

# Michigan State University

## Central Services - Demolition

Red Cedar Road  
East Lansing, Michigan

Issued for Bids March 28, 2025  
Project Number CP24092

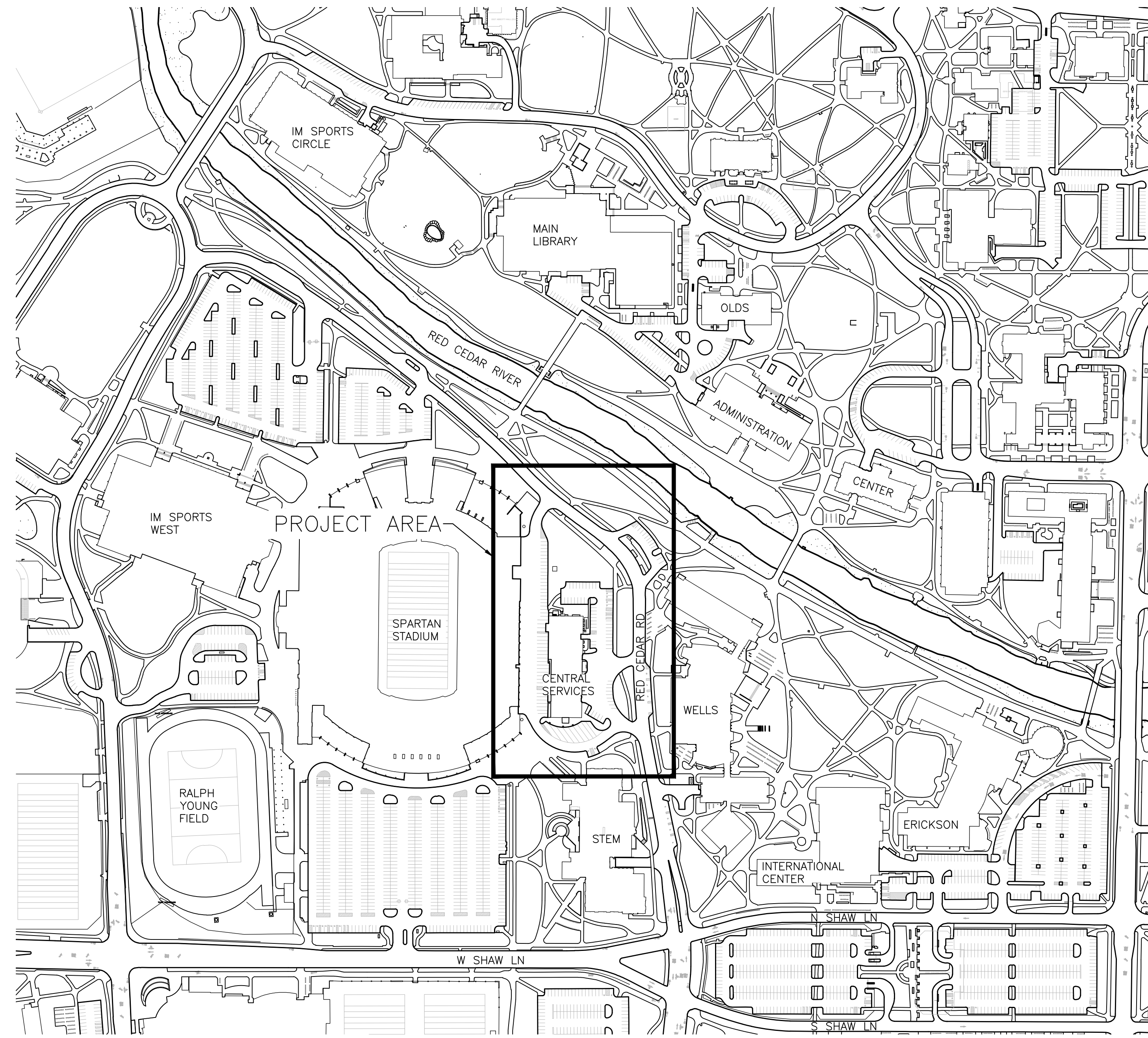


fishbeck.com 5913 Executive Drive  
800.456.3824 Lansing, Michigan

SHEET INDEX

- C1 COVER
- C2 EXISTING CONDITIONS (BY OTHERS)
- C3 SESC PLAN
- C4 SESC NOTES & DETAILS
- C5 SITE DEMOLITION PLAN
- C6 NOT ISSUED
- C7 UTILITY DEMO PLAN
- C8 STEAM DEMO PLAN
- C9 TEMPORARY SITE LAYOUT PLAN
- C10 FINAL SITE LAYOUT PLAN
- C11 SITE GRADING PLAN
- C12 SITE DETAILS
- C13 FLOOR PLANS

LOCATION MAP



fishbeck  
Engineers | Architects | Scientists | Constructors  
 Proj. No.: 241880  
 Desg. By: HBOWERS  
 Designer: TOSMAN  
 Reviewer:  
 Manager: TOSMAN

Infrastructure  
 Planning and Facilities  
 MICHIGAN STATE  
 UNIVERSITY

CENTRAL SERVICES - DEMOLITION  
 CP24092

MSU PROJ. NO.  
CP24092

PRJ. MGR. VANZEE  
 ARCH. KASDORF  
 MECH. HOPPER  
 ELEC. BEACH  
 CIVIL GARDNER  
 L.A. WILBER  
 INT. DES.  
 CONST. REP.  
 APPR.  
 DATE  
 SCALE AS NOTED  
 ISSUED  
 BIDS 3/28/2025

COVER  
**C1**  
 1 OF 12

PLOT: INF2\_240924-241880-CP24092-1-LAYOUT\_C1 DATE: 3/26/2025 TIME: 5:50:05 AM USER: TOSMAN



NOTES

- 1. SURVEY PERFORMED BY NEDERVELD DECEMBER 2024.

PARTIAL DESCRIPTION

Part of the Southwest 1/4 of Section 18, Town 4 North, Range 1 West, City of East Lansing, Ingham County, Michigan

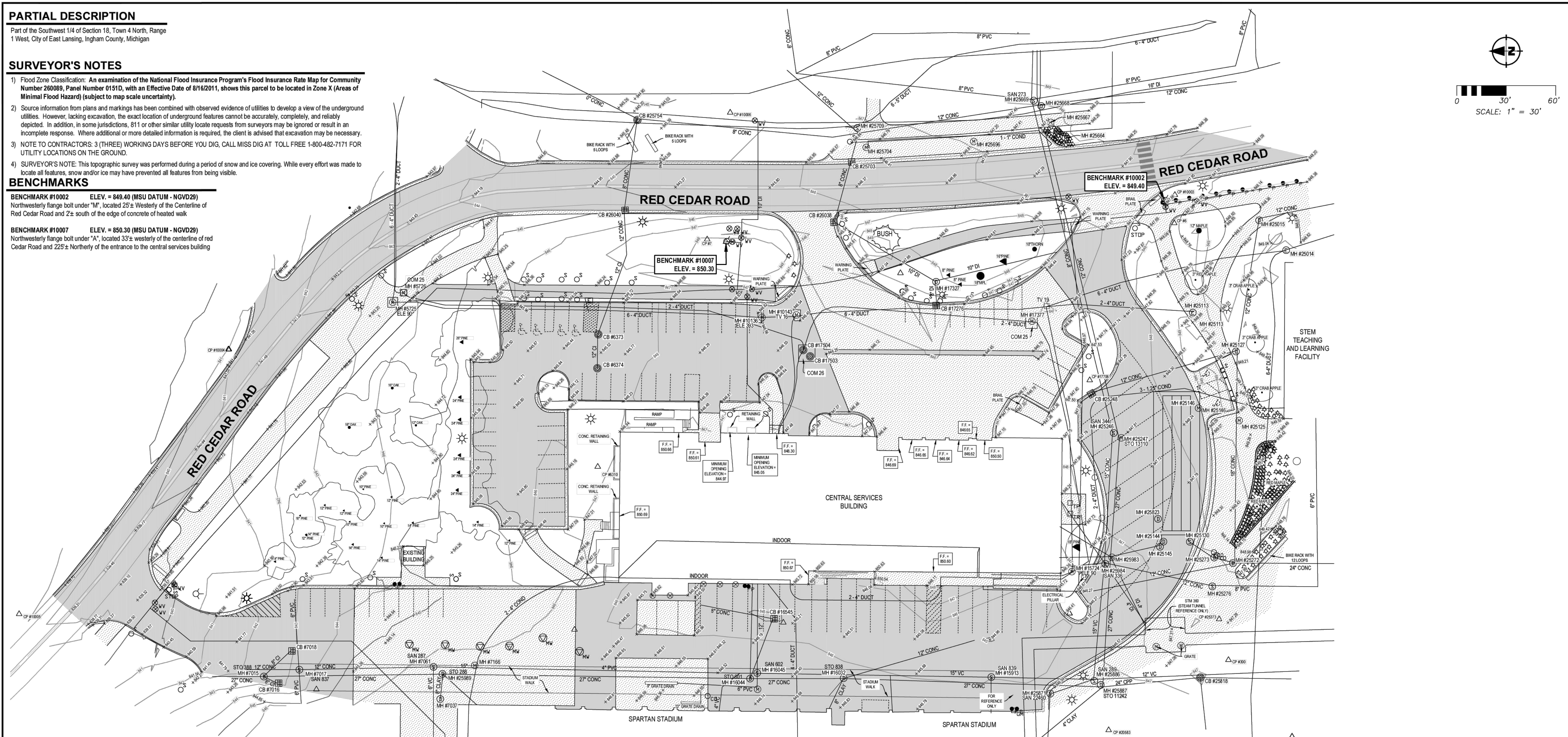
SURVEYOR'S NOTES

- 1) Flood Zone Classification: An examination of the National Flood Insurance Program's Flood Insurance Rate Map for Community Number 260899, Panel Number 0151D, with an Effective Date of 8/18/2011, shows this parcel to be located in Zone X (Areas of Minimal Flood Hazard) (subject to map scale uncertainty).
- 2) Source information from plans and markings has been combined with observed evidence of utilities to develop a view of the underground utilities. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdictions, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response. Where additional or more detailed information is required, the client is advised that excavation may be necessary.
- 3) NOTE TO CONTRACTORS: 3 (THREE) WORKING DAYS BEFORE YOU DIG, CALL MISS DIG AT TOLL FREE 1-800-482-7171 FOR UTILITY LOCATIONS ON THE GROUND.
- 4) SURVEYOR'S NOTE: This topographic survey was performed during a period of snow and ice covering. While every effort was made to locate all features, snow and/or ice may have prevented all features from being visible.

BENCHMARKS

**BENCHMARK #10002** ELEV. = 849.40 (MSU DATUM - NGVD29)  
 Northwestern flange bolt under "M", located 25± West of the Centerline of Red Cedar Road and 2± south of the edge of concrete of heated walk

**BENCHMARK #10007** ELEV. = 850.30 (MSU DATUM - NGVD29)  
 Northwestern flange bolt under "A", located 33± west of the centerline of Red Cedar Road and 22± North of the entrance to the central services building



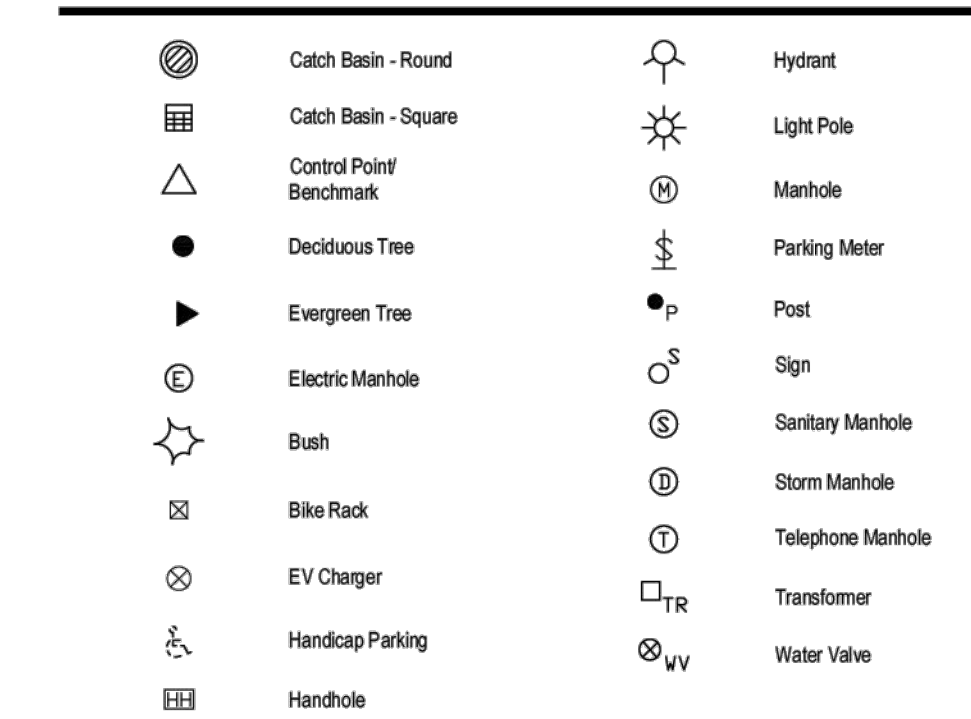
#	Structure Type	DIA.	Rim Elevation	Generic Notes	Start/Type/Direction	Invert Elevation
5725 (ELE 75)	Electric Manhole	-	843.46	6\"/>		

#	Structure Type	DIA.	Rim Elevation	Generic Notes	Start/Type/Direction	Invert Elevation
16045 (SAN 462)	Sanitary Sewer Manhole	4	846.19	-	12\"/>	

#	Structure Type	DIA.	Rim Elevation	Generic Notes	Start/Type/Direction	Invert Elevation
25272	Storm Water Manhole	-	848.09	-	24\"/>	

#	Structure Type	DIA.	Rim Elevation	Generic Notes	Start/Type/Direction	Invert Elevation
25983	Miscellaneous Manhole	-	846.70	BUS PARKED OVER MANHOLE	-	-

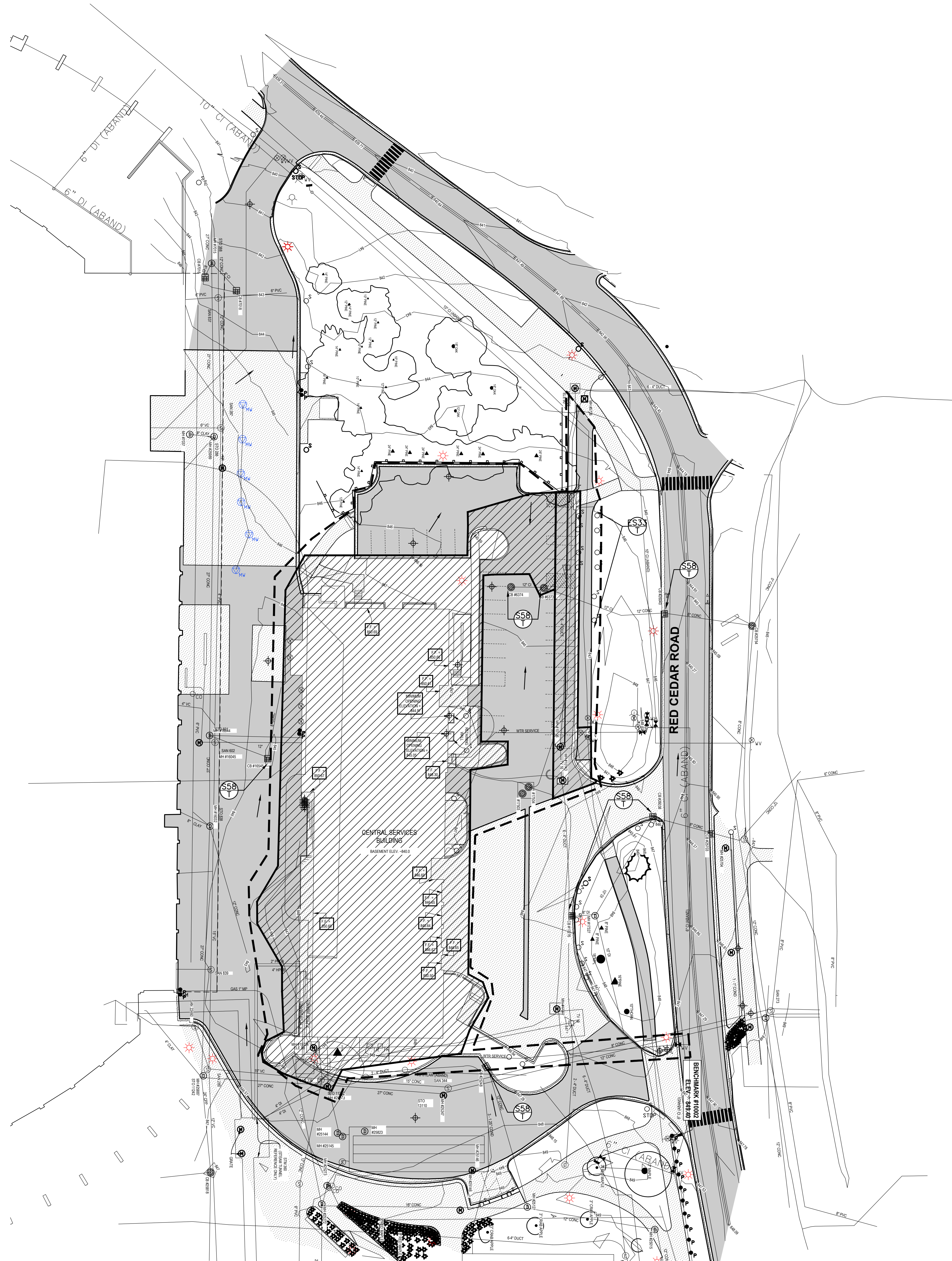
LEGEND



EXISTING CONDITIONS



PLT: INF: 24282424BBA/CAD/CONV/C3 241888346 DATE: 3/27/2025 TIME: 7:09:53 PM USER: TOSMAN



**SESC PLAN**  
SCALE: 1" = 30'  
0 15 30 60

**MICHIGAN 811**  
3 full working days before you dig  
1-800-482-7171  
on the web at: www.missdg.org

**fishbeck**  
Engineers | Architects | Scientists | Constructors

Proj. No.: 241880  
Des. By: HUBWERS  
Designer: TOSMAN  
Reviewer:  
Manager: TOSMAN

**SYMBOL LEGEND**

- LIMITS OF DISTURBANCE
- TREE PROTECTION (BY OWNER)  
COORDINATE WITH  
CONSTRUCTION MANAGER TO  
PROVIDE CONSTRUCTION  
FENCING OR TREE PROTECTION
- DIRECTION OF FLOW OF  
SURFACE WATER RUNOFF
- ▨ APPROXIMATE LIMITS OF  
EXCAVATION FOR BUILDING,  
ADJACENT UTILITIES REMOVAL  
AND SIDEWALK WIDENING.  
OTHER SITE DISTURBANCE MAY  
BE NECESSARY WITHIN THE  
OVERALL LIMITS OF  
DISTURBANCE

**MDMB SOIL EROSION AND  
SEDIMENTATION CONTROL MEASURES**

KEY	DESCRIPTION	DETAIL	CHARACTERISTICS
ES33	FILTER ROLLS		In areas requiring immediate protection of slopes against surface erosion and gully formation and for perimeter sediment control. (Best Management Practice)
S58	INLET PROTECTION FABRIC DROOP		Use at stormwater inlets, especially at construction sites.

**XXT** TEMPORARY MEASURE

**YYP** PERMANENT MEASURE

\* REFER TO MDMB SESC GUIDEBOOK FOR CONTROL MEASURE DETAILS.

**MICHIGAN STATE UNIVERSITY**  
Infrastructure Planning and Facilities

**CENTRAL SERVICES - DEMOLITION**  
CP24092

MSU PROJ. NO.  
CP24092

PRJ. MGR. VANZEE  
ARCH. KASDORF  
MECH. HOPPER  
ELEC. BEACH  
CIVIL GARDNER  
L.A. WILBER  
INT. DES. \_\_\_\_\_  
CONST. REP. \_\_\_\_\_  
APPR. \_\_\_\_\_  
DATE \_\_\_\_\_  
SCALE AS NOTED  
ISSUED  
BIDS 3/28/2025

SESC PLAN

**C3**

3 OF 12



**S.E.S.C. NOTES**

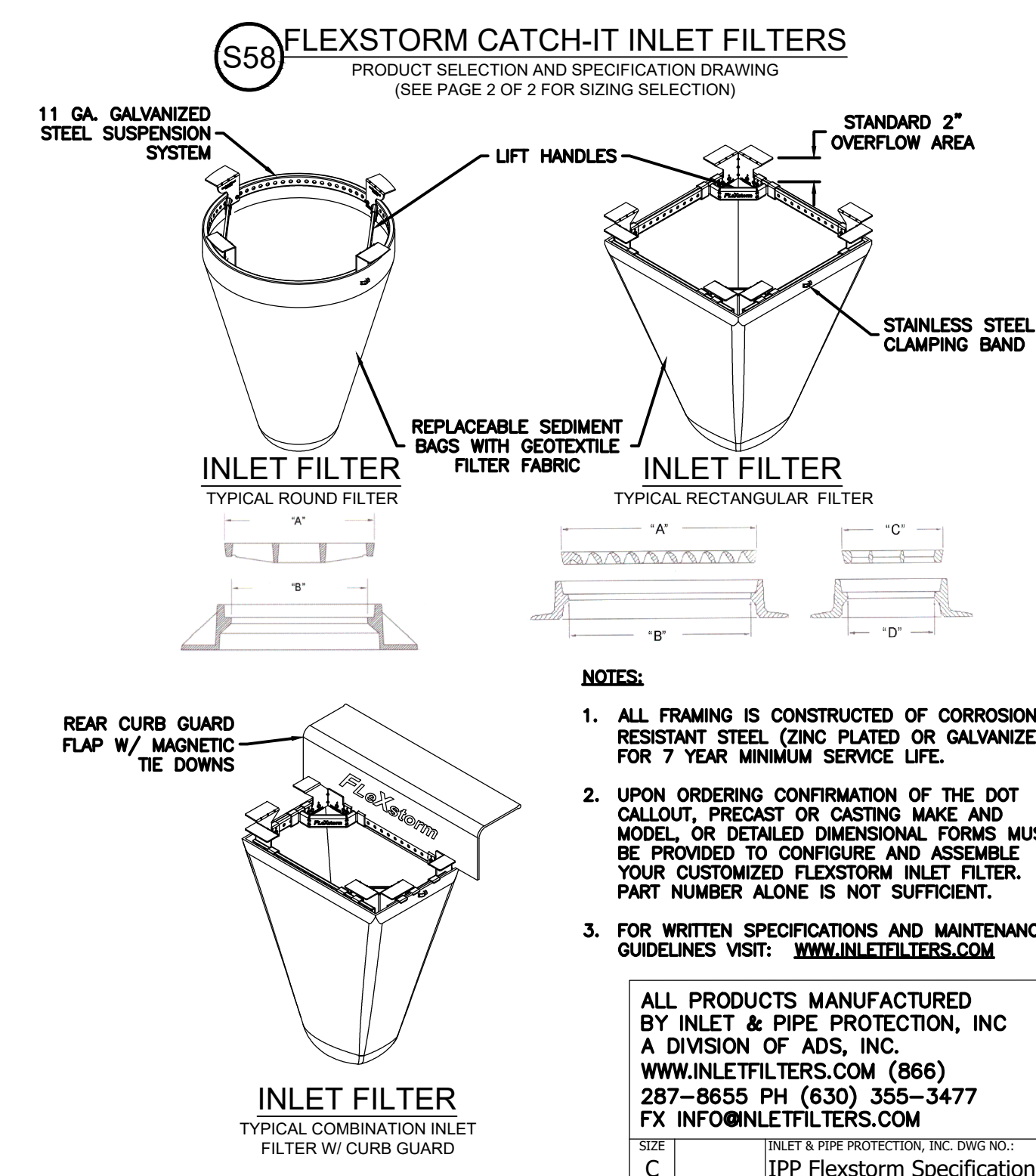
- THE CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS, APPROVED SOIL EROSION AND SEDIMENTATION CONTROL (S.E.S.C.) PLANS, PERMIT CONDITIONS AND WITH PARTS 31 AND 31 OF PUBLIC ACT 451 OF 1994. THE OWNER SHALL OBTAIN A (S.E.S.C.) PERMIT FROM THE APPROPRIATE MUNICIPAL ENFORCING AGENCY (M.E.A.) OR COUNTY ENFORCING AGENCY (C.E.A.). PERMIT FEES AND ROUTINE INSPECTIONS CHARGED BY THE M.E.A./ C.E.A. WILL BE PAID FOR BY THE OWNER.
- PRIOR TO BEGINNING ANY EARTH CHANGE, THE CONTRACTOR SHALL RETAIN A M.D.E.Q. CERTIFIED STORM WATER OPERATOR (C.S.W.O.) TO PROVIDE THE REQUIRED S.E.S.C. REPORTS (WHICH INCLUDE THE WEEKLY AND STORM EVENT REPORTS AS WELL AS ALL FOLLOW UP REPORTS FOR BOTH VIOLATIONS AND STORM EVENT CORRECTIONS) ON THE STANDARD M.D.E.Q. FORM. THE CONTRACTOR SHALL PROVIDE THE REPORTS TO THE OWNER ON A WEEKLY BASIS, AND RETAIN THOSE REPORTS FOR THREE YEARS.
- PRIOR TO BEGINNING ANY EARTH CHANGE, THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL S.E.S.C. MEASURES AS SHOWN ON THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE OWNER, C.S.W.O., M.E.A./ C.E.A. OR M.D.E.Q. AT ANYTIME DURING THE LIFE OF THE CONTRACT OR UNTIL M.S.U. OFFICIALLY TAKES OVER RESPONSIBILITY FOR THE SITE. IMMEDIATELY PRIOR TO M.S.U. TAKING RESPONSIBILITY FOR THE SITE, THE CONTRACTOR WILL BE REQUIRED TO CLEAN ALL CATCH BASINS AFFECTED BY THE CONSTRUCTION, BOTH WITHIN THE CONTRACT LIMITS AND ALL SURROUNDING ROADS, AND LAWN AREAS WHERE SOIL MAY HAVE SPREAD AS A RESULT OF CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL CONDUCT ALL EXCAVATION, FILLING, GRADING, AND CLEAN UP OPERATIONS IN A MANNER SUCH THAT SEDIMENT, GENERATED BY WIND OR WATER IS NOT DISCHARGED INTO ANY STORM SEWER, DRAINAGE DITCH, RIVER, LAKE, AIR, OR UNDERGROUND UTILITY SYSTEM. STAGE WORK TO MINIMIZE THE AREA OF EXPOSED SOIL, THEREBY REDUCING THE OPPORTUNITY FOR SOIL EROSION.
- WATER FROM TRENCHES AND OTHER EXCAVATION SHALL BE PUMPED INTO A FILTRATION BAG TO REMOVE SEDIMENTS FROM THE WATER.
- IF SEDIMENT EXTENDS BEYOND THE PROJECT LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND RESTORATION OF ALL SURFACES AND UTILITY SYSTEMS TO THE CONDITION THAT EXISTED PRIOR TO THE CONTRACT AWARD.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL S.E.S.C. MEASURES ON A DAILY BASIS.
- SHOULD VIOLATIONS BE IDENTIFIED BY THE OWNER, C.S.W.O., M.E.A./ C.E.A. OR M.D.E.Q., THEY SHALL BE CORRECTED WITHIN 24 HOURS OF NOTIFICATION. THE CORRECTION(S) SHALL BE APPROVED BY THE OWNER, C.S.W.O., M.E.A./ C.E.A. OR M.D.E.Q.. ALL SUBSEQUENT INSPECTIONS PERFORMED BY THE OWNER, C.S.W.O., M.E.A./ C.E.A. OR M.D.E.Q. AS A RESULT OF THE VIOLATION (AND ANY OTHER ASSOCIATED COSTS) WILL BE PAID FOR BY THE CONTRACTOR. IF IDENTIFIED VIOLATIONS ARE NOT CORRECTED WITHIN 24 HOURS OF WRITTEN NOTICE, THE OWNER WILL MAKE THE REQUIRED REPAIRS WITHOUT FURTHER NOTIFICATION, AT THE CONTRACTOR'S EXPENSE.
- FINES ASSESSED AS A RESULT OF THE VIOLATION FOR NON-COMPLIANCE OF THE S.E.S.C. PROVISIONS WILL BE PAID BY THE CONTRACTOR. SHOULD A "STOP WORK" ORDER FOR NON-COMPLIANCE BE ISSUED, A TIME EXTENSION REQUEST FOR THAT PERIOD WILL NOT BE GRANTED. (FINES COULD BE ASSESSED UP TO AND INCLUDING \$25,000 PER DAY FOR EACH VIOLATION).
- SUBJECT SITE IS WITHIN 500 FEET OF A STREAM OR RIVER.
- SOIL TYPE: URBANIZED SOILS.
- ALL DISTURBED AREAS SHALL RECEIVE PERMANENT EROSION CONTROL MEASURES WITHIN 5 DAYS OF FINAL GRADING.
- SHOULD VIOLATIONS BE IDENTIFIED BY THE OWNER, C.S.W.O., M.E.A./C.E.A. OR D.E.Q., THEY SHALL BE CORRECTED WITHIN 24 HOURS OF NOTIFICATION. THE CORRECTION(S) SHALL BE APPROVED BY THE OWNER, C.S.W.O., M.E.A./C.E.A. OR D.E.Q. ALL SUBSEQUENT INSPECTIONS PERFORMED BY THE OWNER, C.S.W.O., M.E.A./C.E.A. OR D.E.Q. AS A RESULT OF THE VIOLATION (AND ANY OTHER ASSOCIATED COSTS) WILL BE PAID BY THE CONTRACTOR. IF IDENTIFIED VIOLATIONS ARE NOT CORRECTED WITHIN 24 HOURS OF WRITTEN NOTICE, THE OWNER WILL MAKE THE REQUIRED REPAIRS WITHOUT FURTHER NOTIFICATION, AT THE CONTRACTOR'S EXPENSE.
- APPROXIMATE QUANTITIES OF EXCAVATION & FILL:  
APPROXIMATE TOTAL EXCAVATION 4,000 CYD  
TOTAL FILL 4,000 CYD  
NOTE: CONTRACTOR SHALL DETERMINE THEIR OWN QUANTITY OF EXCAVATED MATERIAL & SEQUENCE OF EVENTS. ABOVE QUANTITIES ARE FOR PERMIT APPLICATION PURPOSES ONLY.
- CONSTRUCTION ACCESS ROAD WILL BE PROTECTED WITH CRUSHED STONE OR CONCRETE, AGGREGATE SIZE 1"-2" OR ASPHALT AS NOTED ON PLAN.
- PROJECT SITE BOUNDARY OF DISTRIBUTION PROJECT - 1.6 ACRES.
- COST OF PERMIT - TOTAL ACRES OF PROJECT = 1.6 ACRES.
- THERE ARE NO WETLANDS ON OR IMMEDIATELY ADJACENT TO THE PROJECT SITE.
- STRIP ALL TOPSOIL WITHIN THE LIMITS OF WORK AS INDICATED ON DEMOLITION PLAN, SHALL OFFSITE TO THE DESIGNATED SITE (E.G. BEAUMONT NURSERY). IF NOT USE, OWNER SHALL PROTECT ANY STOCKPILES AT THE DISPOSAL SITE WITH SILT FENCE, TEMP SEEDING OR SIMILAR TO PREVENT EROSION.
- A WATER TRUCK SHALL BE AVAILABLE TO WATER DOWN SITE AS REQUIRED TO MAINTAIN DUST CONTROL.
- DIRT OR MUD TRACKED ONTO CONCRETE OR PAVED AREAS SHALL BE PROMPTLY REMOVED AND SURFACE CLEANED.
- STORM WATER FROM THE SITE SHALL NOT ADVERSELY IMPACT ADJACENT PROPERTIES DURING CONSTRUCTION. FINAL TOPOGRAPHY OF THE SITE SHALL ALSO NOT HAVE ANY ADVERSE EFFECTS ON ADJACENT LANDS. NOTE: ALL ADJACENT LANDS TO THE SITE ARE OWNED BY MICHIGAN STATE UNIVERSITY.

**DEMOLITION NOTES**

- THE EXTENT OF REMOVALS AND DEMOLITION SHALL BE FIELD VERIFIED BY CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DEVIATIONS FROM INFORMATION SHOWN.
- PRIOR TO CONSTRUCTION ALL FENCING, BARRICADES, ENCLOSURES, ETC., MUST BE INSTALLED AND APPROVED BY OWNER OR CONSTRUCTION MANAGER.
- DISPOSE OF DEMOLITION AND EXCAVATION MATERIALS IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IN PLACE PRIOR TO STARTING REMOVALS AND DEMOLITION.
- UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE PLANS, ALL SIDEWALKS, DRIVES, CURBS, DRAINAGE STRUCTURES, AND ABOVE AS WELL AS BELOW GRADE UTILITIES SHALL BE PROTECTED. ALL SUCH ITEMS DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER.
- PROTECT EXISTING TREES TO REMAIN WITH TEMPORARY FENCING AT THE DRIP LINE. NO GROUND DISTURBANCE OR STORAGE OF MATERIAL/EQUIPMENT SHALL OCCUR WITHIN THE DRIP LINE LIMITS.
- ELECTRICAL, TELEPHONE, CABLE TV, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DEMOLITION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
- PERFORM CLEARING, GRUBBING, TREE AND STUMP REMOVAL, TOPSOIL REMOVAL AND STOCKPILING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- BEFORE REMOVING OR ABANDONING ANY UTILITY PIPES, VERIFY NEW UTILITY PIPE HAS BEEN INSTALLED, TESTED AND IS OPERATIONAL.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY CRITICAL INVERT INFORMATION PRIOR TO BEGINNING CONSTRUCTION.
- DAMAGE CAUSED TO SURROUNDING AREA PAVEMENT OUTSIDE THE CONSTRUCTION LIMITS SHALL BE SAWCUT AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE SEQUENCING AND PHASING OF DEMOLITION WITH OWNER.
- SAWCUT CURB AND GUTTER AND SIDEWALKS TO NEAREST JOINT.

**MDMB SOIL EROSION AND SEDIMENTATION CONTROL MEASURES**

KEY	DESCRIPTION	DETAIL	CHARACTERISTICS
ES33	FILTER ROLLS		In areas requiring immediate protection of slopes against surface erosion and gully formation and for perimeter sediment control. (Erosion/Engineering)
S58	INLET PROTECTION FABRIC DROP		Use at stormwater inlets, especially at construction sites.



- NOTES:**
- ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL (ZINC PLATED OR GALVANIZED) FOR 7 YEAR MINIMUM SERVICE LIFE.
  - UPON ORDERING CONFIRMATION OF THE DOT CALLOUT, PRECAST OR CASTING MAKE AND MODEL OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED TO CONFIGURE AND ASSEMBLE YOUR CUSTOMIZED FLEXSTORM INLET FILTER. PART NUMBER ALONE IS NOT SUFFICIENT.
  - FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT: [WWW.INLETFILTERS.COM](http://WWW.INLETFILTERS.COM)

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC. A DIVISION OF ADS, INC. [WWW.INLETFILTERS.COM](http://WWW.INLETFILTERS.COM) (866) 287-8655 PH (630) 355-3477 FX [INFO@INLETFILTERS.COM](mailto:INFO@INLETFILTERS.COM)

**FLEXSTORM CATCH-IT INLET FILTERS**  
PRODUCT SELECTION AND SPECIFICATION DRAWING (SEE PAGE 1 OF 2 FOR DETAIL DRAWINGS)

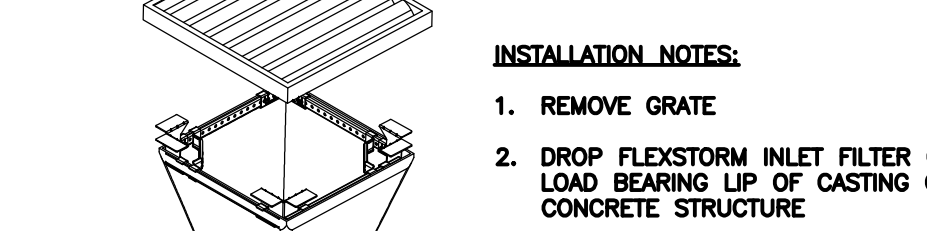
STYLE	FRAME STYLE AND SIZE	Frame P/N
ROUND	Small Round (up to 20" dia grates (A) Rim)	625RD
	Med Round (20.1" - 30.0" dia grates (A) up to 25" dia openings (B))	626RD
	Large Round (26.1" - 33.0" dia grates (A) up to 30" openings (B))	628RD
RECT / SQUARE	XL Round (21" dia - 30" dia grates (A) up to 30" openings (B))	629RD
	Small Rect / Square (up to 18" (B) x 18" (D) openings or 14" perimeter)	625SQ
	Med Rect / Square (up to 24" (B) x 24" (D) openings or 18" perimeter)	626SQ
COMBO INLETS	Large Rect / Square (up to 30" (B) x 24" (D) openings or 20" perimeter)	627SQ
	XL Rect / Square (ref Rect sizing, shipped with Magnetic Curb Flaps)	628SQ
	Med Rect / Square (ref Rect sizing, shipped with Magnetic Curb Flaps)	629SQ
IN-SIDEWALK	Large Rect / Square (ref Rect sizing, shipped with Magnetic Curb Flaps)	621CB
	XL Rect / Square (ref Rect sizing, shipped with Magnetic Curb Flaps)	622CB
	12" diameter Nylon/Plas castings (Stainless Steel Framing standard)	623SNV
	15" diameter Nylon/Plas castings (Stainless Steel Framing standard)	624SNV
	18" diameter Nylon/Plas castings (Stainless Steel Framing standard)	625SNV
	24" diameter Nylon/Plas castings (Stainless Steel Framing standard)	626SNV

**D. SELECT YOUR BAG PART NUMBER**

FLEXSTORM FILTER BAGS	(22" depth)	(12" depth)	Clean Water Flow Short Bag P/N	Flow (GPM/CuFt)	Min A.D.S. (P6 Sieve)
FX Standard Woven Bag	FX	FX-S	200	40	40
LL DOT Non-Woven Bag	LL	LL-S	140	70	70

**E. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER**

Nominal Bag Size	Solids Storage (CuFt)	Filtered Flow Rate at 50% Max (CFM)
Small	1.5	1.2
Medium	2.1	1.7
Large	3.8	2.7
XL	4.2	3.6



ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC. A DIVISION OF ADS, INC. [WWW.INLETFILTERS.COM](http://WWW.INLETFILTERS.COM) (866) 287-8655 PH (630) 355-3477 FX [INFO@INLETFILTERS.COM](mailto:INFO@INLETFILTERS.COM)

**INLET FILTER**  
TYPICAL INSTALLATION

SIZE	INLET & PIPE PROTECTION, INC. DWG NO.	REV
C	IPP Flexstorm Specifications A	

SITE DESCRIPTION:  
PART OF PARCELS 33-20-02-18-304-002 MICHIGAN STATE UNIVERSITY, EAST LANSING, MI 48824  
MORE PARTICULARLY DESCRIBED AS CENTRAL SERVICES BUILDING AND PARKING LOT AREA.



Proj. No.: 241880  
Des. By: HOBWERS  
Reviewer: TOSMAN  
Manager: TOSMAN

© COPYRIGHT 2024 ALL RIGHTS RESERVED

**MICHIGAN STATE UNIVERSITY**  
Infrastructure Planning and Facilities

**CENTRAL SERVICES - DEMOLITION**

CP24092

MSU PROJ. NO. CP24092

PRJ. MGR. VANZEE  
ARCH. KASDORF  
MECH. HOPPER  
ELEC. BEACH  
CIVIL GARDNER  
L.A. WILBER

INT. DES.  
CONST. REP.  
APPR.  
DATE  
SCALE AS NOTED  
ISSUED  
BIDS 3/28/2025

SESC NOTES & DETAILS

**C4**

4 OF 12

**SESC NOTES & DETAILS**

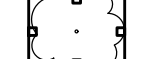
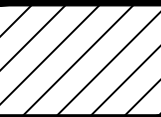
NO SCALE

PLOT: INFO\_P24092A488BBA040001.C4 2418803146 AM USER: TOSMAN TIME: 5/23/24 DATE: 3/28/2025 LAYOUT: C4



BENCH MARKS

SYMBOL LEGEND

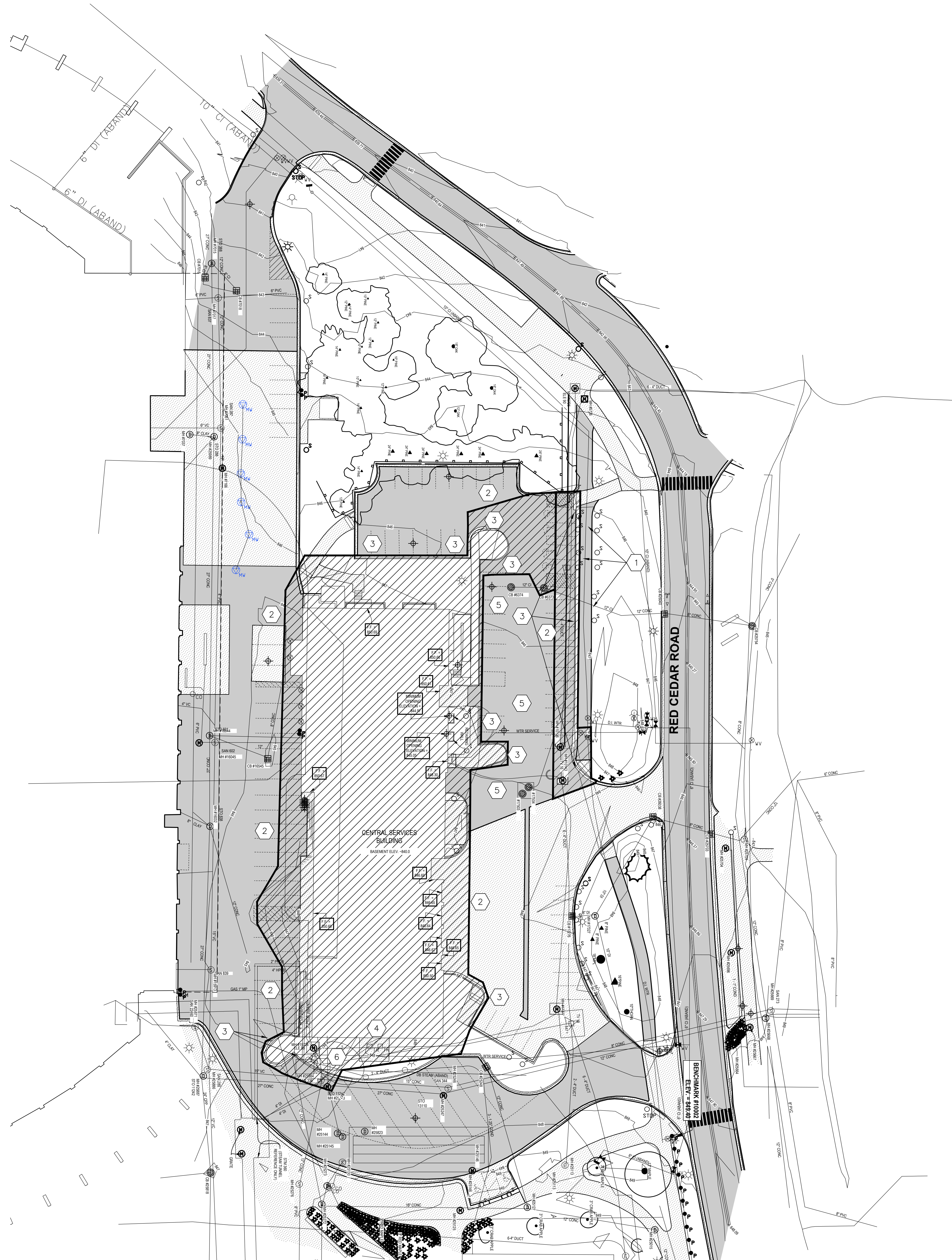
- ✕ REMOVE OBJECT
-  TREE PROTECTION (BY OWNER)
-  APPROXIMATE LIMITS OF EXCAVATION FOR BUILDING, ADJACENT UTILITIES, REMOVAL AND SIDEWALK WIDENING. OTHER SITE DISTURBANCE MAY BE NECESSARY WITHIN THE OVERALL LIMITS OF DISTURBANCE (LOD SHOWN ON C3)

DEMOLITION NOTES

1. FIELD VERIFY THE EXTENT OF REMOVALS AND DEMOLITION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DEVIATIONS FROM INFORMATION SHOWN.
2. PRIOR TO CONSTRUCTION ALL FENCING, BARRICADES, ENCLOSURES, ETC., MUST BE INSTALLED AND APPROVED BY OWNER OR CONSTRUCTION MANAGER.
3. DISPOSE OF DEMOLITION AND EXCAVATION MATERIALS IN ACCORDANCE WITH CONTRACT DOCUMENTS.
4. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE IN PLACE PRIOR TO STARTING REMOVALS AND DEMOLITION.
5. UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE PLANS, PROTECT ALL SIDEWALKS, DRIVES, CULVERTS, DRAINAGE STRUCTURES, AND ABOVE AS WELL AS BELOW GRADE UTILITIES. REMOVE AND REPLACE ALL SUCH ITEMS DAMAGED OR DESTROYED DURING CONSTRUCTION WITH NEW AT NO ADDITIONAL COST TO THE OWNER.
6. PROTECT EXISTING TREES TO REMAIN WITH TEMPORARY FENCING AT THE DRIP LINE. NO GROUND DISTURBANCE OR STORAGE OF MATERIAL/EQUIPMENT SHALL OCCUR WITHIN THE DRIP LINE LIMITS.
7. COORDINATE REMOVAL OR REPLACEMENT OF ELECTRICAL, TELEPHONE, CABLE TV, WATER, FIBER OPTIC CABLE AND/OR GAS LINES WITH THE AFFECTED UTILITY COMPANY. PROVIDE ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY AS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
8. PERFORM CLEARING, GRUBBING, TREE AND STUMP REMOVAL, TOPSOIL REMOVAL AND STOCKPILING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
9. BEFORE REMOVING OR ABANDONING ANY UTILITY PIPES, VERIFY NEW UTILITY PIPE HAS BEEN INSTALLED, TESTED AND IS OPERATIONAL.
10. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS DRAWING HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY CRITICAL INVERT INFORMATION PRIOR TO BEGINNING CONSTRUCTION.
11. SAWCUT AND REPLACE DAMAGE CAUSED TO SURROUNDING AREA PAVEMENT OUTSIDE THE CONSTRUCTION LIMITS AT NO ADDITIONAL COST TO THE OWNER.
12. COORDINATE SEQUENCING AND PHASING OF DEMOLITION WITH CONSTRUCTION MANAGER.
13. SEE SHEETS C7, C8 AND C13 FOR ADDITIONAL DEMOLITION WORK.
14. SAWCUT CURB AND GUTTER AND SIDEWALKS TO NEAREST JOINT.

# DEMOLITION KEY NOTES

1. REMOVE AND SALVAGE SIGN
2. SAWCUT PAVEMENT WITHIN REMOVAL AREAS
3. REMOVE CURB AND GUTTER
4. SEE SHEET C13 FOR DEMO/SALVAGE NOTES. REMOVE CONCRETE TRANSFORMER PAD.
5. MILL 1.5" HMA PAVEMENT
6. REMOVE TREE



SITE SURFACE DEMOLITION PLAN

SCALE: 1" = 30'  
0 15 30 60

MSU PROJ. NO.  
CP24092

PRJ. MGR. VANZEE  
ARCH. KASDORF  
MECH. HOPPER  
ELEC. BEACH  
CIVIL GARDNER  
L.A. WILBER


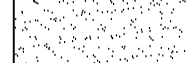
INT. DES. \_\_\_\_\_  
CONST. REP. \_\_\_\_\_  
APPR. \_\_\_\_\_  
DATE \_\_\_\_\_  
SCALE AS NOTED  
ISSUED  
BIDS 3/28/2025

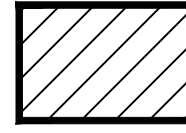
SITE SURFACE DEMOLITION PLAN

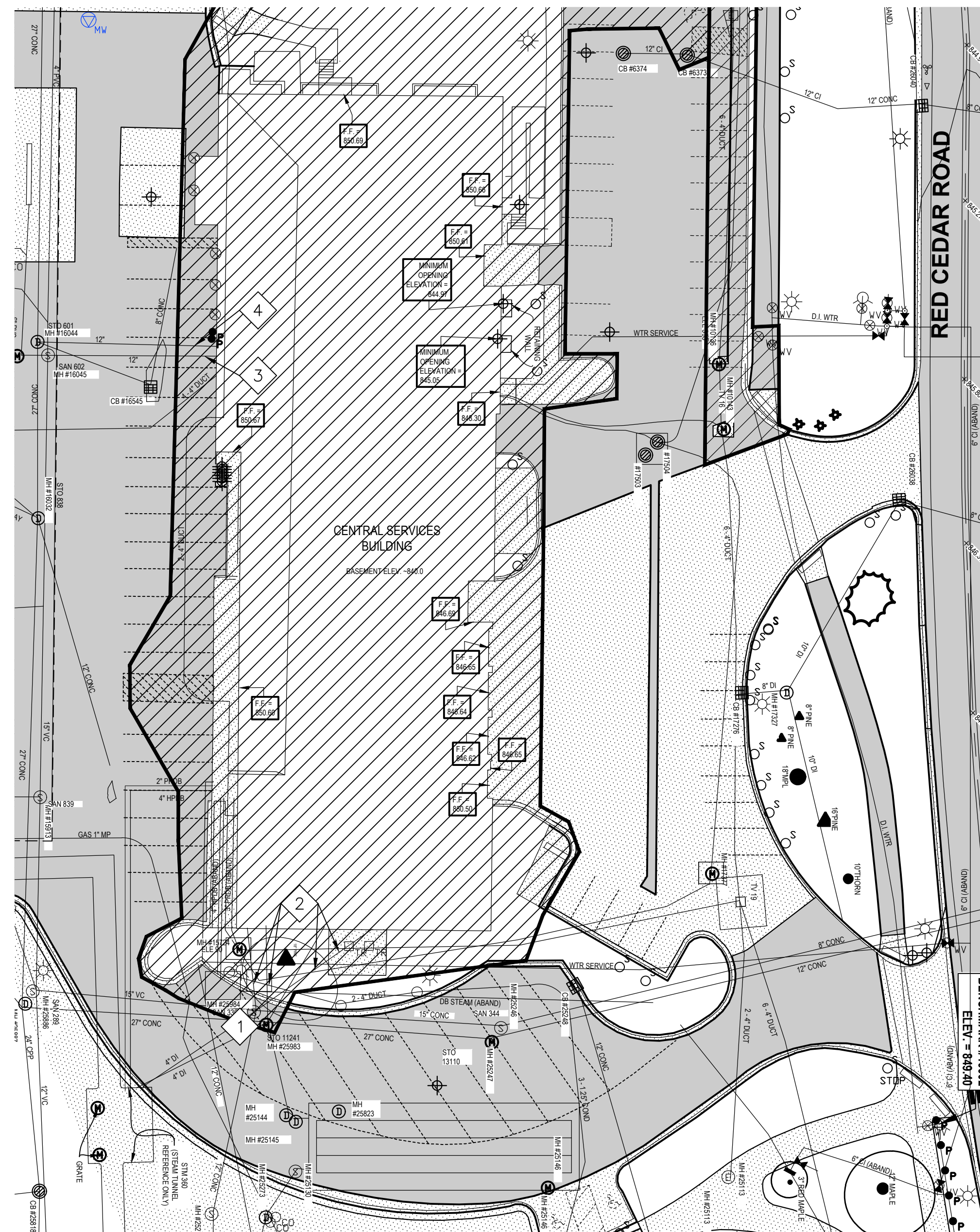
**C5**



SYMBOL LEGEND

-  ASPHALT PAVEMENT
-  CONCRETE PAVEMENT

 APPROXIMATE LIMITS OF EXCAVATION FOR BUILDING, ADJACENT UTILITIES, REMOVAL AND SIDEWALK WIDENING. OTHER SITE DISTURBANCE MAY BE NECESSARY WITHIN THE OVERALL LIMITS OF DISTURBANCE (LOD SHOWN ON C5)



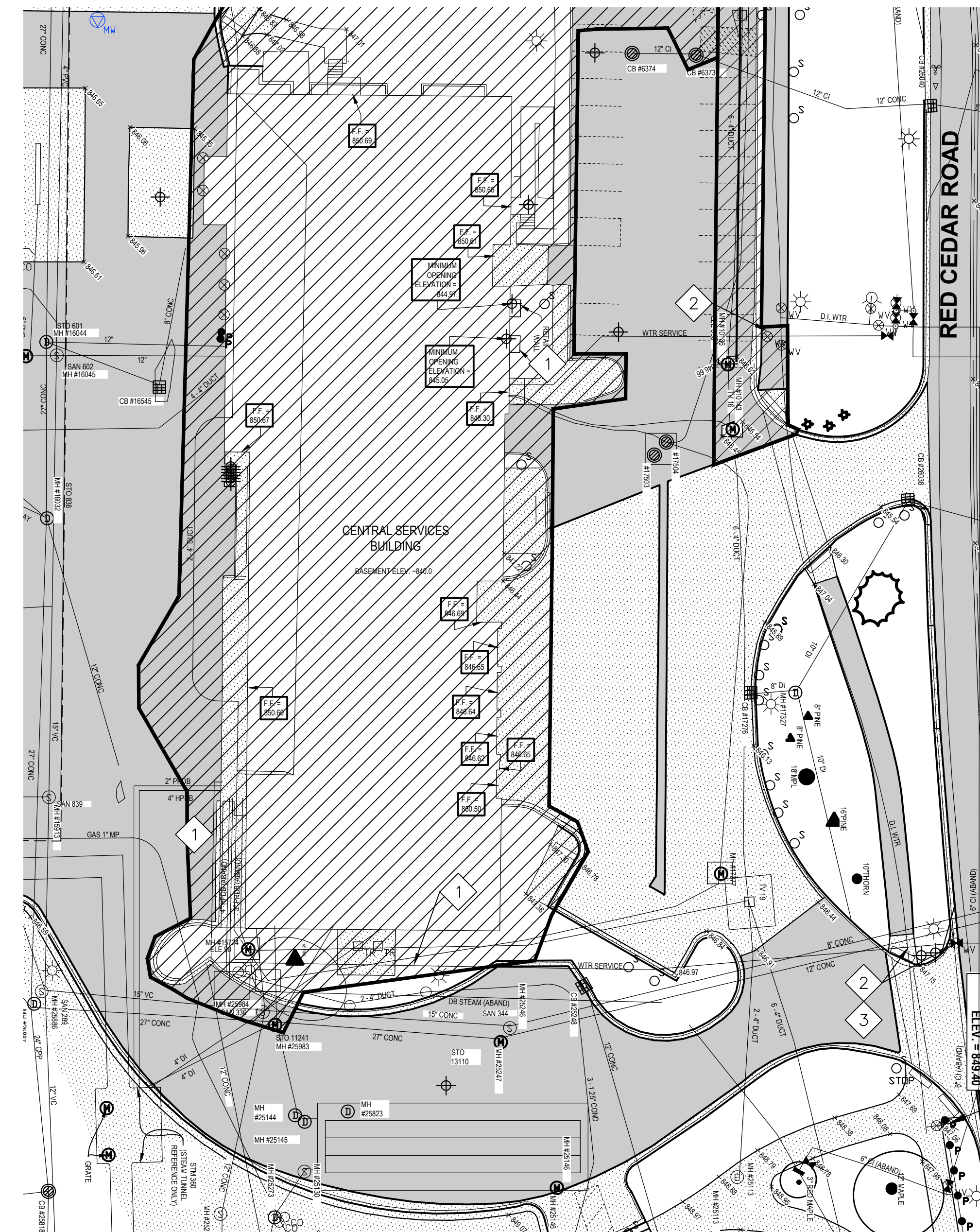
KEY NOTES

1. PROTECT STORM AND SANITARY STRUCTURES.
2. REMOVE BUILDING STORM AND SANITARY SERVICES AND BULKHEAD WITHIN MANHOLES.
3. REMOVE BUILDING SANITARY SERVICE WITHIN DEMOLITION LIMITS. FLOWABLE FILL AND PLUG REMAINING PIPE UNDER DRIVE.
4. PROTECT STORM SEWER TO REMAIN. CONFIRM PIPE SIZE AND CONDITION AND REPORT BACK TO OWNER.



STORM & SANITARY SEWER DEMOLITION PLAN

SCALE: 1" = 30'  
0 15 30 60



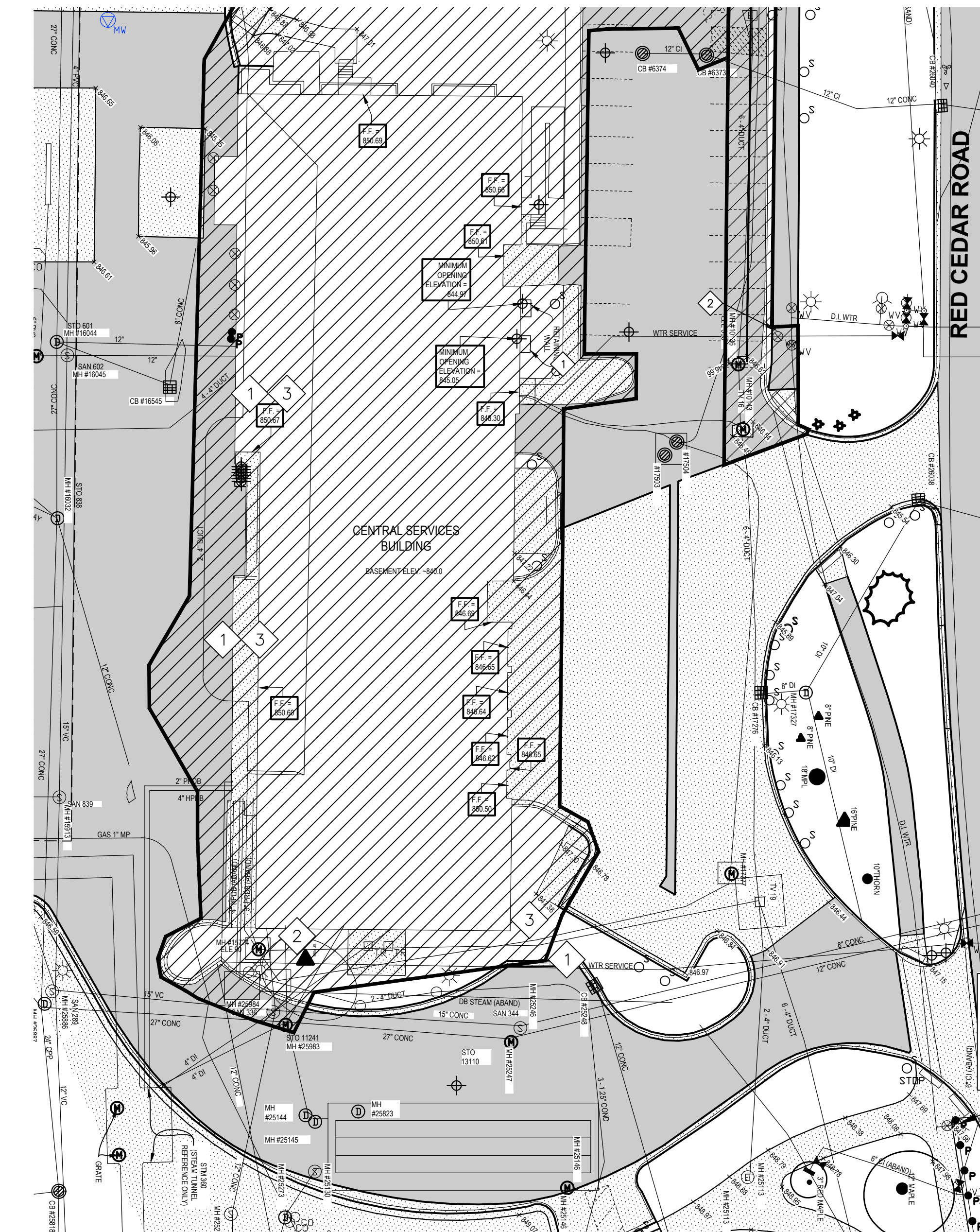
KEY NOTES

1. REMOVE EXISTING WATER SERVICE WITHIN LIMITS OF EXCAVATION AREAS.
2. REMOVE EXISTING VALVE AND INSTALL CAP. COORDINATE WORK WITH OWNER.
3. CONFIRM EXISTING CONDITIONS, VALVE LOCATIONS, CONFLICTING INFORMATION EXISTS AS TO LOCATION OF ACTIVE MAIN, ABANDONED MAIN AND IN SERVICE OR ABANDONED VALVES.



WATER DEMOLITION PLAN

SCALE: 1" = 30'  
0 15 30 60



KEY NOTES

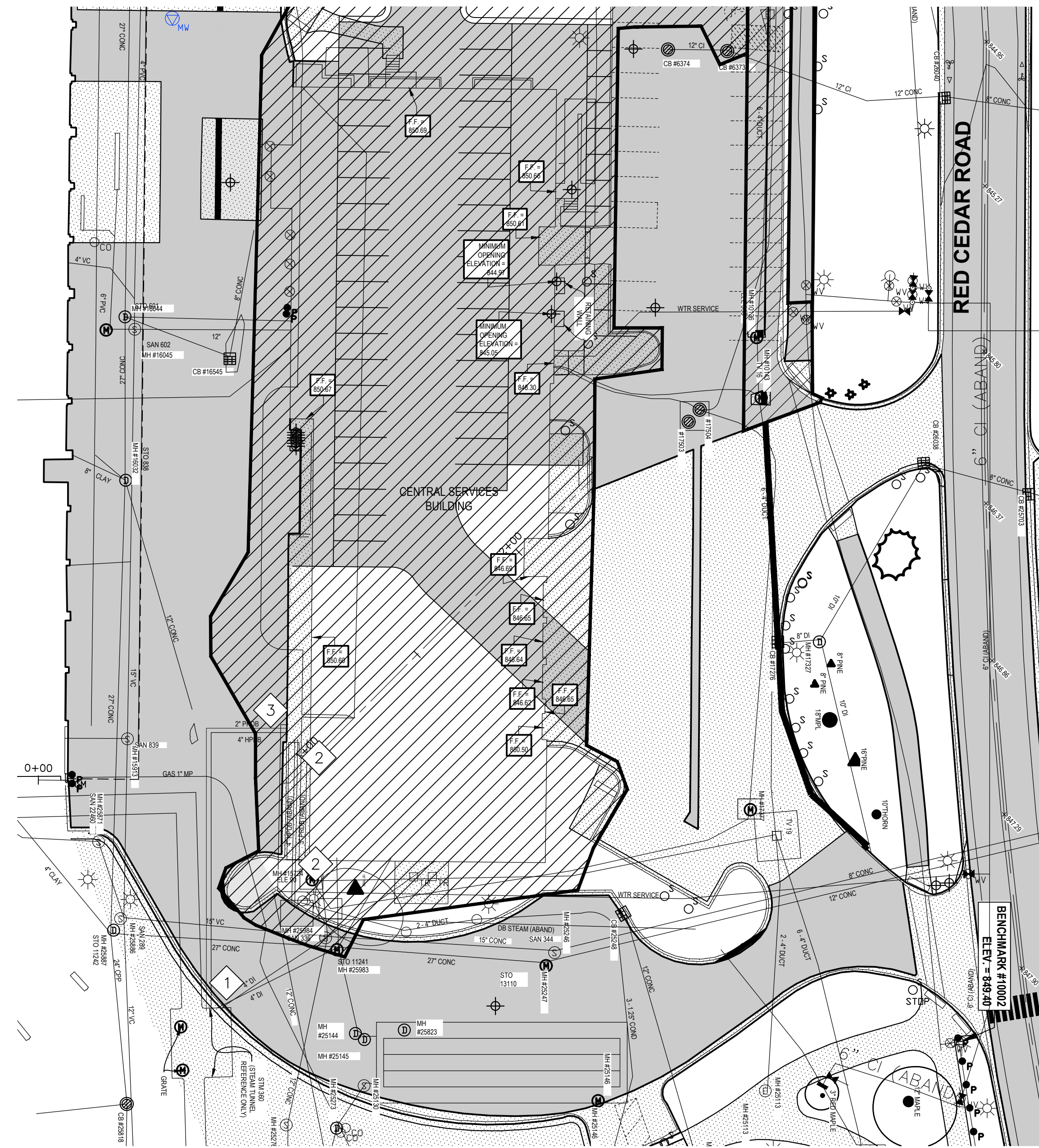
1. COORDINATE WITH OWNER TO REMOVE ELECTRICAL AND FIBER CABLE PRIOR TO DEMOLITION.
2. REMOVE ELEC AND COMM VAULTS
3. REMOVE DUCT BANK WITHIN LIMITS OF EXCAVATION



ELECTRICAL AND COMMUNICATIONS DEMOLITION PLAN

SCALE: 1" = 30'  
0 15 30 60





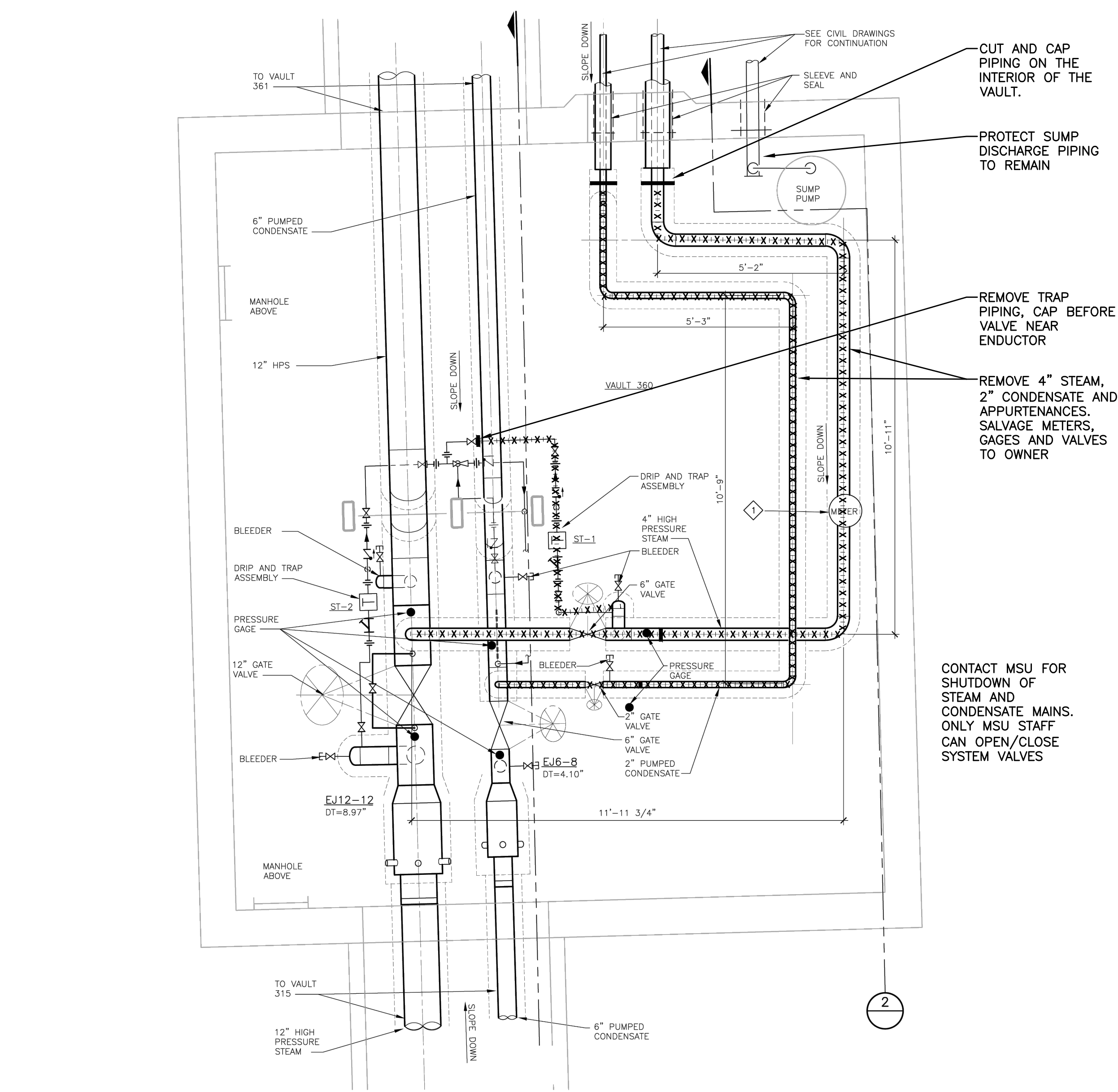
**KEY NOTES**

1. PROTECT STRUCTURE, EXISTING TUNNEL AND ALL PIPING TO REMAIN. SEE VAULT 360 DETAIL THIS SHEET FOR INTERNAL VAULT PIPING DEMOLITION REQUIREMENTS.
2. REMOVE EXISTING ABANDONED/LOW FILLED STEAM AND CONDENSATE PIPE. CONFIRM WITH OWNER IF ASBESTOS CONTAINING.
3. REMOVE EXISTING STEAM AND CONDENSATE WITHIN LIMITS OF EXCAVATION.

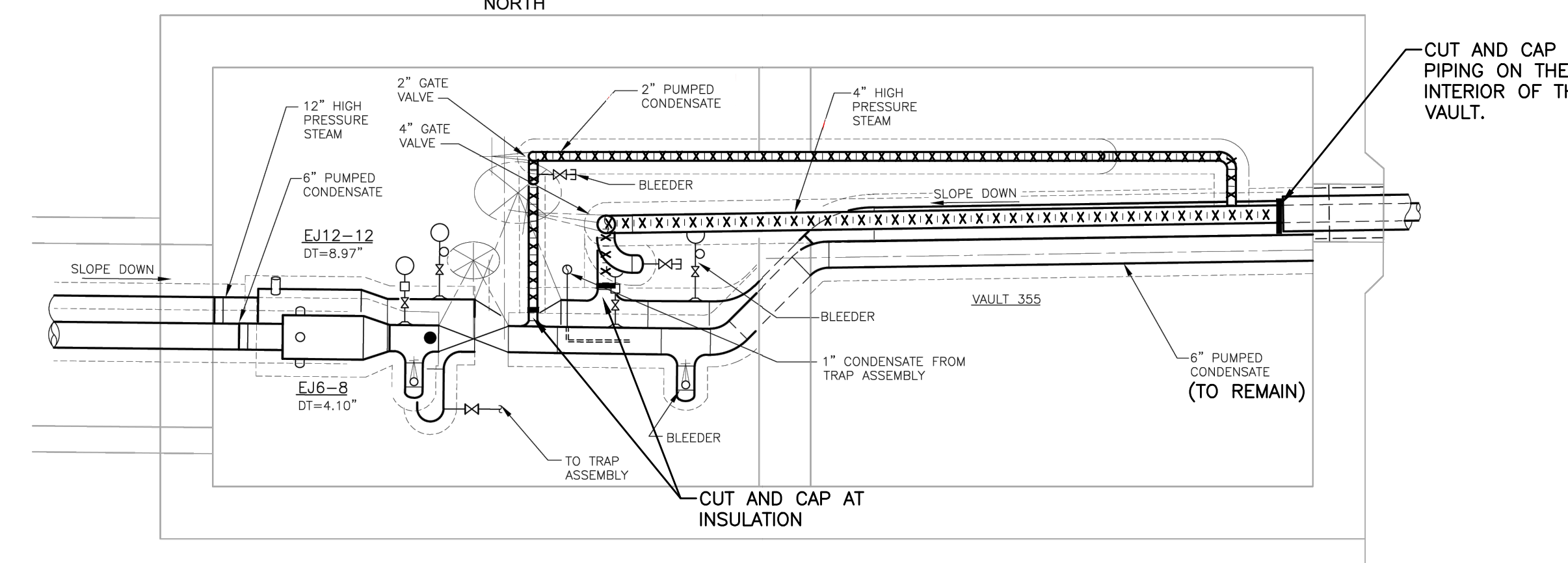


**SITE STEAM DEMOLITION PLAN**

SCALE: 1" = 30'  
0 15 30 60



**VAULT 360 PIPING PLAN**



**SECTION 2**



**STEAM VAULT 360 PIPING DEMOLITION PLAN**

NO SCALE

**SYMBOL LEGEND**

ASPHALT PAVEMENT

CONCRETE PAVEMENT

APPROXIMATE LIMITS OF EXCAVATION FOR BUILDING, ADJACENT UTILITIES REMOVAL AND SIDEWALK WIDENING. OTHER SITE DISTURBANCE MAY BE NECESSARY WITHIN THE OVERALL LIMITS OF DISTURBANCE (LOD SHOWN ON C3)

XXXXXXXXXX REMOVE STEAM AND CONDENSATE WITHIN VAULT 360

CONTACT MSU FOR SHUTDOWN OF STEAM AND CONDENSATE MAINS. ONLY MSU STAFF CAN OPEN/CLOSE SYSTEM VALVES

CUT AND CAP PIPING ON THE INTERIOR OF THE VAULT.

REMOVE TRAP PIPING, CAP BEFORE VALVE NEAR ENDUCTOR

REMOVE 4" STEAM, 2" CONDENSATE AND APPURTENANCES, SALVAGE METERS, GAGES AND VALVES TO OWNER

PROTECT SUMP DISCHARGE PIPING TO REMAIN

SEE CIVIL DRAWINGS FOR CONTINUATION

SLEEVE AND SEAL

TO VAULT 361

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360

TO VAULT 360



PLT: INFO: 2/28/2024 10:44:44 AM DATE: 3/28/2025 TIME: 5:44:44 AM USER: TOSMAN

MICHIGAN  
811  
3 full working days before you dig  
1-800-482-7171  
on the web at: www.missdg.org

**fishbeck**  
Engineers | Architects | Scientists | Constructors

Proj. No.: 241880  
Des. By: HJW/WRG  
Designer: TOSMAN  
Reviewer:  
Manager: TOSMAN

© FISHBECK 2025 ALL RIGHTS RESERVED

Infrastructure  
Planning and Facilities

MICHIGAN STATE  
UNIVERSITY

CENTRAL SERVICES - DEMOLITION

CP24092

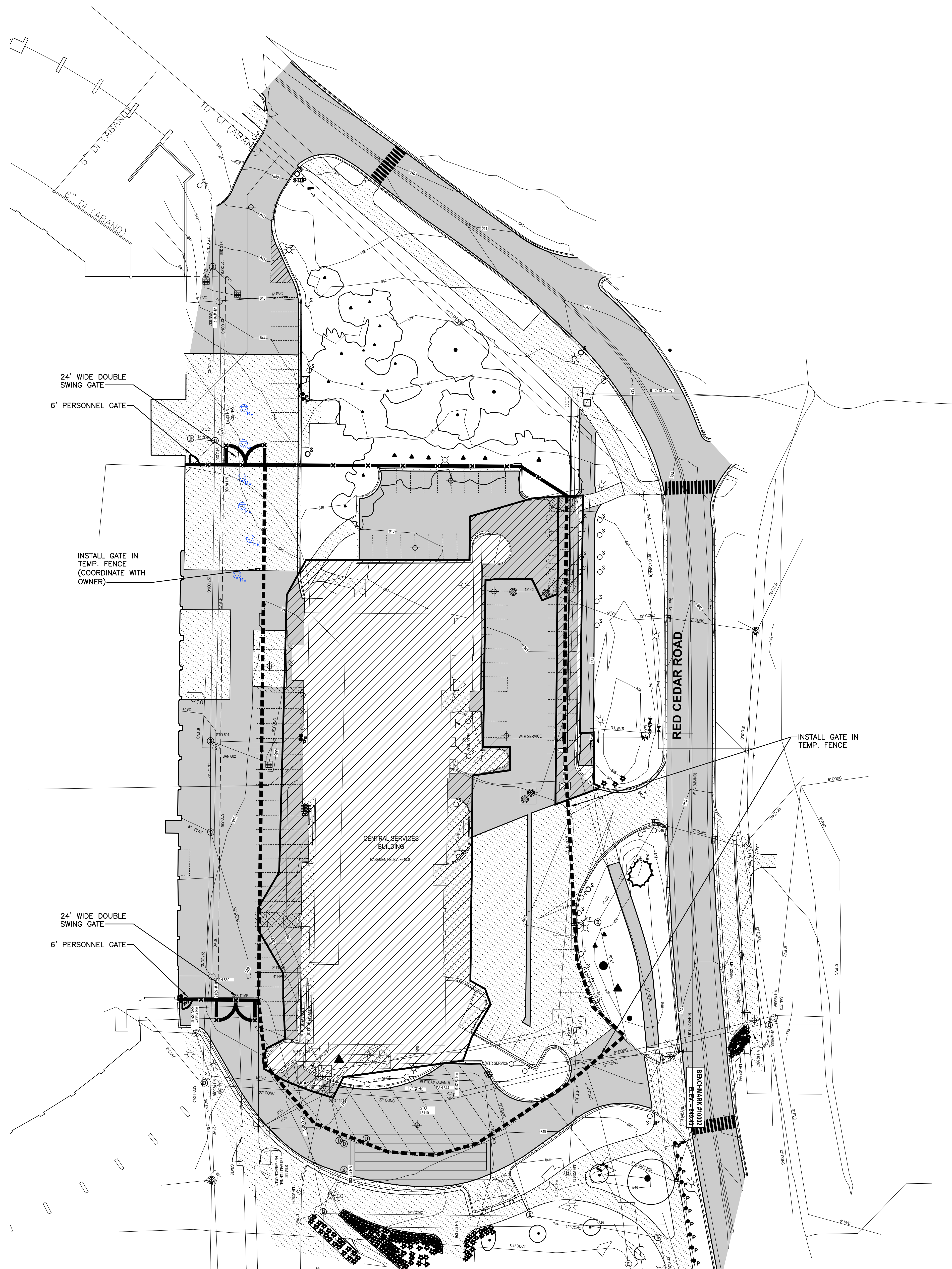
MSU PROJ. NO.  
CP24092

PRJ. MGR. VANZEE  
ARCH. KASDORF  
MECH. HOPPER  
ELEC. BEACH  
CIVIL GARDNER  
L.A. WILBER  
INT. DES. \_\_\_\_\_  
CONST. REP. \_\_\_\_\_  
APPR. \_\_\_\_\_  
DATE \_\_\_\_\_  
SCALE AS NOTED  
ISSUED  
BIDS 3/28/2025

TEMPORARY SITE  
LAYOUT PLAN

C9

8 OF 12



**SYMBOL LEGEND**

ASPHALT PAVEMENT

CONCRETE PAVEMENT

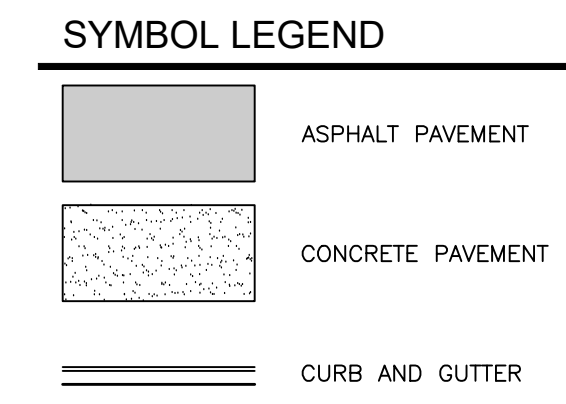
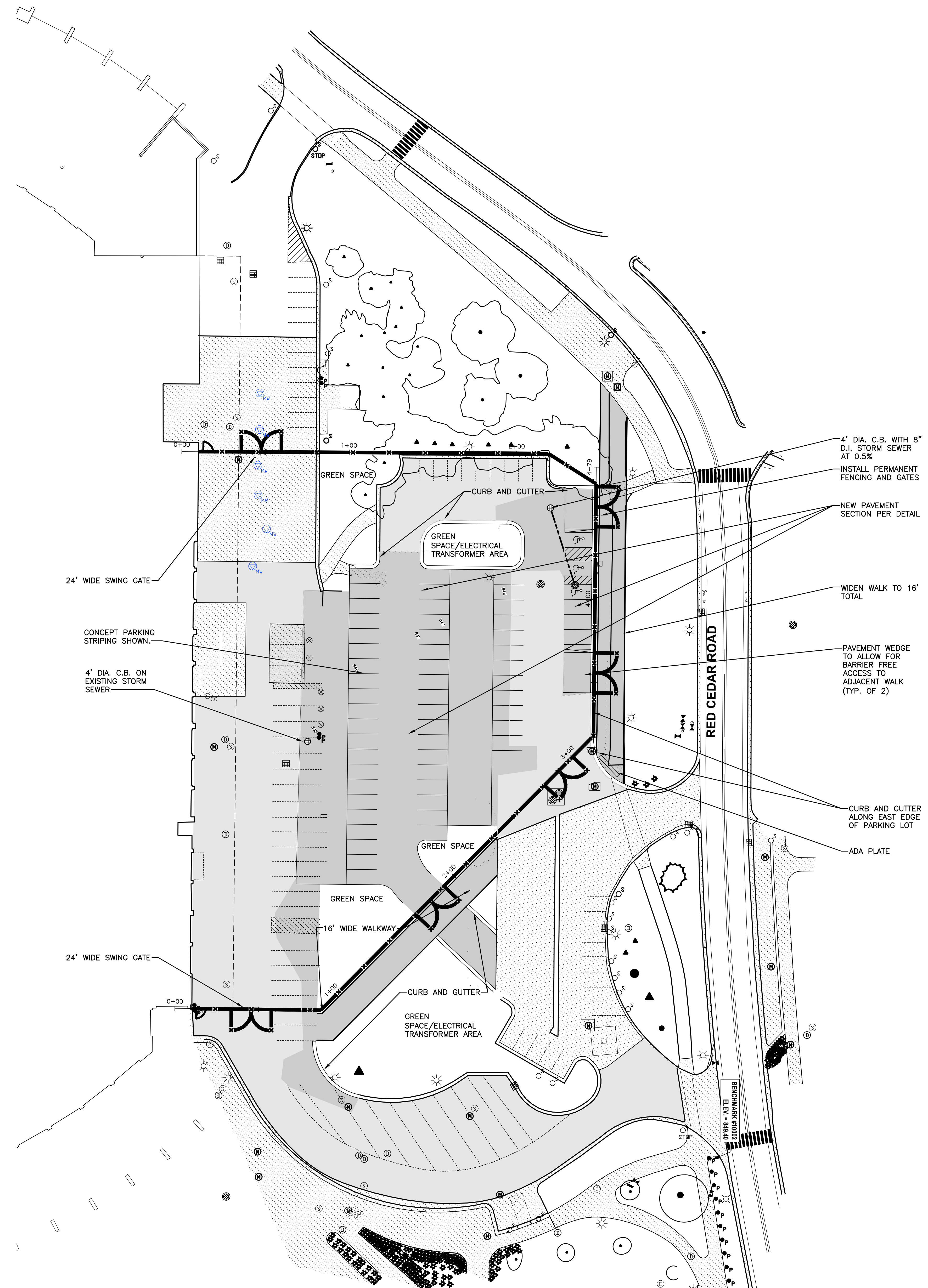
APPROXIMATE LIMITS OF EXCAVATION FOR BUILDING, ADJACENT UTILITIES REMOVAL AND SIDEWALK WIDENING. OTHER SITE DISTURBANCE MAY BE NECESSARY WITHIN THE OVERALL LIMITS OF DISTURBANCE (LOD SHOWN ON C3)

TEMPORARY FENCING

PERMANENT FENCING AND GATES

**TEMPORARY SITE LAYOUT PLAN**  
SCALE: 1" = 30'  
NORTH





BENCH MARKS

**FINAL SITE LAYOUT PLAN**  
SCALE: 1" = 30'  
NORTH

PLT: INF: VANZEE/KASDORF/CIVIL/CP24092/CP24092\_FINAL\_SITELAYOUT.dwg DATE: 3/28/2025 TIME: 12:52:38 AM USER: TOSMAN



PLT: INF2\_2A282424BBB/CAD/CD/CI/241885/DWG LAYOUT: CI DATE: 3/28/2025 TIME: 8:32:59 AM USER: TOSMAN

MICHIGAN 811  
3 full working days before you dig  
1-800-482-7171  
on the web at: www.missdg.org

**fishbeck**  
Engineers | Architects | Scientists | Constructors  
Proj. No.: 241880  
Des. By: H.BOWERS  
Designer: TOSMAN  
Reviewer: TOSMAN  
Manager: TOSMAN

Infrastructure Planning and Facilities  
**MICHIGAN STATE UNIVERSITY**



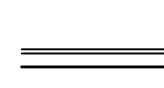
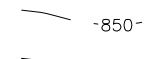
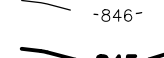
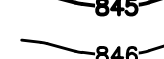

CENTRAL SERVICES - DEMOLITION  
CP24092

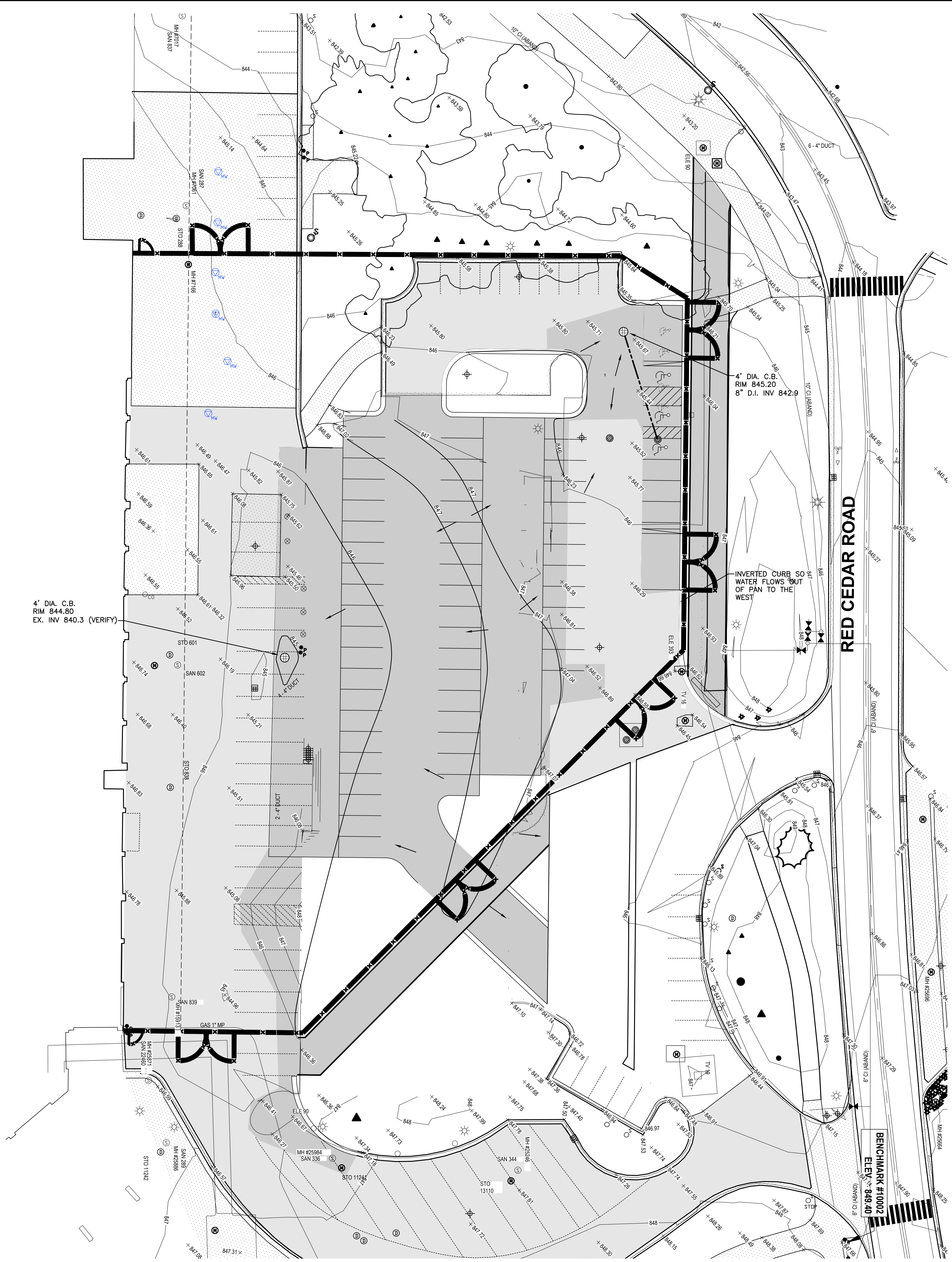
MSU PROJ. NO.  
CP24092  
PRJ. MGR. VANZEE  
ARCH. KASDORF  
MECH. HOPPER  
ELEC. BEACH  
CIVIL GARDNER  
L.A. WILBER  
INT. DES. \_\_\_\_\_  
CONST. REP. \_\_\_\_\_  
APPR. \_\_\_\_\_  
DATE \_\_\_\_\_  
SCALE AS NOTED  
ISSUED  
BIDS 3/28/2025

SITE GRADING PLAN  
**C11**  
10 OF 12

BENCH MARKS

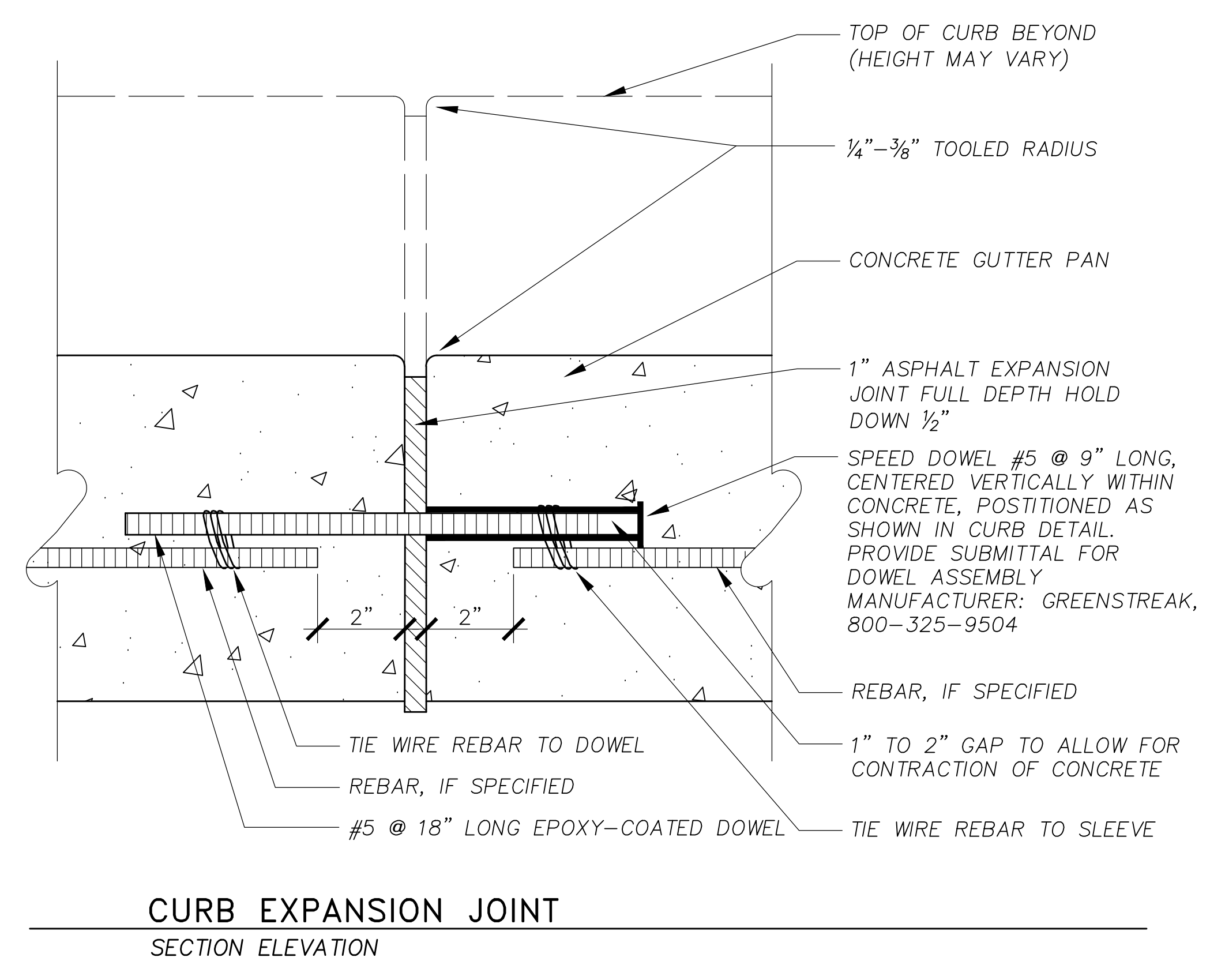
SYMBOL LEGEND

-  ASPHALT PAVEMENT
-  CONCRETE PAVEMENT
-  CURB AND GUTTER
-  EXISTING MAJOR CONTOUR
-  EXISTING MINOR CONTOUR
-  PROPOSED MAJOR CONTOUR
-  PROPOSED MINOR CONTOUR

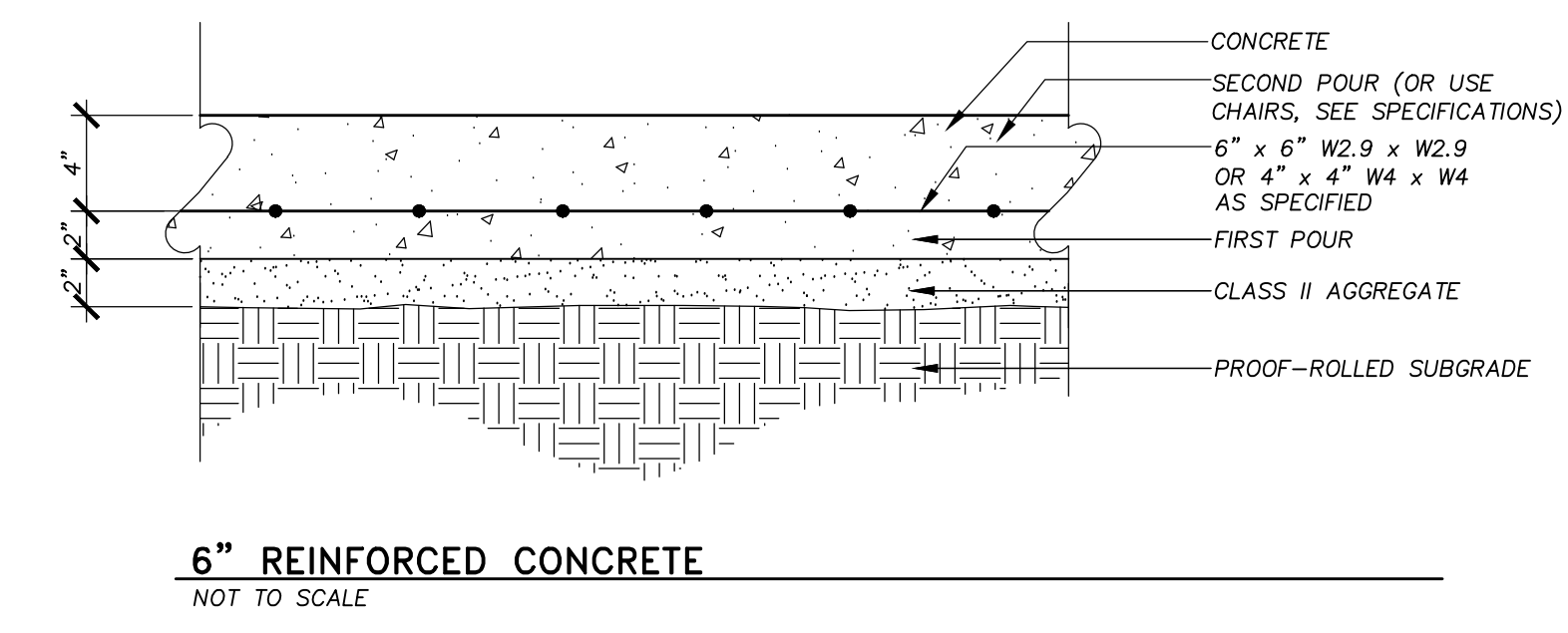


**SITE GRADING PLAN**  
SCALE: 1" = 20'  
NORTH

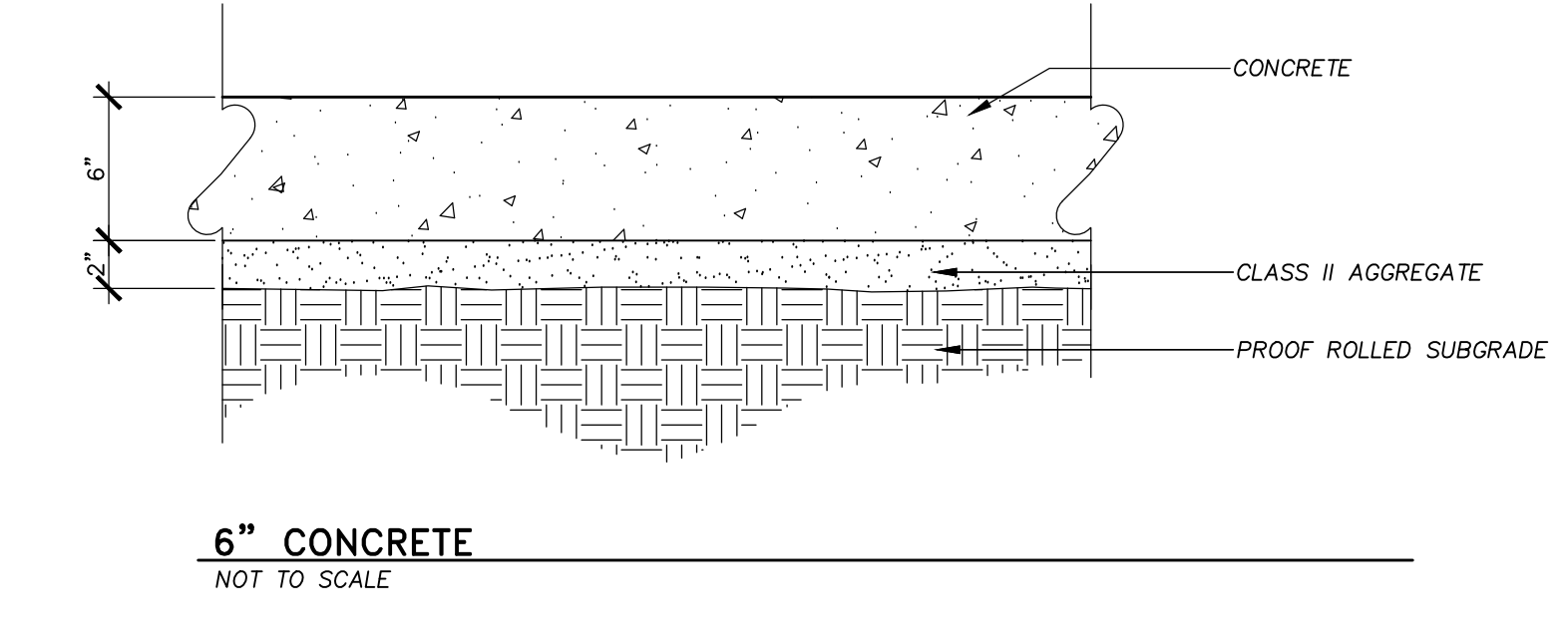




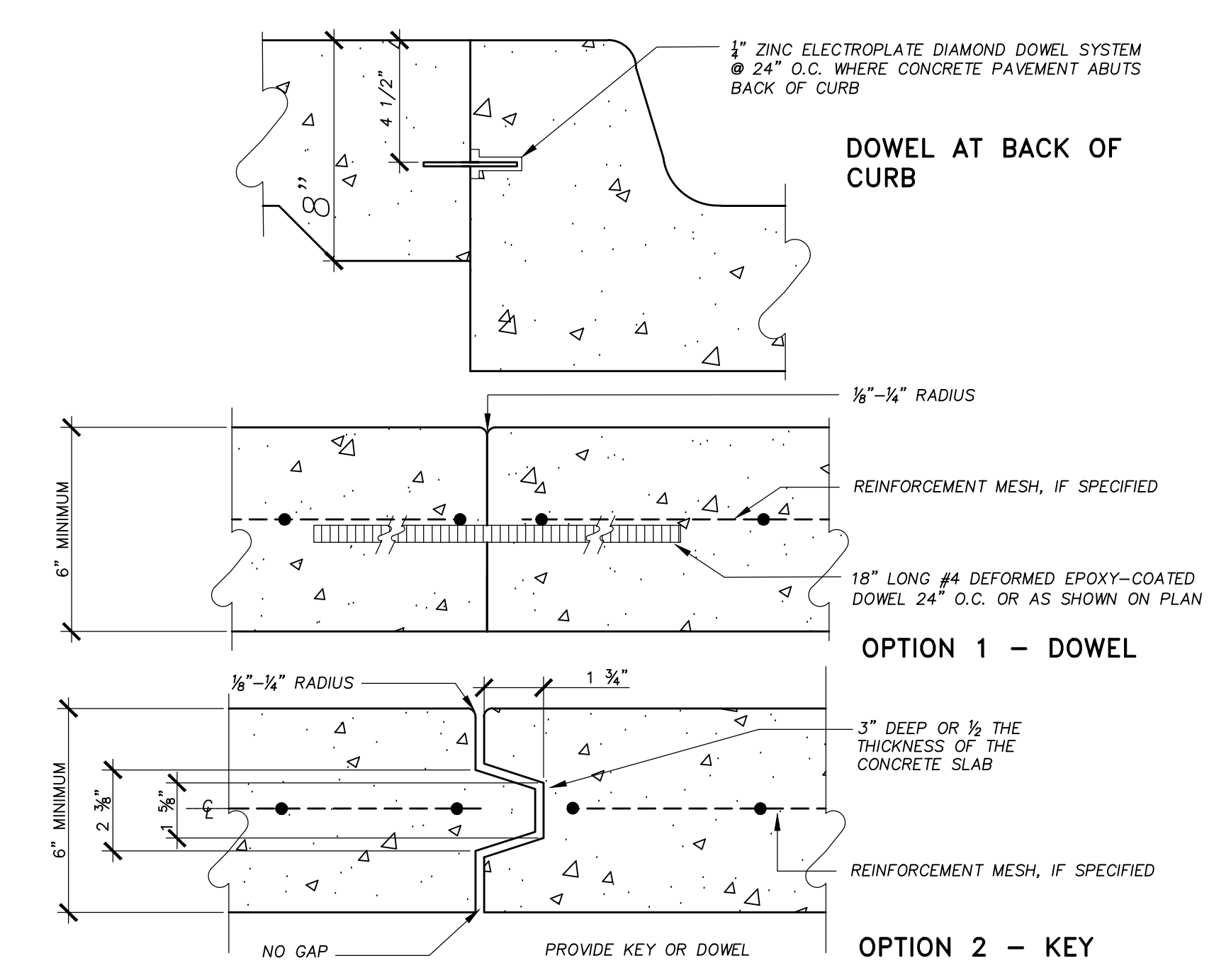
**CURB EXPANSION JOINT**  
 SECTION ELEVATION



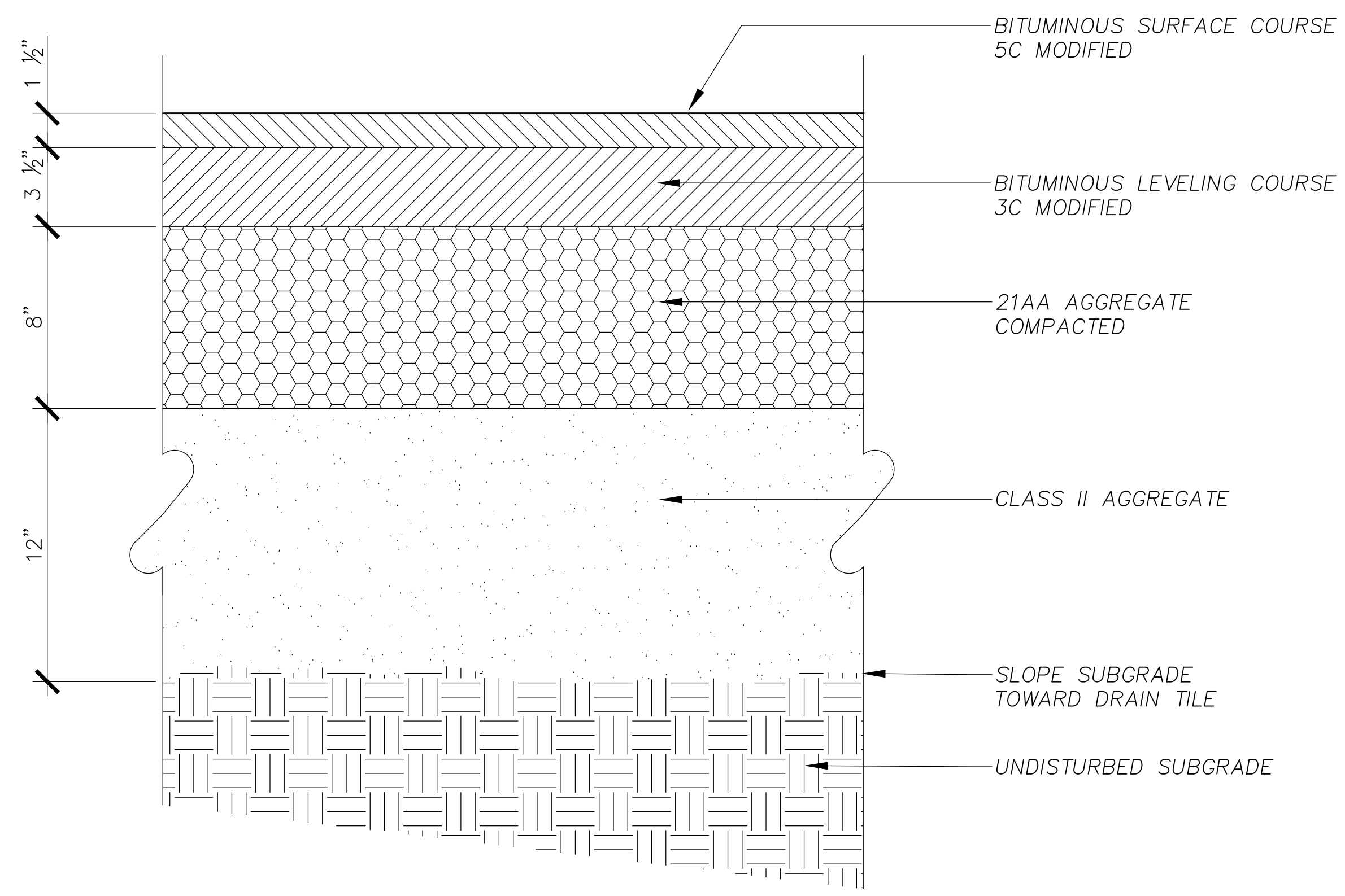
**6\"/>
 REINFORCED CONCRETE**  
 NOT TO SCALE



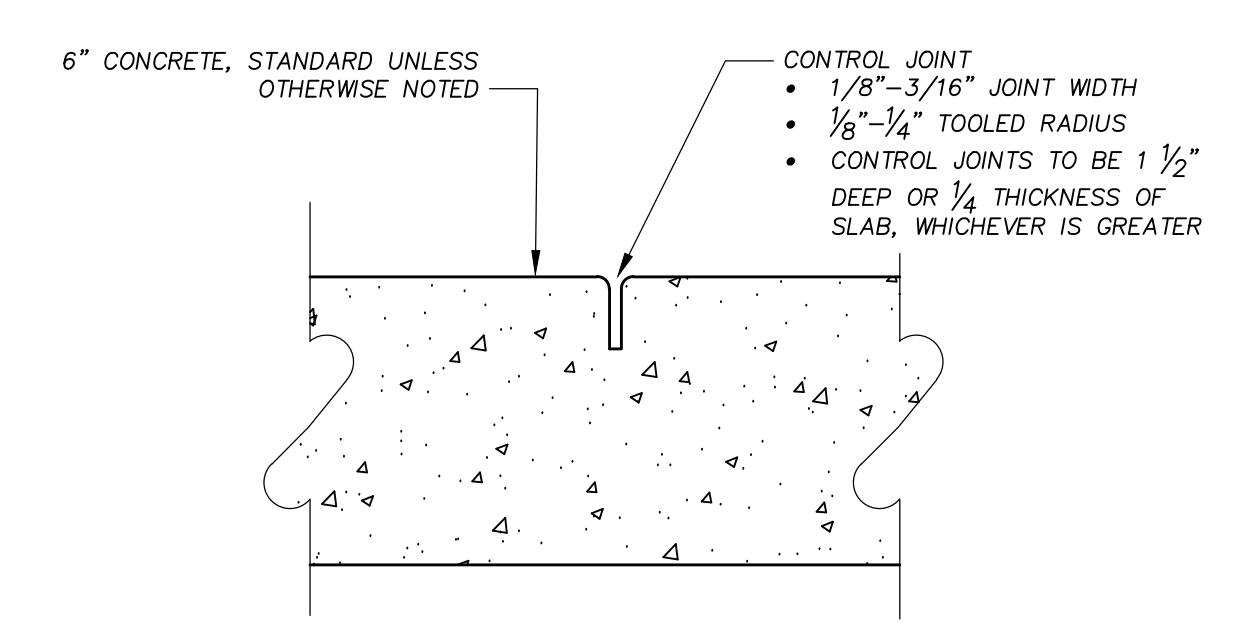
**6\"/>
 CONCRETE**  
 NOT TO SCALE



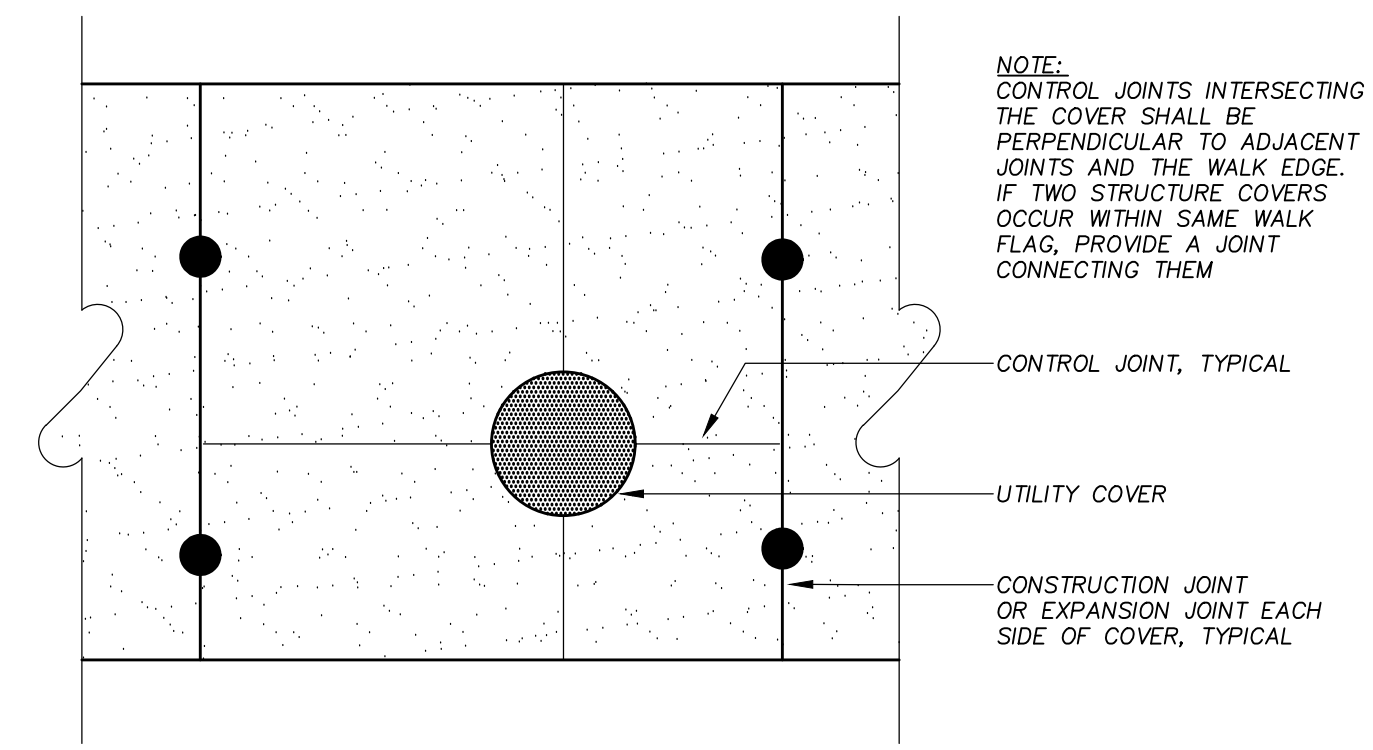
**CONSTRUCTION JOINTS**  
 NO SCALE



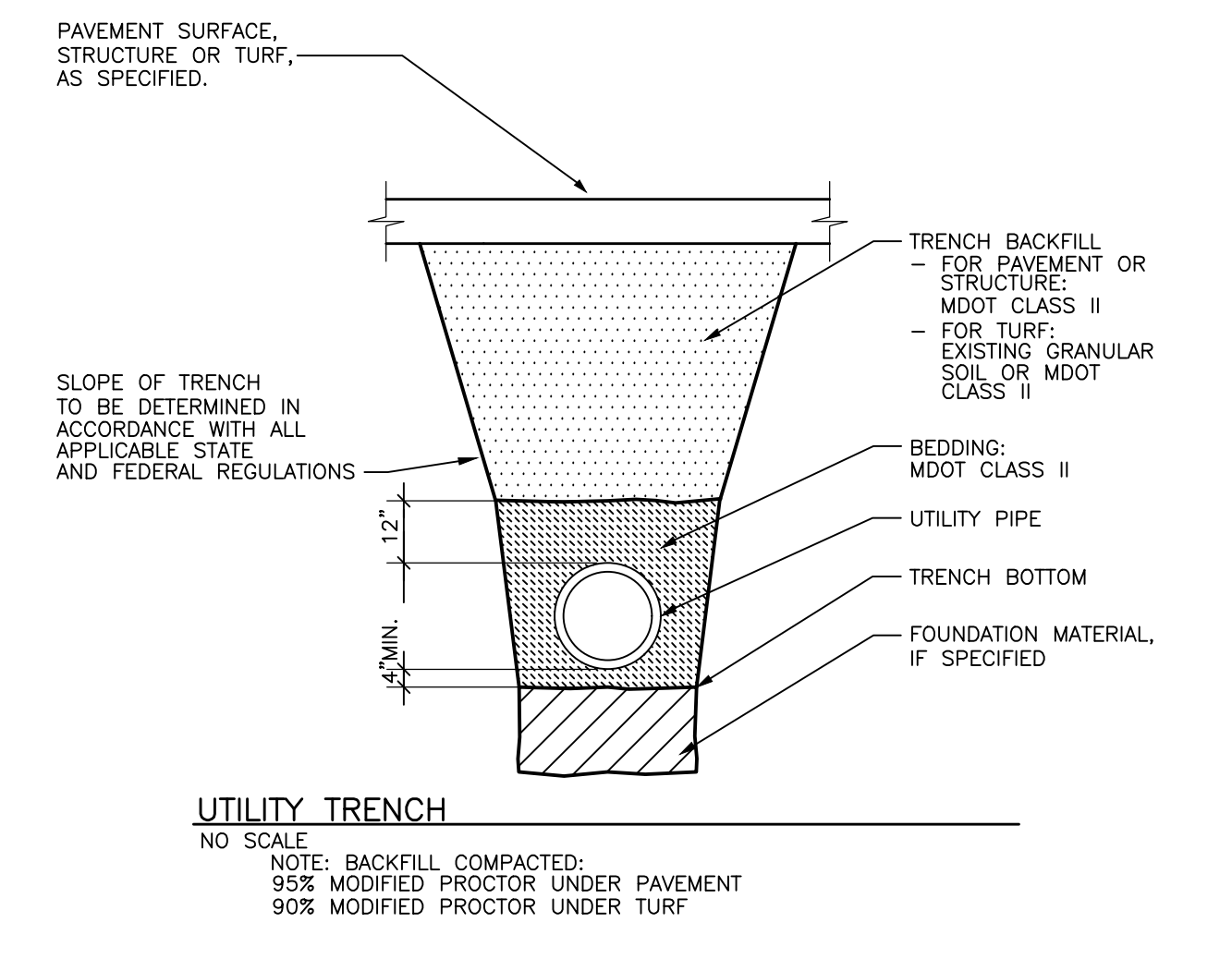
**ROAD & SERVICE AREA BITUMINOUS PAVEMENT SECTION**  
 NO SCALE



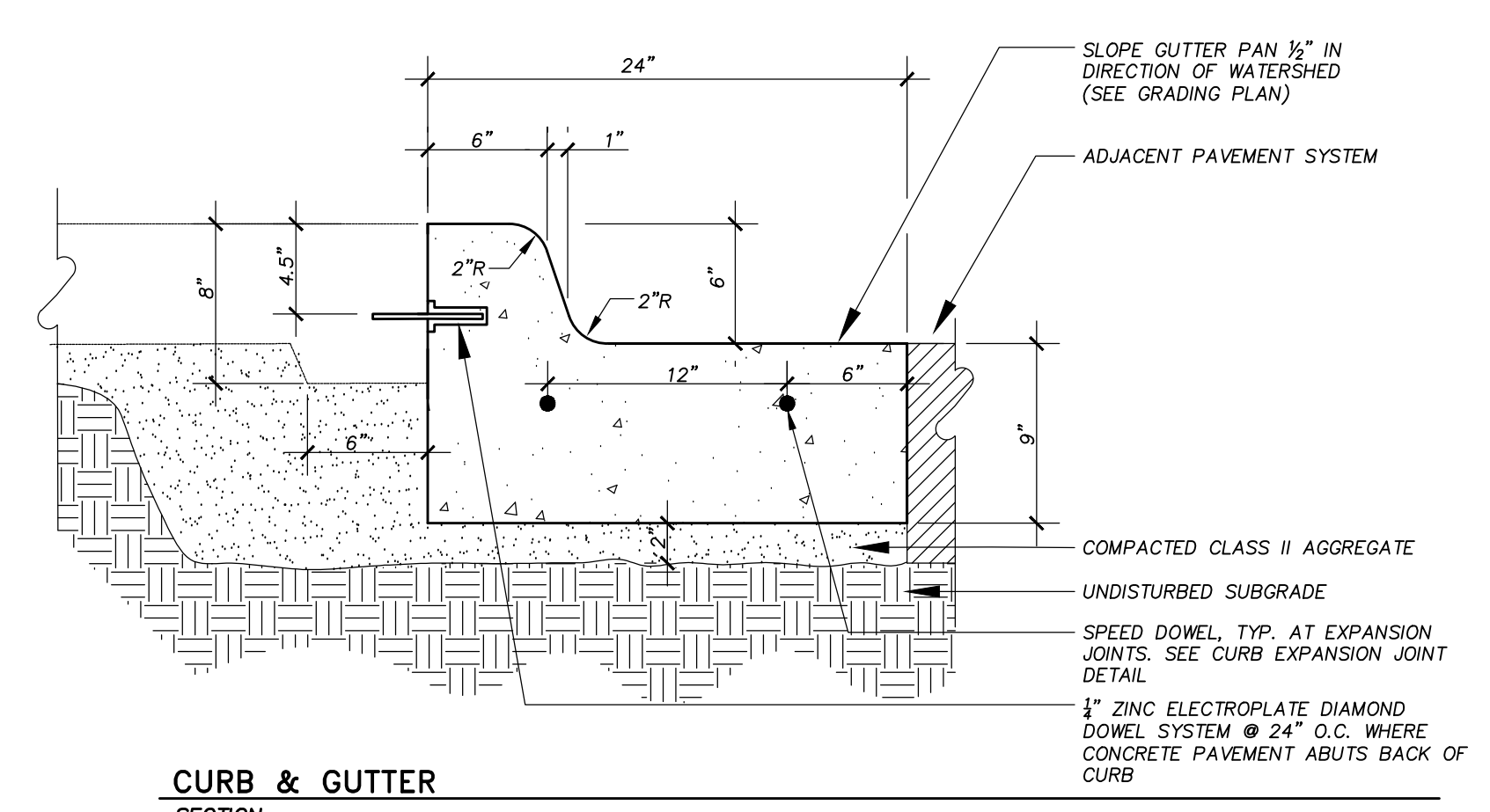
**CONCRETE CONTROL JOINT**  
 NO SCALE



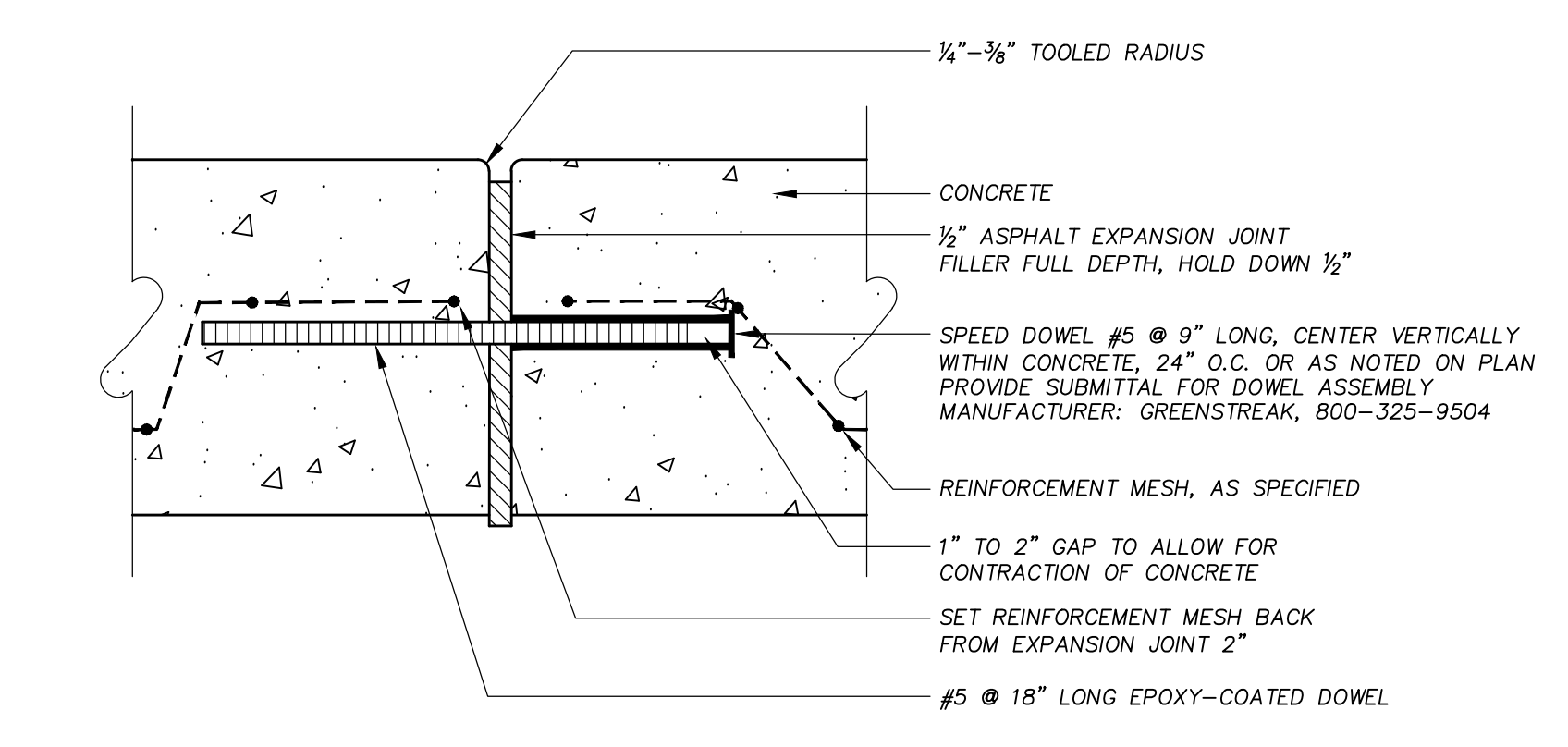
**JOINTING AT UTILITY COVERS**  
 NO SCALE



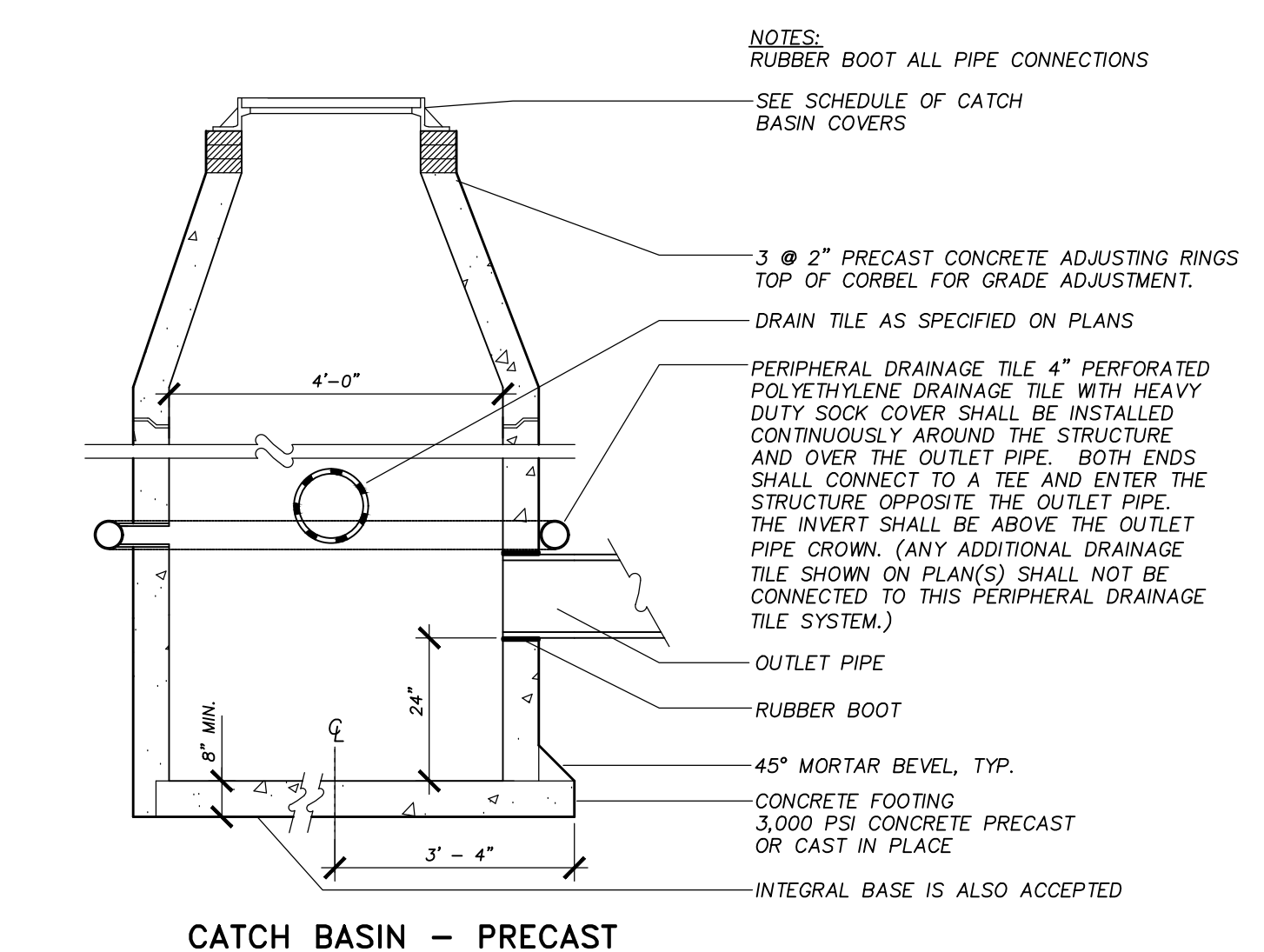
**UTILITY TRENCH**  
 NO SCALE



**CURB & GUTTER**  
 SECTION



**EXPANSION JOINT SECTION**  
 NO SCALE

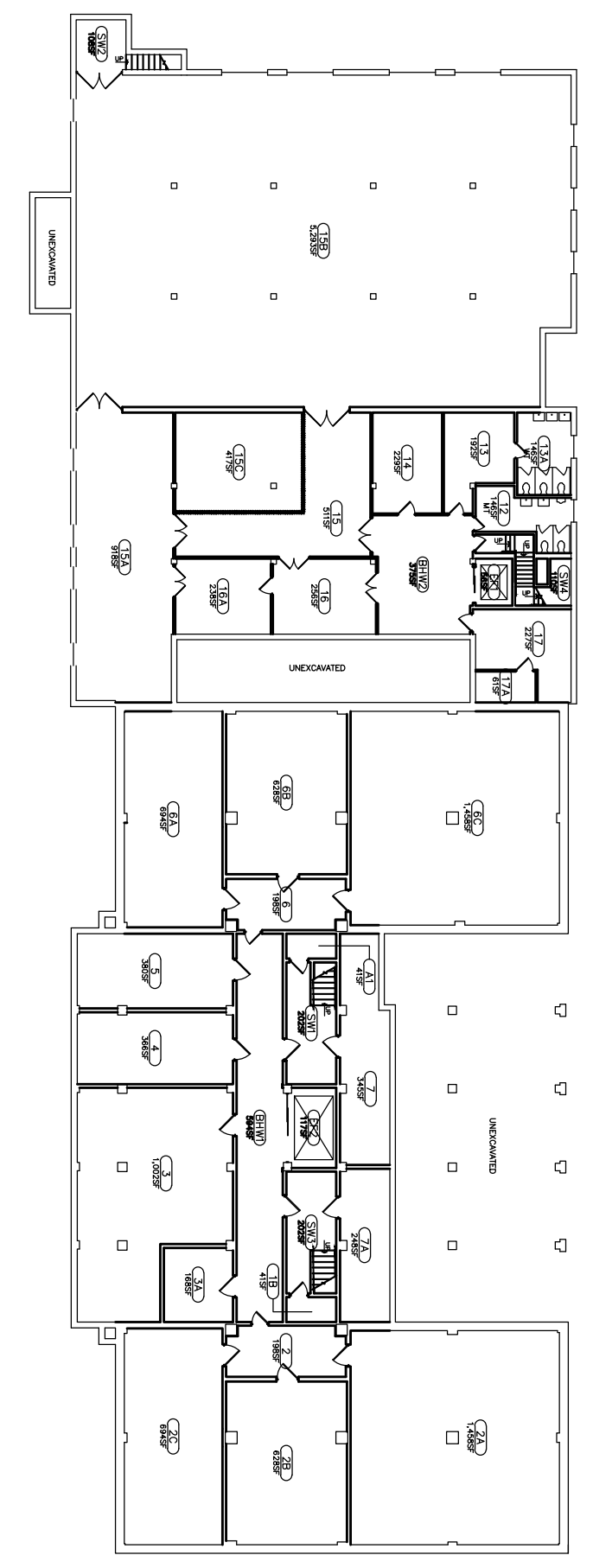


**CATCH BASIN - PRECAST**  
 NO SCALE

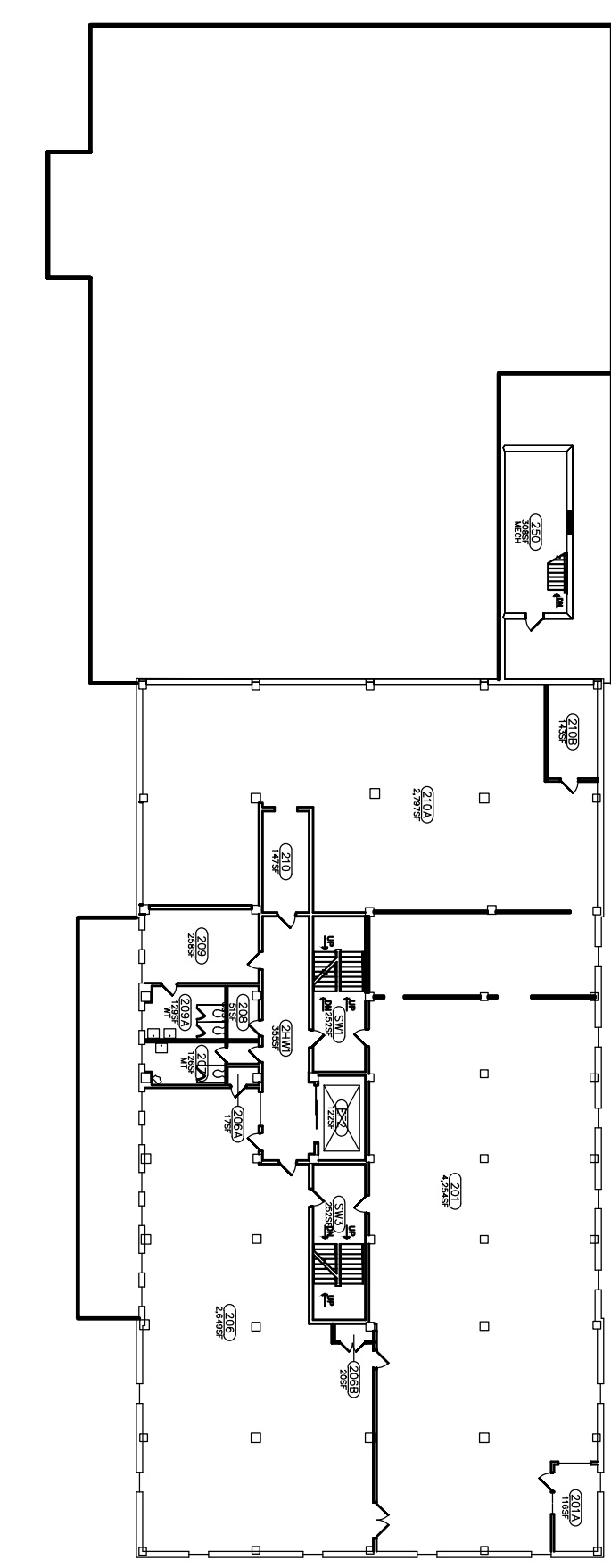
PLT: INF-24092A-CURBANDGUTTER.CIP-24092A.DWG DATE: 2/28/2025 TIME: 5:56:59 AM USER: TOSMAN LAYOUT: CIP



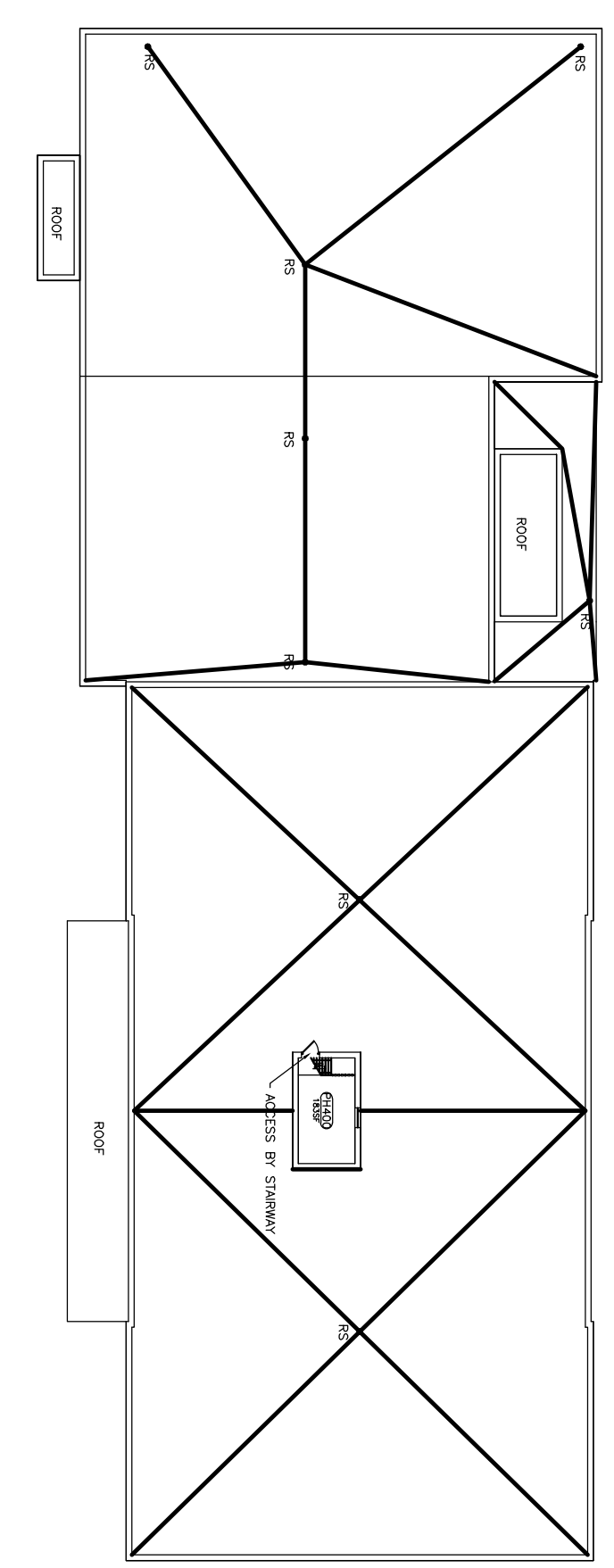
© COPYRIGHT 2025 ALL RIGHTS RESERVED



**BASEMENT FLOOR PLAN**  
 NORTH

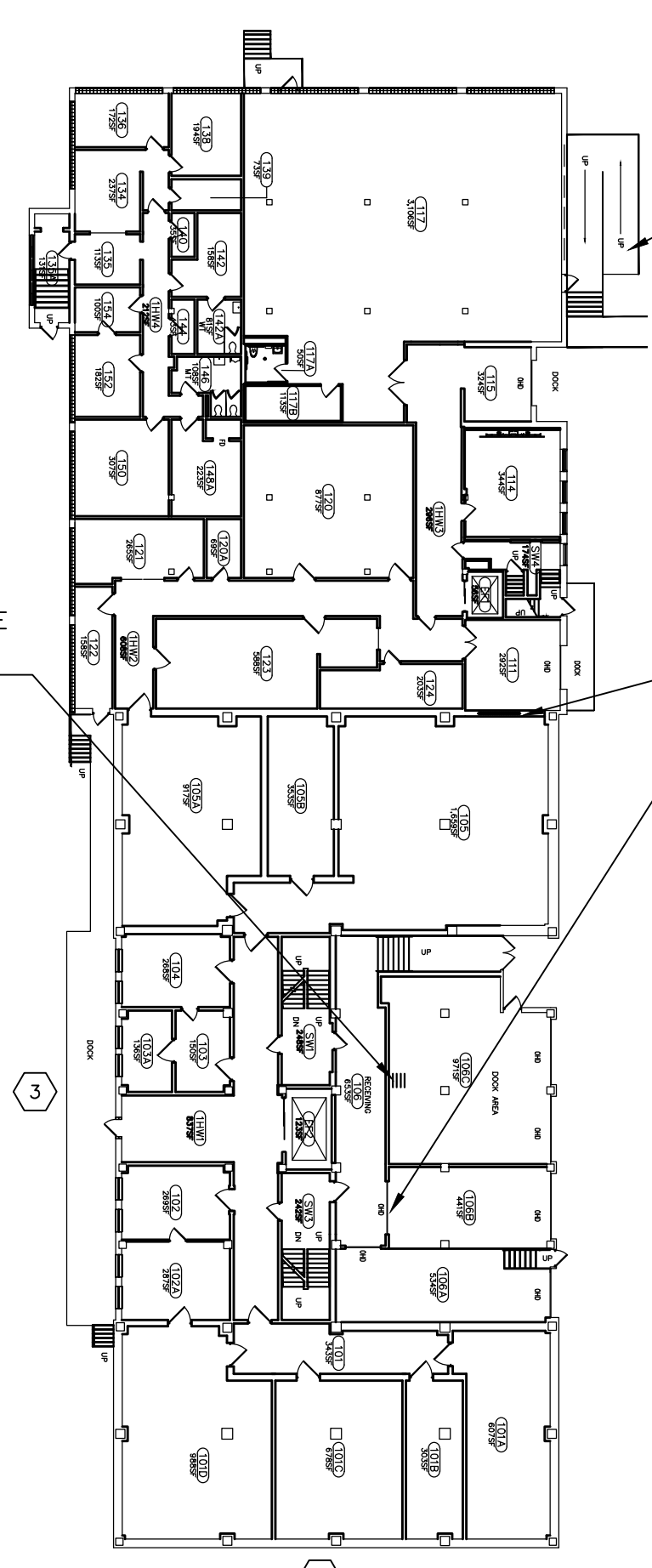


**SECOND FLOOR PLAN**  
 NORTH



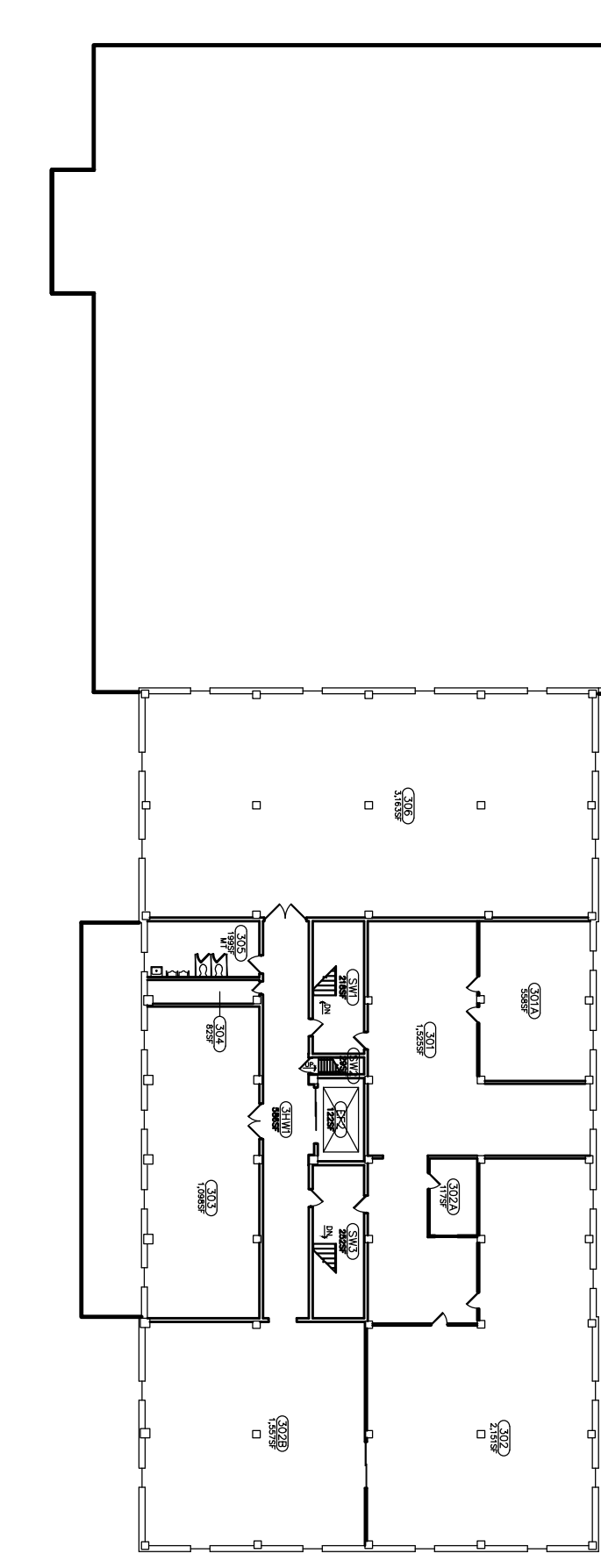
**PENTHOUSE FLOOR PLAN**  
 NORTH

- GENERAL SALVAGE NOTES**
- SALVAGE ALL SPRINKLER CONTROL VALVES, FIRE ALARM DEVICES AND ANNUNCIATOR PANEL AND TURN OVER TO MSU.
  - FREIGHT ELEVATOR CONTROLLERS TO BE SALVAGED BY MSU ELEVATOR MECHANICS. COORDINATE AS NECESSARY PRIOR TO DEMOLITION OPERATIONS.
  - ELEVATOR CARS TO BE DISCONNECTED AND DECOMMISSIONED BY MSU. CYLINDER OIL SHALL BE REMOVED AND PROPERLY DISPOSED OF BY CONTRACTOR IN COORDINATION WITH MSU EHS.

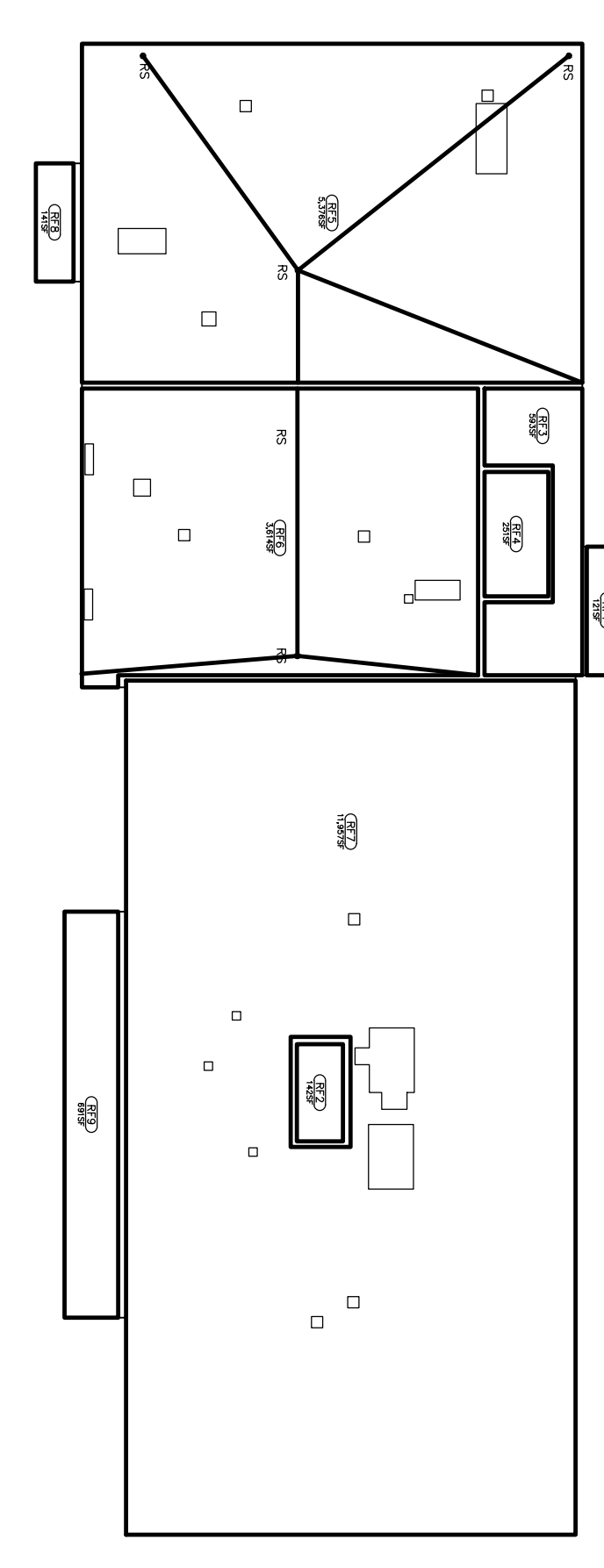


**FIRST FLOOR PLAN**  
 NORTH

- SALVAGE ADA RAMP SYSTEM AND TURN OVER TO MSU. COORDINATE AS NECESSARY PRIOR TO DEMOLITION OPERATIONS.
- SALVAGE OVERHEAD COILING DOORS AND ASSOCIATED CONTROLS AND TURN OVER TO MSU. COORDINATE AS NECESSARY PRIOR TO DEMOLITION OPERATIONS.



**THIRD FLOOR PLAN**  
 NORTH



**ROOF FLOOR PLAN**  
 NORTH

- DEMOLITION/SALVAGE KEY NOTES**
- BUS CHARGERS TO BE REMOVED BY MSU. SEE SHEET C7 FOR LOCATION AND QUANTITY. COORDINATE AS NECESSARY PRIOR TO DEMOLITION OPERATIONS.
  - BUILDING TRANSFORMERS TO BE REMOVED AND STORED BY MSU FOR REUSE FOR SITE POWER. SEE SHEET C7 FOR LOCATION AND QUANTITY. COORDINATE AS NECESSARY PRIOR TO DEMOLITION OPERATIONS.
  - DISCONNECT (5) EV CHARGERS AND TURN OVER TO MSU. SEE SHEET C7 FOR SITE LOCATION. COORDINATE AS NECESSARY PRIOR TO DEMOLITION OPERATIONS.

**CENTRAL SERVICES - DEMOLITION**

CP24092

MSU PROJ. NO.  
 CP24092

PRJ. MGR.	VANZEE
ARCH.	KASDORF
MECH.	HOPPER
ELEC.	BEACH
CIVIL	GARDNER
L.A.	WILBER
INT. DES.	
CONST. REP.	
APPR.	
DATE	
SCALE	AS NOTED
ISSUED	
BIDS	3/28/2025

FLOOR PLANS

**C13**

12 OF 12

PLT: INF: Z:\2024\241880\CON\CD\13-24\BIBBING\_LAYOUT\_03 DATE: 3/26/2025 TIME: 10:46 PM USER: TOSMAN