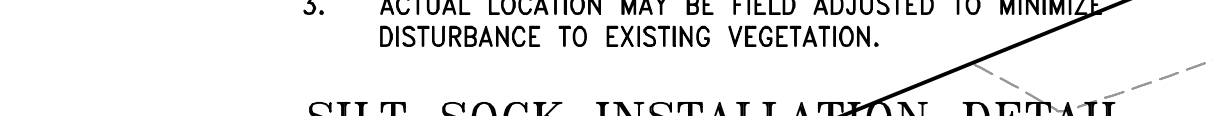
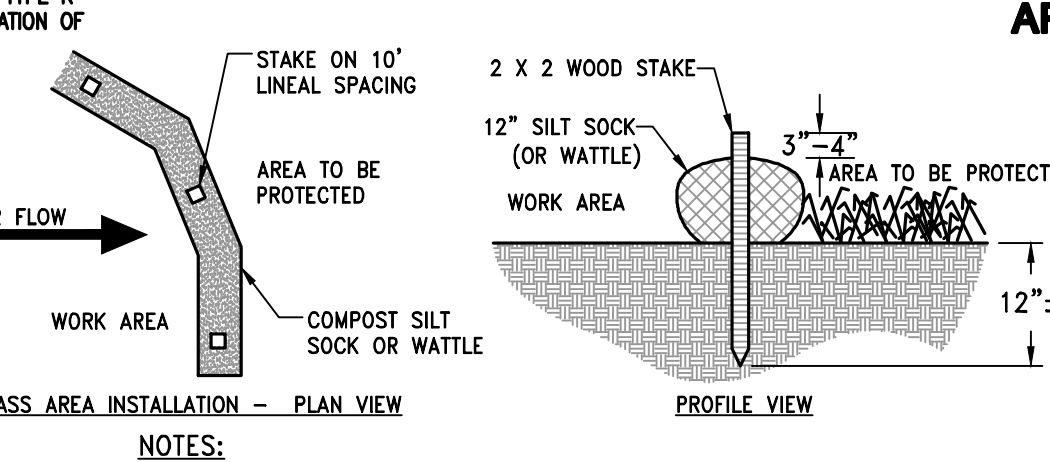
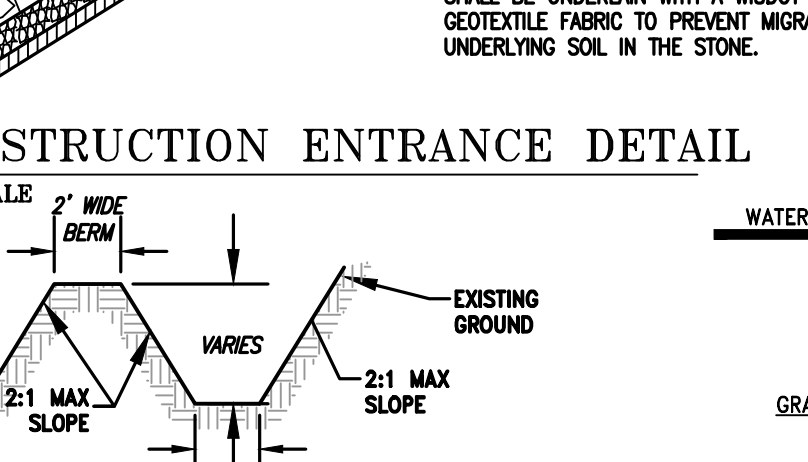
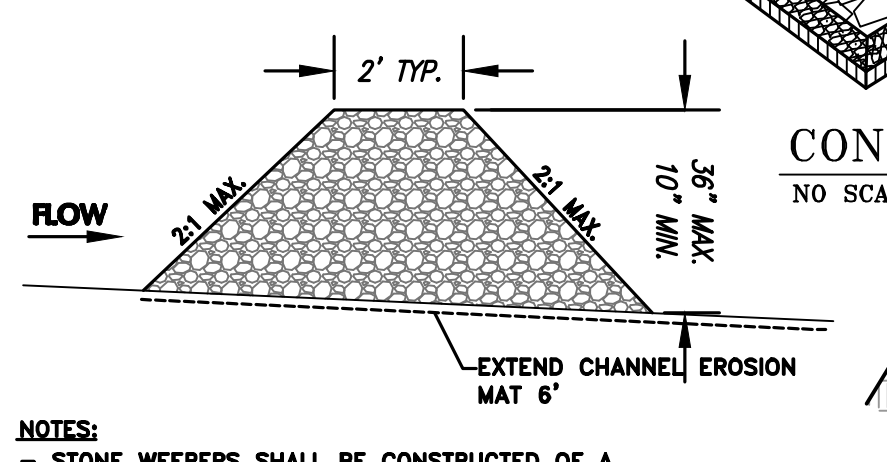
- IF DEWATERING IS REQUIRED, A GEOTEXTILE DEWATERING BAG MEETING THE SPECIFICATIONS IN THE TABLE TO THE RIGHT SHALL BE UTILIZED AS STATED ON THE EROSION CONTROL PLAN.
- REFER TO WORN TECHNICAL STANDARDS 1061 AND MANUFACTURERS REQUIREMENTS FOR INSTALLATION AND MAINTENANCE REQUIREMENTS.
- CONTRACTOR MAY USE THRACE-LING, INC. 275EX GEOTEXTILE BAG, OR FUNCTIONAL EQUIVALENT TO MEET TECHNICAL STANDARD REQUIREMENTS.
- CONTRACTOR MAY INSTALL HAY BALES AROUND DEWATERING BAG FOR STABILIZATION AS DICTATED BY SITE CONDITIONS.
- MAX FLOW RATE SHALL NOT EXCEED 100GPM

Property	Test Method	Type I Value
Maximum Apparent Opening Sizes	ASTM D-4751	0.212 mm
Grab Tensile Strength	ASTM D-4632	200 lbs.
Mullen Burst	ASTM D-3786	350 psi
Permeability	ASTM D-4491	0.28 cm/sec
Fabric Weight	Representative	8 oz



- WISCONSIN DEPARTMENT OF NATURAL RESOURCES, CONSERVATION PRACTICE STANDARD:
- 1052 - NON-CHANNEL EROSION MAT
 - 1053 - CHANNEL EROSION MAT
 - 1055 - SEDIMENT BALE BARRIER (NON-CHANNEL)
 - 1056 - SILT FENCE
 - 1057 - STONE TRACKING PAD AND TIRE WASHING
 - 1058 - MULCHING FOR CONSTRUCTION SITES
 - 1059 - TEMPORARY SEEDING
 - 1060 - STORM DRAIN INLET PROTECTION FOR CONST. SITES
 - 1061 - DEWATERING
 - 1062 - DITCH CHECK
 - 1063 - SEDIMENT TRAP
 - 1066 - TEMPORARY DIVERSION BERM

WINTER STABILIZATION PROVISIONS:
IF FINAL SITE STABILIZATION OCCURS AFTER OCTOBER 15, CONTRACTOR SHALL UTILIZE ANIONIC POLYACRYLAMIDE AND TEMPORARY SEEDING, AS WELL AS, COORDINATE WITH CITY ENGINEER FOR LATE SEASON STABILIZATION REQUIREMENTS.



LEGEND:

---	EXISTING CONTOUR
- - - -	PROPOSED CONTOUR
→	PROPOSED FLOW ARROW
XXXX.XX	PROPOSED SPOT ELEVATION
---	PROPOSED SILT FENCE
---	PROPOSED INLET PROTECTION
---	PROPOSED TRACKING PAD

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PROPOSED SILT FENCE AND OR STRAW WATTLE USE STRAW WATTLE IN AREAS THAT ARE TO REMAIN HARD SURFACE (TYP.)

SEE DETAIL

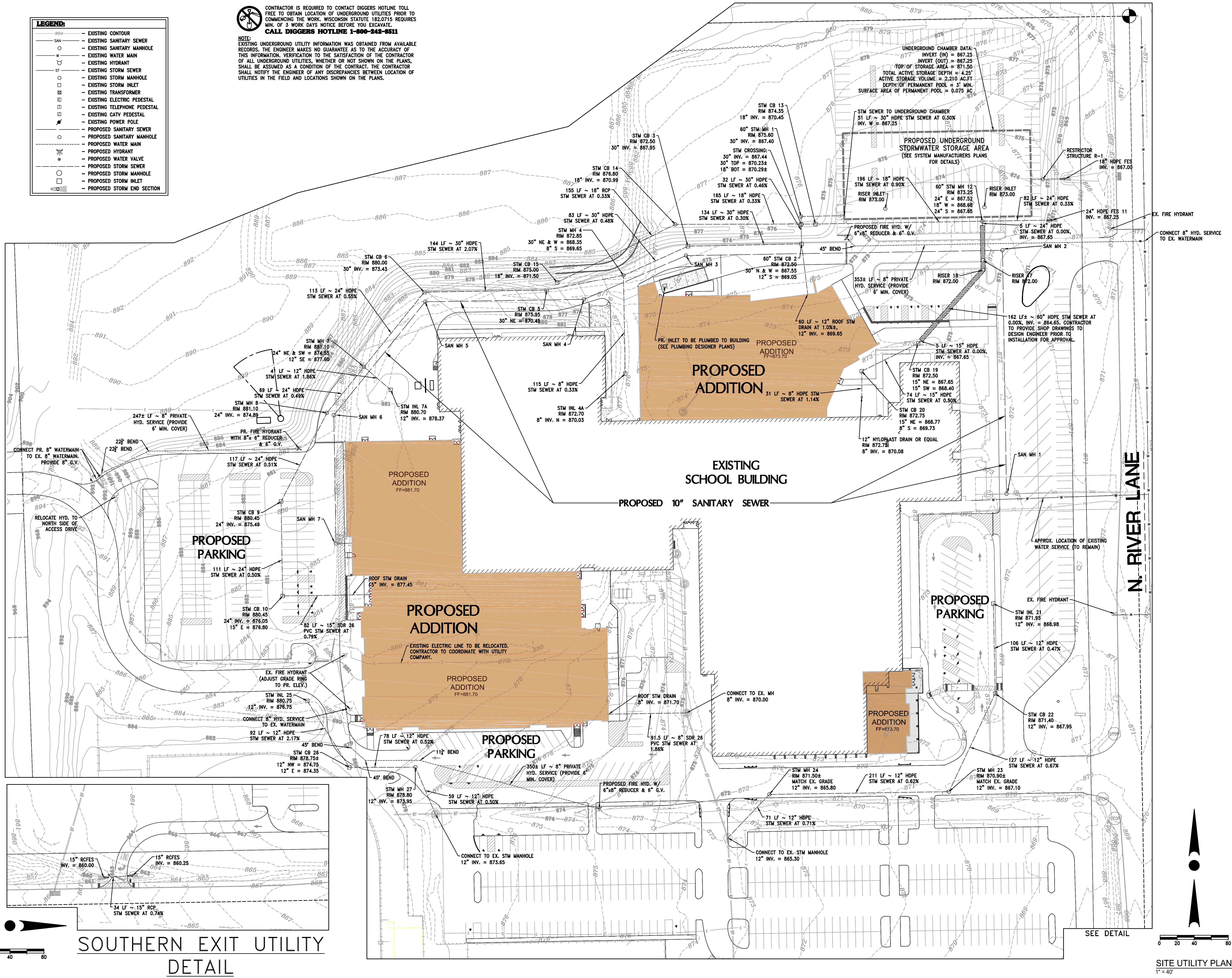
SITE EROSION CONTROL PLAN
1" = 40'

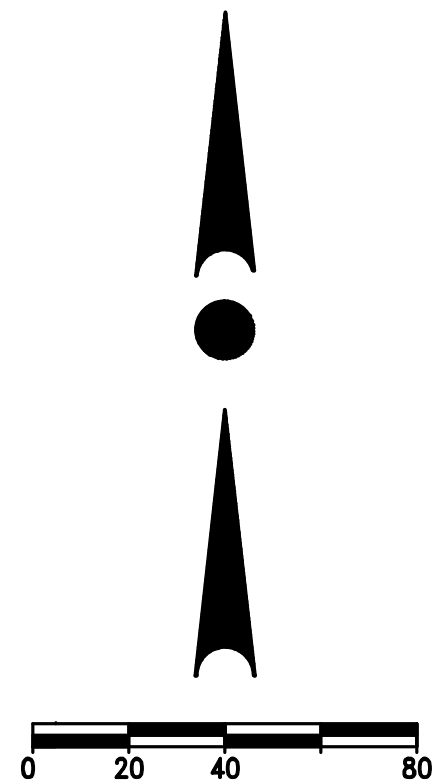
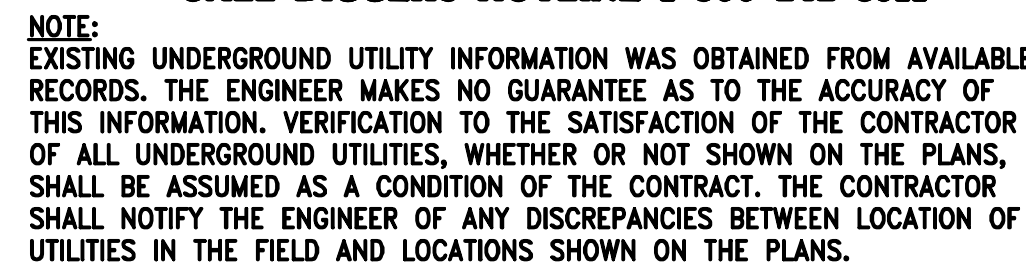
- LEGEND:**
- EXISTING CONTOUR
 - SAN
 - EXISTING SANITARY SEWER
 - EXISTING SANITARY MANHOLE
 - EXISTING WATER MAIN
 - EXISTING HYDRANT
 - EXISTING STORM SEWER
 - EXISTING STORM MANHOLE
 - EXISTING STORM INLET
 - EXISTING TRANSFORMER
 - EXISTING ELECTRIC PEDESTAL
 - EXISTING TELEPHONE PEDESTAL
 - EXISTING CATV PEDESTAL
 - EXISTING POWER POLE
 - PROPOSED SANITARY SEWER
 - PROPOSED SANITARY MANHOLE
 - PROPOSED WATER MAIN
 - PROPOSED HYDRANT
 - PROPOSED WATER VALVE
 - PROPOSED STORM SEWER
 - PROPOSED STORM MANHOLE
 - PROPOSED STORM INLET
 - PROPOSED STORM END SECTION



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COMPLIANT DOCUMENTATION:

THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.

- STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSSWCW)
- THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
- WDRN STORMWATER RUNOFF TREATMENT STANDARDS.
- WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
- VILLAGE OF GERMAINTOWN DEVELOPMENT STANDARDS.

CONTRACTOR RESPONSIBILITY:

-EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD SURVEY. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

-THE LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.

-THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR(S) TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS WORK. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL REQUIRED PERMITS, UNLESS OTHERWISE SPECIFIED.

-THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AS CONSTRUCTION ACTIVITIES ARE COMPLETED TO PROVIDE CONSTRUCTION OVERSIGHT AND INSPECTION IN ACCORDANCE WITH THE CONSTRUCTION INSPECTION PLAN.

-THE OWNER WILL PROVIDE ALL SURVEYING AND CONSTRUCTION STAKING FOR THIS CONTRACT. THE CONTRACTOR SHALL EXERCISE CARE AND DILIGENCE IN PROTECTING THE SAME. ANY EXPENSE INCURRED FOR ADDITIONAL RESTAKING CAUSED BY CONTRACTOR'S NEGLIGENCE WILL BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM THE SUMS DUE HIM UNDER THIS CONTRACT.

-ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

-CONTRACTOR SHALL BE PREPARED FOR Dewatering CONDITIONS BY HAVING APPROPRIATE PUMPS AND FILTER BAGS ON SITE FOR Dewatering AND REMOVAL OF ALL SEDIMENT PER CITY, COUNTY AND WDRN REQUIREMENTS PER TECHNICAL STANDARD 1061.

TRAFFIC CONTROL:

-PUBLIC ROADS SHALL NOT BE FULLY CLOSED TO TRAFFIC AT ANY TIME. ALL INGRESS AND EGRESS TRAFFIC TO THE PROJECT SHALL BE LIMITED TO THE GRAVEL ENTRANCE TO THE PROPERTY.

CONSTRUCTION NOTES:

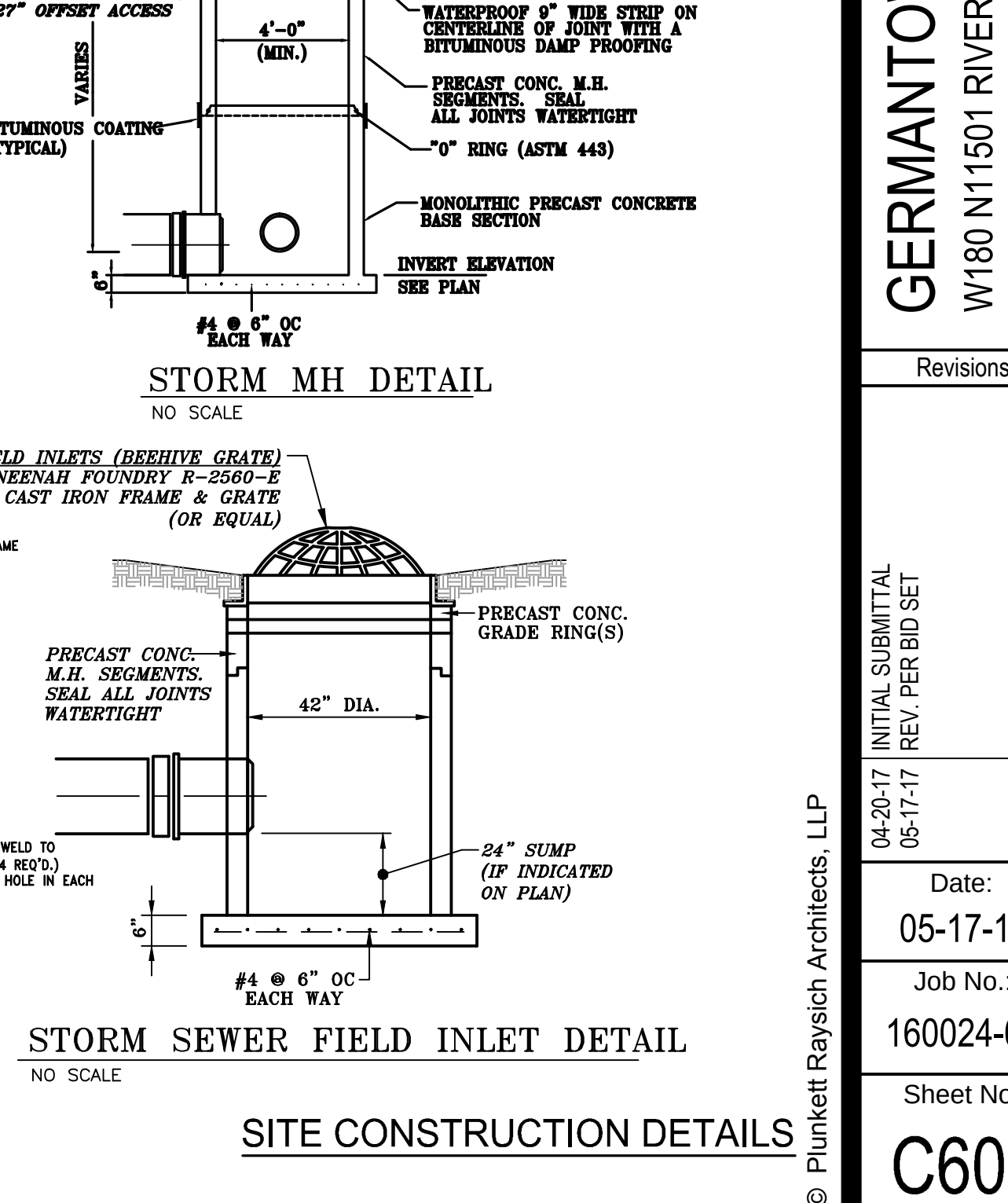
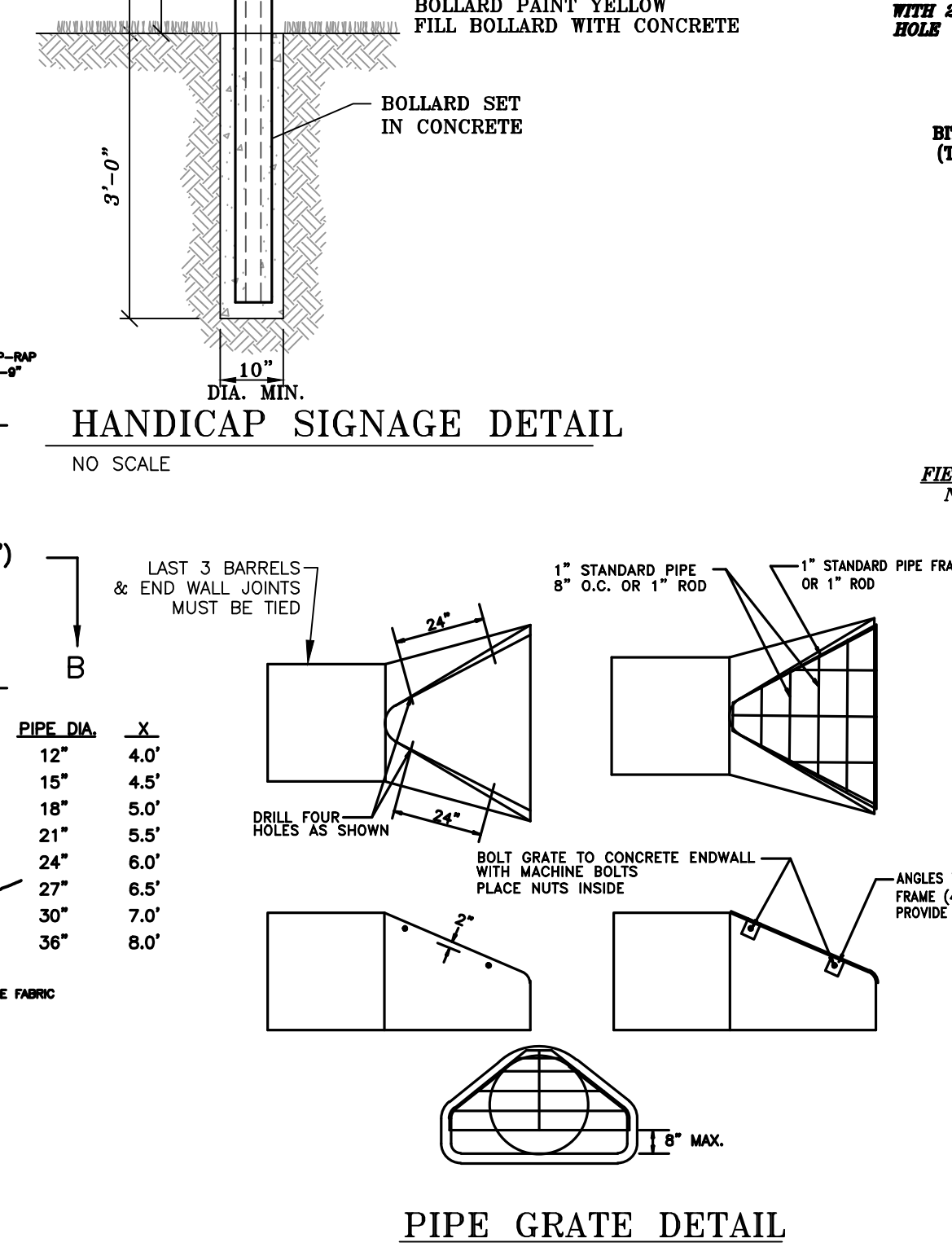
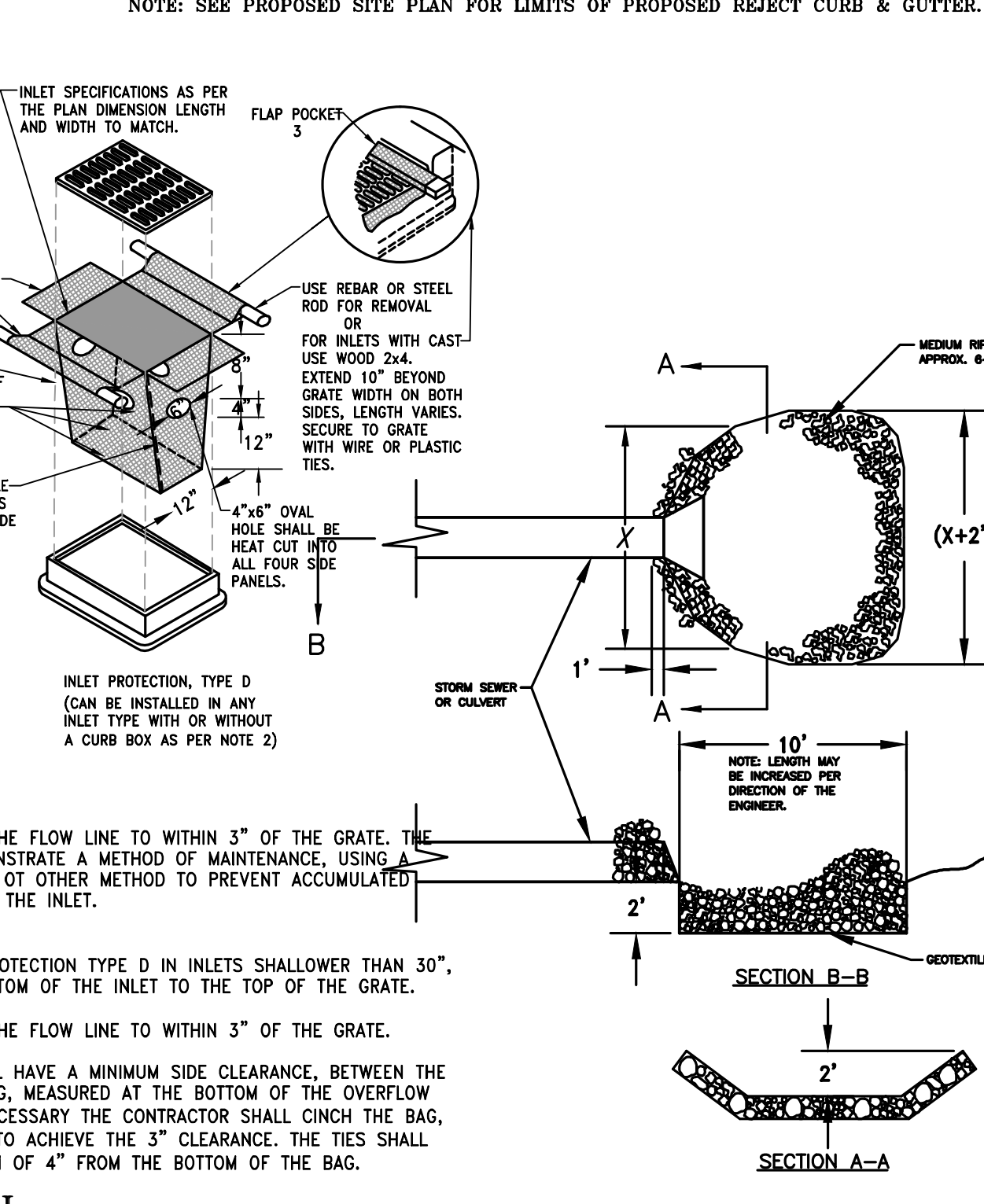
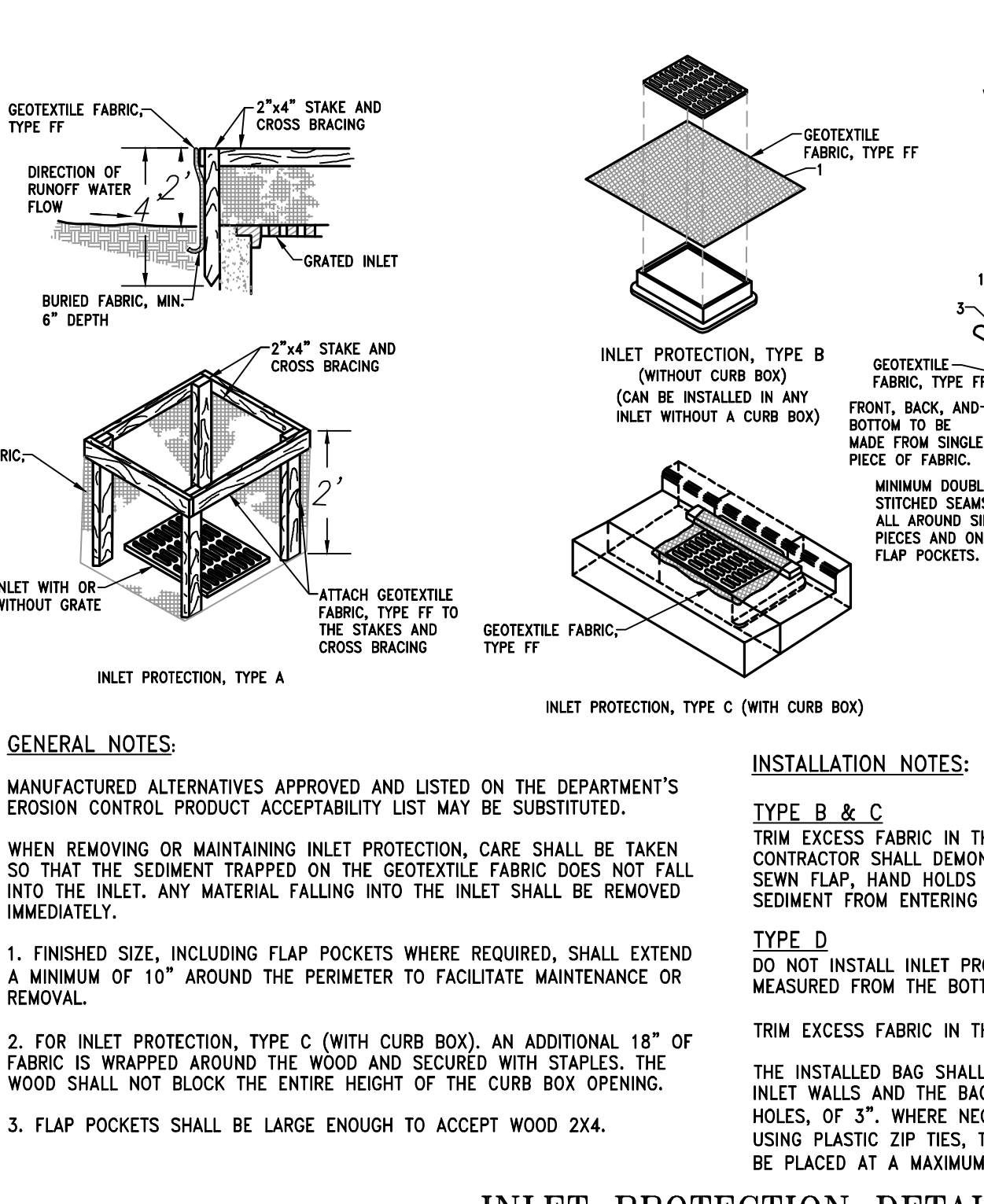
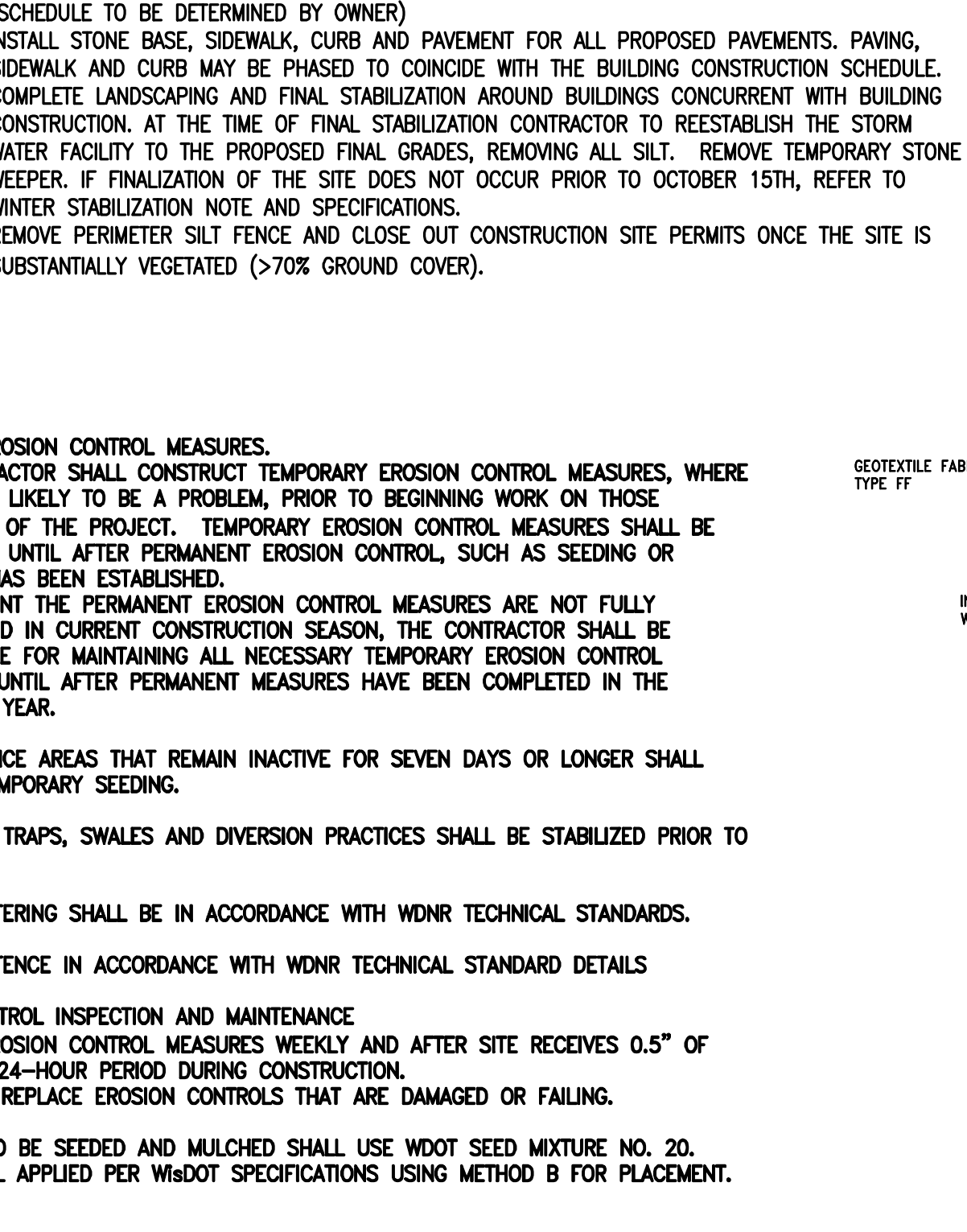
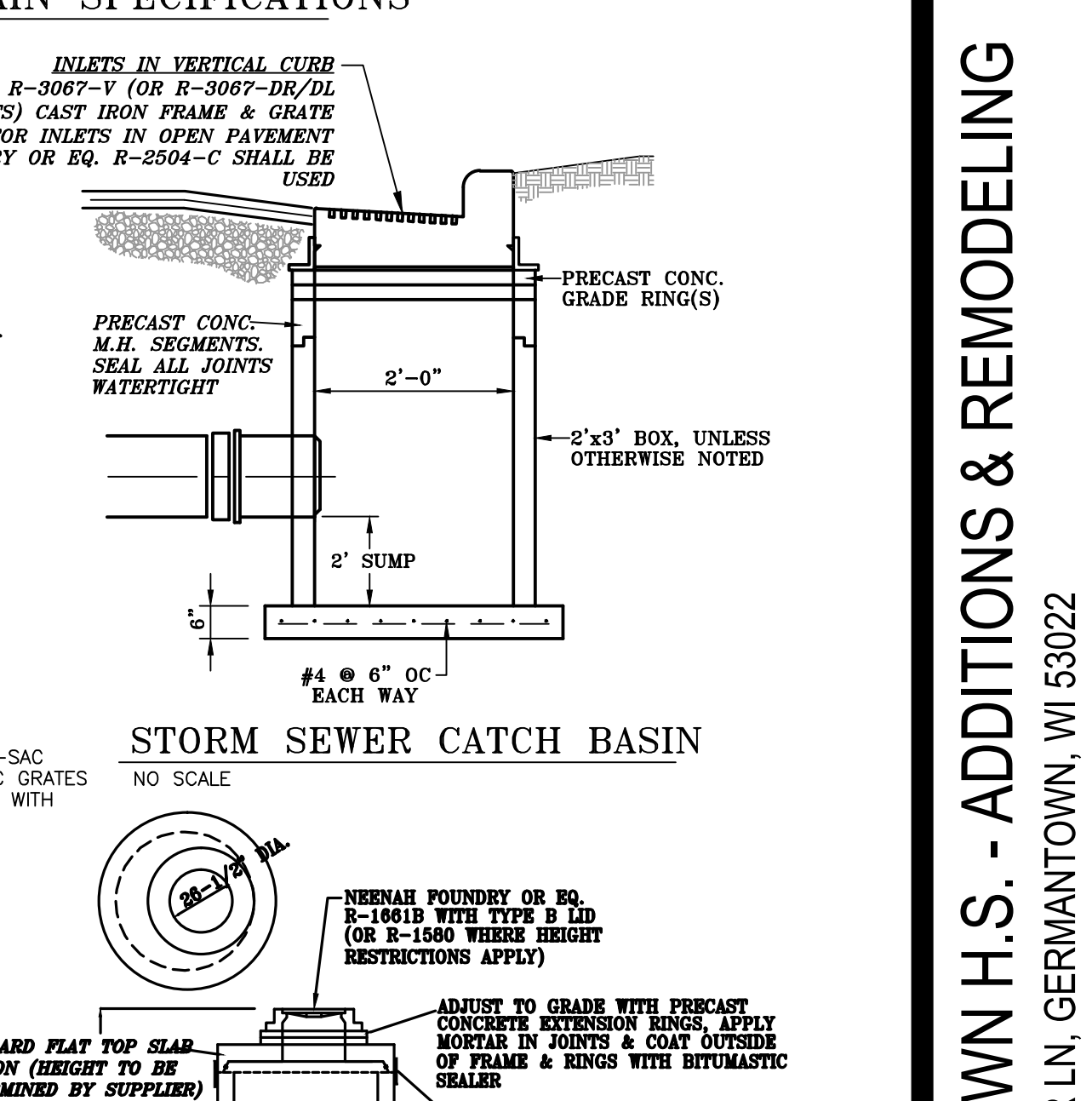
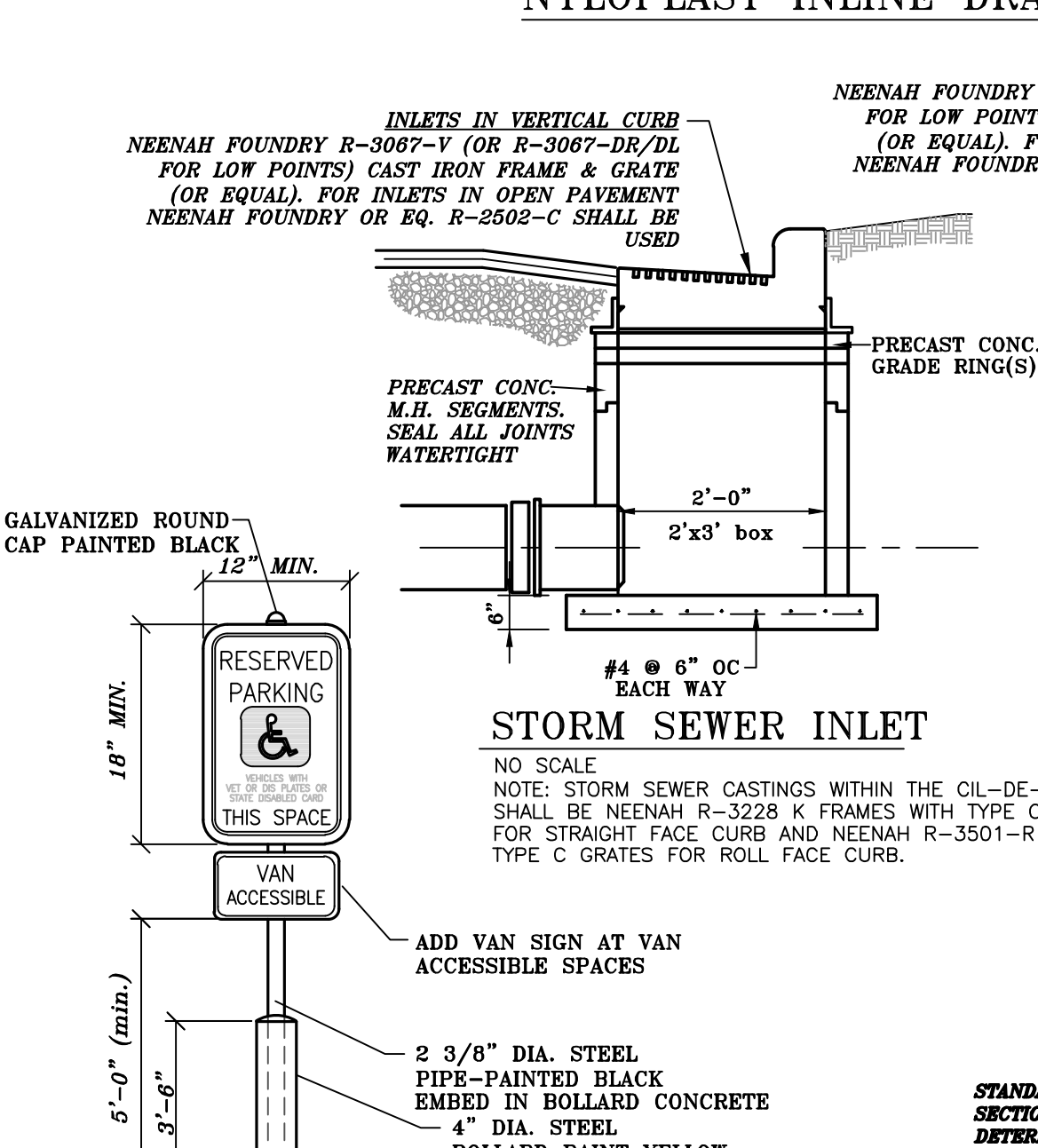
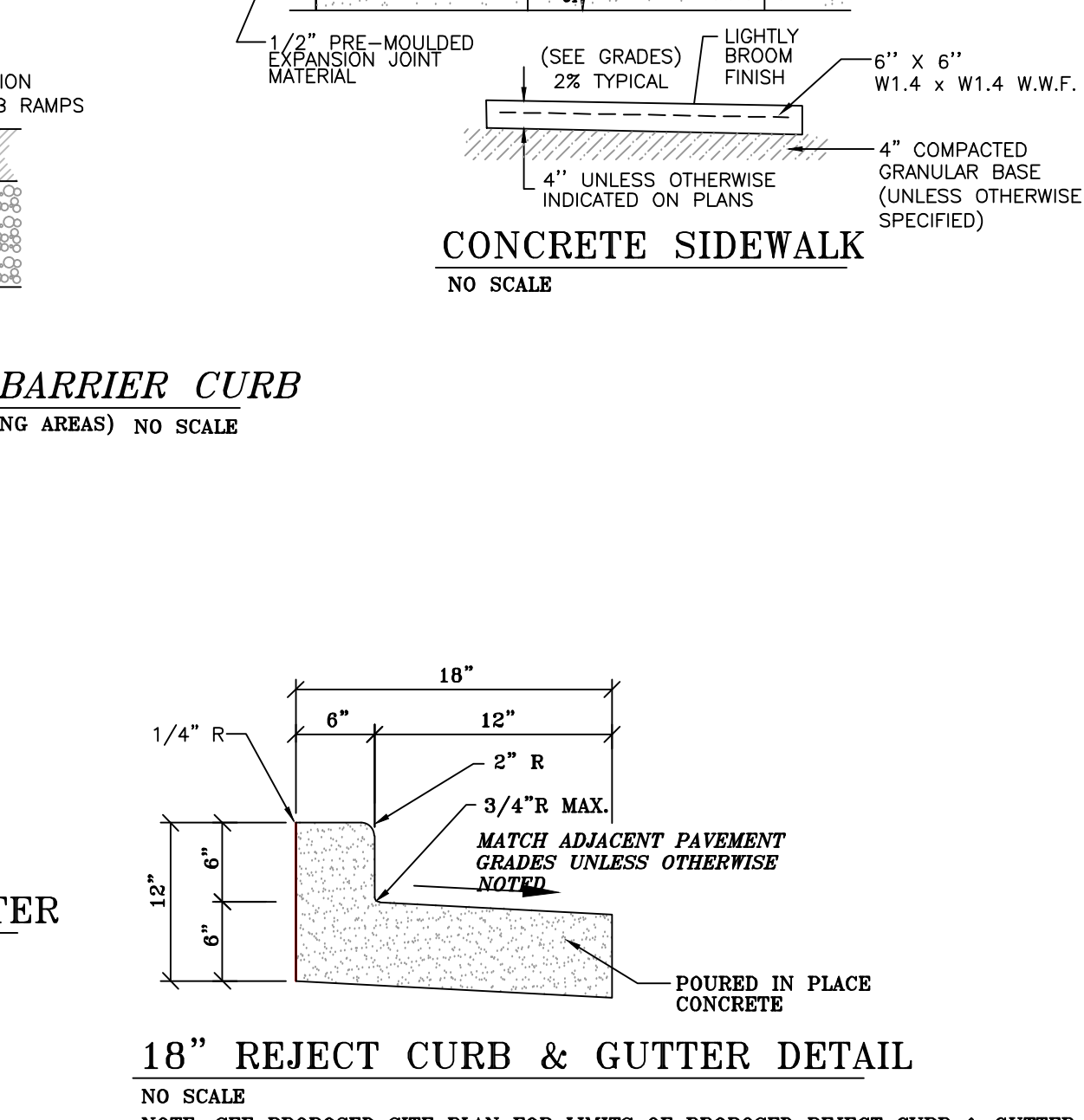
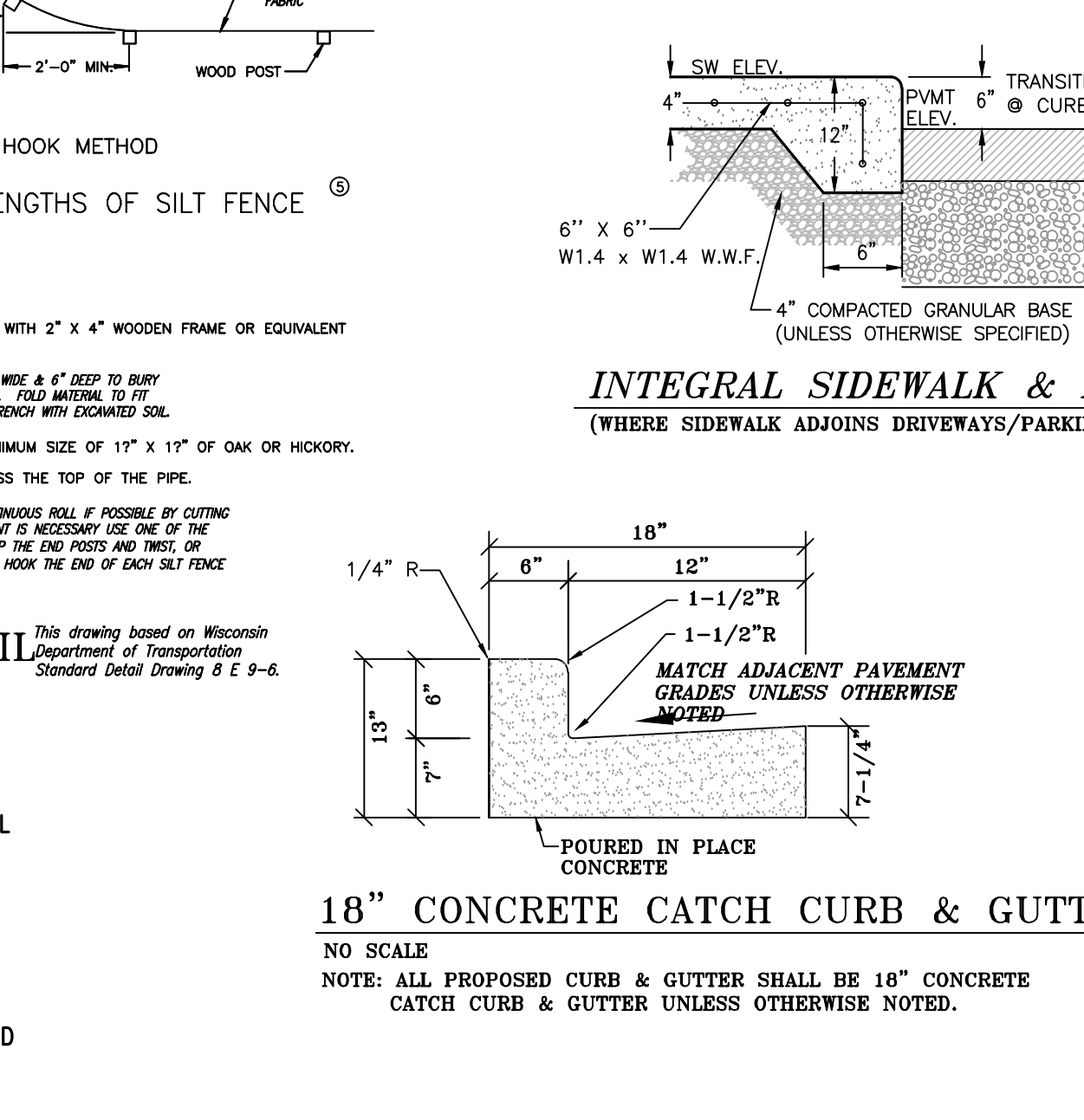
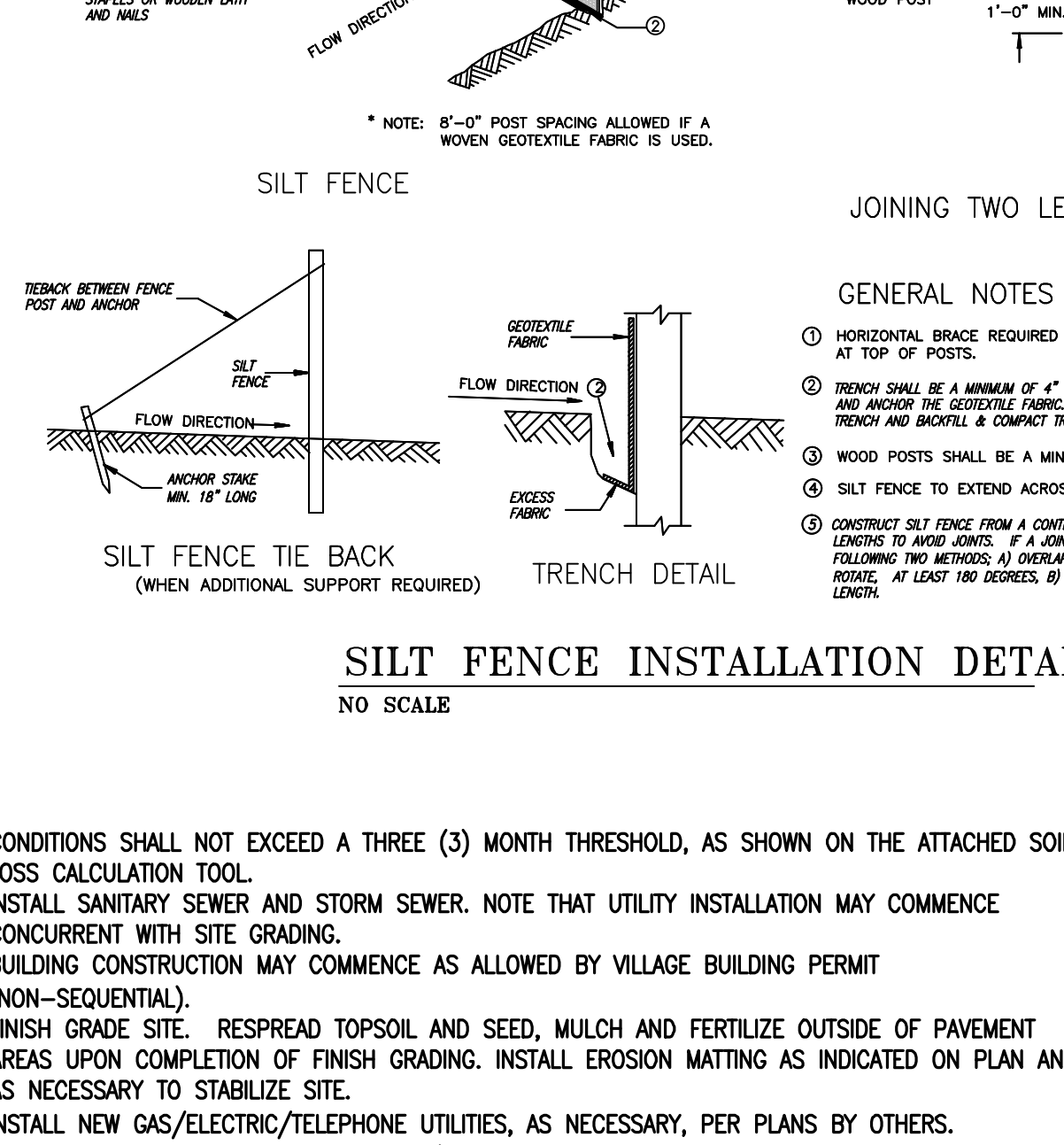
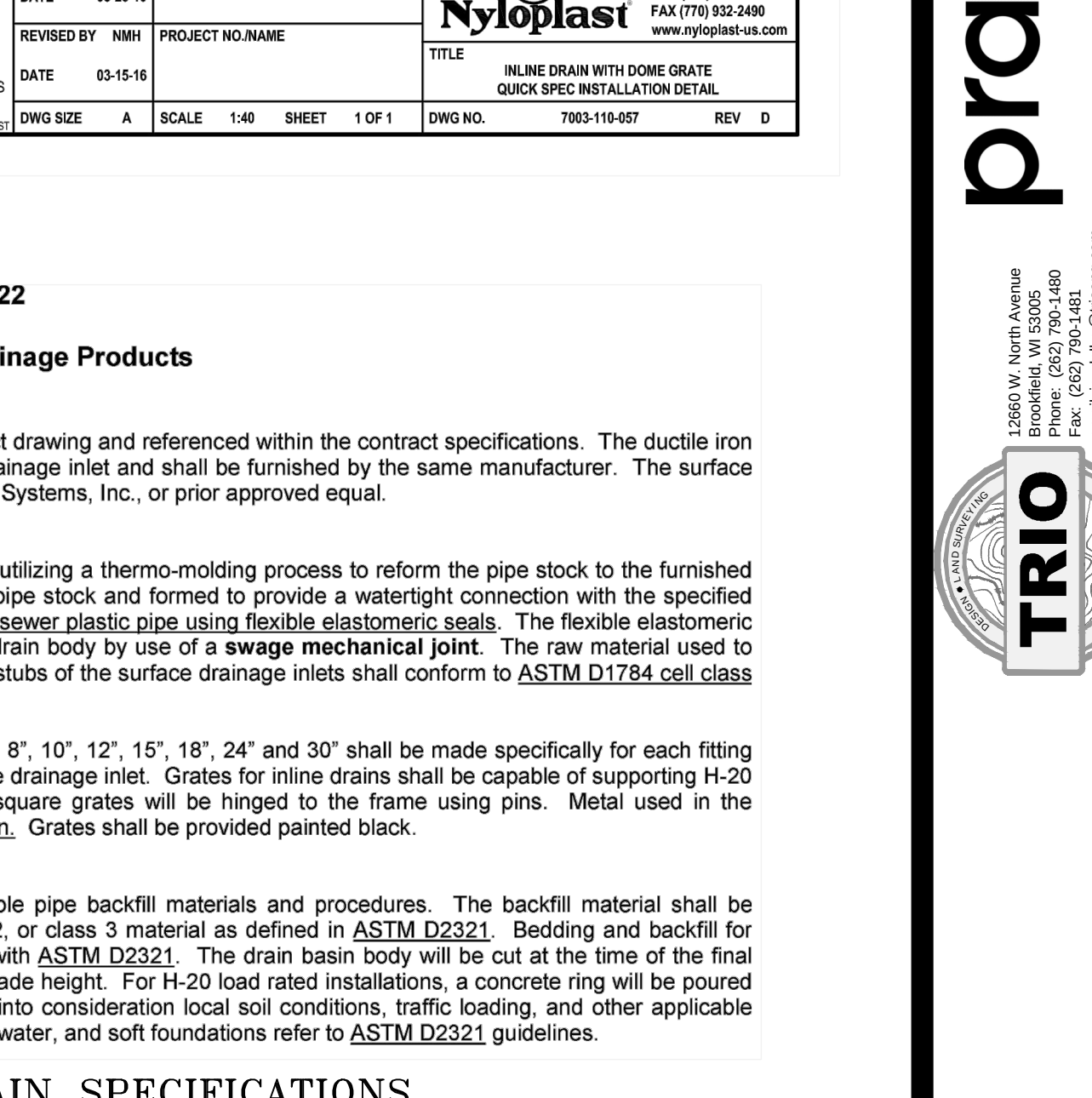
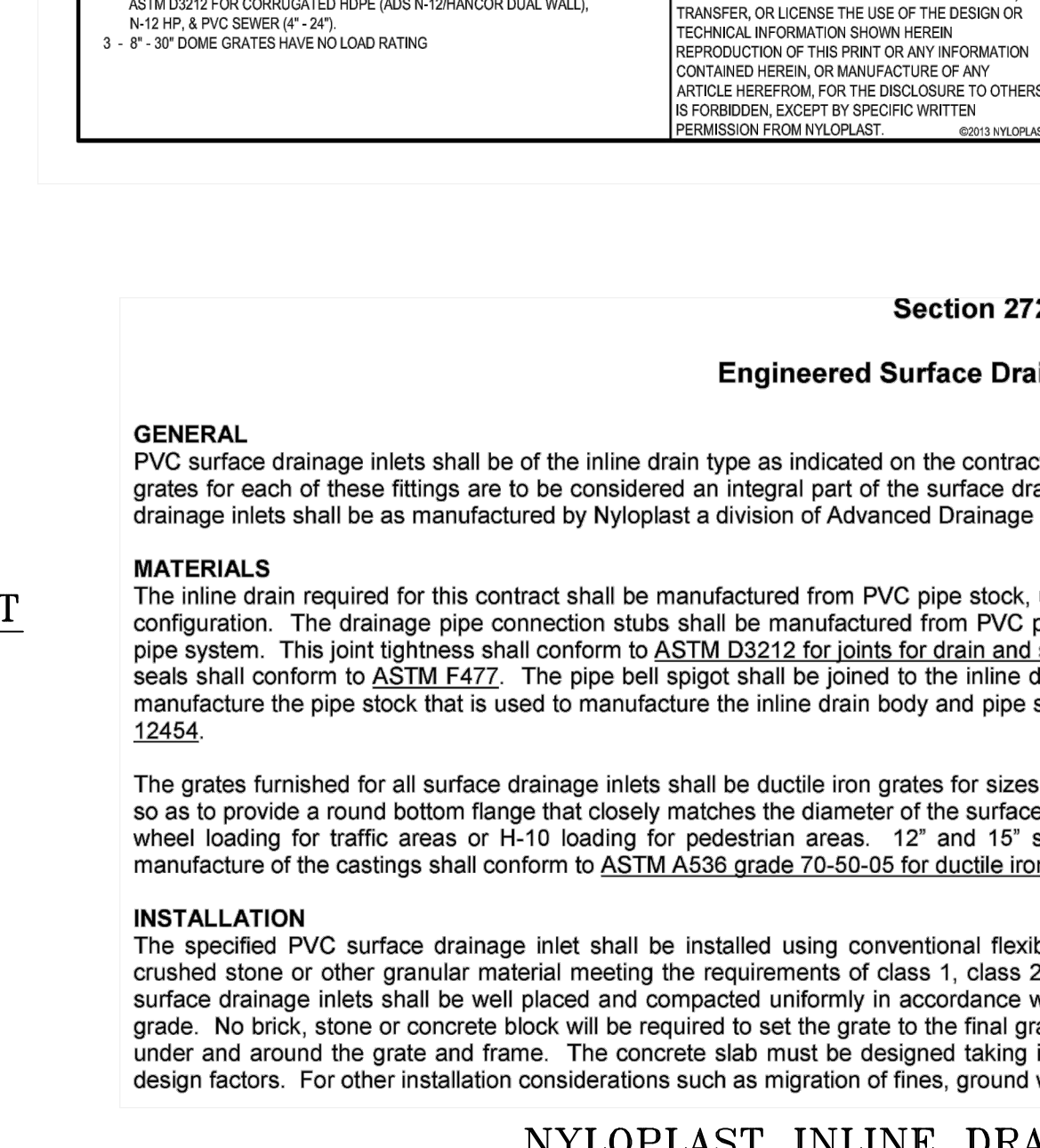
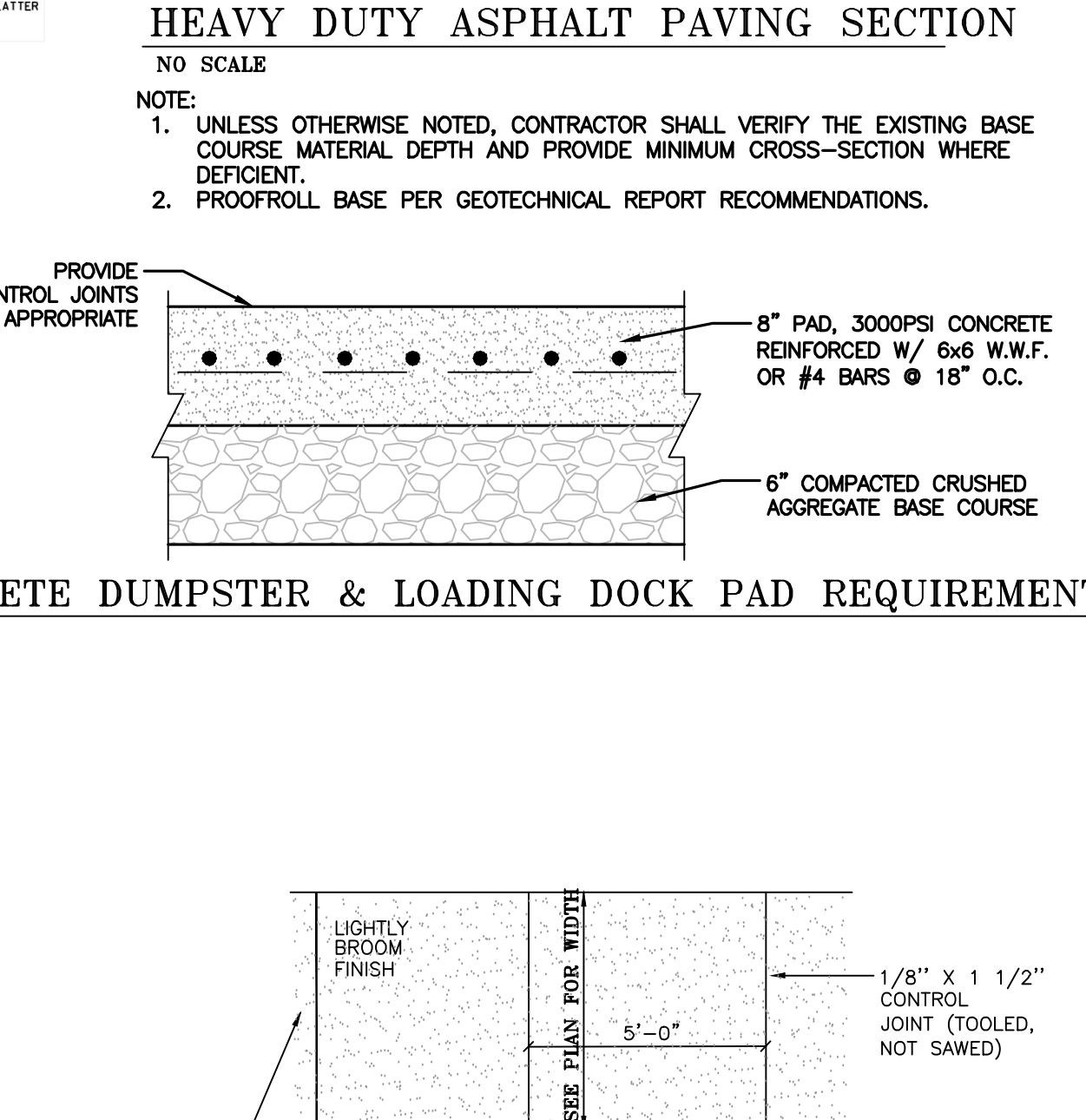
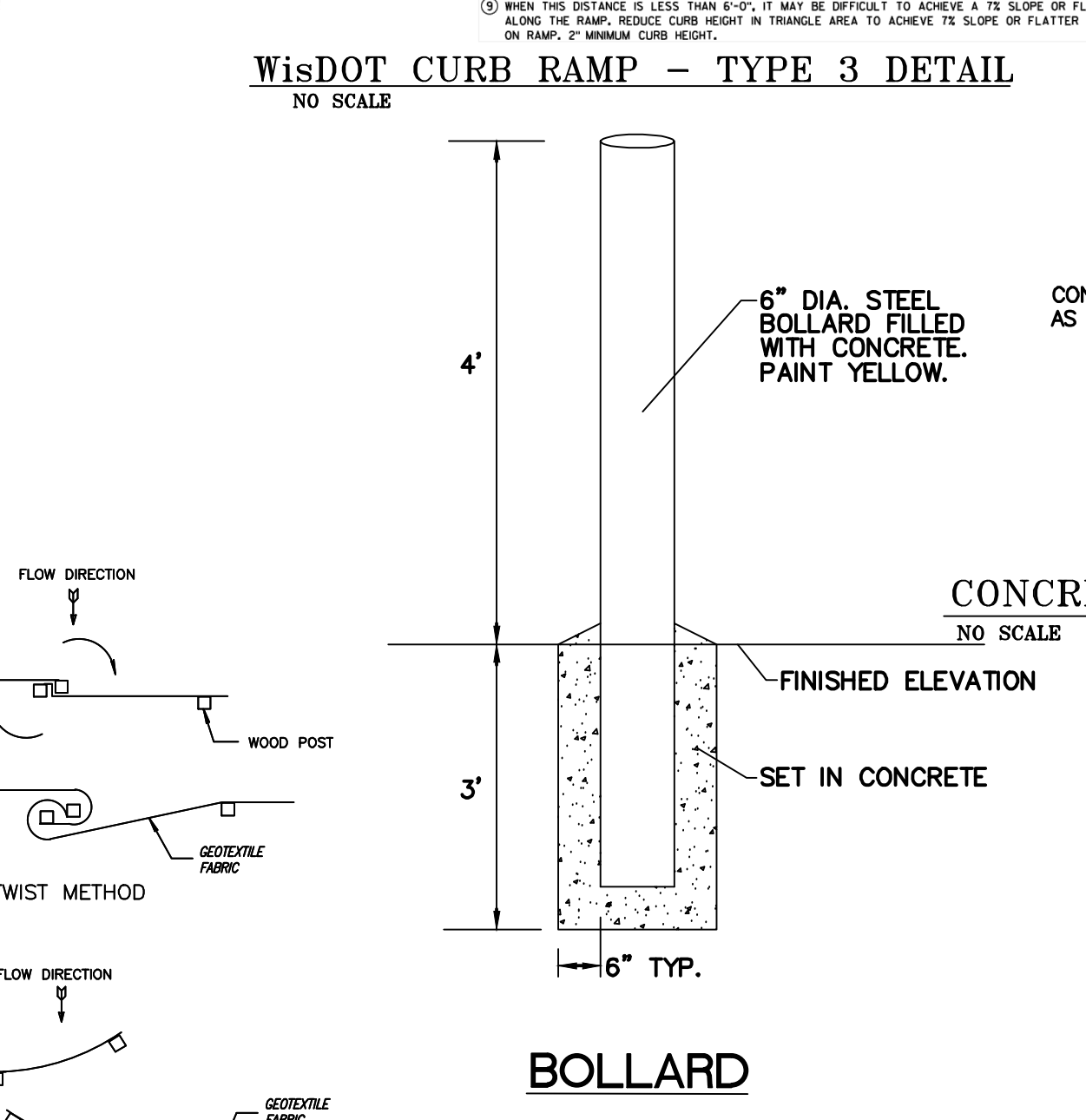
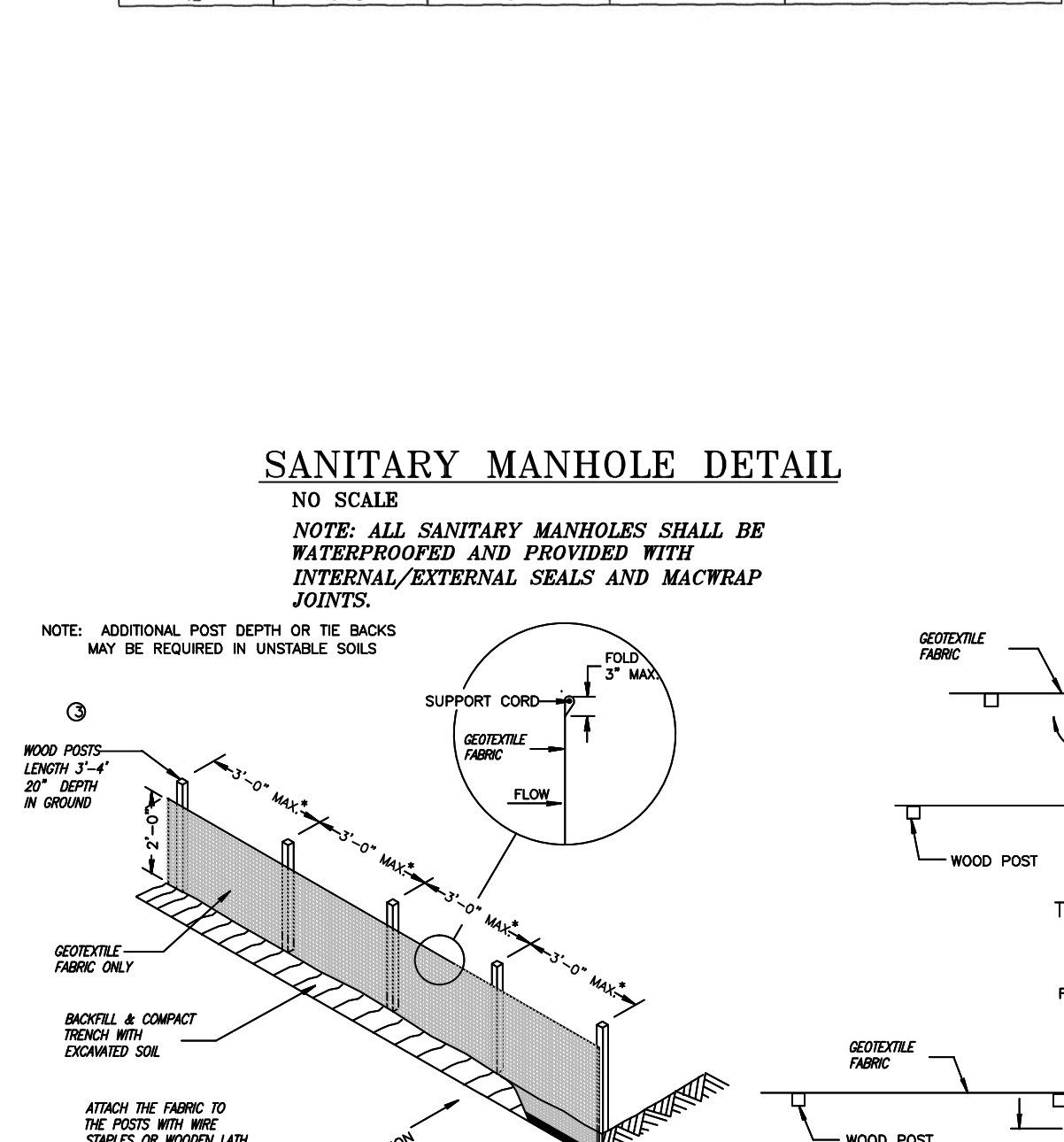
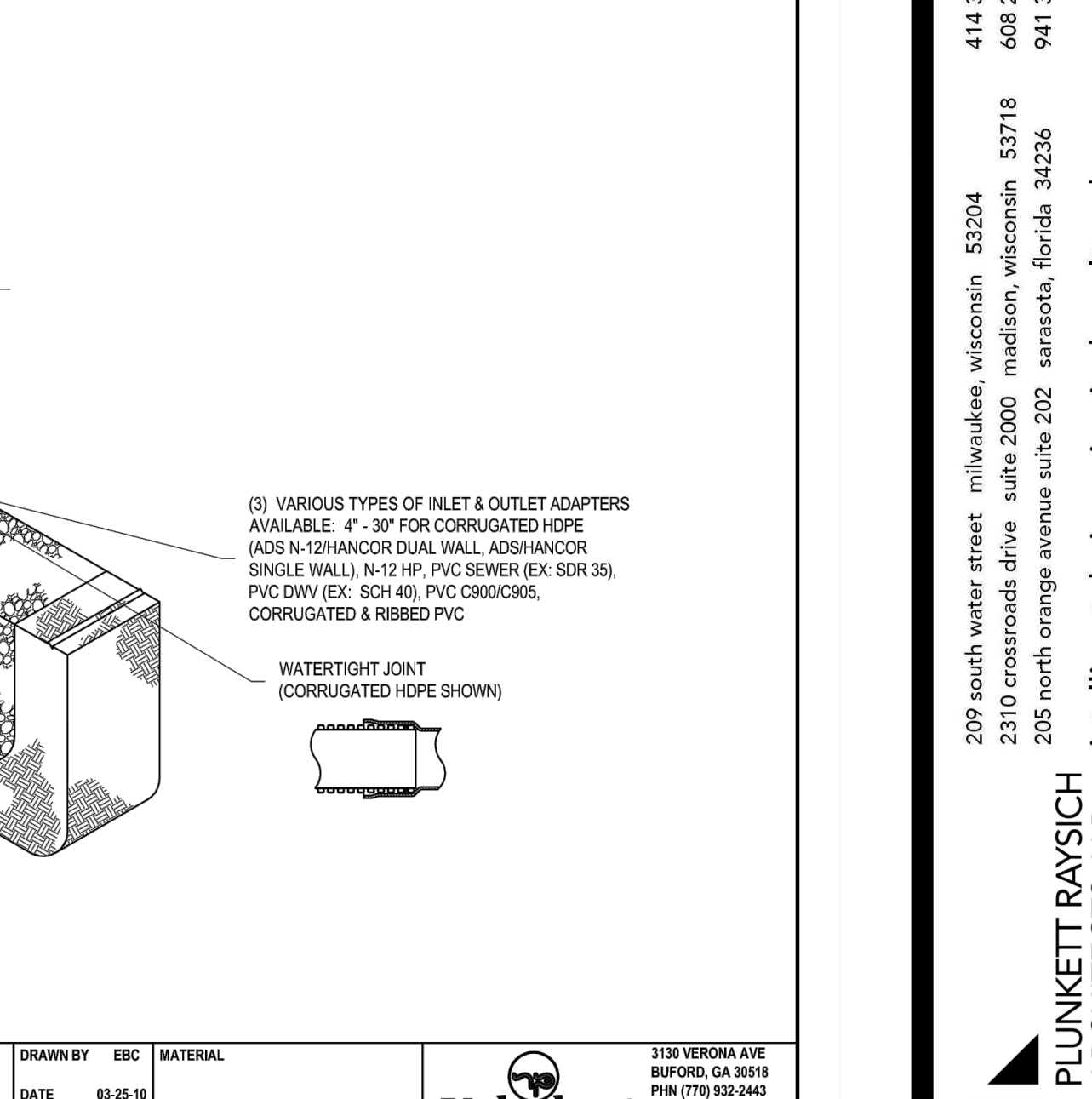
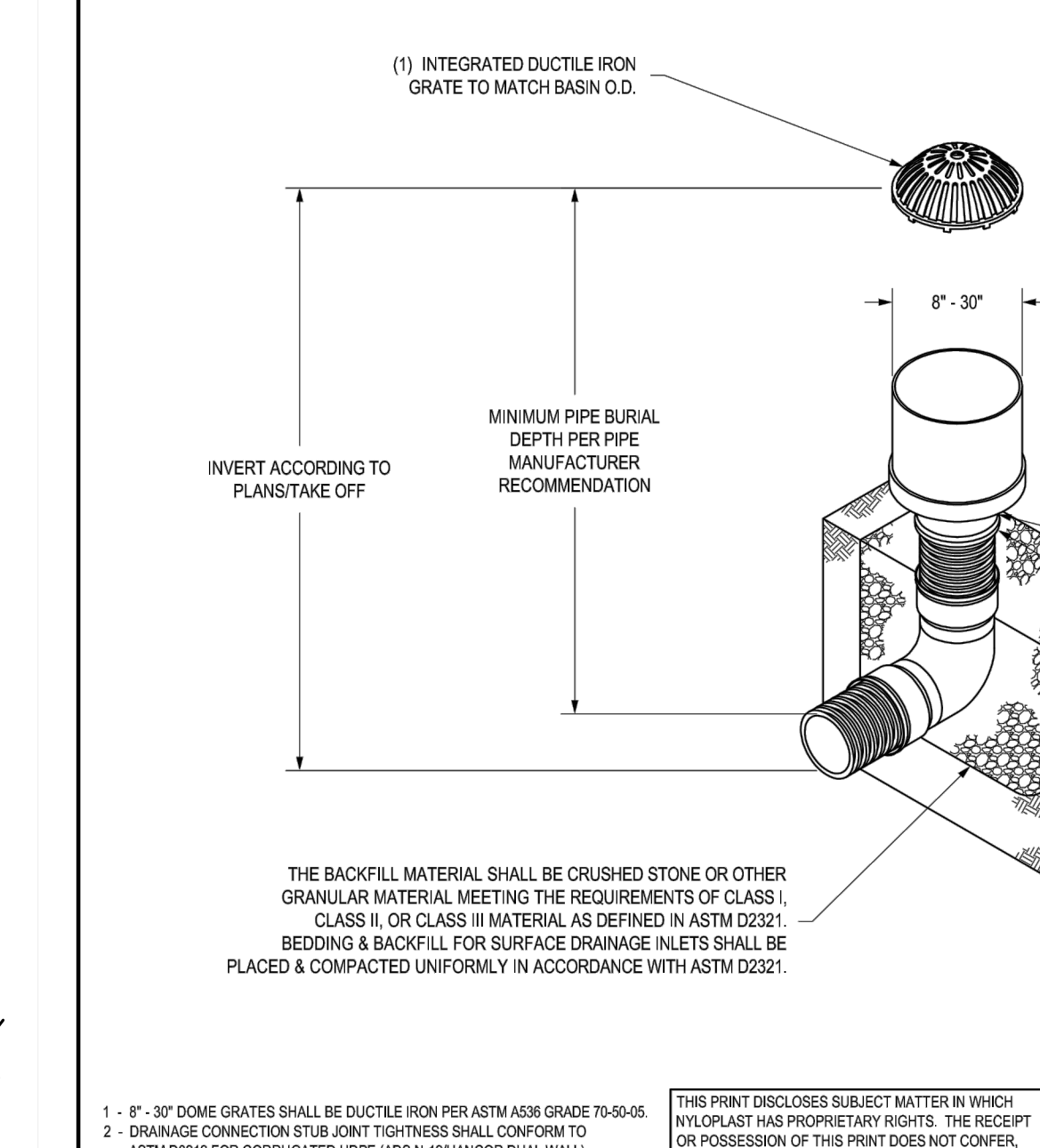
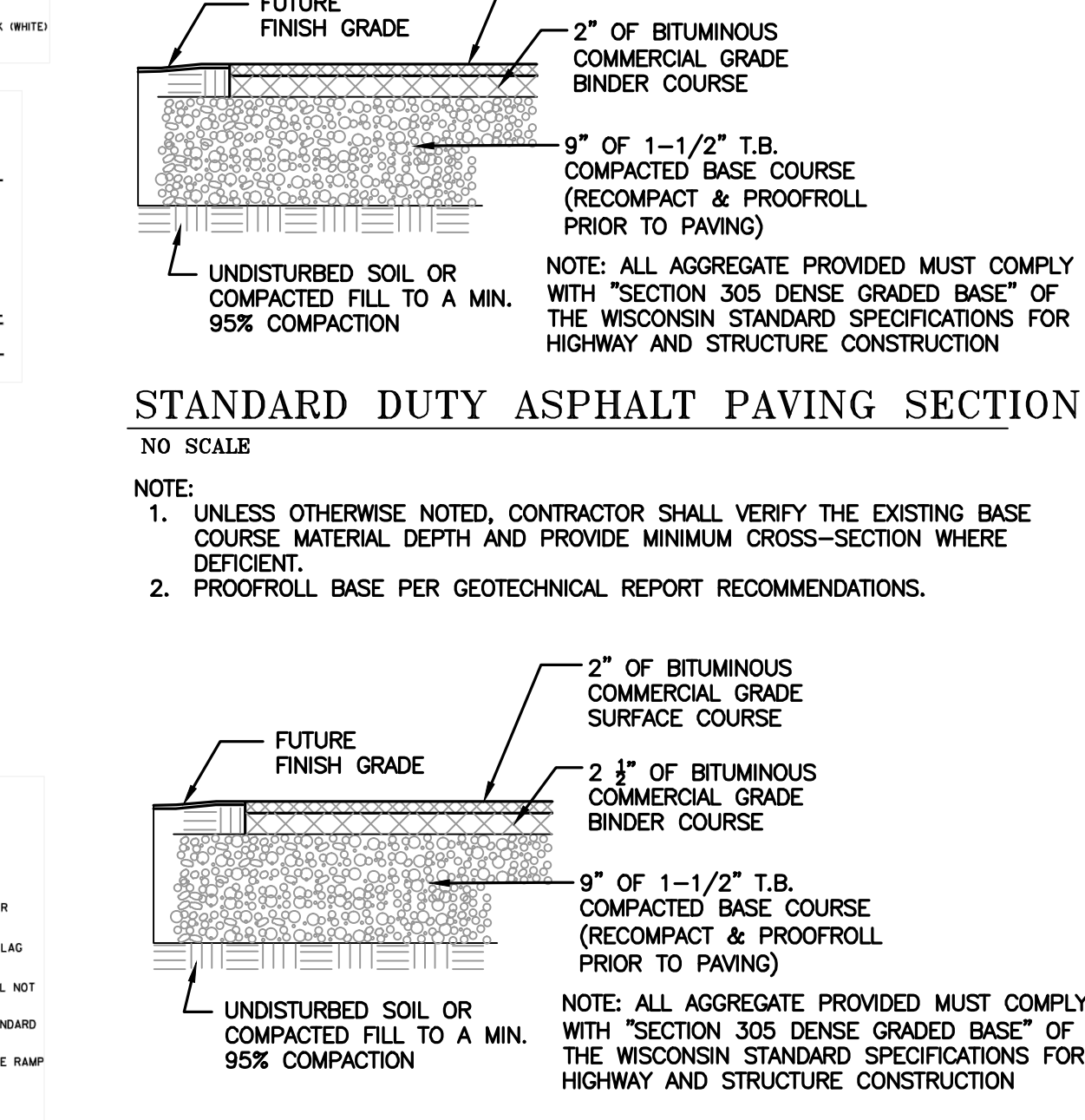
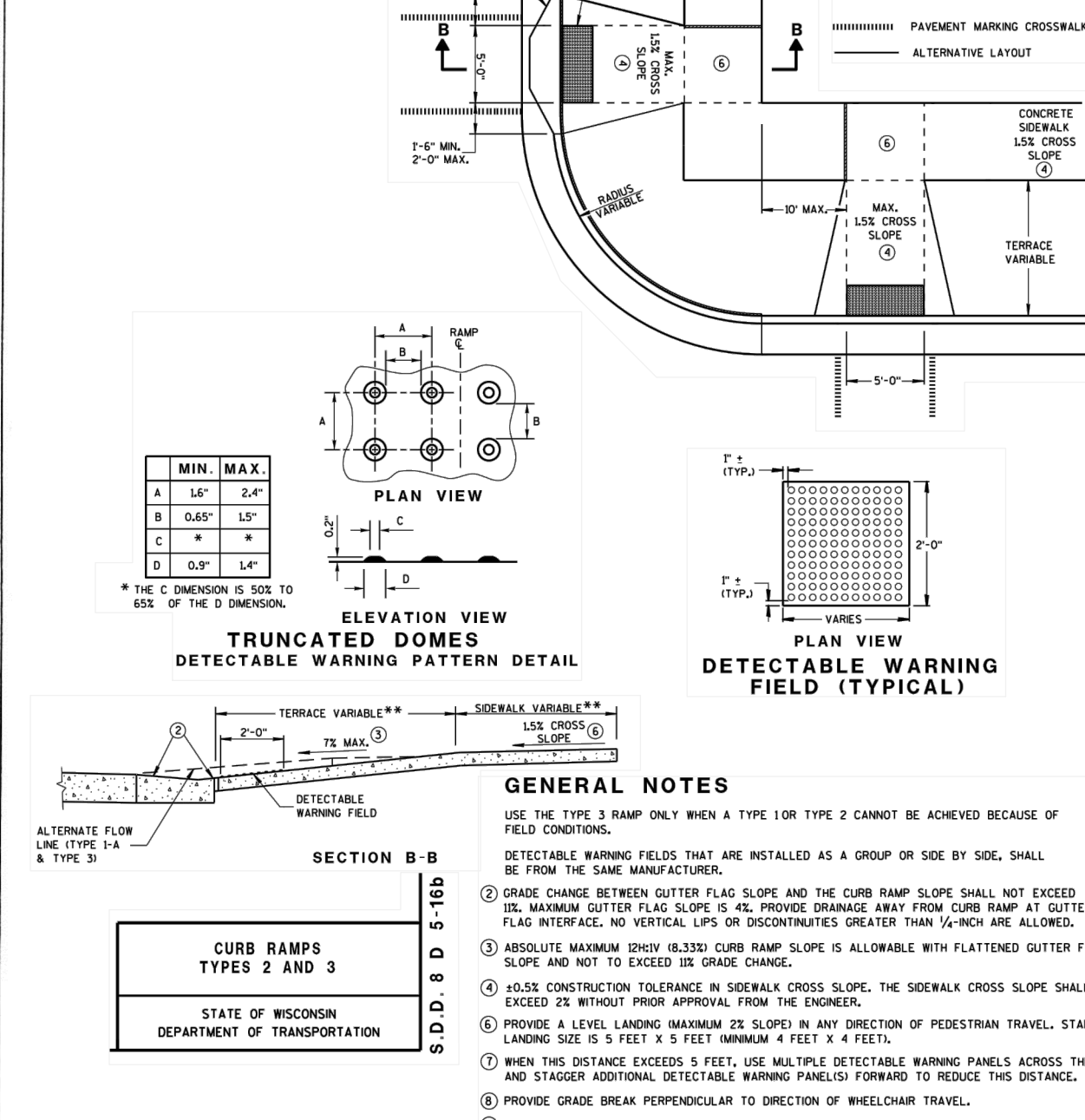
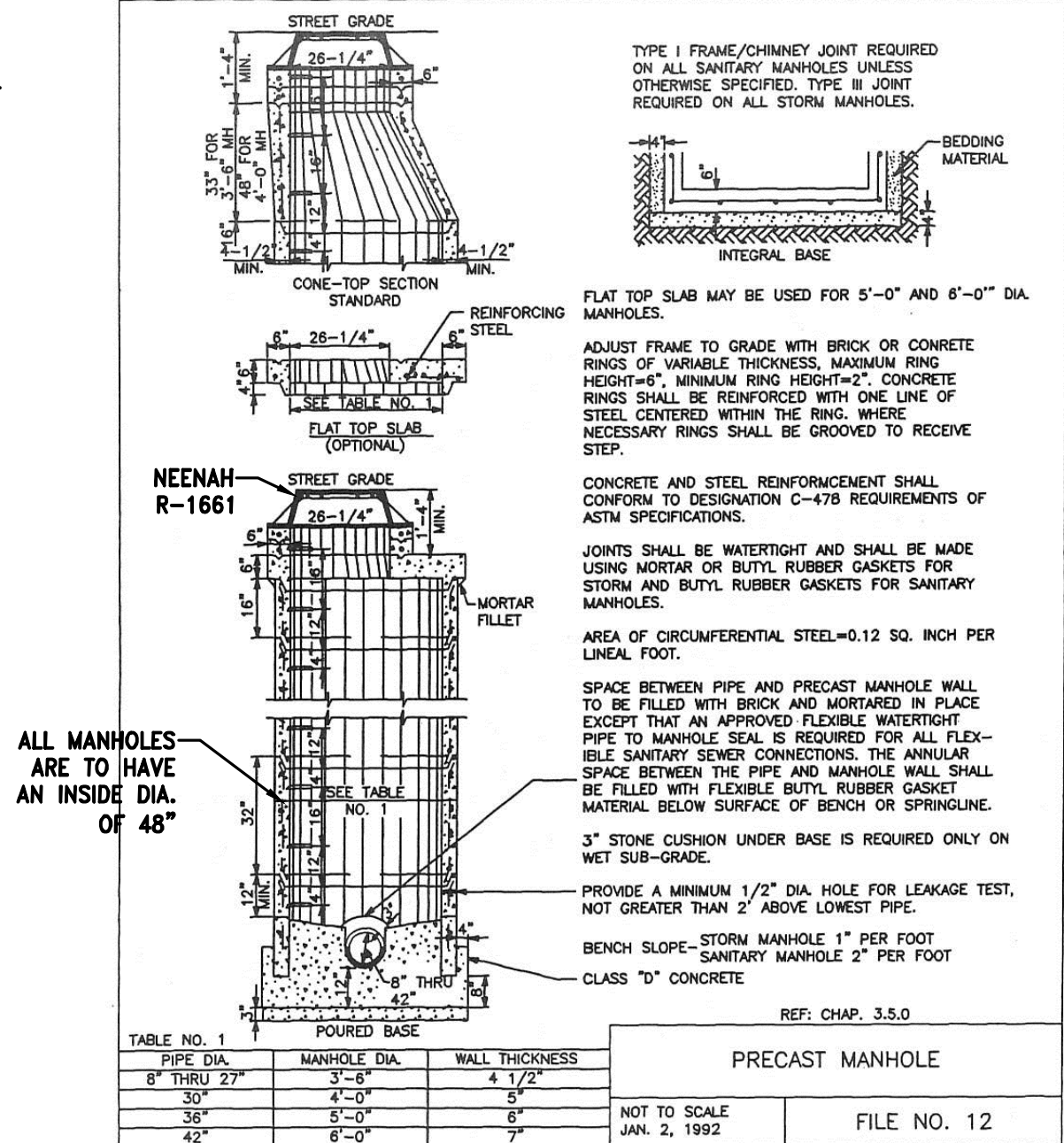
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, STATE OF WISCONSIN, LATEST EDITION, UNLESS OTHERWISE CALLED FOR ON THE PLANS, SPECIFICATIONS OR SPECIAL PROVISIONS.
2. ALL EROSION CONTROL MEASURES SPECIFIED ON THIS PLAN SHALL MEET THE DESIGN CRITERIA, STANDARDS AND SPECIFICATIONS AS SET FORTH IN THE DEPARTMENT OF NATURAL RESOURCES WISCONSIN BEST MANAGEMENT PRACTICE HANDBOOK AND TECHNICAL STANDARDS.
3. ALL EROSION CONTROL DEVICES (I.E., SILT FENCE, SILT SOCK, GRAVEL ENTRANCE, SILTATION BASIN, ETC.), SHALL BE INSTALLED PRIOR TO COMMENCING ANY GRADING OR UTILITY CONSTRUCTION. GRADING ASSOCIATED WITH INSTALLATION OF EROSION OR SEDIMENTARY PRACTICES MAY OCCUR CONCURRENTLY WITH INSTALLATION OF PRACTICES.
4. ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. REFER TO THE CONSTRUCTION SEQUENCING PLAN FOR ADDITIONAL INFORMATION.
5. THE OWNER IS RESPONSIBLE FOR OBTAINING A GRADING AND/OR EROSION CONTROL PERMIT (OR ANY OTHER APPLICABLE PERMITS) PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE, CITY OF NEW BERLIN SEWER AND WATER UTILITY, AND GOVERNMENT UNITS WHOSE PROPERTY MAY BE AFFECTED BY THE CONTRACTOR'S OPERATIONS AT LEAST THREE (3) DAYS BEFORE BREAKING GROUND. DIGGERS HOTLINE NUMBER IS 1-800-242-8511.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE PROJECT AND PUBLIC ROADWAYS DURING CONSTRUCTION PER THE REQUIREMENTS SET FORTH BY THE LOCAL AND COUNTY AGENCIES. STREETS SHALL BE KEPT FREE OF SILT OR DIRT TRACKED FROM AREAS UNDER CONSTRUCTION BY SWEEPING OR OTHER APPROPRIATE MEASURES. DUST GENERATED BY CONSTRUCTION ACTIVITIES SHALL BE MINIMIZED BY USE WATERING BY COLUMBIA CHLORIDE SURFACE TREATMENT, CONSTRUCTION SCHEDULING OR OTHER APPROPRIATE METHODS.
8. INLETS SHALL BE PROTECTED WITH AN EROSION BARRIER MEETING WDRN TECHNICAL STANDARD 1060 UNTIL THE AREA HAS BEEN STABILIZED. FREQUENT INSPECTION AND TIMELY MAINTENANCE IS REQUIRED.
9. UPON COMPLETION OF THE WORK AS SPECIFIED, RESPREAD A MINIMUM OF FOUR (4") INCHES OF SALVAGED TOPSOIL OVER ALL DISTURBED AREAS AND PROVIDE SEED, FERTILIZER AND MULCH PER THE STANDARD SPECIFICATIONS.
10. ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN SEVEN DAYS AFTER BEING DISTURBED USING THE SEED MIX SPECIFIED ON THE PLANS.
11. ALL EROSION CONTROL DEVICES SHALL BE ROUTINELY INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER THAN 0.5 INCHES. CONTRACTOR IS REQUIRED TO PERFORM INSPECTIONS, KEEP A LOG, AND REPAIR BMP'S AS NEEDED.
12. REFER TO EROSION CONTROL PLAN FOR SITE EROSION CONTROL ELEMENTS, REQUIREMENTS.

CONSTRUCTION SEQUENCE PLAN

1. INSTALL PERIMETER SILT FENCE, STRAW WATTLE AND TRACKING PAD. PRIOR TO THE INSTALLATION OF THE TRACKING PAD, PROVIDE APPROPRIATE DITCH CHECK AND TEMPORARY STABILIZATION AS NECESSARY.
2. CLEAR AND GRUB EXISTING VEGETATION CONCURRENT WITH STEP 1.
3. CONSTRUCT DIVERSION SWALES AND STABILIZE WITH SEED AND BLANKET IMMEDIATELY AFTER COMPLETION, CONCURRENT WITH STEPS 1 & 2. INSTALL PERMANENT BYPASS STORM SEWER AND BY 10. PASS SWALES. STABILIZE ALL DISTURBED SLOPES DRAINING TO THESE BY PASS SYSTEMS WITH SEED AND BLANKET.
4. INSTALL UNDERGROUND STORMWATER MANAGEMENT SYSTEM. SYSTEM TO FUNCTION AS TEMPORARY SEDIMENT BASIN. INSTALL OVERFLOW SPILLWAY AND OUTLET STRUCTURE PER PLAN. PROVIDE TEMPORARY STONE WEEPER AT OUTLET. PROVIDE TEMPORARY FLARED END SECTIONS AND DIVERSION 12. SWALES, AS NEEDED TO DIRECT RUNOFF TO SYSTEM. REMOVE TEMPORARY PIPE AND SWALES ONCE PERMANENT STORM SEWER IS INSTALLED. (MAY OCCUR CONCURRENT WITH TOPSOIL STRIPPING AND INITIAL ROUGH GRADING)
5. STRIP TOPSOIL, STOCKPILE AND CREATE TEMPORARY DIVERSION BERM AS INDICATED TO DIRECT SITE RUNOFF TO THE SEDIMENT BASIN. TEMPORARILY STABILIZE SEDIMENT BASINS WITH TOPSOIL, SEED AND BLANKET IMMEDIATELY FOLLOWING CONSTRUCTION.
6. TEMP SEED DIVERSION BERMS, DITCH LINE WITHIN THE R.O.W. AND TOPSOIL STOCKPILES. INSTALL SILT14. FENCE AROUND PILES AS NOTED ON THIS PLAN.
7. ROUGH GRADE SITE. ALL DISTURBED SOIL THAT IS TO GRADE AND OR IS TO BE LEFT DORMANT FOR MORE THEN 7 DAYS SHALL BE STABILIZED WITH SEED AND MULCH AND/OR BLANKET. BARE GROUND

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
2. EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, THE CONTRACTOR MAY BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN, DETAILING SPECIFIC MEASURES THAT WILL BE USED IN THE VARIOUS STAGES OF CONSTRUCTION FOR APPROVAL BY THE ENGINEER.
3. IMPLEMENTATION: THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL AFTER INITIAL EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER.
4. EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - A. DIVERT UPSTREAM RUNOFF FROM FLOWING THROUGH THE CONSTRUCTION SITE.
 - B. PROTECT DOWNSTREAM OR ADJACENT WATERWAYS WITH SILT FENCE.
 - C. DETAIL STRIPPING TOPSOIL, UNTIL REQUIRED FOR CONSTRUCTION.
 - D. PLACE SILT SOCK OR EROSION CONTROL BALES IN DITCHES AND OTHER DRAINAGE WAYS TO COLLECT SEDIMENT AND TO SLOW THE VELOCITY OF RUNOFF.
 - E. PROTECT STORM SEWER INLETS AND THE UPSTREAM END OF CULVERTS WITH SILT FENCE OR EROSION CONTROL BALES.
 - F. PROMPT REMOVAL OF EXCAVATED MATERIAL.
 - G. PROPER STORAGE OF BACKFILL AND BEDDING MATERIALS INCLUDING PLACING SILT FENCE OR EROSION CONTROL BALES ON THE DOWNSLOPE SIDES OF SPOIL PILES.
 - H. CONSTRUCTION OF TRACKING PAD TO CONSTRUCTION SITE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO ROADWAYS.
 - I. PROMPT (SAME DAY) CLEANUP OF MATERIAL TRACKED ONTO ADJACENT STREETS.
 - J. TIMELY RESTORATION OF DAMAGE SURFACE AREAS.
 - K. ALL AREAS THAT WILL REMAIN DISTURBED AFTER OCTOBER 15, MUST BE TEMPORARY SEEDD AS OF THAT DATE.
5. TEMPORARY EROSION CONTROL MEASURES:
 - A. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL MEASURES, WHERE EROSION IS LIKELY TO BE A PROBLEM, PRIOR TO BEGINNING WORK ON THOSE SECTIONS OF THE PROJECT. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER PERMANENT EROSION CONTROL, SUCH AS SEEDING OR SODDING, HAS BEEN ESTABLISHED.
 - B. IN THE EVENT THE PERMANENT EROSION CONTROL MEASURES ARE NOT FULLY IMPLEMENTED IN CURRENT CONSTRUCTION SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY TEMPORARY EROSION CONTROL MEASURES UNTIL AFTER PERMANENT MEASURES HAVE BEEN COMPLETED IN THE FOLLOWING YEAR.
6. ALL DISTURBANCE AREAS THAT REMAIN INACTIVE FOR SEVEN DAYS OR LONGER SHALL RECEIVE TEMPORARY SEEDING.
7. ALL SEDIMENT TRAPS, SWALES AND DIVERSION PRACTICES SHALL BE STABILIZED PRIOR TO USE.
8. TRENCH DEWATERING SHALL BE IN ACCORDANCE WITH WDRN TECHNICAL STANDARDS.
9. INSTALL SILT FENCE IN ACCORDANCE WITH WDRN TECHNICAL STANDARD DETAILS
10. EROSION CONTROL INSPECTION AND MAINTENANCE
 - A. INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER SITE RECEIVES 0.5" OF RAIN IN A 24-HOUR PERIOD DURING CONSTRUCTION.
 - B. REPAIR OR REPLACE EROSION CONTROLS THAT ARE DAMAGED OR FAILING.
11. ALL AREAS TO BE SEEDD AND MULCHED SHALL USE WOOD SEED MIXTURE NO. 20. MULCH SHALL APPLIED PER WADOT SPECIFICATIONS USING METHOD B FOR PLACEMENT.



GENERAL

- 1.THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED:
- a.WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) STORM WATER TECHNICAL STANDARDS
 - b.WISCONSIN EROSION CONTROL PRODUCT ACCEPTABILITY LIST
 - c.STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (SSSWCW)
 - d.WISCONSIN ADMINISTRATIVE CODE, SECTIONS SPS 382-387
 - e.WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION
 - f.FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 - g.VILLAGE OF GERMANTOWN DEVELOPMENT STANDARDS
- 2.THE OWNER, ENGINEER AND MUNICIPALITY SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION ACTIVITIES.
- 3.THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE WITH THIS PLAN.
- 4.EXISTING UTILITY INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. BASED ON BEST AVAILABLE PUBLIC RECORDS, AS-BUILT DRAWINGS, AND FIELD OBSERVATIONS, NO RESPONSIBILITY IS ASSUMED BY THE OWNER OR ENGINEER FOR ACCURACY OR COMPLETENESS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND NATURE OF EXISTING UTILITIES, AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- 5.THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, ELEVATIONS, AND SIZES OF EXISTING UTILITIES AND SHALL CHECK ALL PROPOSED UTILITY CONNECTIONS AND CROSSINGS PRIOR TO PROCEEDING WITH ANY WORK. ANY CONFLICTS OR DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER SO REDESIGN MAY OCCUR IF NEEDED. COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 6.THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT IS AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- 7.THE CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF THE BENCHMARKS AND HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES, AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH ANY WORK.
- 8.SURVEY BENCHMARKS AND CONTROL POINTS SHALL BE MAINTAINED AND PROTECTED FROM DISTURBANCE.
- 9.PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED AT ALL TIMES. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
10. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR. THE COST OF RESTORATION IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED.
11. PUBLIC ROADS SHALL NOT BE FULLY CLOSED TO TRAFFIC AT ANY TIME. ALL INGRESS AND EGRESS TRAFFIC TO THE PROJECT SITE SHALL BE LIMITED TO THE GRAVEL CONSTRUCTION ENTRANCE.
12. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
13. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS AND FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
14. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.

PREPARATION

- 1.WORK SHALL CONSIST OF DEMOLITION, ABANDONMENT, AND REMOVAL OF EXISTING FOUNDATIONS, WALLS, SLABS, FENCES, PIPING, PAVEMENTS, AND OTHER MANMADE ITEMS INTERFERING WITH NEW CONSTRUCTION. WORK SHALL ALSO CONSIST OF CLEARING AND GRUBBING OF TREES, SHRUBS, VEGETATION, ROOTS, STUMPS, RUBBISH, AND OTHER PERISHABLE MATTER INTERFERING WITH NEW CONSTRUCTION.
- 2.CONTACT DIGGERS HOTLINE AT 800-242-8511 TO NOTIFY UTILITY PROVIDERS AND REQUEST FIELD LOCATION OF EXISTING UTILITIES WITHIN PROPERTY LIMITS PRIOR TO ANY CONSTRUCTION RELATED ACTIVITIES.
- 3.INSTALL PERIMETER FENCING AND TEMPORARY EROSION CONTROL PRACTICES AS INDICATED PRIOR TO COMMENCING ANY LAND DISTURBING CONSTRUCTION RELATED ACTIVITY.
- 4.CLEARLY IDENTIFY ALL VEGETATION TO BE PRESERVED AND/OR RELOCATED PRIOR TO CLEARING AND GRUBBING.
- 5.PROTECT EXISTING IMPROVEMENTS TO REMAIN DURING CONSTRUCTION. ANY DAMAGED IMPROVEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION, OR AS OTHERWISE ACCEPTABLE TO THE OWNER.
- 6.REMOVE EXISTING ABOVE-GRADE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
- 7.SAWCUT ALL PAVEMENT TO BE REMOVED IN STRAIGHT LINES TO FULL DEPTH.
- 8.DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS. BREAK UP CONCRETE SLABS THAT ARE 2 FEET OR MORE BELOW PROPOSED SUBGRADE TO PERMIT DRAINAGE.
- 9.DISCONNECT AND SEAL/CAP EXISTING UTILITIES TO BE REMOVED, RELOCATED, OR ABANDONED IN ACCORDANCE WITH REQUIREMENTS OF UTILITY PROVIDERS.
10. DO NOT INTERRUPT UTILITY SERVICE TO EXISTING FACILITIES UNLESS PERMITTED BY THE OWNER.
11. REMOVE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS, TRASH, AND DEBRIS FROM THE PROJECT SITE.

EROSION CONTROL

- 1.WORK SHALL CONSIST OF INSTALLATION OF TEMPORARY AND PERMANENT PRACTICES FOR SEDIMENTATION CONTROL, EROSION CONTROL, SLOPE PROTECTION, AND REMOVAL OF PRACTICES UPON FINAL SITE STABILIZATION.
- 2.INSTALLATION AND MAINTENANCE OF PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE DNR TECHNICAL STANDARD, OR THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK IF A TECHNICAL STANDARD IS NOT AVAILABLE.
- 3.ALL PRACTICES SHALL BE INSTALLED PRIOR TO COMMENCING ANY LAND DISTURBING CONSTRUCTION RELATED ACTIVITY. EARTHWORK ASSOCIATED WITH INSTALLATION OF PRACTICES MAY OCCUR CONCURRENTLY.
- 4.ALL PRACTICES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH PERMIT REQUIREMENTS.
- 5.ALL PRACTICES SHALL BE ROUTINELY INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER THAN 0.5 INCHES. THE CONTRACTOR IS REQUIRED TO PERFORM INSPECTIONS, KEEP A LOG, AND CONDUCT REPAIRS AS NEEDED.
- 6.ALL DISTURBED AREAS SHALL DRAIN TO A CONTROL PRACTICE AT ALL TIMES DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING UPON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL ADDITIONAL CONTROL PRACTICES IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL CONTROL PRACTICES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.
- 7.ALL DISTURBED GROUND LEFT INACTIVE FOR 7 DAYS SHALL BE STABILIZED WITH A TEMPORARY SEED MIXTURE AND MULCH. THE TEMPORARY SEED MIXTURE SHALL BE IN ACCORDANCE WITH SECTION 630 OF WISDOT STANDARD SPECIFICATIONS. WINTER WHEAT OR RYE SHALL BE USED FOR TEMPORARY SEED AFTER SEPTEMBER 1.
- 8.DISTURBED AREAS THAT CAN NOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION SHALL BE STABILIZED BY APPLYING ANONIC POLYACRYLAMIDE (PAM).
- 9.ALL ACTIVITIES ON THE PROJECT SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME.
10. DUST GENERATED BY CONSTRUCTION RELATED ACTIVITIES SHALL BE MINIMIZED BY USE OF WATERING, CALCIUM CHLORIDE SURFACE TREATMENT, CONSTRUCTION SCHEDULING, OR OTHER APPROPRIATE MEASURES.
11. THE CONTRACTOR SHALL BE PREPARED FOR DEWATERING CONDITIONS BY HAVING APPROPRIATE PUMPS AND FILTER BAGS ONSITE. ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED PRIOR TO DISCHARGE FROM THE PROJECT SITE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE PROJECT SITE AND PUBLIC ROADS DURING CONSTRUCTION. PUBLIC ROADS SHALL BE KEPT FREE OF SEDIMENT TRACKED FROM AREAS UNDER CONSTRUCTION BY DAILY SWEEPING OR OTHER APPROPRIATE MEASURES.

EARTHWORK

- 1.WORK SHALL CONSIST OF STRIPPING AND STORAGE OF TOPSOIL, EXCAVATION, EMBANKMENT, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE LAND BALANCE, COMPACTION, FINISH GRADING, SUBGRADE PREPARATION, AND REPLACEMENT OF TOPSOIL.
- 2.ALL EARTHWORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER AND THESE REQUIREMENTS. THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER SHALL GOVERN.
- 3.SATISFACTORY MATERIAL SHALL INCLUDE SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM AS ACCORDING TO ASTM D2487. IT SHALL BE FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES, FROZEN MATERIALS, VEGETATION, DEBRIS, AND ANY OTHER DELETERIOUS MATERIAL.
- 4.UNSATISFACTORY MATERIAL SHALL INCLUDE SOIL CLASSIFICATION GROUPS GC, SC, CL, ML, OL, CH, MH, OH, AND PT AS ACCORDING TO ASTM D2487. IT SHALL ALSO INCLUDE FILL MATERIAL NOT MAINTAINED WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.
- 5.ENGINEERED FILL MATERIAL SHALL INCLUDE A MIXTURE OF NATURAL OR CRUSHED STONE, GRAVEL, AND SAND AS ACCORDING TO ASTM D2940, WITH AT LEAST 90 PERCENT PASSING A 37.5-MM SIEVE AND NOT MORE THAN 12 PERCENT PASSING A NO. 200 SIEVE. IT SHALL BE FREE OF ORGANIC, FROZEN, OR OTHER DELETERIOUS MATERIAL AND HAVE A MAXIMUM PARTICLE SIZE OF 3 INCHES. CLAY CONTENT SHALL HAVE A LIQUID LIMIT OF LESS THAN 45 AND A PLASTICITY INDEX BETWEEN 11 AND 20.
- 6.EXCAVATE TO SUBGRADE REGARDLESS OF THE CHARACTER OF SURFACE AND SUBSURFACE CONDITIONS ENCOUNTERED. EXCAVATED MATERIAL MAY INCLUDE ROCK AND UNCLASSIFIED OBSTRUCTIONS, WHICH IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE WORK.
- 7.EXISTING FOUNDATIONS, BUILDING REMNANTS, AND UNSATISFACTORY MATERIAL SHALL BE COMPLETELY REMOVED FROM WITHIN AND A MINIMUM OF 10 FEET BEYOND BUILDING PAD AREAS. ANY RELATED EXCAVATION SHALL BE BACKFILLED WITH COMPACTED ENGINEERED FILL MATERIAL.
- 8.EXISTING FOUNDATIONS, BUILDING REMNANTS, AND UNSATISFACTORY MATERIAL SHALL BE REMOVED TO A MINIMUM OF 2 FEET BELOW PROPOSED SUBGRADE WITHIN GREENSPACE AND PAVEMENT AREAS. ANY RELATED EXCAVATION SHALL BE BACKFILLED WITH COMPACTED ENGINEERED FILL MATERIAL.
- 9.FILL MATERIAL SHALL BE WITHIN 3 PERCENT OF OPTIMUM MOISTURE CONTENT, PLACED IN MAXIMUM LIFTS OF 8 INCHES, AND COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST.
10. AREAS SHALL BE GRADED TO WITHIN 1 INCH, MORE OR LESS, OF PROPOSED SUBGRADE. DEVIATIONS SHALL NOT BE CONSISTENT IN ONE DIRECTION.
11. DISKING, HARROWING, AND AERATION TECHNIQUES SHALL BE USED TO DRY SUBGRADE PRIOR TO PROOF ROLLING.
12. IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, PROOF ROLL SUBGRADE BELOW BUILDING PAD AND PAVEMENT AREAS DURING DRY WEATHER WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK WHERE COHESIVE SOILS ARE PREDOMINANT, AND WITH A SMOOTH DRUMMED VIBRATORY ROLLER WHERE GRANULAR SOILS ARE PREDOMINANT, SUBGRADE WHICH IS OBSERVED TO RUT OR DEFLECT EXCESSIVELY SHALL BE UNDERCUT IN ACCORDANCE WITH RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. DO NOT PROCEED TO RUTTED OR SATURATED SUBGRADE.
13. THE CONTRACTOR SHALL MAINTAIN POSITIVE SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVATE WATER PONDING. SURFACE WATER AND GROUNDWATER SHALL BE PREVENTED FROM ENTERING EXCAVATIONS, PONDING ON PREPARED SUBGRADES, AND FLOODING PROJECT SITE AND/OR SURROUNDING AREAS.
14. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ALL EARTHWORK COMPUTATIONS AND FOR ACTUAL

LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.

SANITARY SEWERAGE

- 1.WORK SHALL CONSIST OF INSTALLATION AND TESTING OF THE SANITARY SEWERAGE SYSTEM AND ALL APPURTENANCES.
- 2.ALL PUBLIC SANITARY SEWERAGE WORK SHALL BE IN ACCORDANCE WITH SSSWCW AND VILLAGE OF GERMANTOWN DEVELOPMENT STANDARDS.
- 3.ALL PRIVATE SANITARY SEWERAGE WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE AND VILLAGE OF GERMANTOWN DEVELOPMENT STANDARDS.
- 4.POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS SHALL BE SDR 35 CONFORMING TO ASTM D3034 FOR DEPTHS LESS THAN 18 FEET, AND SHALL BE SDR 18 CONFORMING TO AWWA C900 FOR DEPTHS GREATER THAN 18 FEET. BOTH WITH PUSH-ON RUBBER GASKETED JOINTS IN ACCORDANCE WITH SECTIONS 8.10.6 AND 8.41.4 OF SSSWCW.
- 5.MANHOLE SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH SECTION 8.39.0 OF SSSWCW AND CONFORM TO ASTM C478. SIZES SHALL BE AS INDICATED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING.
- 6.TRENCH SECTION SHALL BE CLASS B IN ACCORDANCE WITH SECTION 3.2.6 OF SSSWCW. MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE PLUS 20 INCHES.
- 7.PIPE BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.43.0 OF SSSWCW. MINIMUM COVER OVER PIPE SHALL BE 12 INCHES.
- 8.TRENCH BACKFILL MATERIAL SHALL BE GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF SSSWCW BENEATH AND WITHIN 5 FEET OF PAVEMENT AREAS, AND SHALL BE SPOIL BACKFILL IN ACCORDANCE WITH SECTION 8.43.5 OF SSSWCW BENEATH GREENSPACE AREAS.
- 9.ALL CONNECTIONS TO EXISTING SANITARY SEWER PIPES AND STRUCTURES SHALL BE CORED CONNECTIONS, UNLESS NOTED OTHERWISE. PREFABRICATED WYE CONNECTIONS ARE REQUIRED FOR ALL BUILDING SANITARY SERVICE PIPES, UNLESS NOTED OTHERWISE.
10. CLEANOUTS AND RISER EXTENSIONS SHALL BE INSTALLED IN ACCORDANCE WITH SPS 382.35 FROM SEWER PIPES TO GROUND SURFACE. LIGHT DUTY LOADING CLASSIFICATION SHALL BE USED IN UNPAVED AREAS. MEDIUM DUTY LOADING CLASSIFICATION SHALL BE USED IN PAVED FOOT TRAFFIC AREAS. HEAVY DUTY LOADING CLASSIFICATION SHALL BE USED IN PAVED VEHICULAR TRAFFIC AREAS. FRAMES AND COVERS SHALL BE SET FLUSH WITH SURFACE.
11. TRACER WIRE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 2.11.2 OF SSSWCW ON ALL BURIED NON-METALLIC PUBLIC SANITARY SEWER PIPE, PRIVATE SANITARY INTERCEPTOR PIPE, AND BUILDING SANITARY SERVICE PIPE. TRACER WIRE SHALL BE INSULATED, SINGLE-CONDUCTOR, 10 GAUGE SOLID COPPER OR COPPER COATED STEEL WIRE, SECURED AT LEAST EVERY 10 FEET AND AT ALL BENDS, WITH ACCESS POINTS AT LEAST EVERY 300 FEET.
12. AFTER INSTALLATION OF SANITARY SEWERAGE SYSTEM, CLEAN ALL DEBRIS FROM SYSTEM AND INSPECT FOR DAMAGE. CONDUCT TESTING OF INSTALLED PIPE IN ACCORDANCE WITH SSSWCW. REPAIR ANY DAMAGE AND REPLACE ANY PIPE NOT PASSING TESTING.

WATER DISTRIBUTION

- 1.WORK SHALL CONSIST OF INSTALLATION AND TESTING OF THE WATER DISTRIBUTION SYSTEM AND ALL APPURTENANCES.
- 2.ALL PUBLIC WATER SUPPLY WORK SHALL BE IN ACCORDANCE WITH SSSWCW AND VILLAGE OF GERMANTOWN DEVELOPMENT STANDARDS.
- 3.ALL PRIVATE WATER SUPPLY WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE AND VILLAGE OF GERMANTOWN DEVELOPMENT STANDARDS.
- 4.POLYVINYL CHLORIDE (PVC) PIPE SHALL BE SDR 18, CLASS 150 CONFORMING TO AWWA C900 WITH INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS IN ACCORDANCE WITH SECTION 8.20.0 OF SSSWCW.
- 5.DUCTILE IRON PIPE (DIP) SHALL BE CLASS 150 CONFORMING TO AWWA C151 WITH RUBBER GASKETED JOINTS IN ACCORDANCE WITH SECTION 8.18.0 OF SSSWCW.
- 6.POLYETHYLENE TUBING SHALL BE SDR 9 IN ACCORDANCE WITH SECTION 8.24.0 OF SSSWCW AND CONFORM TO AWWA C901.
- 7.COPPER TUBING SHALL BE TYPE "K" IN ACCORDANCE WITH SECTION 8.22.0 OF SSSWCW AND CONFORM TO ASTM B88.
- 8.BALL VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.30.0 OF SSSWCW AND CONFORM TO AWWA C800 AND ASTM B62.
- 9.GATE VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.27.0 OF SSSWCW AND CONFORM TO AWWA C500.
10. BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH SECTION 8.28.0 OF SSSWCW AND CONFORM TO AWWA C504.
11. VALVE BOXES SHALL BE IN ACCORDANCE WITH SECTION 8.29.0 OF SSSWCW AND CONFORM TO ASTM A48. VALVE BOXES SHALL BE SIZE 24 INCHES WITH COVERS MARKED "WATER". ALL VALVE BOXES SHALL BE SET TO PROPOSED GRADE, TRUE VERTICAL, AND SUPPORTED BY USE OF ADAPTOR.
12. HYDRANTS SHALL BE IN ACCORDANCE WITH SECTION 8.26.0 OF SSSWCW AND CONFORM TO AWWA C502. PUMPER NOZZLE SHALL BE PERPENDICULAR TO AND ORIENTED TOWARDS THE PAVEMENT. HYDRANTS SHALL BE ATTACHED BY MEANS OF ANCHORING AND HAVE A GROUND LINE TO CENTER DISTANCE OF 18 TO 21 INCHES.
13. FITTINGS SHALL BE CLASS 150 IN ACCORDANCE WITH SECTION 8.22.0 OF SSSWCW, CONFORMING TO AWWA C110, AND PROVIDED WITH MECHANICAL JOINTS.
14. MECHANICAL JOINTS SHALL BE MADE WITH "COR TEN" NUTS AND BOLTS, OR CORROSION-RESISTANT EQUIVALENTS CONFORMING TO AWWA C111.
15. POLYETHYLENE WRAP SHALL BE IN ACCORDANCE WITH SECTION 8.21.0 OF SSSWCW AND PROVIDED FOR ALL METAL PIPES AND FITTINGS.
16. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH SECTION 4.3.13 OF SSSWCW AND PROVIDED FOR ALL BENDS, CAPS, PLUGS, AND TEES.
17. TRENCH SECTION SHALL BE IN ACCORDANCE WITH FILE NO. 36 OF SSSWCW. MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE PLUS 20 INCHES.
18. PIPE BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.43.0 OF SSSWCW. MINIMUM COVER OVER PIPE SHALL BE 12 INCHES.
19. TRENCH BACKFILL MATERIAL SHALL BE GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF SSSWCW BENEATH AND WITHIN 5 FEET OF PAVEMENT AREAS, AND SHALL BE SPOIL BACKFILL IN ACCORDANCE WITH SECTION 8.43.5 OF SSSWCW BENEATH GREENSPACE AREAS.
20. TRACER WIRE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 2.11.2 OF SSSWCW ON ALL BURIED NON-METALLIC PUBLIC WATER MAIN PIPE, PRIVATE WATER MAIN PIPE, AND BUILDING WATER SERVICE PIPE. TRACER WIRE SHALL BE INSULATED, SINGLE-CONDUCTOR, 12 GAUGE SOLID COPPER OR COPPER COATED STEEL WIRE, SECURED AT LEAST EVERY 10 FEET AND AT ALL BENDS, WITH ACCESS POINTS AT LEAST EVERY 300 FEET.
21. THE CONTRACTOR IS RESPONSIBLE FOR PRESSURE TESTING AND SAFE WATER SAMPLING. HYDROSTATIC TESTING SHALL BE IN ACCORDANCE WITH SECTION 4.15.0 OF SSSWCW. DISINFECTION SHALL BE IN ACCORDANCE WITH SECTION 4.16.0 OF SSSWCW AND CONFORM TO AWWA C651. WATER MAINS SHALL BE FLUSHED AND TESTED IN THE PRESENCE OF THE WATER UTILITY OPERATOR.

STORM DRAINAGE

- 1.WORK SHALL CONSIST OF INSTALLATION AND TESTING OF THE STORM DRAINAGE SYSTEM AND ALL APPURTENANCES.
- 2.ALL PUBLIC STORM DRAINAGE WORK SHALL BE IN ACCORDANCE WITH SSSWCW AND VILLAGE OF GERMANTOWN DEVELOPMENT STANDARDS.
- 3.ALL PRIVATE STORM DRAINAGE WORK SHALL BE IN ACCORDANCE WITH WISCONSIN ADMINISTRATIVE CODE AND VILLAGE OF GERMANTOWN DEVELOPMENT STANDARDS.
- 4.REINFORCED CONCRETE PIPE (RCP) AND END SECTIONS SHALL BE IN ACCORDANCE WITH SECTION 8.6.0 OF SSSWCW AND CONFORM TO ASTM C76 WITH RUBBER GASKETED JOINTS CONFORMING TO ASTM C443. UNLESS NOTED OTHERWISE, 12-INCH DIAMETER PIPE SHALL BE CLASS V, 15-INCH DIAMETER PIPE SHALL BE CLASS IV, AND 18-INCH DIAMETER PIPE AND LARGER SHALL BE CLASS III.
- 5.CORRUGATED METAL PIPE (CMP) AND END SECTIONS SHALL BE 16 GAUGE CONFORMING TO ASTM A760.
- 6.HIGH-DENSITY POLYETHYLENE (HDPE) PIPE AND FITTINGS SHALL BE ADS N12 AS APPROVED BY THE WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PLUMBING PRODUCTS REGISTER.
- 7.POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS SHALL BE SDR 35 CONFORMING TO ASTM D3034 WITH PUSH-ON RUBBER GASKETED JOINTS CONFORMING TO ASTM D3212.
- 8.MANHOLE SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH SECTION 8.39.0 OF SSSWCW AND CONFORM TO ASTM C478. SIZES SHALL BE AS INDICATED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING.
- 9.CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH SECTION 3.6.0 OF SSSWCW AND CONFORM TO ASTM C478. SIZES SHALL BE AS INDICATED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING.
10. INLETS SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH SECTION 3.6.0 OF SSSWCW AND CONFORM TO ASTM C913. SIZES SHALL BE AS INDICATED AND VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING.
11. AREA DRAINS SHALL BE ADS NYLOPLAST AS APPROVED BY THE WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PLUMBING PRODUCTS REGISTER.
12. FRAMES AND GRATES SHALL BE AS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FRAMES AND GRATES ARE COMPATIBLE WITH PRECAST STRUCTURES PRIOR TO ORDERING.
13. TRENCH SECTION SHALL BE CLASS B IN ACCORDANCE WITH SECTION 3.2.6 OF SSSWCW. MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF PIPE PLUS 20 INCHES.
14. PIPE BEDDING AND COVER MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 8.43.0 OF SSSWCW. MINIMUM COVER OVER PIPE SHALL BE 12 INCHES.
15. TRENCH BACKFILL MATERIAL SHALL BE GRANULAR BACKFILL IN ACCORDANCE WITH SECTION 8.43.4 OF SSSWCW BENEATH AND WITHIN 5 FEET OF PAVEMENT AREAS, AND SHALL BE SPOIL BACKFILL IN ACCORDANCE WITH SECTION 8.43.5 OF SSSWCW BENEATH GREENSPACE AREAS.
16. ALL CONNECTIONS TO EXISTING STORM SEWER PIPES AND STRUCTURES SHALL BE CORED CONNECTIONS, UNLESS NOTED OTHERWISE.
17. CLEANOUTS AND RISER EXTENSIONS SHALL BE INSTALLED IN ACCORDANCE WITH SPS 382.35 FROM SEWER PIPES TO GROUND SURFACE. LIGHT DUTY LOADING CLASSIFICATION SHALL BE USED IN UNPAVED AREAS. MEDIUM DUTY LOADING CLASSIFICATION SHALL BE USED IN PAVED FOOT TRAFFIC AREAS. HEAVY DUTY LOADING CLASSIFICATION SHALL BE USED IN PAVED VEHICULAR TRAFFIC AREAS. FRAMES AND COVERS SHALL BE SET FLUSH WITH SURFACE.
18. TRACER WIRE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 2.11.1 OF SSSWCW ON ALL BURIED NON-METALLIC PUBLIC STORM SEWER PIPE, PRIVATE STORM INTERCEPTOR PIPE, AND BUILDING STORM SERVICE PIPE. TRACER WIRE SHALL BE INSULATED, SINGLE-CONDUCTOR, 12 GAUGE SOLID COPPER OR COPPER COATED STEEL WIRE, SECURED AT LEAST EVERY 10 FEET AND AT ALL BENDS, WITH ACCESS POINTS AT LEAST EVERY 300 FEET.
19. AFTER INSTALLATION OF STORM DRAINAGE SYSTEM, CLEAN ALL DEBRIS FROM SYSTEM AND INSPECT FOR DAMAGE. CONDUCT TESTING OF INSTALLED PIPE IN ACCORDANCE WITH SSSWCW. REPAIR ANY DAMAGE AND REPLACE ANY PIPE NOT PASSING TESTING.

CONCRETE PAVING

- 1.WORK SHALL CONSIST OF FINE GRADING SUBGRADE, EXCAVATION BELOW SUBGRADE (IF NECESSARY), PLACEMENT OF CRUSHED STONE BASE, INSTALLATION OF CONCRETE, AND CLEANUP.
- 2.CRUSHED STONE BASE SHALL BE IN ACCORDANCE WITH SECTION 305 OF WISDOT STANDARD SPECIFICATIONS.
- 3.CONCRETE SHALL BE GRANDED A AIR-ENTRAINED IN ACCORDANCE WITH SECTION 601 OF WISDOT STANDARD SPECIFICATIONS, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 4.AGGREGATE SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS.
- 5.WATER SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS AND ASTM C94 / C94M.
- 6.AIR-ENTRAINING SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS AND ASTM C260.
- 7.LIQUID CURING COMPOUND SHALL BE IN ACCORDANCE WITH SECTION 415 OF WISDOT STANDARD SPECIFICATIONS AND AASHTO M 148.
- 8.CURBING SHALL BE IN ACCORDANCE WITH SECTION 601 OF WISDOT STANDARD SPECIFICATIONS.
- 9.SIDEWALK AND PATIO SHALL BE IN ACCORDANCE WITH SECTION 602 OF WISDOT STANDARD SPECIFICATIONS.
10. CONCRETE FORMS SHALL REMAIN IN PLACE AT LEAST 24 HOURS AFTER CONCRETE INSTALLATION AND SHALL BE

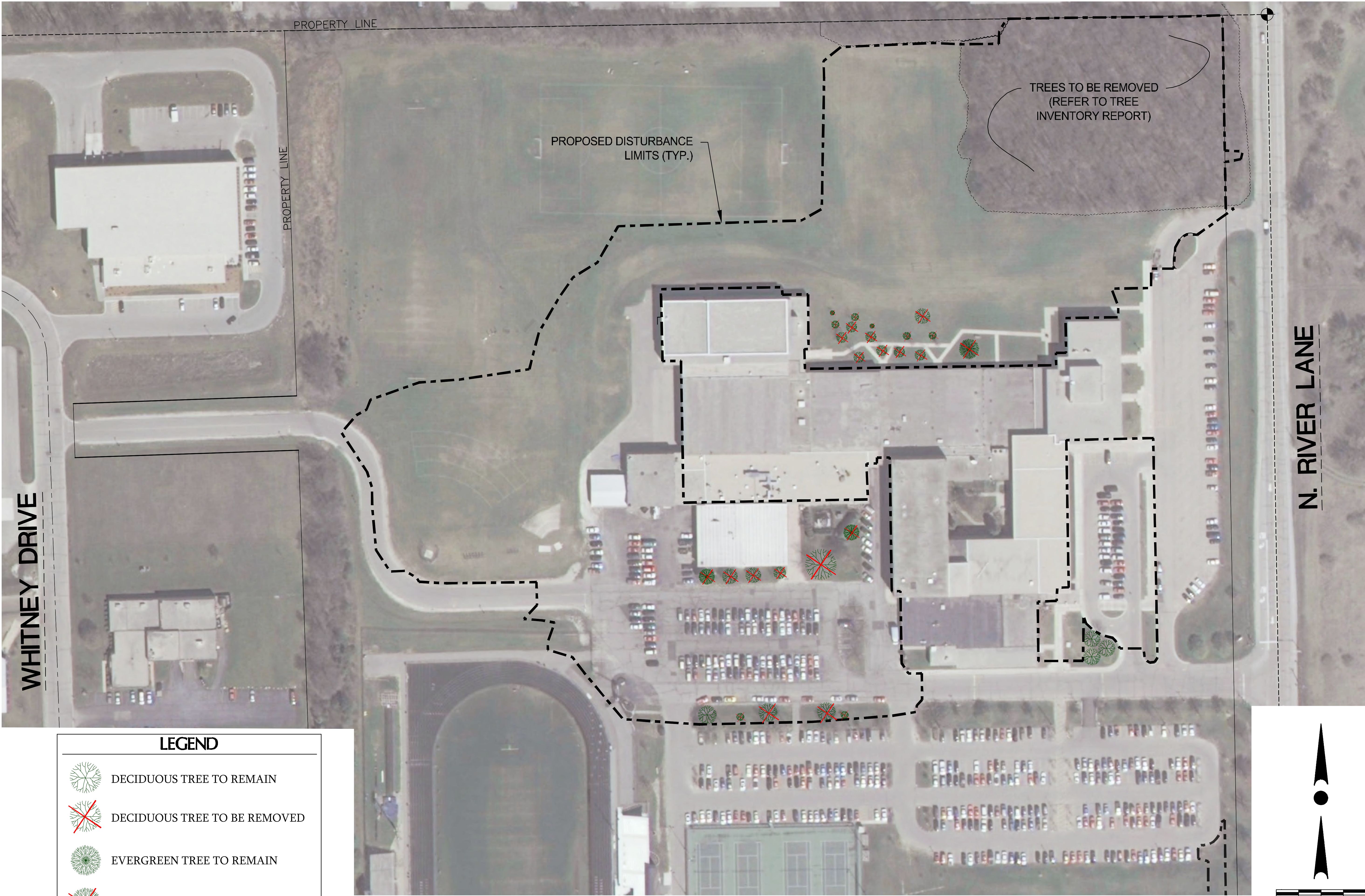
- CLEANED AFTER EACH USE. CONCRETE FORMS SHALL BE COATED WITH RELEASE AGENT TO ALLOW SEPARATION WITHOUT DAMAGE TO CONCRETE.
11. CONSTRUCTION AND CONTRACTION JOINTS SHALL BE IN ACCORDANCE WITH SECTION 415 OF WISDOT STANDARD SPECIFICATIONS.
12. ISOLATION JOINTS SHALL CONSIST OF PREFORMED JOINT FILLER STRIPS ABUTTING CURBING, INLETS, CATCH BASINS, MANHOLES, STRUCTURES, AND OTHER FIXED OBJECTS.
13. EDGES OF CONCRETE PAVEMENT, CURBING, SIDEWALK, PATIOS, AND JOINTS SHALL BE TOOLED IN CONCRETE AFTER INITIAL FLOATING WITH AN EDGING TOOL TO A 1/4-INCH RADIUS. REPEAT TOOLING AFTER APPLYING SURFACE FINISHES AND ELIMINATE TOOL MARKS ON SURFACES.
14. FINISH, CURE, AND PROTECT CURBING IN ACCORDANCE WITH SECTION 601 OF WISDOT STANDARD SPECIFICATIONS.
15. FINISH (LIGHT BROOM), CURE, AND PROTECT SIDEWALK AND PATIOS IN ACCORDANCE WITH SECTION 602 OF WISDOT STANDARD SPECIFICATIONS.
16. FINISH (ARTIFICIAL TURF DRAG), CURE, AND PROTECT VEHICULAR PAVEMENT AND PADS IN ACCORDANCE WITH SECTION 415 OF WISDOT STANDARD SPECIFICATIONS.
17. MAINTAIN CONCRETE FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIAL. SWEEP CONCRETE PRIOR TO SUBSTANTIAL COMPLETION INSPECTION.
18. REMOVE AND REPLACE CONCRETE THAT IS BROKEN, DAMAGED, DEFECTIVE, OR DOES NOT COMPLY WITH THE REQUIREMENTS LISTED ABOVE.

ASPHALT PAVING

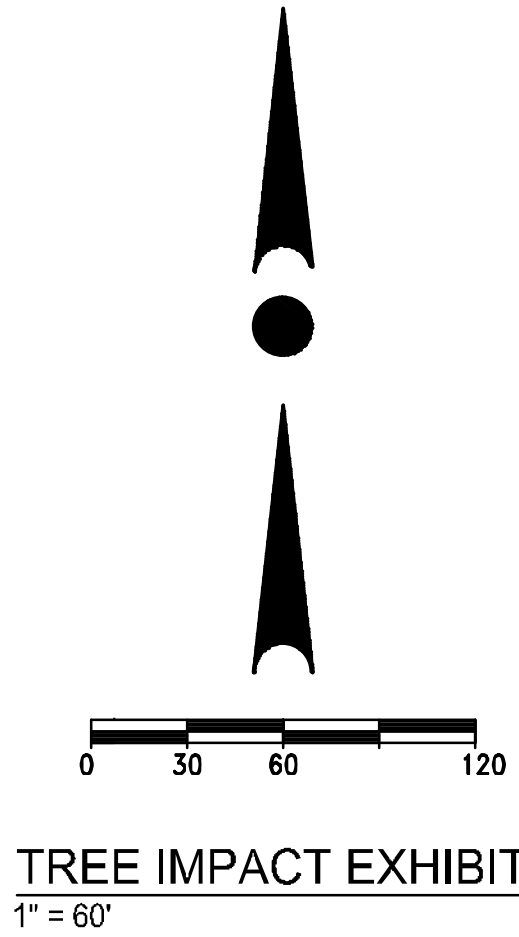
- 1.WORK SHALL CONSIST OF FINE GRADING SUBGRADE, EXCAVATION BELOW SUBGRADE (IF NECESSARY), PLACEMENT OF CRUSHED STONE BASE, INSTALLATION OF HOT-MIX ASPHALT, PAVEMENT MARKING, SIGNAGE, AND CLEANUP.
- 2.CRUSHED STONE BASE SHALL BE IN ACCORDANCE WITH SECTION 305 OF WISDOT STANDARD SPECIFICATIONS.
- 3.ASPHALTIC MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 455 OF WISDOT STANDARD SPECIFICATIONS.
- 4.AGGREGATE SHALL BE IN ACCORDANCE WITH SECTION 460 OF WISDOT STANDARD SPECIFICATIONS.
- 5.PAVEMENT MARKING PAINT SHALL BE IN ACCORDANCE WITH WISDOT APPROVED PRODUCTS LIST. COLOR SHALL BE WHITE UNLESS INDICATED OTHERWISE ON THIS PLAN.
- 6.DO NOT CONDUCT ASPHALT PAVING IF ANY OF THE FOLLOWING CONDITIONS EXIST: CRUSHED STONE BASE IS WET OR EXCESSIVELY DAMP; TEMPERATURE IS BELOW 30 DEGREES FAHRENHEIT AT TIME OF BINDER COURSE INSTALLATION; TEMPERATURE HAS BEEN BELOW 35 DEGREES FAHRENHEIT WITHIN 12 HOURS PRIOR TO TACK COAT APPLICATION; TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT AT TIME OF SURFACE COURSE INSTALLATION.
- 7.COMPACT ASPHALT IN ACCORDANCE WITH SECTION 450 OF WISDOT STANDARD SPECIFICATIONS. COMPACT ASPHALT TO PRODUCE THE THICKNESS INDICATED WITHIN PLUS/MINUS 1/4-INCH FOR BINDER COURSE, AND WITHIN PLUS 1/4-INCH FOR SURFACE COURSE (NO MINUS).
- 8.APPLY TACK COAT BETWEEN ASPHALT COURSES AT A MINIMUM RATE OF 0.25 GAL/SY.
- 9.NO TRAFFIC SHALL BE ALLOWED ON ASPHALT AFTER FINAL ROLLING UNTIL IT HAS COOLED AND HARDENED.
10. FINAL ASPHALT SURFACE SHALL BE WITHIN A 1/8-INCH TOLERANCE AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED LONGITUDINALLY OR TRANSVERSELY. REMOVE AND REPLACE ALL RAISED AND DEPRESSED AREAS EXCEEDING TOLERANCE.
11. APPLY PAVEMENT MARKINGS TO CLEAN AND DRY SURFACE, FREE FROM FROST, TO ENSURE PROPER BONDING. APPLY PAINT IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS TO PRODUCE MARKINGS AS INDICATED WITH UNIFORM, STRAIGHT EDGES.

RETAINING WALLS

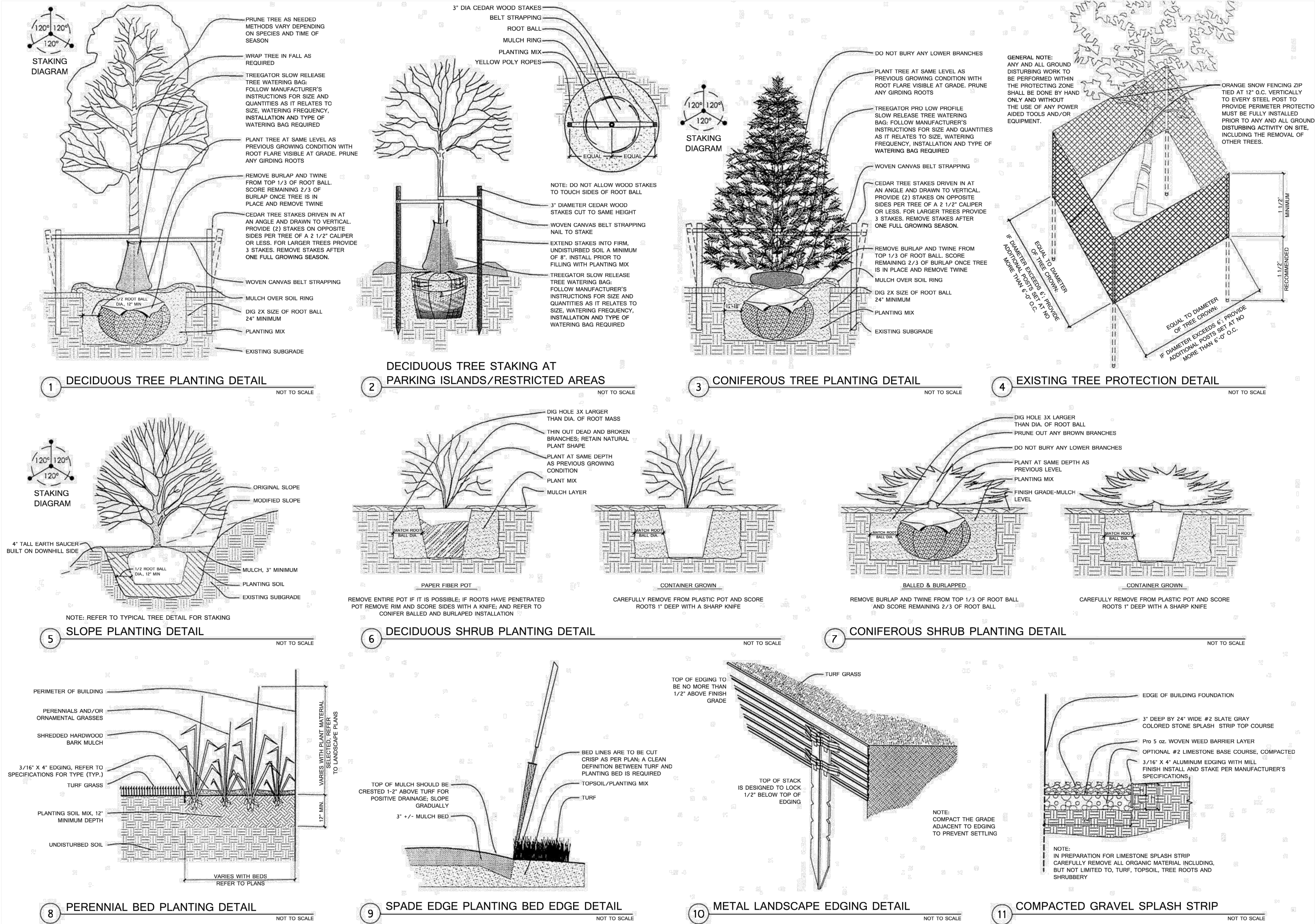
- 1.WORK SHALL CONSIST OF FURNISHING DETAILED DESIGN, MATERIALS, LABOR, EQUIPMENT, SUPERVISION, AND DIRECTION TO CONSTRUCT RETAINING WALL SYSTEMS IN REASONABLY CLOSE CONFORMITY TO THE LINES, GRADES, AND DIMENSIONS SHOWN ON THIS PLAN. RETAINING WALLS SHOWN ON THIS PLAN ARE FOR GENERAL LOCATION AND MATERIAL REFERENCE ONLY.
- 2.THE CONTRACTOR SHALL PROCURE DETAILED DESIGN CALCULATIONS AND DRAWINGS, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER EXPERIENCED WITH RETAINING WALL DESIGN AND LICENSED IN THE STATE IN WHICH THE RETAINING WALLS ARE TO BE CONSTRUCTED.
- 3.THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SURROUNDING STRUCTURES AND UTILITIES ARE PROTECTED FROM THE EFFECTS OF EXCAVATION AND PROVIDING ANY NECESSARY EXCAVATION SUPPORT.
- 4.THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION ADJACENT TO THE RETAINING WALLS DOES NOT DISTURB OR PLACE TEMPORARY LOADS ON THE RETAINING WALLS THAT EXCEED DESIGN LOADS.



LEGEND	
	DECIDUOUS TREE TO REMAIN
	DECIDUOUS TREE TO BE REMOVED
	EVERGREEN TREE TO REMAIN
	EVERGREEN TREE TO BE REMOVED



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GENERAL LANDSCAPE NOTES

THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COORDINATION OF PLANTING OPERATION AS WELL AS OTHER CONTRACTED WORK, WITH THE OTHER CONTRACTORS ON THE JOB. REPAIR OF DAMAGE TO THE PLANTS, GRADE, LAWNS, ETC., DURING INSTALLATION SHALL NOT BE CONSIDERED AS AN EXTRA, AND NOT CHARGEABLE TO THE OWNER. DAMAGE CAUSED BY OTHER CONTRACTORS SHALL BE THE RESPONSIBILITY OF SAID CONTRACTOR.

THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL, SOIL AND/OR RUBBISH CAUSED BY HIS EMPLOYEES OR WORK. CONTRACTOR SHALL CLEAN BEHIND HIS WORK IMMEDIATELY AND SHALL TAKE NECESSARY PRECAUTIONS TO KEEP CONCRETE, BRICK AND OTHER PAVING MATERIAL CLEAN OF SOIL.

MATERIALS PLANTED AND DAMAGED OR DESTROYED BY ANY PHENOMENA CONSIDERED AS AN ACT OF GOD, E.G., VANDALISM, WIND, FIRE, FLOOD, FREEZE, THEFT, RAIN, HAIL, ETC., SHALL BELONG TO THE OWNER AND SHALL BE HIS RESPONSIBILITY. MATERIALS STORED ON-SITE AS YET NOT PLANTED ARE NOT COVERED BY THIS CLAUSE AND ARE THE SOLE RESPONSIBILITY OF CONTRACTOR.

ALL PLANT MATERIALS FURNISEHD BY THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED, SHALL BE NO. 1 GRADE OR BETTER IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS AS DESCRIBED IN ANSI Z60.1 1996. LANDSCAPE ARCHITECT RESERVES ALL RIGHT TO DETERMINE ACCEPTABILITY OF PLANT MATERIAL SUBMITTED FOR PLANTING.

ALL PLANTS SHALL BE PLANTED IN PITS, CENTERED AND SET ON SIX-INCHES OF COMPACTED TOPSOIL TO SUCH A DEPTH THAT THE FINISH GRADE LEVEL, AT THE PLANT, AFTER SETTLEMENT WILL BE THE SAME AS THAT AT WHICH THE PLANT WAS GROWN. ALL PLANTING AREAS SHALL RECEIVE ADEQUATE FERTILIZATION WITH 'EASY GROW' 3 YR. (1 OZ.) FERTILIZER PACKETS OR EQUIVALENT. GRANULAR FERTILIZERS WILL BE ACCEPTED, BUT MUST BE APPROVED BY LANDSCAPE ARCHITECT. PLEASE SUBMIT SPECIFICATIONS.

APPLICATION RATES SHALL BE AS FOLLOWS:

- TREES:
- 1-1/2" TO 3" CAL.: 2 PACKETS, ONE EACH SIDE
 - GREATER THAN 3": ADD 1 PACKET PER 1" CAL. (I.E. 4"-4 PACKETS)

- SHRUBS:
- 1 PACKET FOR EVERY 12" HEIGHT OR SPREAD. (SPACE EVENLY IF 2 OR MORE PACKETS REQUIRED)

PERFORM ALL WORK NECESSARY FOR INSTALLING SOD AND/OR SEED AS SHOWN ON THE DRAWINGS OR INFERABLE THERE FROM AND/OR SPECIFIED, IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

IMMEDIATELY PRIOR TO SEEDING, THE GROUND SHALL BE SCARIFIED AND RAKED TO A FRIABLE FINE TEXTURE. LAWN AREAS SHALL BE SEEDED WITH A MECHANICAL SPREADER AT THE RATE AS RECOMMENDED FOR LOCAL CONDITIONS, AFTER SEEDING, ALL AREAS SHALL BE RAKED TO SATISFACTORILY COVER SEED, AND THEN THOROUGHLY WATERED AND COVERED WITH TREATED SHREDDED PAPER MULCH OR STRAW MULCH. THE METHODS OF SEEDING MAY BE VARIED BY THE CONTRACTOR BY HIS OWN RESPONSIBILITY TO ESTABLISH A SMOOTH UNIFORM TURF. HYDRO MULCH EMBANKMENTS THAT EXCEED 1:4 SLOPES.

SEED SHALL BE TRUE TO SPECIE AS CALLED FOR ON THE SEEDING PLAN. ALL SEED SHALL BE DELIVERED TO THE JOB SITE IN SACKS PLAINLY MARKED AND CERTIFIED AS TO CONTENT.

SOD SHALL BE PLACED WHEN THE GROUND IS IN WORKABLE CONDITION AND TEMPERATURES ARE LESS THAN 90 DEGREES FAHRENHEIT.

LANDSCAPE CONTRACTOR SHALL WATER SOD IMMEDIATELY AFTER INSTALLATION TO PREVENT EXCESSIVE DRYING DURING PROGRESS OF THE WORK. AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED. IT SHALL THEN BE THOROUGHLY IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE NEW SOD PAD AND SOIL IMMEDIATELY BELOW THE SOD ARE THOROUGHLY WET.

THE LANDSCAPE CONTRACTOR SHALL VERIFY GRADES ESTABLISHED DURING FINIAL SOIL PREPARATION AS BEING TRUE TO FINISH CONTOURS SHOWN, AND SHALL MAINTAIN SUCH AREAS UNTIL THE EFFECTIVE DATE TO BEGIN SODDING AND/OR SEEDING OPERATION. IN SUCH INSTANCES WHERE A SPLIT RESPONSIBILITY EXISTS BETWEEN GRADING AND GRASSING CONTRACTORS, IT SHALL BE THE RESPONSIBILITY OF THE GRASSING CONTRACTOR TO MAINTAIN A SUITABLE GRADE FOR GRASSING ONCE HE HAS ACCEPTED THE GRADE PROVIDED TO HIM. IN ALL CASES, THE GROUND SHALL BE HARD RAKED IMMEDIATELY PRIOR TO BEING SODDED TO REMOVE ANY IRREGULARITIES IN THE GRADE.

LANDSCAPE/SITE NOTES

FIELD VERIFY ALL ELEVATIONS -- IF THERE IS ANY MAJOR DISCREPANCY, PLEASE NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.

- ALL BEDS SHALL BE SPADE EDGE UNLESS OTHERWISE NOTED PLAN.
- ALL PERRENIAL GROUNDCOVER BEDS SHALL BE AMENDED PRIOR TO PLANTING.
 - * WE WILL AMEND WITH PERMA MATRIX FOLLOWING DIRECTIONS ON BAG AND ADD WORM CASTINGS OR COMPOST TO THE DEPTH OF 2"
 - * WE WILL CULTIVATE ALL MATERIAL TO A DEPTH OF 8-10"
 - * IF THERE IS A SUBSTITUTE MEDIUM BY CONTRACTOR THOSE SPECIFICATIONS NEED TO BE SUBMITTED TO LANDSCAPE ARCHITECT.
- ALL BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH (DOUBLE PREFERRED) UNLESS OTHERWISE NOTED ON PLAN.
 - * TREES AND SHRUBS WILL HAVE 2" DEPTH -- MEDIUM
 - * GROUNDCOVER AND PERRENIALS 1" DEPTH -- MAXIMUM (OR DUSTING)
- IN PLANTING OF TREES
 - * TREES WILL ONLY BE STAKED IF WIND BECOMES A STEADY ISSUE
- ALL TREES AND LAWN AREAS SHALL HAVE A 4' DIAMETER HARDWOOD MULCH RING.
- ALL AREAS ALONG HARDSCAPE I.E., SIDEWALKS, PARKING LOTS, PATIOS, ETC. SHALL BE DOUBLE SEEDED TO ENSURE A HEALTHY ESTABLISHMENT OF SEEDED LAEN ALONG THESE AREAS.
- WHERE GRADES EXCEED 4:1 EROSION CONTROL FABRIC SHALL BE INSTALLED AND SECURED WITH LANDSCAPE STAPLES.
 - * EROSION CONTROL FABRIC SHALL BE OVERLAPPED 3-4" WITH SEAM FACING DOWNHILL
- ALL SEEDED LAWNS SHALL BE:
 - * MULCHED WITH MATERIAL AS SPECIFIED IN PLAN
 - * SEEDED WITH REINDERS PREMIUM SO OR EQUIVALENT AT THE RATE OF 5# PER 1000SQFT
 - * MECHANICALLY SEEDED AND LIGHTLY RAKED IN BY HAND OR MACHINE
 - * STARTER FERTILIZER SHALL BE APPLIED AT THE RATE OF 10# PER 1000 SOFT
 - * PENN MULCH, STRAW OR HYDRO MULCH AREA AS SPECIFIED ON PLANS AND SPECIFICATIONS
- DURING THE PLANTING PROCESS ALL PLANFTS SHALL BE WATERED IN BY CONTRACTOR ONSITE AND THE PLANTS SHALL THEN BE THE RESPONSIBILITY OF THE CONTRACTOR ONLY DURING THE DURATION OF THE PLANTING.
 - * WATERING SHOULD OCCUR EVERY 3RD DAY TO ENSURE PROPER ESTABLISHMENT OF PLANTS
- ALL PLANTINGS SHALL BE DRENCHED WITH A ROOT STIMULANT OR EQUIVALENT UPON PLANTING TO ENSURE PROPER ESTABLISHMENT.
- WHEREVER THERE IS A DISCREPANCY BETWEEN QUANTITIES ON PLANT LIST AND QUANTITIES ON PLAN -- PLAN QUANTITIES WILL ALWAYS TAKE PRECEDENT.

GUARANTEE PERIOR FOR PLANT MATERIALS SHALL BE AS FOLLOWS:

LAWNS (SEED & SOD)*	3 MONTHS
GROUND COVER	3 MONTHS
SHRUBS	12 MONTHS
TREES	12 MONTHS
PERENNIALS, ROSES, JAPANESE MAPLES	90 DAYS FROM INSTALLATION

*(IF LAWN IS INSTALLED IN FALL AND NOT GIVEN FULL 90 DAYS OF GUARANTEE PERIODS, OR IF NOT CONSIDERED ACCEPTABLE AT THAT TIME, CONTINUE GUARANTEE THE FOLLOWING SPRING UNTIL ACCEPTABLE LAWN IS ESTABLISHED)

ALL SHRUB PLANTING BEDS TO BE LINED WITH A MINIMUM OF 2"-3" SHREDDED BARK MULCH (NO PLASTIC LINERS). PLACE MULCH AT BASE OF ALL TREES (MINIMUM 4' DIAMETER).

A 10/10/10 FERTILIZER MIXTURE SHALL BE APPLIED AT 20#/1000SF AND WORKED INTO THE LAWN BED BEFORE SEEDING OR SODDING.

RECOMMENDED SEED MIX:
PREMIUM 60 GRASS SEED MIX -- REINDER'S (262-786-3300) NO-MOW LOW GROW GRASS SEED MIX
20% AMERICAN KENTUCKY BLUE GRASS 45% SPARTAN HARD FESCUE
20% ALPINE KENTUCKY BLUE GRASS 40% AZAY SHEEP FESCUE
20% LANGARA KENTUCKY BLUE GRASS 15% TRANSIT ANNUAL RYE GRASS
20% VICTORY CHEWING FESCUE APPLY AT A RATE OF 175 POUNDS PER ACRE
10% FIESTA ILL PERENNIAL RYE GRASS REFER TO SUPPLIER SPECIFICATION AND INSTALLATION
APPLY AT A RATE OF 175 POUNDS PER ACRE CUT SHEETS FOR FURTHER INFORMATION.
REFER TO SUPPLIER SPECIFICATION AND INSTALLATION CUT SHEETS FOR FURTHER INFORMATION.

PROPOSED TREES TO BE STAKED AS REQUIRED. VERIFY WITH LANDSCAPE ARCHITECT IF EXPOSURE AND WIND CONDITIONS PREVALENT.

ANY SERIES OF TREES TO BE PLACED IN A PARTICULAR ARRANGEMENT WILL BE FIELD CHECKED FOR ACCURACY. TREES OF SAME SPECIES TO BE MATCHED IN GROWTH CHARACTER AND UNIFORMITY. ANY TREES MISPLACED WILL BE SUBJECT TO REJECTION.

UPON ACCEPTANCE OF THE LANDSCAPE INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL SUPPLY THE LANDSCAPE ARCHITECT WITH A COMPLETE AND ADEQUATE MAINTENANCE PROGRAM TO BE FOLLOWED DURING AND AFTER THE GUARANTEE PERIOD. THE LANDSCAPE CONTRACTOR SHALL MAKE PERIODIC INSPECTIONS OF THE JOB DURING THE GUARANTEE PERIOD TO DETERMINE IF PROPER MAINTENANCE IS BEING GIVEN.

IT SHALL BE UNDERSTOOD THAT IN ACCORDANCE WITH THE TERMS OF THE GUARANTEE THAT THE LANDSCAPE CONTRACTOR MUST PROMPTLY INFORM THE OWNER IF PROPER MAINTENANCE IS NOT BEING GIVEN TO THE INSTALLATION. SUCH NOTICE SHALL BE IN WRITING, OUTLINING CORRECTIVE MEASURES TO BE TAKE, WITH A COPY TO LANDSCAPE ARCHITECT. AT ANY TIME DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO REPLACE ALL PLANTS THAT ARE DEAD OR IN UNSATISFACTORY CONDITION OF GROWTH. ALL REPLACEMENT PLANTS SHALL BE OF LIKE SIZE AND KIND OF THE PLANTS REMOVED. ANY SEED AREAS OVER ONE FOOT SQUARE ARE NOT COVERED BY TURF SHALL BE RESEEDED BY THE CONTRACTOR. ANY SEED AREAS OVER ONE FOOT SQUARE THAT ARE DEAD OR DYING SHALL BE REPLACEMENTS INCLUDED WITHIN THE GUARANTEE SHALL BE AT THE LANDSCAPE CONTRACTOR'S EXPENSE.

ANY ALTERATION TO THE LANDSCAPE PLAN WILL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL BY THE LANDSCAPE ARCHITECT.

LANDSCAPE CONTRACTORS ARE RESPONSIBLE FOR MAKING SURE ALL TREE BALLS ARE MOIST AT THE CORE, WHEN TREES ARE INSTALLED.

LAWN EDGES THAT ABUT PARKING LOTS WITH NO CURBING SHALL BE DOUBLE SEEDED TO A WIDTH OF 5'.

PRE-EMERGENT HERBICIDE (TREFLAN OR EQUIV.) TO BE APPLIED TO ALL PLANT BEDS PRIOR TO PLANTING FOR NOXIOUS WEED CONTROL.

THE QUANTITIES INDICATED ON THE MATERIAL SCHEDULE ARE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR, BUT SHOULD NOT BE ASSUMED TO ALWAYS BE CORRECT. IN THE EVENT OF A DISCREPANCY, THE PLANTING PLAN WILL TAKE PRECEDENCE OVER THE MATERIAL SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY CALCULATION AND THE LIABILITY PERTAINING TO THOSE QUANTITIES AND ANY RELATED CONTRACT DOCUMENTS AND/OR PRICE QUOTATIONS.

PLANT MATERIAL SHOWN ON LANDSCAPE PLAN IS DEPICTED AT MATURE GROWTH

AT LEAST SEVENTY-TWO HOURS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL VERIFY UTILITY LOCATION AS GIVEN BY THE ELECTRIC, GAS, TELEPHONE, WATER, SEWER, AND CABLE TELEVISION COMPANIES, UTILITIES, OR ENTITIES. REVIEW WITH OWNER'S REPRESENTATIVE SITE MECHANICAL, SITE ELECTRICAL AND LIGHTING, SITE GRADING AND DRAINAGE, SITE IRRIGATION AND ALL OTHER DRAWINGS PERTAINING TO UNDERGROUND UTILITY LOCATIONS. RECORD SET OF INFORMATION THE SAME AS IN POSSESSION OF OWNER'S REPRESENTATIVE. ALSO REVIEW OWNERS "MARK SETS" OF ALL OF THESE DRAWINGS IN POSSESSION OF THE CONTRACTOR OR OWNER. MARK ALL SUCH UTILITIES ON THE SITE PRIOR TO COMMENCING. COORDINATE WITH OWNER BEFORE AND DURING CONSTRUCTION. REPAIR ANY DAMAGE TO ANY SYSTEM THAT IS CAUSED BY LANDSCAPE CONTRACTOR AT NO COST TO OWNER.

DEVIATIONS FROM THESE PLANS SHALL BE NOTED ON THE RECORD DRAWING BY THE CONTRACTOR AND ONLY WITH PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE. VERBAL AGREEMENTS OR REVISIONS WITHOUT A CHANGE ORDER WILL NOT BE RECOGNIZED BY THE LANDSCAPE ARCHITECT AND OWNER.

ALL PLANTS MUST BE BID AND SELECTED PER THE SPECIES SPECIFIED ON THE PLANS. THE SIZES OF THE PLANT MATERIAL LISTED HEREIN IS A MINIMUM ACCEPTABLE SIZE. ADDITIONALLY, IF EXCESSIVE PRUNING REDUCES THE CROWN, THE PLANT SHALL BE REPLACED.

PROTECT PUBLIC FROM CONSTRUCTION WITH BARRIER AND BARRICADES.

ALL AREAS THAT WERE DISTURBED DURING CONSTRUCTION AND ARE NOT COVERED WITH PAVEMENT, BUILDING, PLANTING BEDS, OR TREE PITS ARE TO BE TOP SOILED 4"-6" DEEP (MIN.) AND SHALL BE SODDED/SEEDED WITH SPECIFIED LAWN GRASS. LANDSCAPE CONTRACTOR SHALL INCLUDE COST PER SQUARE YARD FOR ADDITIONAL SEED OPERATION AS MAY BE POSSIBLY REQUIRED TO REESTABLISH ADJACENT TURF GRASS AREAS WHICH MAY BECOME DAMAGED DURING THE CONSTRUCTION PROCESS OR TO REPAIR DAMAGE DONE BY OTHERS.

CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS, TOOLS, EQUIPMENT, LABOR AND PLANTS NECESSARY FOR PROPER PLANTING AND INSTALLATION OF ALL LANDSCAPE MATERIAL.

CONTRACT IS RESPONSIBLE FOR ALL ESTIMATING AND BIDDING. ALL AREAS, QUANTITIES, AND MATERIALS SHOULD BE FIELD VERIFIED WITH SITE CONDITIONS.

WHERE DISCREPANCIES OCCUR BETWEEN THE LANDSCAPE PLANS AND/OR ARCHITECTURAL AND/OR THE CIVIL DRAWING (AND ANY OTHER SITE DRAWINGS) THE DISCREPANCIES MUST BE BROUGHT TO THE LANDSCAPE ARCHITECTS ATTENTION FOR COORDINATION AND RESOLUTION.

ALL DISEASED, NOXIOUS OR INAPPROPRIATE MATERIALS SHALL BE REMOVED FROM THE PROPOSED SITE PRIOR TO THE START OF CONSTRUCTION AND DURING THE MAINTENANCE PERIOD.

GENERAL CONTRACTOR SHALL LEAVE THE SITE FREE OF CONSTRUCTION DEBRIS.

ALL LAWN AND PLANTING AREAS SHALL SLOPE TO DRAIN A MINIMUM OF 2% UNLESS NOTED OTHERWISE AND REVIEWED WITH OWNER'S REPRESENTATIVE FOR FINAL APPROVAL.

FINISH GRADES FOR SHRUB AND GROUND COVER AREAS SHALL BE HELD 1" BELOW TOP OF ADJACENT PAVEMENTS AND CURBS. UNLESS NOTED OTHERWISE ON THE PLANS, REFER TO PANTING DETAILS FOR FURTHER INFORMATION.

ALL PERENNIAL, ANNUAL, AND GROUND COVER AREAS TO RECEIVE A BLEND OF ORGANIC SOIL AMENDMENTS PRIOR TO PLANTING. TILL THE FOLLOWING MATERIALS INTO EXISTING TOPSOIL TO A DEPTH OF APPROXIMATELY 8". A DEPTH OF 12" IN TREE PITS. PROPORTIONS AND QUANTITIES MAY REQUIRE ADJUSTMENT DEPENDING ON THE CONDITIONS OF EXISTING SOIL. REFER TO PLANTING DETAILS FOR FURTHER INFORMATION:

- PER EVERY 100 SQUARE FEET ADD:
- ONE -- 2 CUBIC FOOT BALE OF PEAT MOSS
- 2 POUNDS OF 5-10-5 GARDEN FERTILIZER
- 1/4 CUBIC YARD OF COMPOSTED MANURE
- PLANT STARTER OR OTHER COMPOSTED ORGANIC MATERIAL

**PREMIXED SOILS WILL BE ACCEPTED, I.E. PURPLE COW, SOIL-LIFE, ETC. PLEASE NOTIFY LANDSCAPE ARCHITECT OF ALTERNATIVES USED.

ALL SHRUBS TO BE POCKET PLANTED WITH A 50/50 MIX OF PLANT STARTER AND EXISTING SOIL. INSTALL TOPSOIL INTO ALL BEDS AS NEEDED TO ACHIEVE PROPER GRADE. REMOVE ALL EXCESSIVE GRAVEL, CLAY AND STONES. REFER TO PLANTING DETAILS FOR FURTHER INFORMATION.

PLANT ALL TREES SLIGHTLY HIGHER THAN FINISHED GRADE AT ROOT FLARE. BACK FILL HOLE WITH 2/3 EXISTING TOPSOIL AND 1/3 PEAT MOSS. AVOID ANY AIR POCKETS. DISCARD ANY GRAVEL, CLAY OR STONES. REFER TO PLANTING DETAILS FOR FURTHER INFORMATION.

ALL TREES TO BE INSTALLED, STAKED, GUYED ACCORDING TO DETAILS. REFER TO PLANTING DETAILS FOR FURTHER INFORMATION.

ALL PLANTINGS TO BE WATERED AT THE TIME OF PLANTING THROUGHOUT CONSTRUCTION AND UPON COMPLETION OF PROJECT AS REQUIRED.

WHERE SPECIFIED, ALL PLANT BEDS, PITS AND TREE RINGS ARE TO RECEIVE A MINIMUM OF 2"-3" DRESSING OF SHREDDED HARDWOOD OAK BARK MULCH SHAVINGS (OR BROWN ENVIRO-MULCH) FREE OF GROWTH, WEEDS, FOREIGN MATTER DETRIMENTAL TO PLANT LIFE, OF GERMINATION-INHIBITING INGREDIENTS. LANDSCAPE CONTRACTOR TO PROVIDE A SAMPLE TO OWNER FOR APPROVAL. CONTRACTOR TO TAKE CARE WITH INSTALLATION NOT TO DAMAGE OR COVER PLANTS. REFER TO PLANTING DETAILS FOR FURTHER INFORMATION.

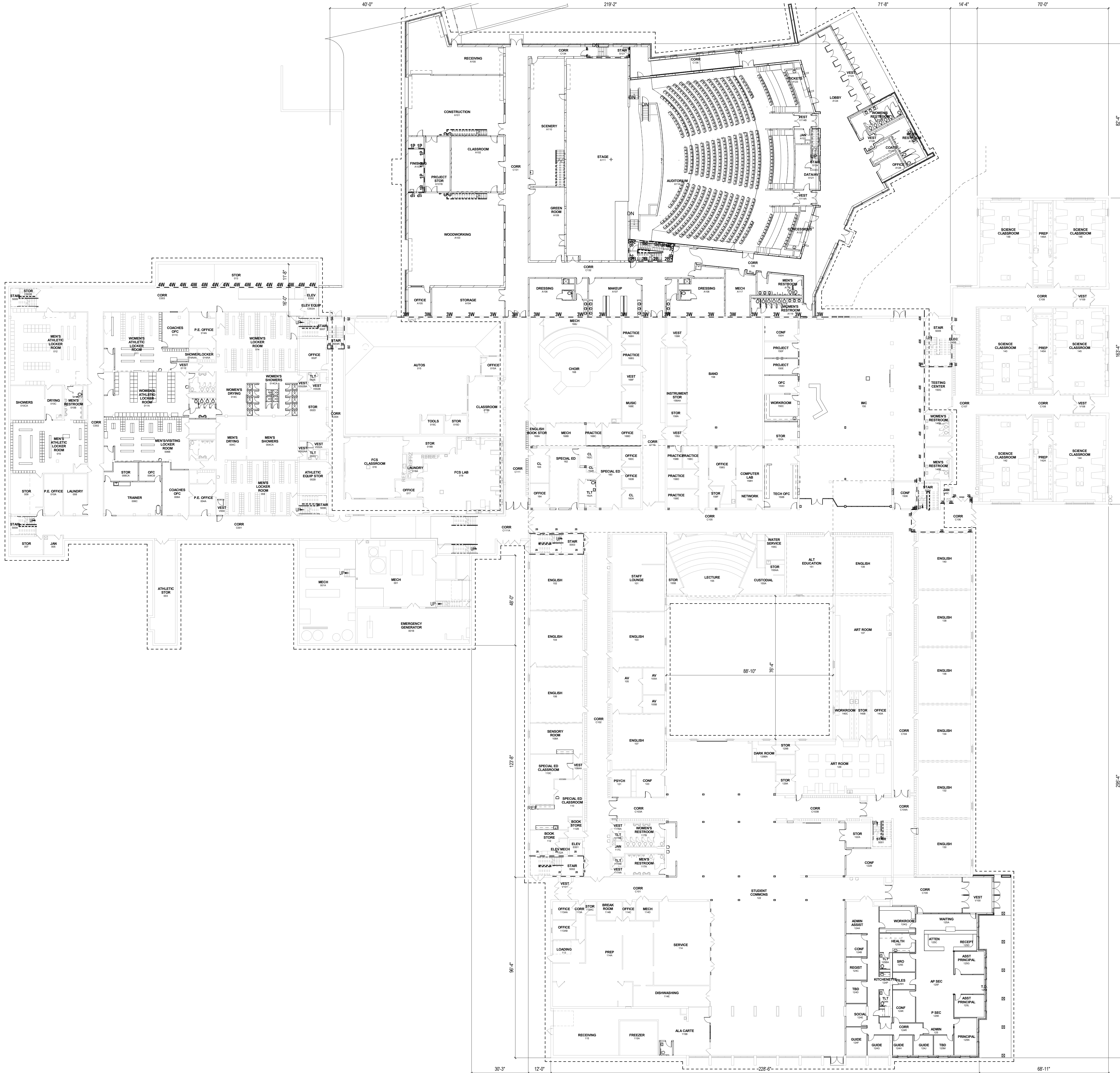
DURING THE INITIAL 30 DAY MAINTENANCE PERIOD, THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE AN ON-GOING PLEASANT VISUAL ENVIRONMENT WHEREAS ANY PLANT WHICH IS NOT RESPONDING TO TRANSPLANTING OR THRIVING SHALL IMMEDIATELY BE REPLACED. NEW LAWNS SHALL BE WATERED AND REPAIRED AND WEED MUSH CONSTANTLY BE REMOVED. NO EXCEPTIONS WILL BE GRANTED.

LANDSCAPE/SITE DEMOLITION CONTRACTOR TO VERIFY LOCATION OF EXISTING TREES AND SHRUBS TO BE SALVAGED AND CLEARLY TAG THEM WITH MARKING TAPE AND CONSTRUCTION FENCE.

LANDSCAPE/SITE DEMOLITION CONTRACTOR TO VERIFY LOCATIONS OF EXISTING TREES AND SHRUBS TO BE RELOCATED. ALL PLANT MATERIALS TO BE RELOCATED IS TO BE CLEARLY TAGGED WITH MARKING TAPE BEFORE BEFORE AND SITE DEMOLITION IS TO BEGIN.

DESIGN IRRIGATION SYSTEM TO BE DESIGNED FOR A OVERLAPPING ZONED SPRINKLER HEAD SYSTEM IN ALL LAWN & ISLAND AREAS AND A DRIP SYSTEM FOR ALL FOUNDATION PLANTING AREAS.

CONTRACTOR NOTE:
BEFORE SITE GRADING AND DEMOLITION IS TO BEGIN FOR PROPOSED NEW PAVEMENT, THE AREA IS TO BE STAKED AND ALL TREE AND SHRUBS THAT ARE TO BE PRESERVED ARE TO BE TAGGED BY LANDSCAPE ARCHITECT AND RELOCATED BY LANDSCAPE CONTRACTOR. IF REQUIRED A TREE PRESERVATION PLAN WILL BE PRODUCED AND COORDINATED WITH CITY STAFF. DEMOLITION CONTRACTOR TO COORDINATE WITH LANDSCAPE ARCHITECT, OWNER AND LANDSCAPE CONTRACTOR.



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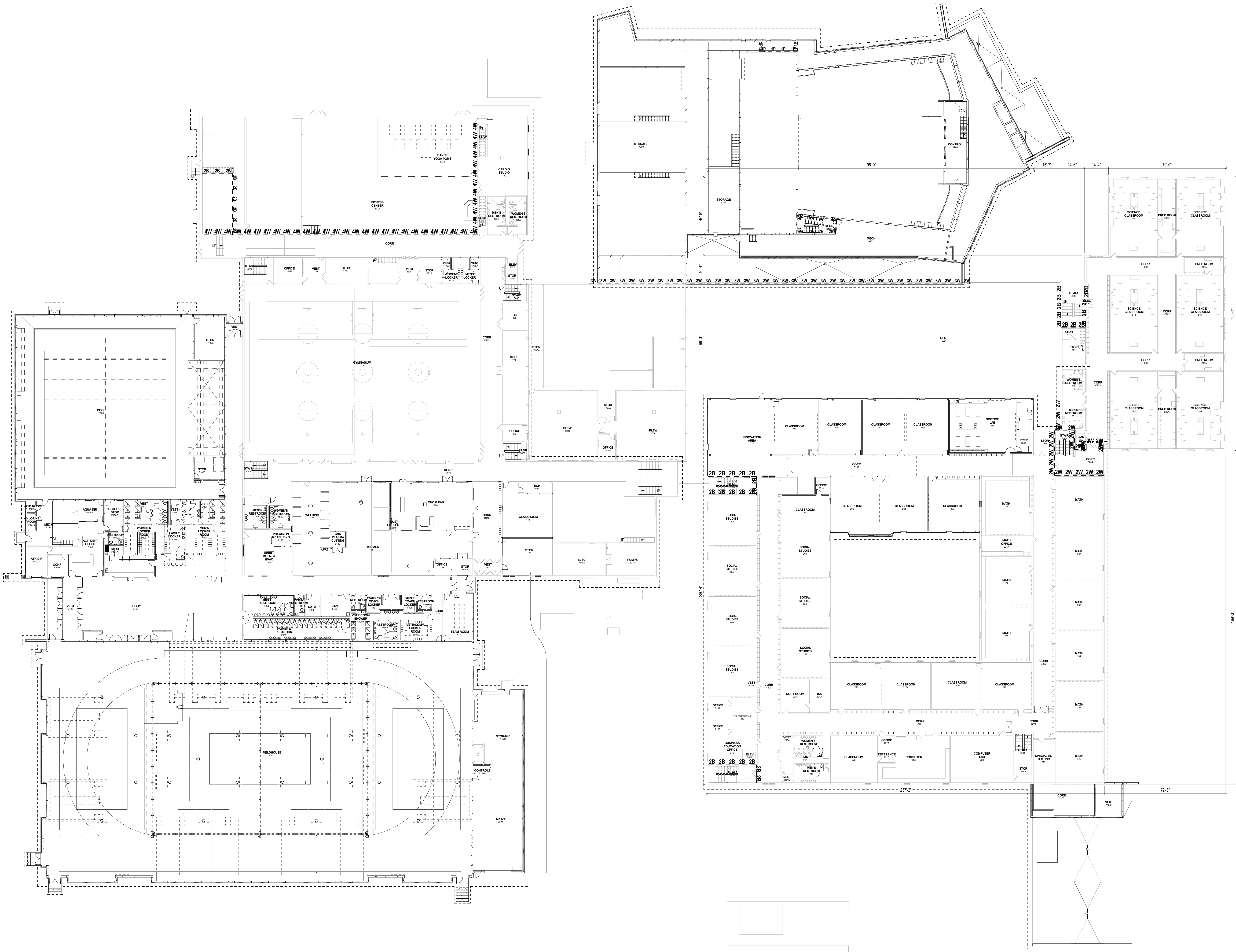
Revisions

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E4
A201
GYM & MIDDLE LEVEL - OVERALL BP2
1" = 20'-0"

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Sheet No.: A201

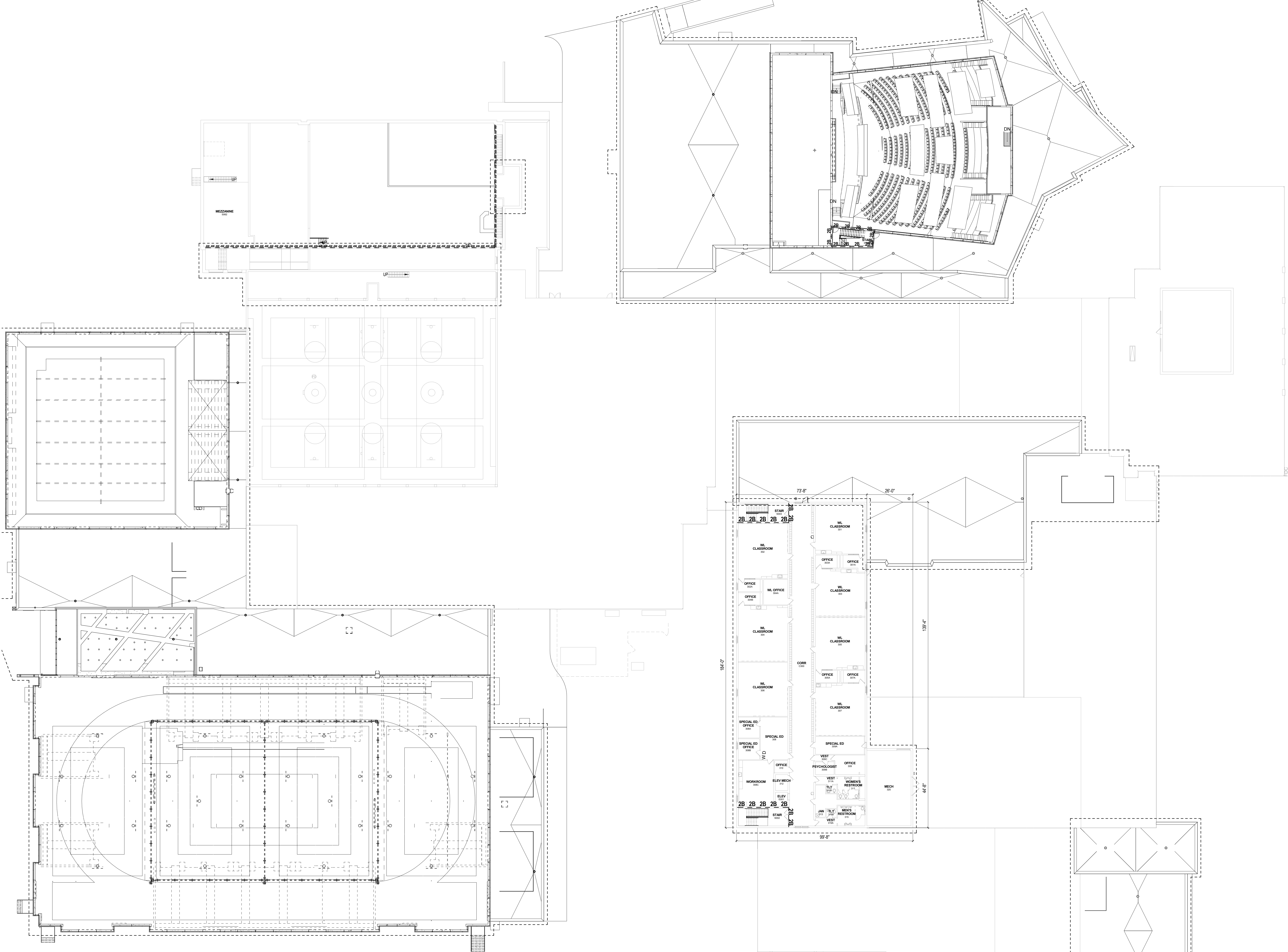
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E4
A202 04-UPPER LEVEL - OVERALL
1" = 20'-0"

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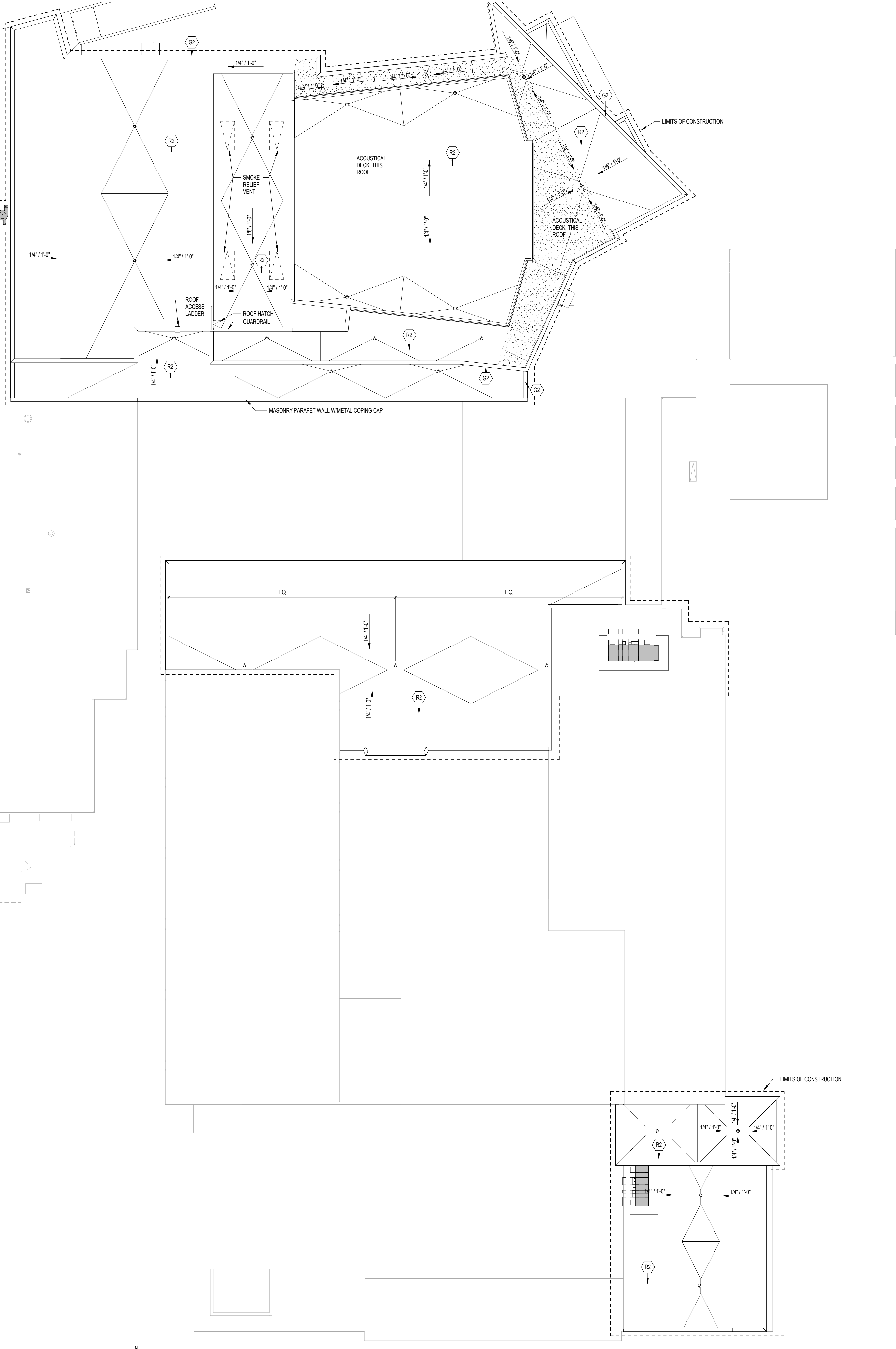
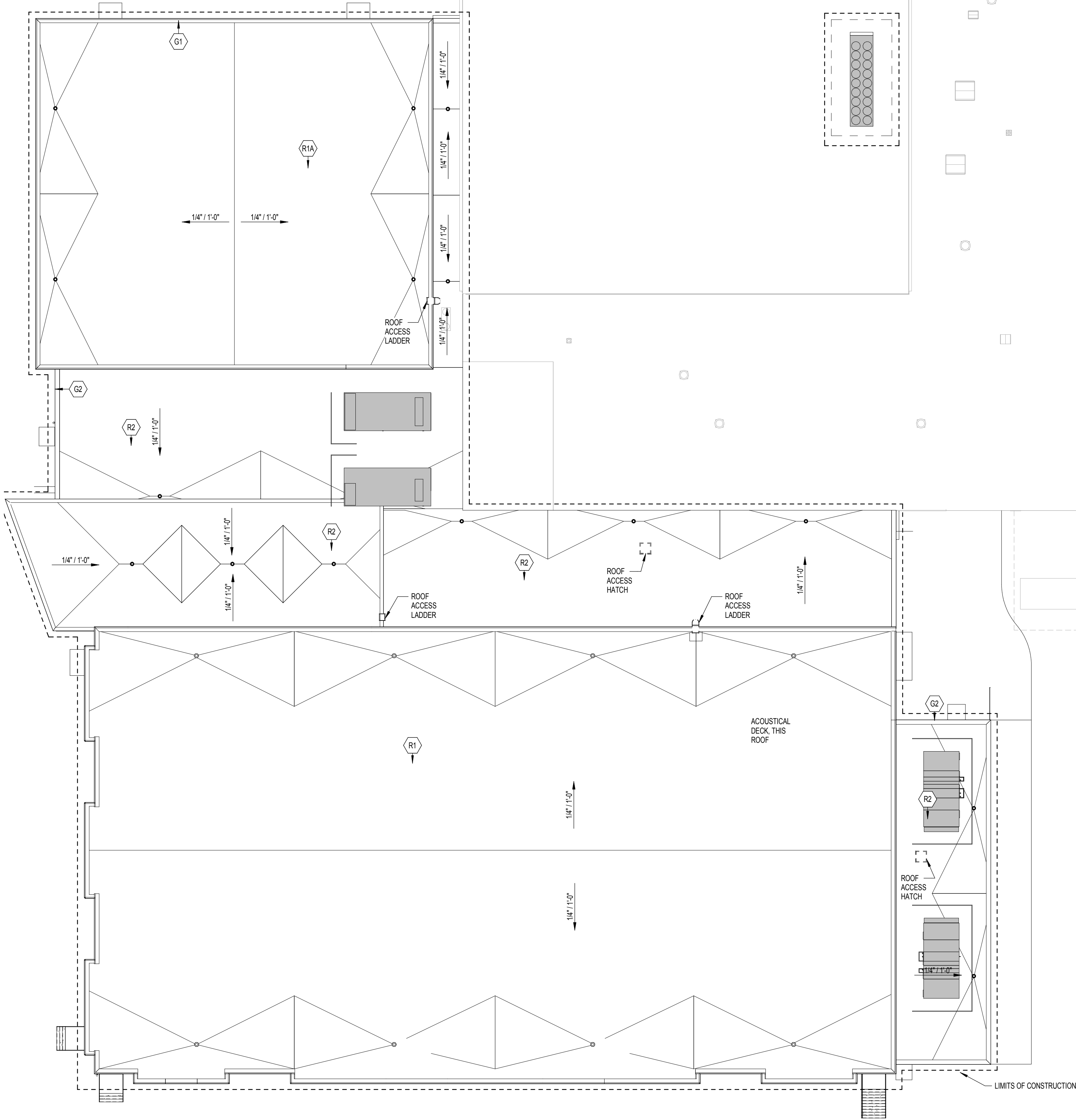
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- ROOF PLAN - SYMBOLS LEGEND**
- DIRECTION OF STRUCTURAL SLOPE TO DRAIN
 - SLOPE DIRECTION OF INSULATION TAPER SLOPE TO DRAIN. MINIMUM ALLOWABLE TAPER SLOPE SHALL BE 1/4" PER FOOT UNLESS NOTED OTHERWISE
 - TAPERED INSULATION VALLEY OR RIDGE
 - ROOF DRAIN
 - TAPERED INSULATION THICKNESS

- ROOF PLAN - GENERAL NOTES**
- A. COORDINATE AND VERIFY ALL ROOF OPENINGS AND PENETRATIONS WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL REQUIREMENTS.
- B. PROVIDE WATER TIGHT INTEGRITY AT ALL PENETRATIONS AND EQUIPMENT PER ROOFING MANUFACTURERS STANDARD DETAILS AND REQUIREMENTS FOR WARRANTY AND CURRENT NRCA STANDARDS.
- C. PROVIDE POSITIVE ROOF DRAINAGE INCLUDING TAPERED INSULATION LAYOUT. PROVIDE SADDLES AND CRICKETS AT ALL ROOF TOP EQUIPMENT AND PENETRATIONS TO ENSURE POSITIVE DRAINAGE.
- D. PROVIDE 24" WIDE CONCRETE PAVEMENT WALKWAY FROM ROOF SCUTTLE TO ALL MECHANICAL ROOFTOP UNITS AND ALL ROOF ACCESS LADDERS. PROVIDE PAVERS AROUND PERIMETER OF ROOF SCUTTLE AND HVAC ROOFTOP UNITS. PROVIDE PAVERS AT LANDINGS BELOW ROOF ACCESS LADDERS.

KEYNOTE LEGEND - CONSTRUCTION TYPES	
TAG	CONSTRUCTION DESCRIPTION
G1	METAL FASCIA SYSTEM: METAL GRAVEL STOP ON TREATED 2x WOOD BLOCKING
G2	METAL COPING SYSTEM: METAL COPING ON TREATED 2x WOOD BLOCKING
R1	SINGLE PLY ROOFING SYSTEM: LOOSELY LAID AND BALLASTED EPDM MEMBRANE WITH BALLAST PROTECTIVE MAT ON RIGID INSULATION (A/G-HR-30) ON VAPOR RETARDER ON 5/8" EXTERIOR SHEATHING ON GALVANIZED STEEL DECK ON STEEL JOIST
R1A	SINGLE PLY ROOFING SYSTEM: LOOSELY LAID AND BALLASTED EPDM MEMBRANE WITH BALLAST PROTECTIVE MAT ON RIGID INSULATION (A/G-HR-30) ON VAPOR RETARDER ON 5/8" EXTERIOR SHEATHING ON GALVANIZED STEEL DECK ON STEEL JOIST
R2	SINGLE PLY ROOFING SYSTEM: FULLY ADHERED EPDM MEMBRANE ON RIGID INSULATION (A/G-HR-30) ON VAPOR RETARDER ON 5/8" EXTERIOR SHEATHING ON STEEL DECK ON STRUCTURAL STEEL FRAMING/STEEL JOIST



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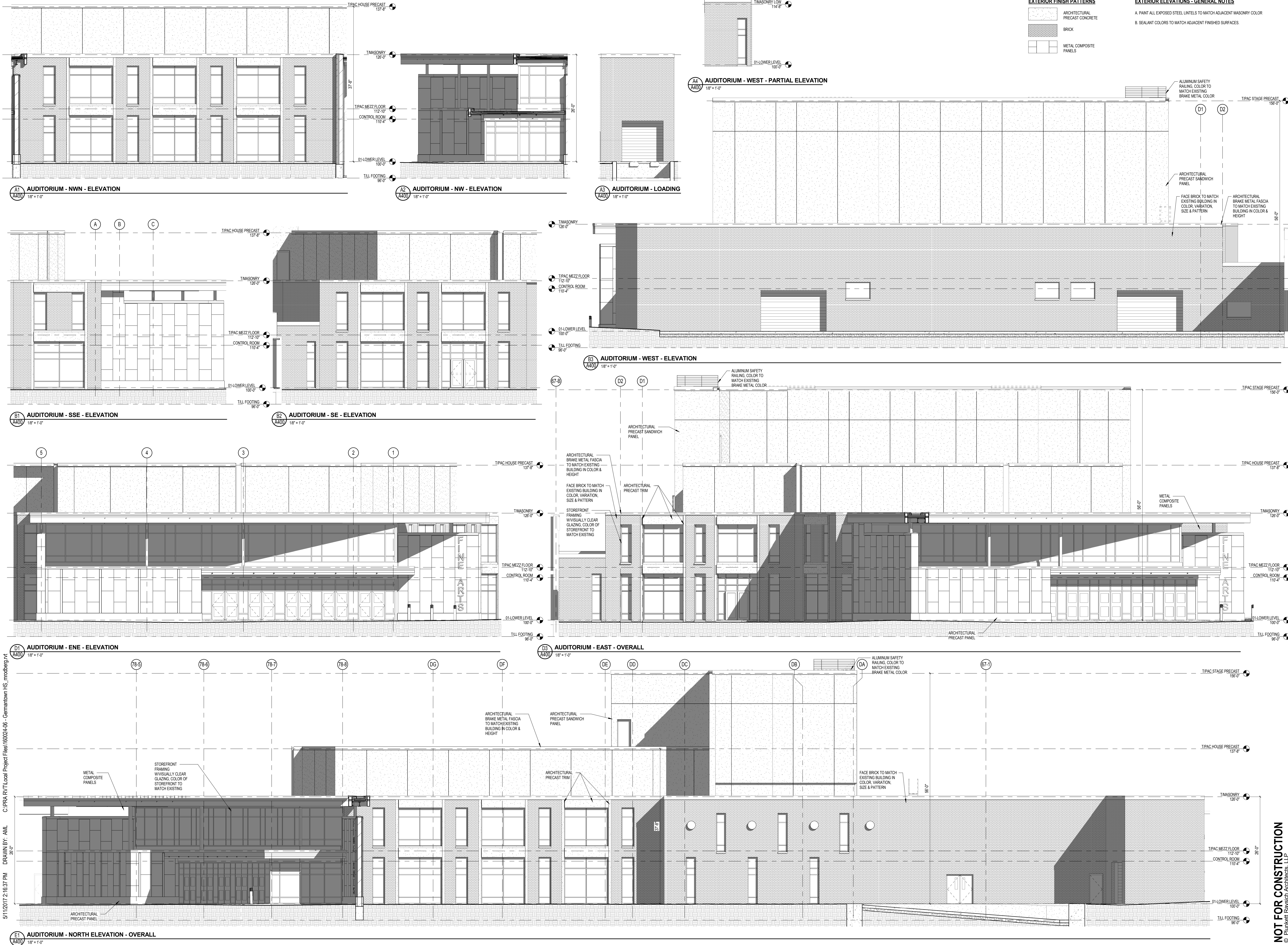
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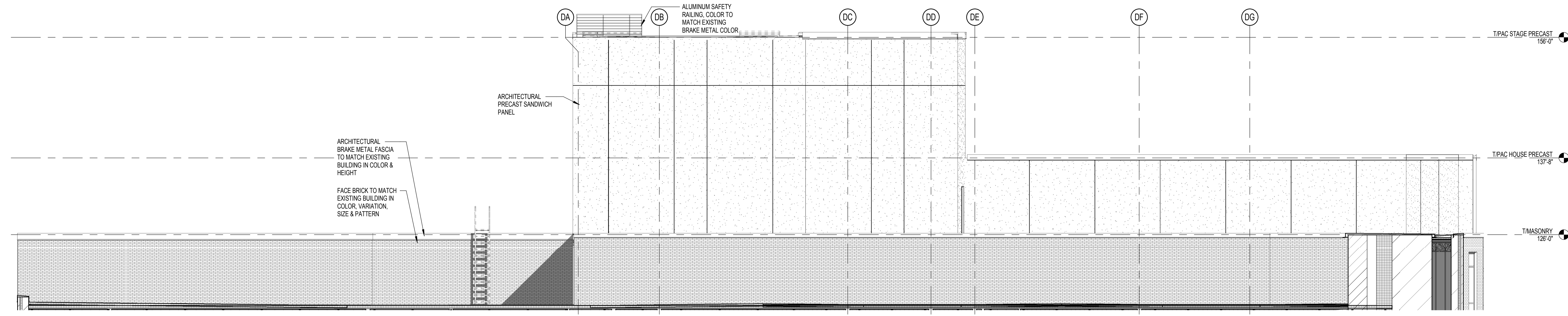
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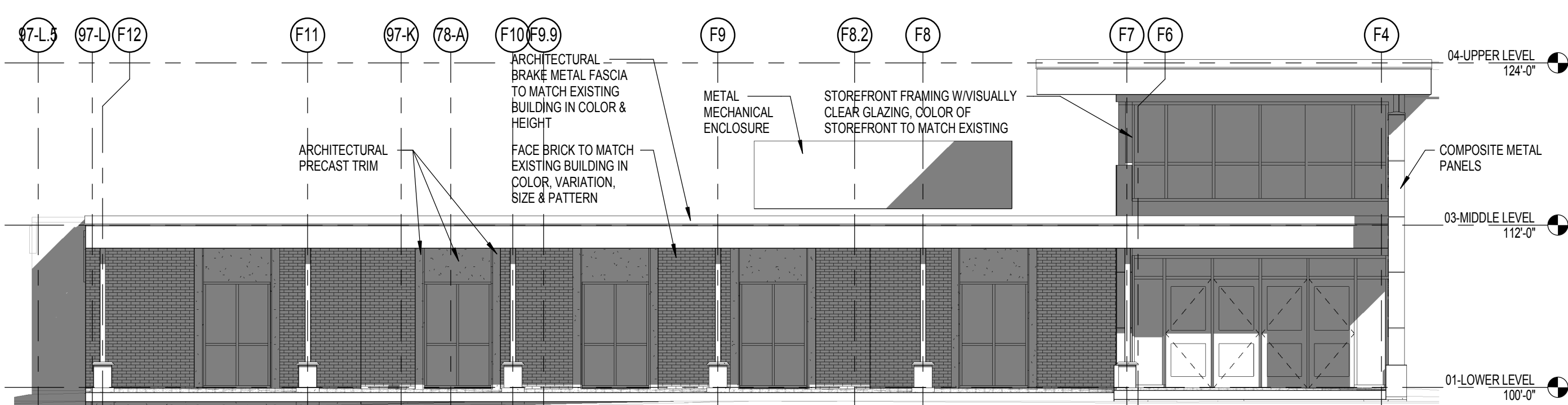
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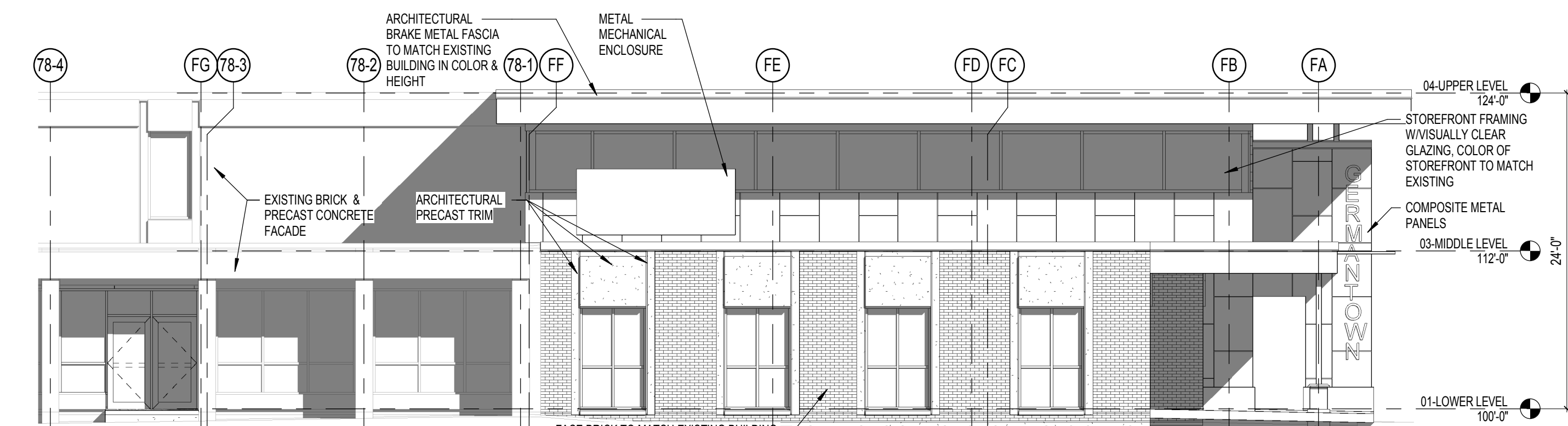
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160024-06
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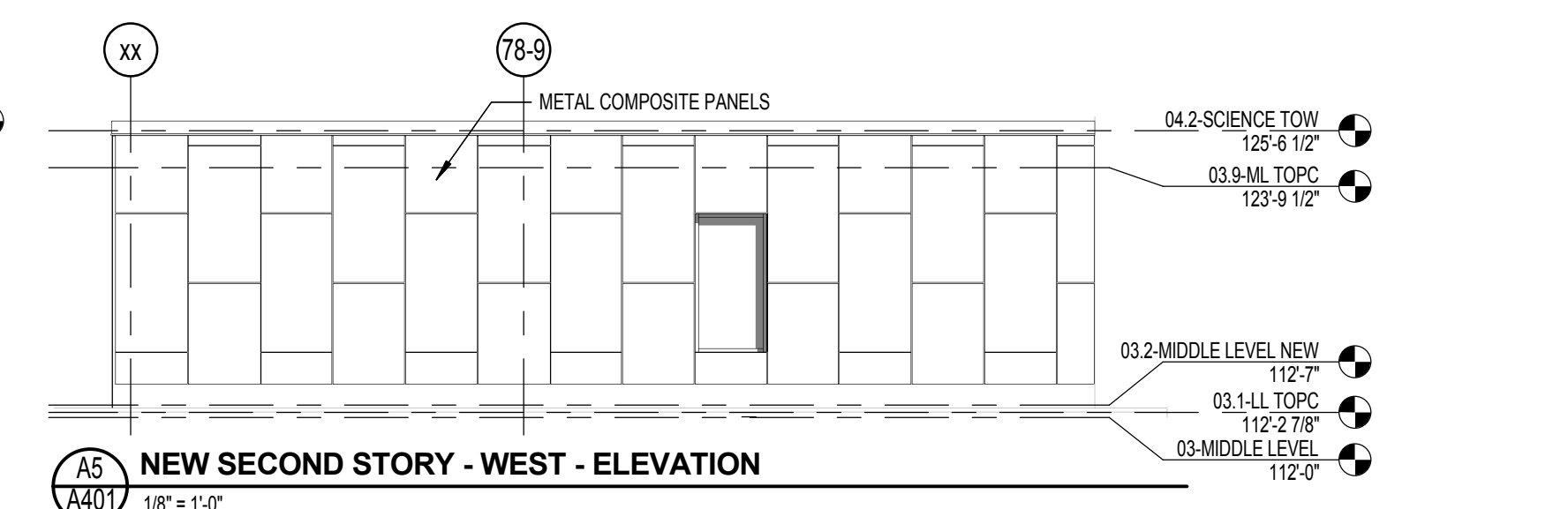
A1 AUDITORIUM - SOUTH - ELEVATION
1/8" = 1'-0"



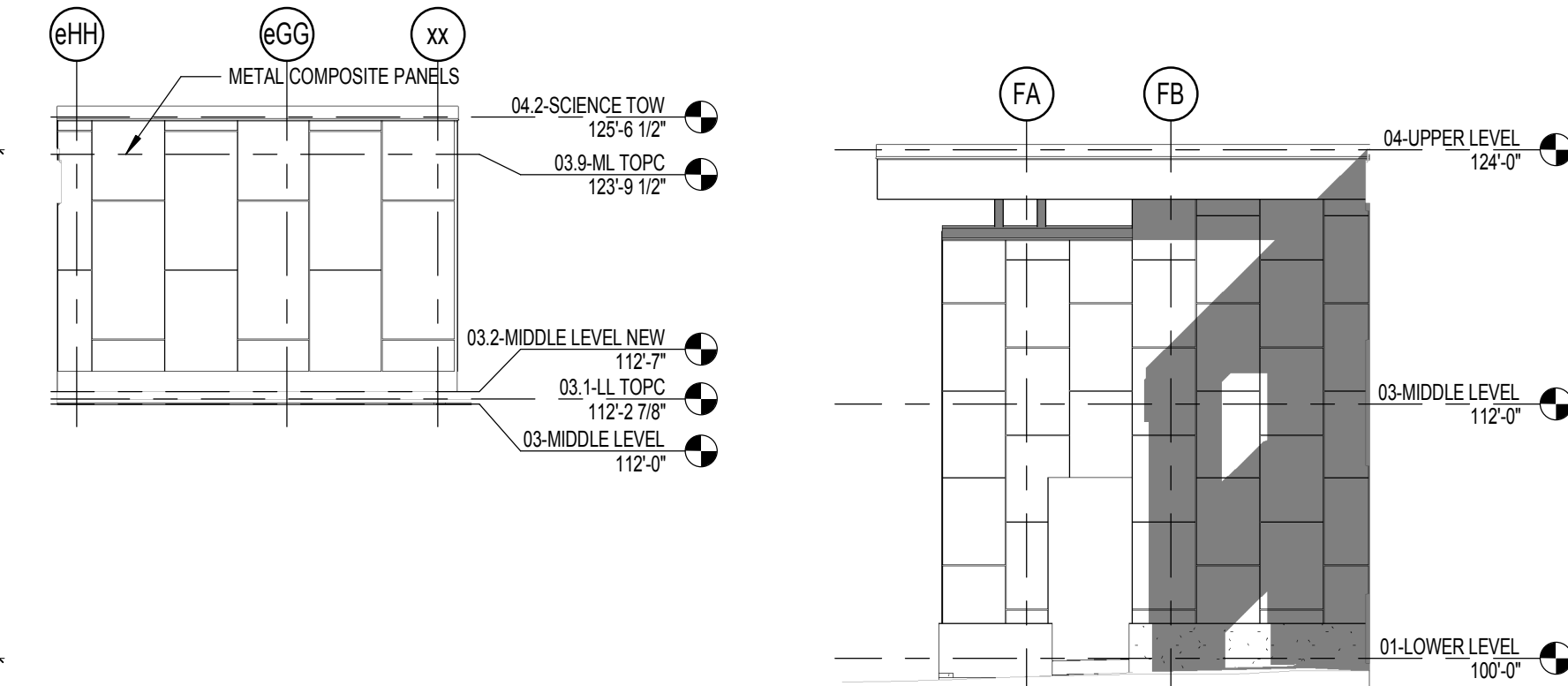
B1 ENTRY - EAST - ELEVATION
1/8" = 1'-0"



B3 ENTRY - SOUTH - ELEVATION
1/8" = 1'-0"

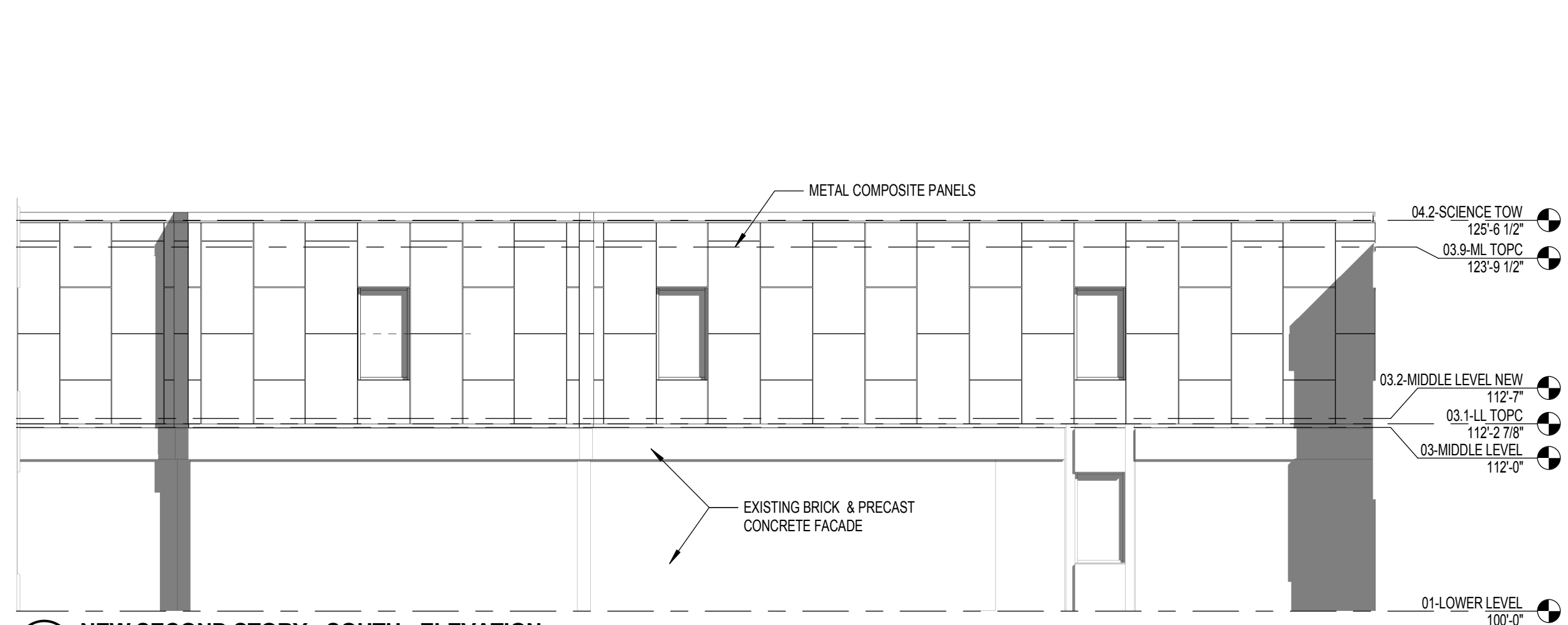


A5 NEW SECOND STORY - WEST - ELEVATION
1/8" = 1'-0"

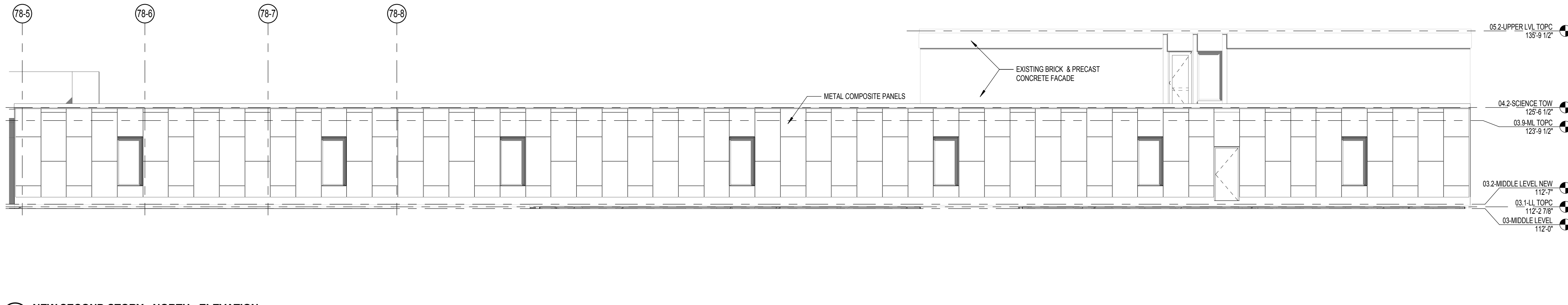


B5 NEW SECOND STORY - EAST - ELEVATION
1/8" = 1'-0"

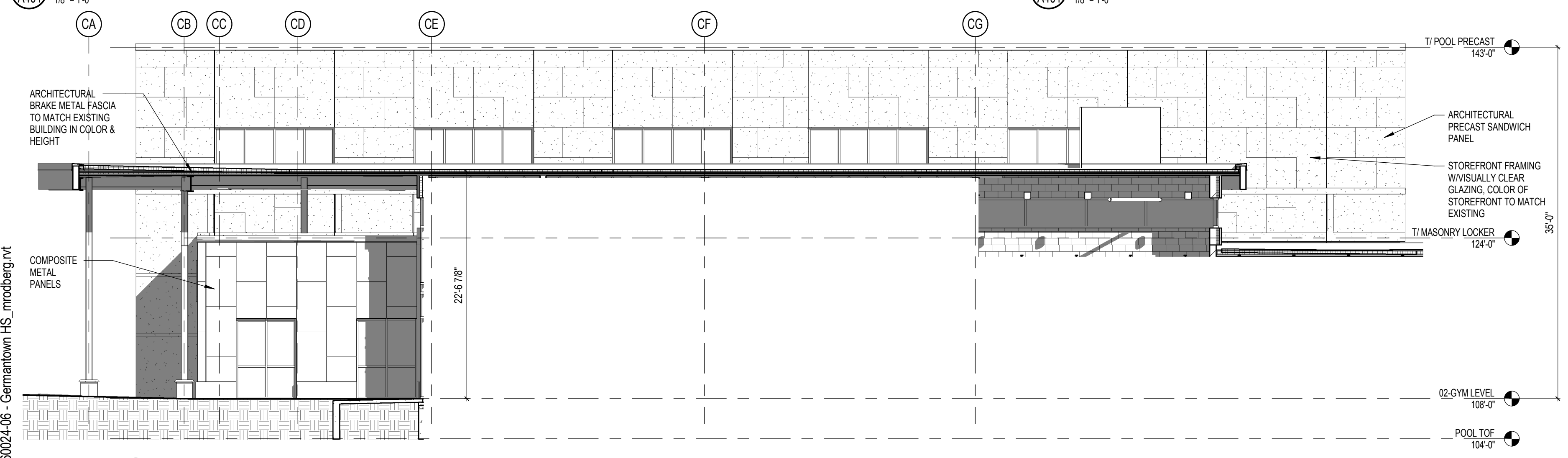
B6 ENTRY - NORTH - ELEVATION
1/8" = 1'-0"



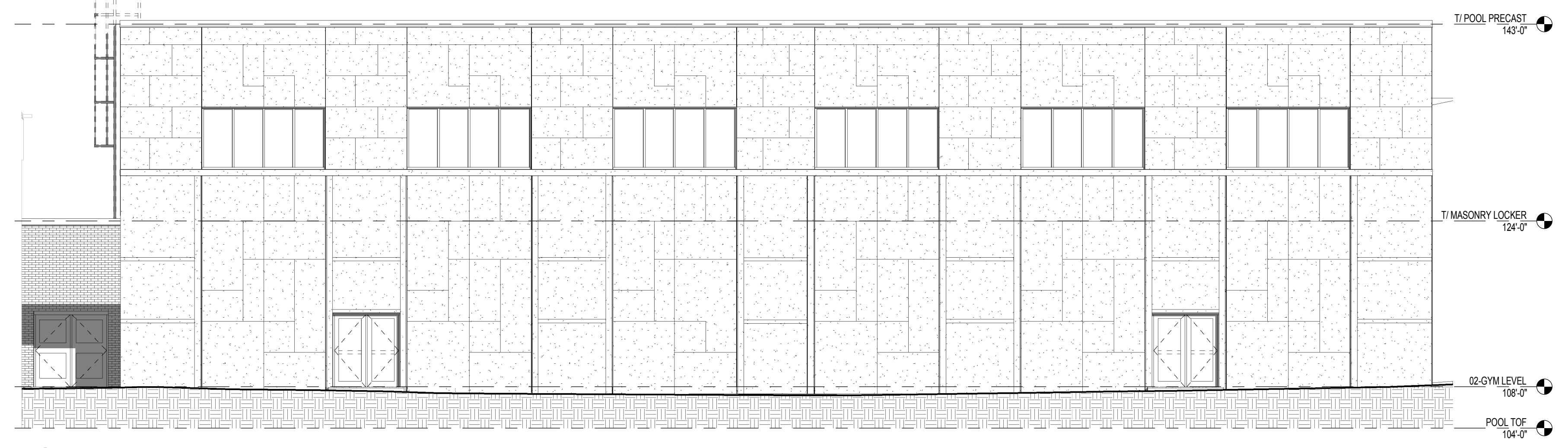
C1 NEW SECOND STORY - SOUTH - ELEVATION
1/8" = 1'-0"



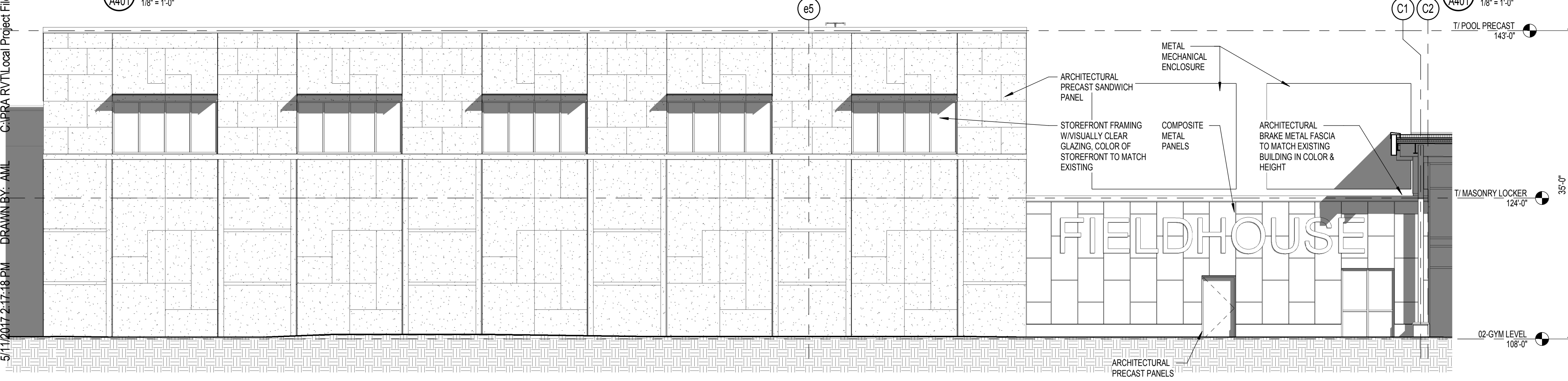
C3 NEW SECOND STORY - NORTH - ELEVATION
1/8" = 1'-0"



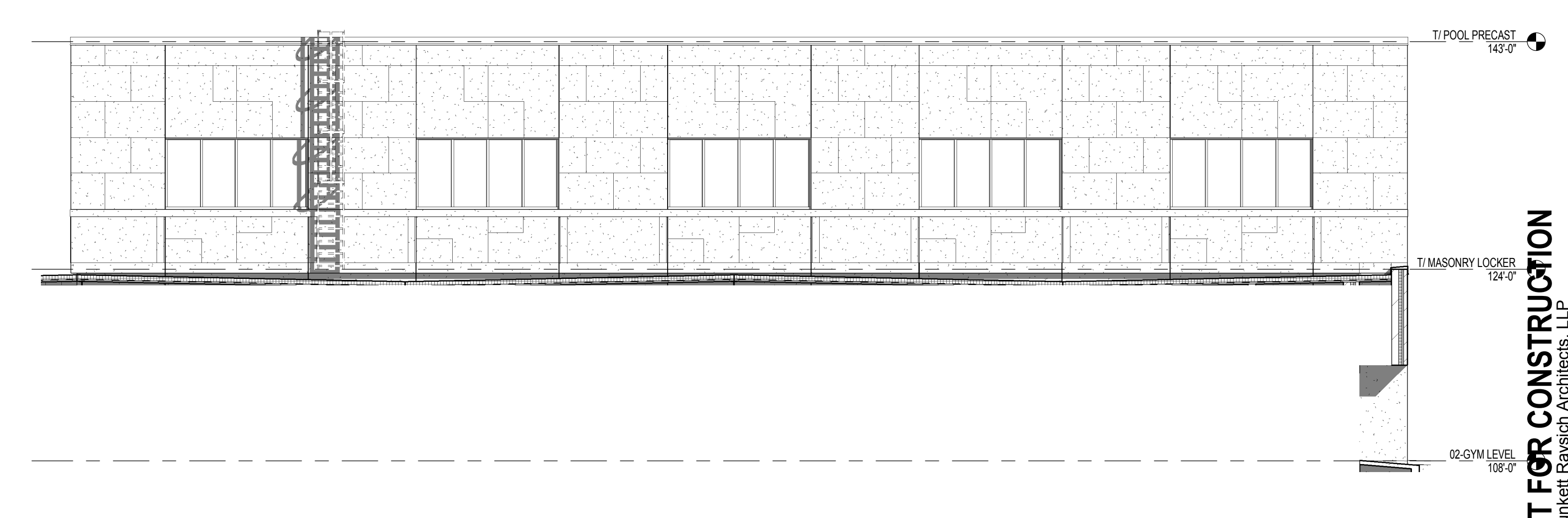
D1 POOL - SOUTH - ELEVATION
1/8" = 1'-0"



D4 POOL - NORTH - ELEVATION
1/8" = 1'-0"



E1 POOL - WEST - ELEVATION
1/8" = 1'-0"



E4 POOL - EAST - ELEVATION
1/8" = 1'-0"

EXTERIOR FINISH PATTERNS

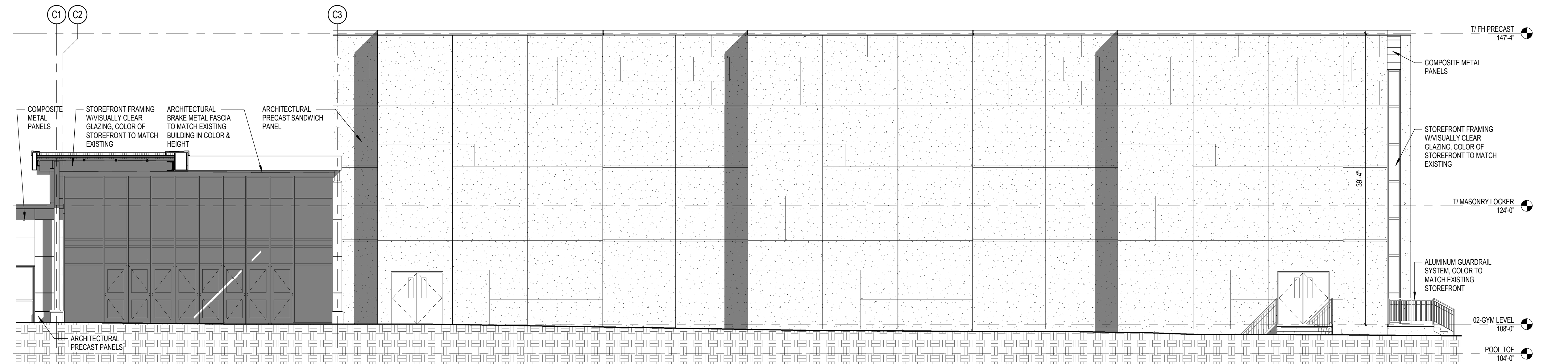
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[Pattern]	BRICK
[Pattern]	METAL COMPOSITE PANELS

EXTERIOR ELEVATIONS - GENERAL NOTES

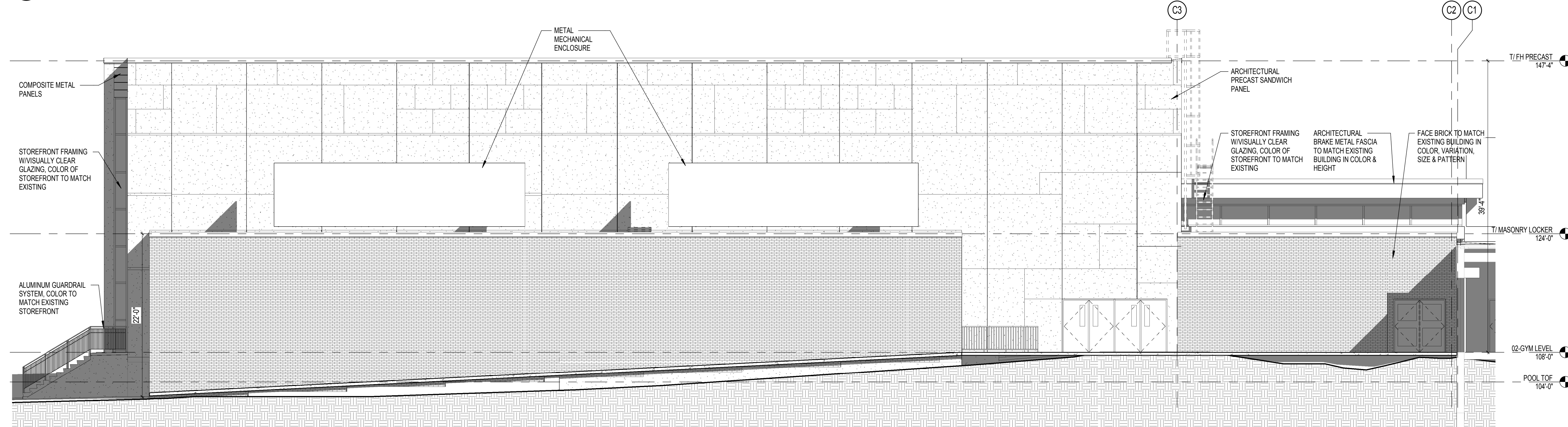
A. PAINT ALL EXPOSED STEEL LINTELS TO MATCH ADJACENT MASONRY COLOR

B. SEALANT COLORS TO MATCH ADJACENT FINISHED SURFACES.

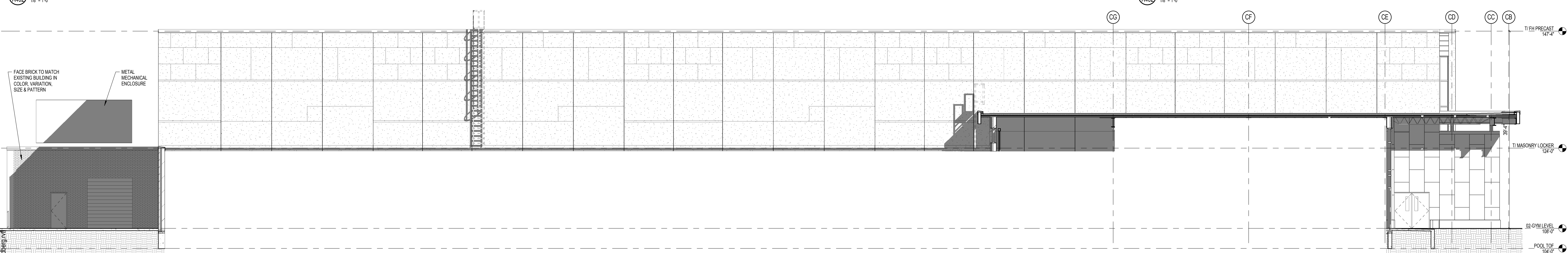
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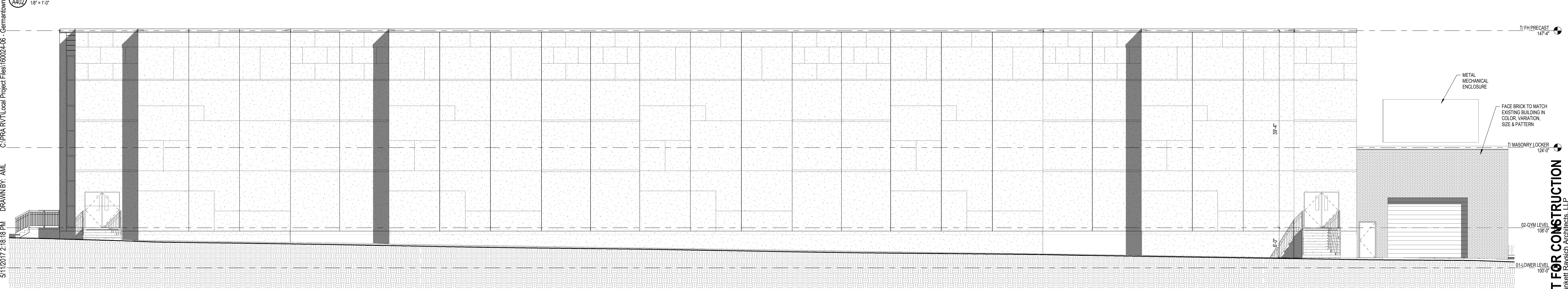
A1 FIELDHOUSE - WEST - ELEVATION
1/8" = 1'-0"



B1 FIELDHOUSE - EAST - ELEVATION
1/8" = 1'-0"



D1 FIELDHOUSE - NORTH - ELEVATION
1/8" = 1'-0"



E1 FIELDHOUSE - SOUTH - ELEVATION
1/8" = 1'-0"

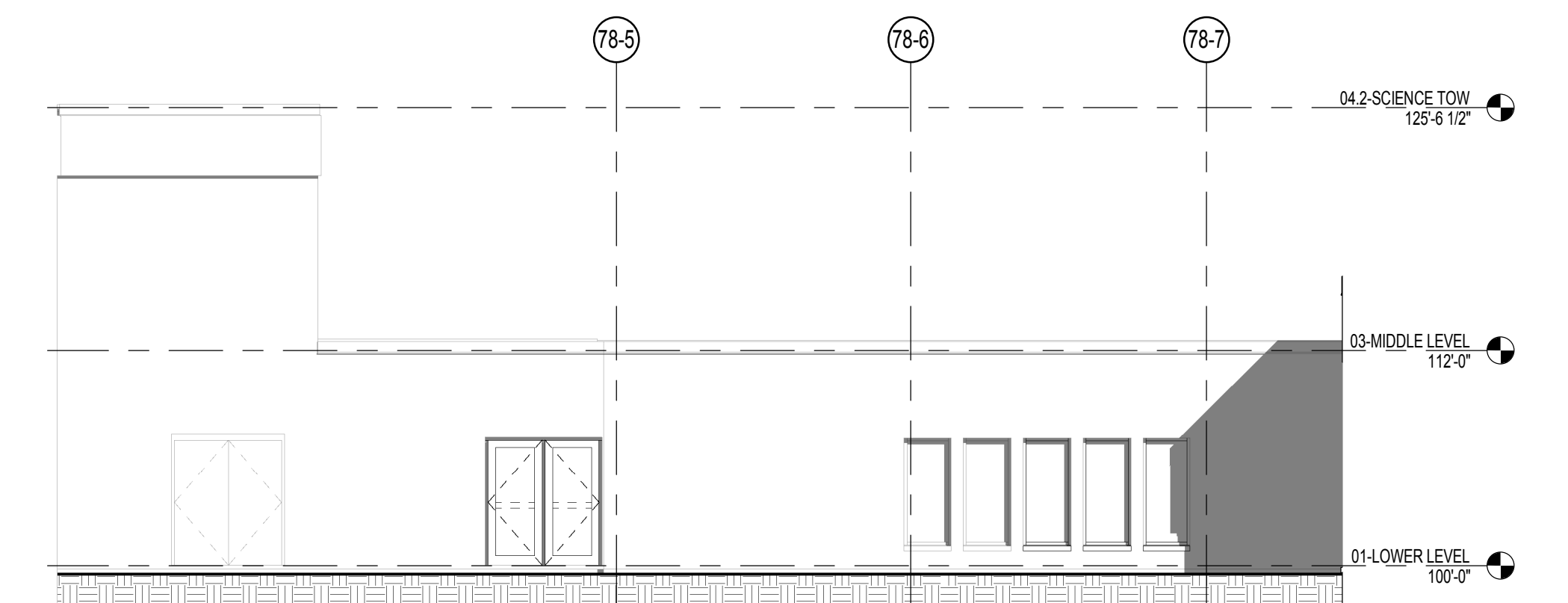
EXTERIOR FINISH PATTERNS

[Pattern]	ARCHITECTURAL PRECAST CONCRETE
[Pattern]	BRICK
[Pattern]	METAL COMPOSITE PANELS

EXTERIOR ELEVATIONS - GENERAL NOTES

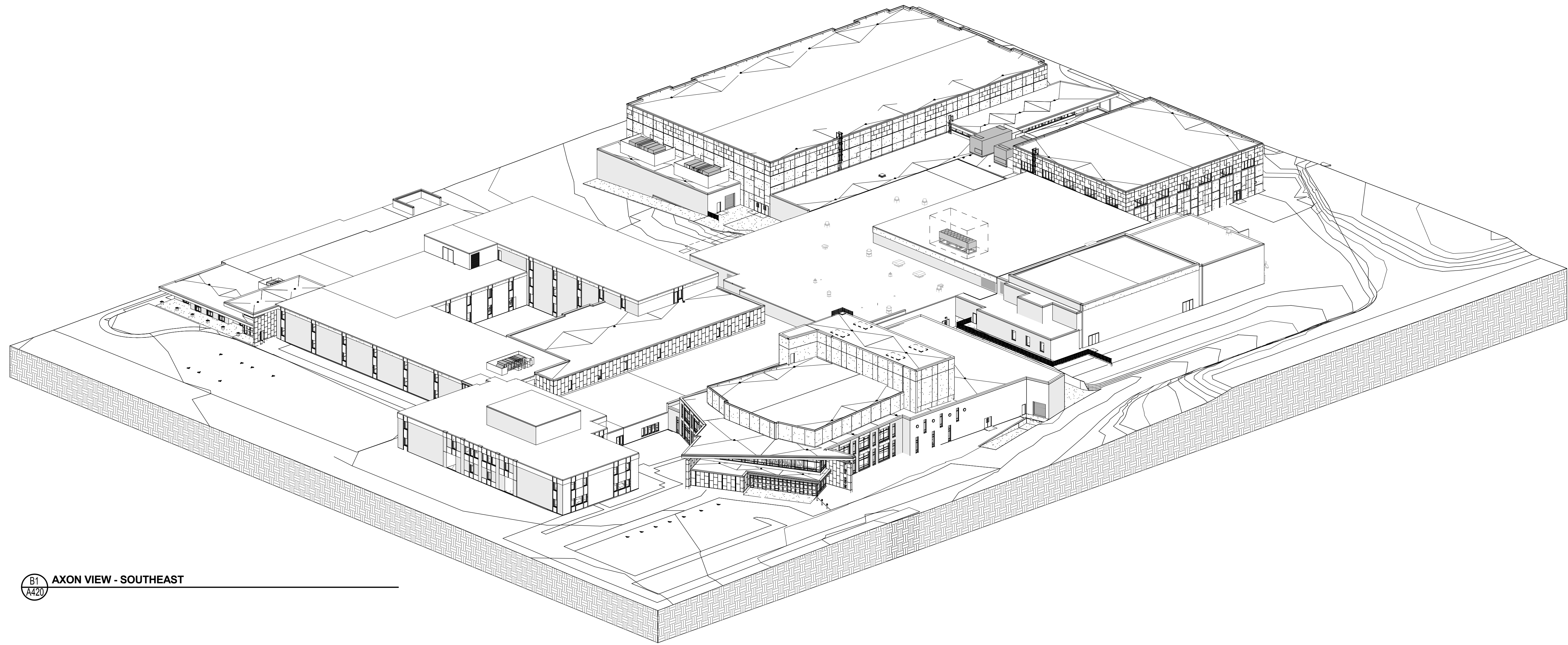
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B. SEALANT COLORS TO MATCH ADJACENT FINISHED SURFACES



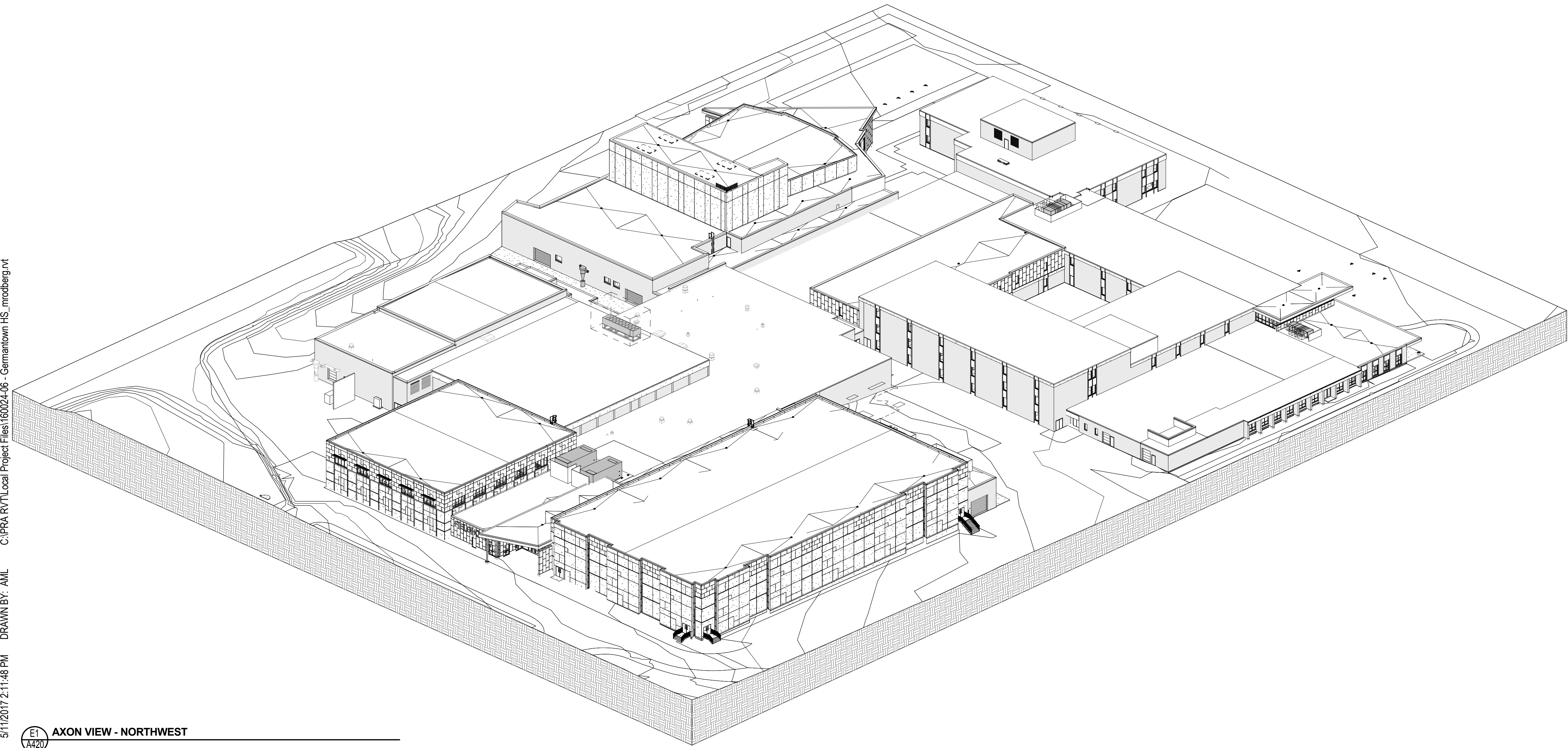
B5 IMC - NORTH - ELEVATION
1/8" = 1'-0"

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B1
A420

AXON VIEW - SOUTHEAST



E1
A420

AXON VIEW - NORTHWEST



A5
A420

GROUND LEVEL VIEW - SOUTHEAST



B5
A420

GROUND LEVEL VIEW - SOUTHWEST



C5
A420

GROUND LEVEL VIEW - NORTHWEST

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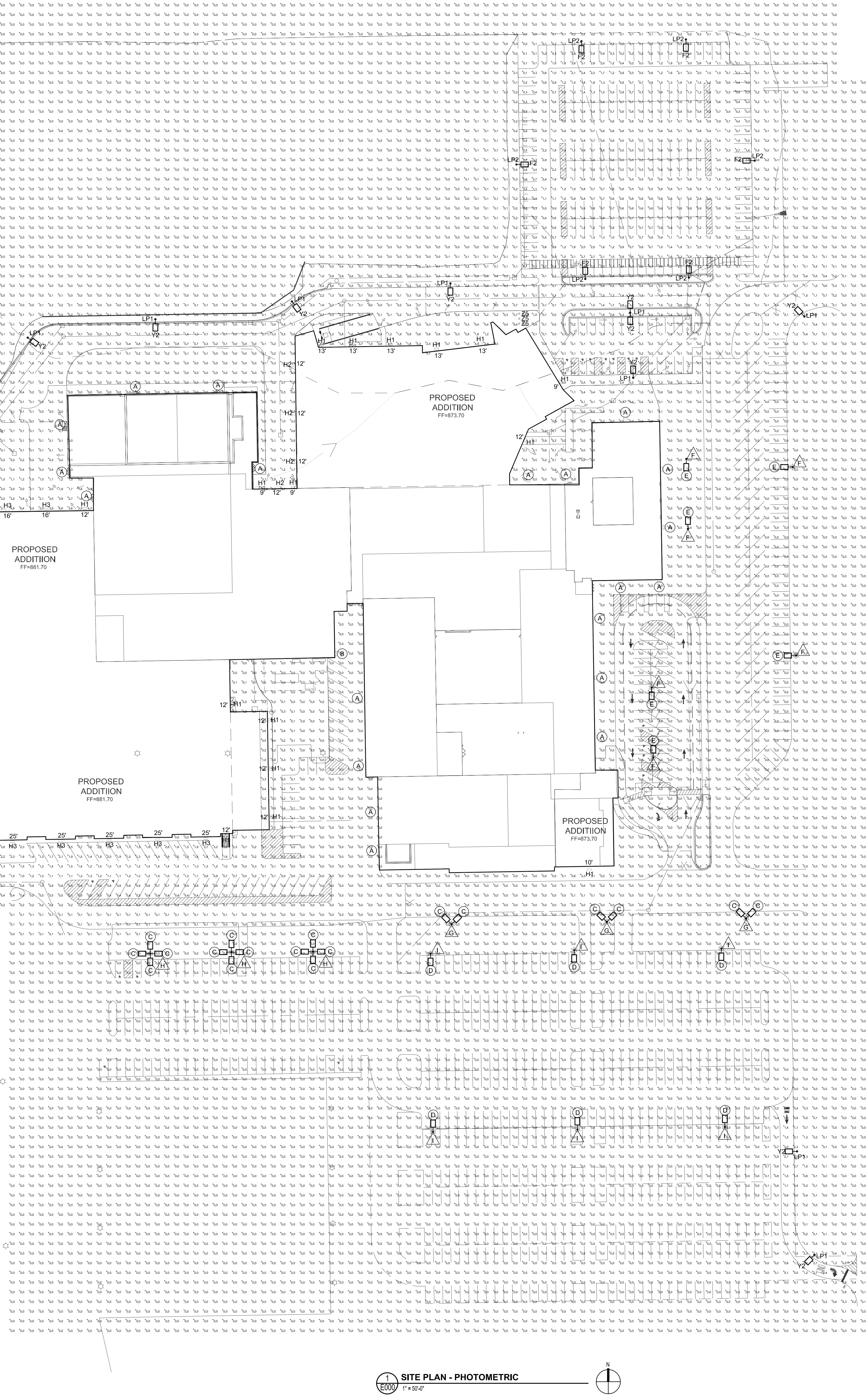
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SITE FIXTURE SCHEDULE - NEW - GERMANTOWN HIGH SCHOOL							
TYPE	DESCRIPTION	LAMP TYPE	LUMENS	WATTS	MANUFACTURER	CATALOG NUMBER	NOTE
F1	LARGE LED FLOODLIGHT - POLE TOP MOUNTED - BRONZE	5000K LED	13,200	150	ECONOLIGHT	E-HLBF15C2Z	
H1	SMALL LED WALL PACK - FULL CUTOFF - BRONZE	5000K LED	2100	18	LUMARK	XTOR2B	
H2	SMALL LED WALL PACK - FULL CUTOFF - BRONZE	5000K LED	2750	26	LUMARK	XTOR3B	
H3	MEDIUM LED WALL PACK - REFRACTIVE LENS - BRONZE	5000K LED	6200	58	LUMARK	XTOR6BRL	
Y2	LED COBRA AREA FIXTURE - TYPE II DISTRIBUTION - BRONZE	5000K LED	5000	45	LEOTEK	GC1-40F-MV-CW-2-DB-350-SPB	
Z5	42" LED BOLLARD - TYPE V MEDIUM DISTRIBUTION - BRONZE	5000K LED	1700	22	CREE	PWY-EDG-5M-P4-02-E-27-B2-350	
LP1	15'-0" STRAIGHT SQUARE STEEL 4" POLE - BRONZE	-	-	-	CREE	PS4S15C-BZ	1
LP2	22'-0" STRAIGHT SQUARE STEEL 4" POLE - BRONZE	-	-	-	CREE	PS4S22C-BZ	2
PLAN NOTES: 1. PROVIDE 24" DIAMETER 24" HIGH CONCRETE BASE. 2. PROVIDE 24" DIAMETER 30" HIGH CONCRETE BASE.							

SITE FIXTURE SCHEDULE - EXISTING - GERMANTOWN HIGH SCHOOL					
TYPE	DESCRIPTION	LAMP TYPE	LUMENS	WATTS	MANUFACTURER
(A)	EXISTING SMALL LED WALL PACK	5000K LED	1000	19	LUMARK CROSSTOUR
(B)	EXISTING MEDIUM LED WALL PACK	5000K LED	4500	50	LUMARK CROSSTOUR MAXX
(C)	EXISTING SMALL LED FLOODLIGHT - POLE TOP MOUNTED	5000K LED	7200	76	ECONOLIGHT E-HL7 SERIES
(D)	EXISTING LARGE LED FLOODLIGHT - POLE TOP MOUNTED	5000K LED	13,200	150	ECONOLIGHT E-HL6 SERIES
(E)	EXISTING LED COBRA HEAD - POLE MOUNTED	5000K LED	5100	48	LEOTEK GREEN COBRA LED CG1
(F)	EXISTING 15'-0" STRAIGHT SQUARE STEEL 4" POLE - 24" HIGH CONCRETE BASE	-	-	-	RUUD
(G)	EXISTING 20'-0" STRAIGHT SQUARE STEEL 4" POLE - 24" HIGH CONCRETE BASE	-	-	-	RUUD
(H)	EXISTING 30'-0" STRAIGHT SQUARE STEEL 6" POLE - 30" HIGH CONCRETE BASE	-	-	-	RUUD
(I)	EXISTING 40'-0" STRAIGHT SQUARE STEEL 6" POLE - 30" HIGH CONCRETE BASE	-	-	-	RUUD



E-HL8 Series

Premium LED Floodlight - Large Replaces 250W / 320W PSMH



Make an Impression for less!
e-conlight's Premium LED Floodlight - Large is nearly half the cost of our High Output LED Floodlights, and is sure to impress with light outputs up to 12,200 lumens and multiple beam spreads.

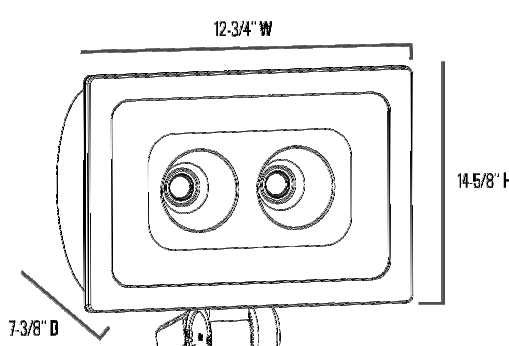
Efficient
• Uses 81% less energy than comparable PSMH fixtures
• Enjoy up to 12% more light

Recommended Use
• Building facades
• Security
• Uplighting for signs & displays



e-conlight® Making LED easy.
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E-HL8 Series



Series Overview

DIMENSIONS	PRODUCT WEIGHT	MOUNTING HEIGHT	SPACING
13.38" D x 12.34" W x 4.58" H	13.0 lbs.	16 to 25 feet	---

Future Specifications

HOUSING	Low capex, die cast aluminum housing and lens frame. Die brass polymer powder coat finish.
LENS ASSEMBLY	Temper glass lens thermal shock and impact resistant. No scratches or cracks.
MOUNTING	Includes 2" adjustable tilt.

Electrical Specifications

OPERATING MINIMUM	LUMEN OUTPUT (LM-79-02)	POWER FACTOR	TOTAL HARMONIC DISTORTION	THROWABLE
40°C (104°F)	Estimated 10,000 lumens	> 0.9	< 20%	No
INPUT VOLTAGE	DCV	200V	240V	277V
Current Draw (amps)	1.30A	0.80A	0.50A	0.50A

Warranty & Certifications

WARRANTY	UL LISTED	DMC	ENERGY STAR
5 Year Limited	Yes	Yes	Yes

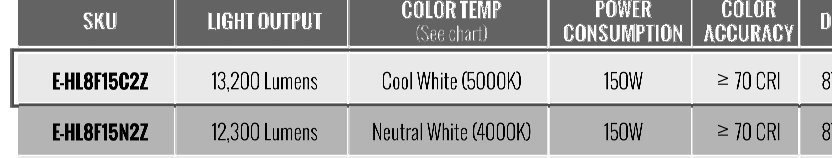
Output Specifications

SKU	LIGHT OUTPUT	COLOR TEMP. (K)	POWER CONSUMPTION	COLOR RENDERING INDEX	DESTRUCTION	REPLACES
EHL816GZ	12,200 Lumens	Cool White 5000K	150W	> 90 CRI	87 Foot (0.44)	320W PSMH
EHL816GZ	12,200 Lumens	Neutral White 4000K	150W	> 90 CRI	87 Foot (0.44)	320W PSMH
EHL816GZ	12,200 Lumens	Cool White 5000K	150W	> 90 CRI	44 Foot (0.44)	250W PSMH
EHL816GZ	10,800 Lumens	Neutral White 4000K	150W	> 90 CRI	44 Foot (0.44)	250W PSMH

Data is for product information. Information is for informational purposes only.

Revision Date: 10/18/16

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E-HL8 Series

Accessories



Protocol: B20V, B20V/200V/240V/277V

SKU: EHL816GZ

USE: Product is for indoor use.

Protocol: B20V, B20V/200V/240V/277V

SKU: EHL816GZ

USE: Product is for indoor use.

Protocol: B20V, B20V/200V/240V/277V

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SKU: EHL816GZ

USE: Product is for indoor use.

Lumark

DESCRIPTION

The patented Lumark Crossover™ LED Wall Pack Series of luminaires provides an architectural style with superior, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crossover impervious to contaminants. The Crossover wall luminaire is ideal for wall/facade, inverted mount for flood/spotlight illumination, post/hoist, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, entrances and loading docks etc.

CONSTRUCTION

Slim, low-profile LED design with rugged one-piece, die-cast aluminum housing removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12V, 18V and 20V. The medium housing is available in the 20V model. Painted secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three half-inch, NPT threaded conduit entry points. The universal back box supports both the small and medium forms and mounts to standard 3/12" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the luminaire. One-piece stainless steel door and back box. Minimum 1/2" deep pole for site lighting application. Not recommended for car wash applications.

Optical

Slitless sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets EISA requirements for full output performance. Available in seven lumen packages: 5000K and 4000K CCT.

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 12V, 18V, 20V and 24V series operate in -40°C to 40°C (-40°F to 104°F). High ambient 20°C models available. Crossover luminaire maintains greater than 80% of initial light output after 72,000 hours of operation. Three half-inch NPT threaded conduit entry points allow for easy site lighting application. Not recommended for car wash applications.

Finish

Crossover is protected with a Super durable TIG carbon bronze or sunburst white polyester powder coat paint. Super durable TIG powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

Five year warranty.

APPLICATIONS

WALL / SURFACE
POST / BOLLARD
LOW LEVEL
FLOODLIGHT
INVERTED
SITE LIGHTING

STOCK ORDERING INFORMATION

12V Series	18V Series	20V Series	24V Series
XTORB-12V, 5000K, Carbon Bronze	XTORB-18V, 5000K, Carbon Bronze	XTORB-20V, 5000K, Carbon Bronze	XTORB-24V, 5000K, Carbon Bronze
XTORB-W-12V, 5000K, Sunburst White	XTORB-W-18V, 5000K, Sunburst White	XTORB-W-20V, 5000K, Sunburst White	XTORB-W-24V, 5000K, Sunburst White
XTORB-PCH-12V, 5000K, 120V FC, Carbon Bronze	XTORB-PCH-18V, 5000K, 120V FC, Carbon Bronze	XTORB-PCH-20V, 5000K, 120V FC, Carbon Bronze	XTORB-PCH-24V, 5000K, 120V FC, Carbon Bronze

TECHNICAL DATA

UL94V-0, Vero Certified Lead, Low Lead Compliant, ADA Compliant, IP68 Ingress Protection Rated, T85°C Compliant, External Supply Wiring 90°C Minimum

SHIPPING DATA

Approximate Net Weight: 12.5 lbs. (5.7 kg)

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