

FAIRFIELD MAINTENANCE FACILITY NEW EXTERIOR WALL AND INSULATION

207 E. 227th Street
Fairfield, IA 52556

Project: BG-2F34(002)—80-51



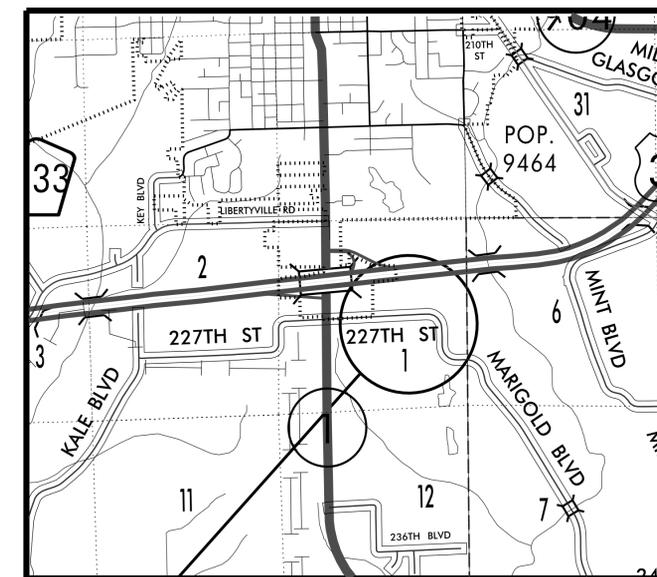
INDEX OF DRAWINGS:

SHEET NO.	SHEET NAME
01	A-1 FLOOR PLAN
02	A-2 ELEVATIONS
03	A-3 SITE PHOTOS
04	A-4 DETAILS
05	A-5 DETAILS AND STRUCTURAL INFORMATION

OFFICE OF SUPPORT SERVICES
800 LINCOLN WAY, AMES, IOWA 50010

FOR CONSTRUCTION QUESTIONS CALL:
BRENDA WILDER (515) 239-1301

FOR CONTRACT DOCUMENT QUESTIONS CALL:
RHONDA RUARK (515) 239-1285

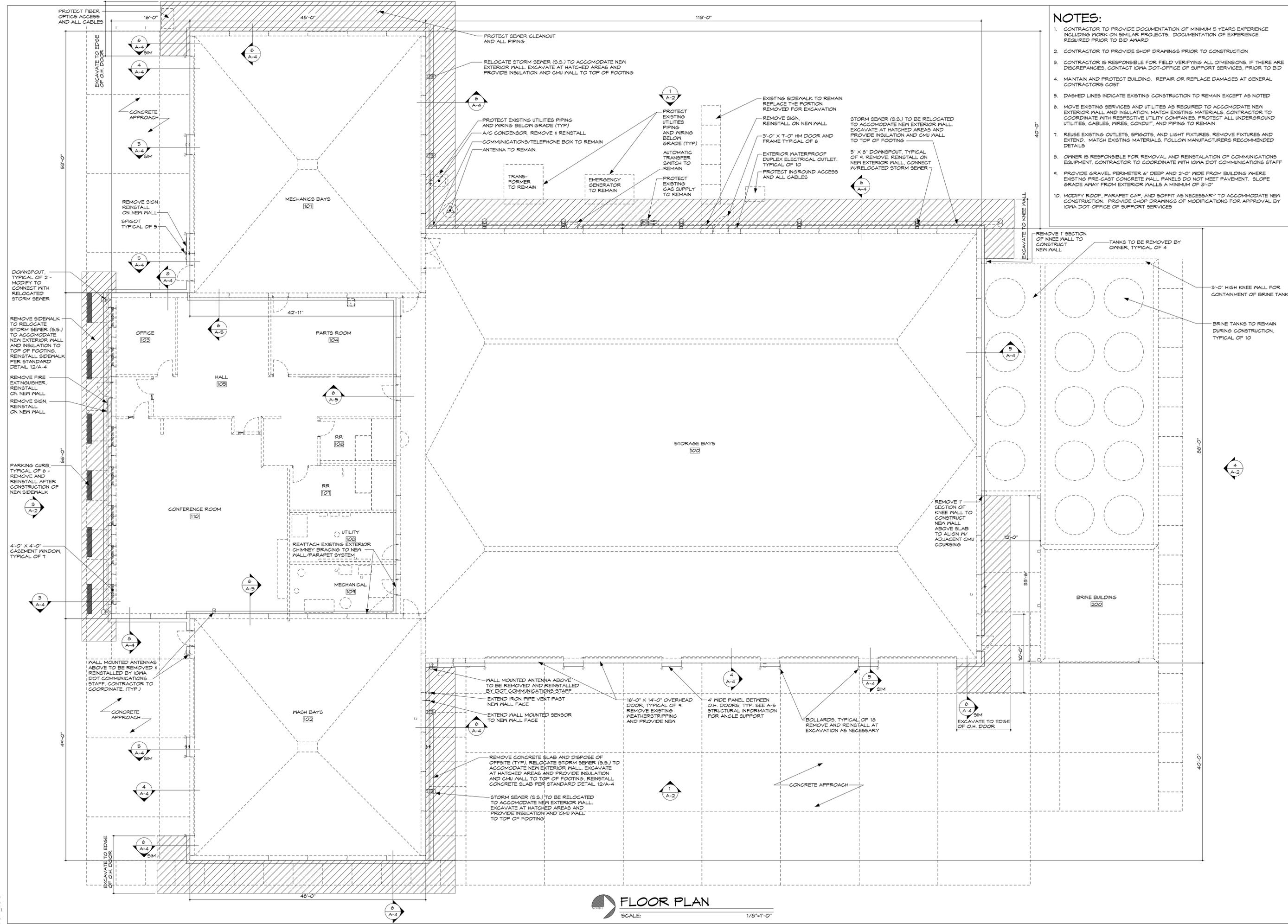


PROJECT LOCATION



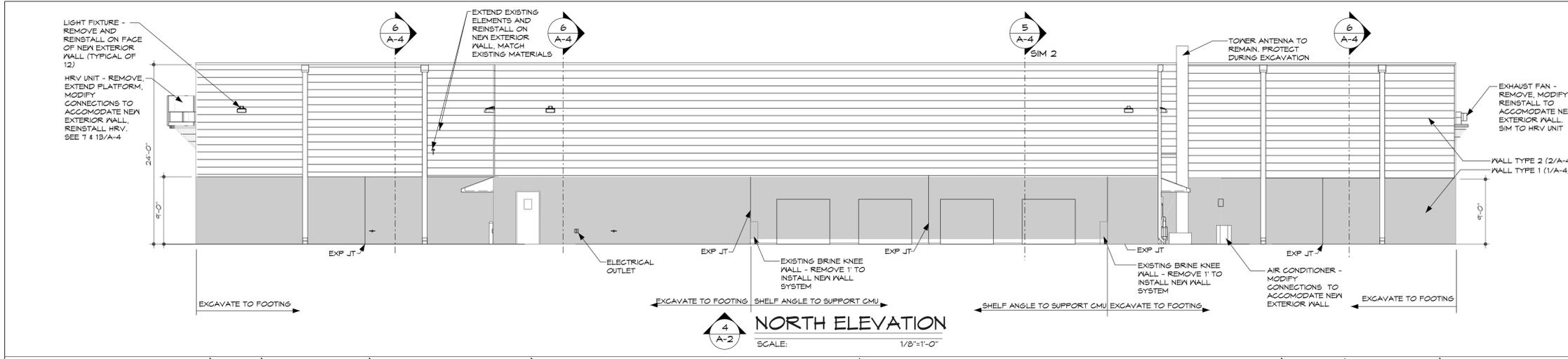
NOTES:

1. CONTRACTOR TO PROVIDE DOCUMENTATION OF MINIMUM 5 YEARS EXPERIENCE INCLUDING WORK ON SIMILAR PROJECTS. DOCUMENTATION OF EXPERIENCE REQUIRED PRIOR TO BID AWARD
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO CONSTRUCTION
3. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS. IF THERE ARE DISCREPANCIES, CONTACT IOWA DOT-OFFICE OF SUPPORT SERVICES, PRIOR TO BID
4. MAINTAIN AND PROTECT BUILDING. REPAIR OR REPLACE DAMAGES AT GENERAL CONTRACTORS COST
5. DASHED LINES INDICATE EXISTING CONSTRUCTION TO REMAIN EXCEPT AS NOTED
6. MOVE EXISTING SERVICES AND UTILITIES AS REQUIRED TO ACCOMMODATE NEW EXTERIOR WALL AND INSULATION. MATCH EXISTING MATERIALS. CONTRACTOR TO COORDINATE WITH RESPECTIVE UTILITY COMPANIES. PROTECT ALL UNDERGROUND UTILITIES, CABLES, WIRES, CONDUIT, AND PIPING TO REMAIN
7. REUSE EXISTING OUTLETS, SPIGOTS, AND LIGHT FIXTURES. REMOVE FIXTURES AND EXTEND. MATCH EXISTING MATERIALS. FOLLOW MANUFACTURERS RECOMMENDED DETAILS
8. OWNER IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF COMMUNICATIONS EQUIPMENT. CONTRACTOR TO COORDINATE WITH IOWA DOT COMMUNICATIONS STAFF
9. PROVIDE GRAVEL PERIMETER 6" DEEP AND 2'-0" WIDE FROM BUILDING WHERE EXISTING PRE-CAST CONCRETE WALL PANELS DO NOT MEET PAVEMENT. SLOPE GRADE AWAY FROM EXTERIOR WALLS A MINIMUM OF 8'-0"
10. MODIFY ROOF, PARAPET CAP, AND SOFFIT AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION. PROVIDE SHOP DRAWINGS OF MODIFICATIONS FOR APPROVAL BY IOWA DOT-OFFICE OF SUPPORT SERVICES

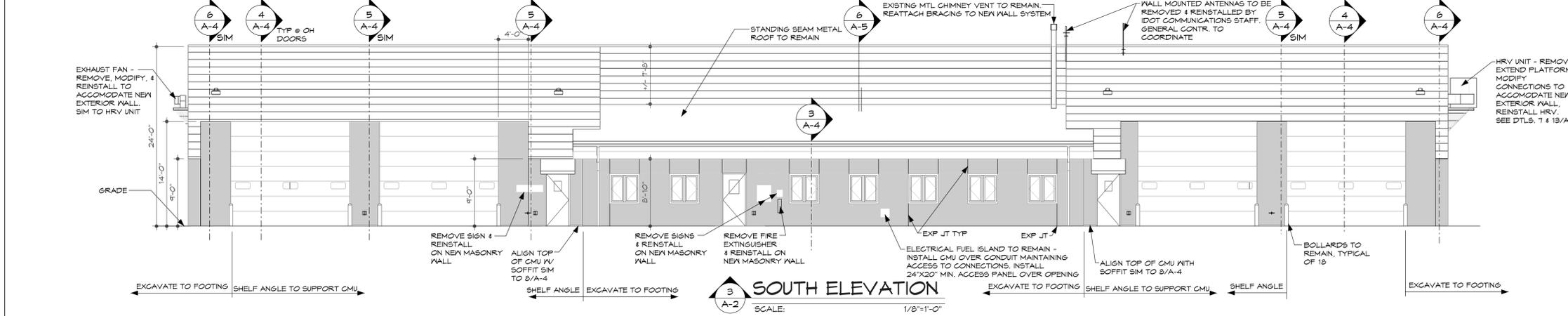


FLOOR PLAN
 SCALE: 1/8"=1'-0"

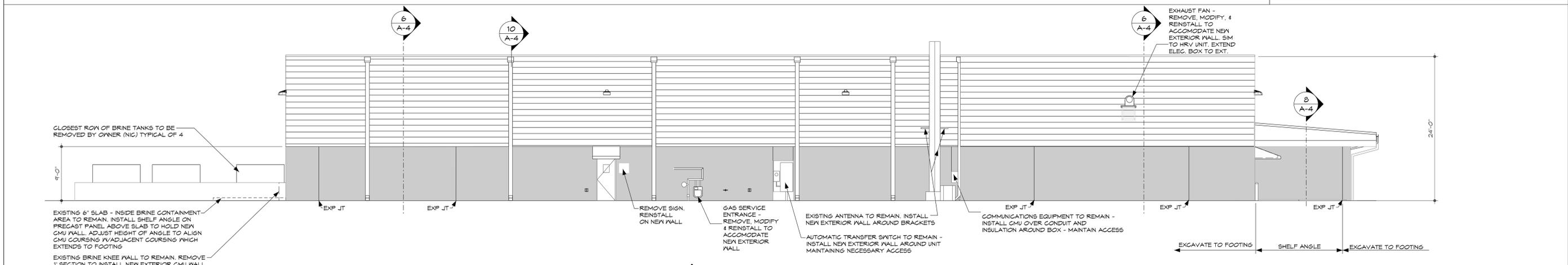
DGN LOC



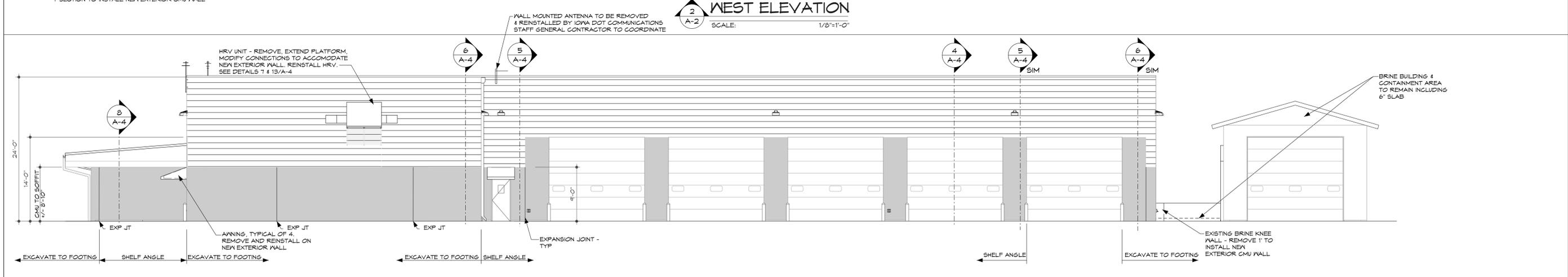
4 NORTH ELEVATION
SCALE: 1/8"=1'-0"



3 SOUTH ELEVATION
SCALE: 1/8"=1'-0"



2 WEST ELEVATION
SCALE: 1/8"=1'-0"



1 EAST ELEVATION
SCALE: 1/8"=1'-0"

- NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS. IF THERE ARE DISCREPANCIES, CONTACT IOWA DOT PRIOR TO BID.
 - MAINTAIN AND PROTECT BUILDING. REPAIR OR REPLACE DAMAGES AT GENERAL CONTRACTORS COST.
 - CONTRACTOR TO MAINTAIN PASSAGE DOORS AND OVERHEAD DOORS OVERALL OPENING SIZES.
 - EXISTING SUBSTRATE IS RAKED FINISH PRECAST CONCRETE PANELS. TYPICAL PANEL WIDTH IS 8'-0". WELD PLATES ARE LOCATED BETWEEN PANELS ON THE INTERIOR. PANEL THICKNESS IS 11'-0".
 - GAS AND OTHER AFFECTED UTILITIES TO BE MOVED BY GENERAL CONTRACTOR AS REQUIRED. COORDINATE WITH IOWA DOT - OFFICE OF SUPPORT SERVICES AND UTILITY COMPANY.
 - REMOVE AND REPLACE PARAPET CAP COLOR TO MATCH EXISTING. PARAPET CAP ASSEMBLY BY CONTRACTOR. PROVIDE SHOPS TO BE APPROVED BY IOWA DOT - OFFICE OF SUPPORT SERVICES.
 - REMOVE AND REINSTALL BUILDING SIGNAGE.
 - MODIFY AND EXTEND SCUPPERS. REMOVE, STORE AND REINSTALL DOWNSPOUTS ON NEW EXTERIOR WALL.
 - MODIFY AND EXTEND ALL ELECTRICAL FIXTURES AND CONDUITS AS NECESSARY TO ACCOMMODATE NEW EXTERIOR. MATCH ALL EXISTING MATERIALS.
 - MODIFY AND EXTEND ALL SPIGOTS TO ACCOMMODATE NEW EXTERIOR. MATCH ALL EXISTING MATERIALS.
 - REMOVE AND REINSTALL FOUR DOOR AWNINGS.
 - OWNER IS RESPONSIBLE FOR REMOVAL OF COMMUNICATIONS EQUIPMENT. CONTRACTOR TO COORDINATE WITH IOWA DOT COMMUNICATIONS STAFF.
 - INSTALL NEW EXTERIOR WALL, FLASHING, AND SEALANT AROUND EXISTING ANTENNA SUPPORT. MAINTAIN EXISTING ANTENNA SUPPORT.
 - REMOVE AND REINSTALL EXISTING EXHAUST FAN AND HRV UNIT. MODIFY ELECTRICAL AND DUCT WORK. EXTEND SUPPORT PLATFORM ON EXISTING BRACKETS, TO ACCOMMODATE NEW EXTERIOR. MATCH EXISTING MATERIALS. SEE DTLS. T & 13/A-4.
 - MODIFY, EXTEND AIR CONDITIONING PENETRATIONS FOR NEW EXTERIOR. MATCH EXISTING MATERIALS. REMOVE ELECTRICAL CONNECTION AND REINSTALL ON NEW EXTERIOR WALL.
 - NEW STRUCTURAL INSULATED PANELS (SIPS) TO BE MECHANICALLY ANCHORED WITH CORROSION RESISTANT MECHANICAL FASTENERS TO 2 X 4 FURRING STRIPS PER MANUFACTURER'S SPECIFICATIONS. PROVIDE A STRAIGHT AND TRUE WALL, COMPENSATING FOR THE UNEVEN DEPTH OF THE EXISTING WALL DUE TO CHARACTERISTICS OF THE MATERIALS AND FINISH TECHNIQUES. THIS SHALL PROVIDE A BASE TO FASTEN CEMENT BOARD SIDING. FOLLOW SIPS MANUFACTURER'S RECOMMENDATION FOR COMPATIBLE AIR MOISTURE BARRIER WITH CORROSION RESISTANT MECHANICAL FASTENERS.
 - SECURE CMU WALL AND INSULATION TO THE EXISTING PRECAST WALL PANELS WITH CORROSION RESISTANT MECHANICAL FASTENERS.
 - AT LOCATIONS OF STEEL ANGLE SUPPORTED CMU WALL-GROUT CONCRETE PANEL RIBS SOLID FROM GROUND LEVEL TO 1'-6" HIGH TO PROVIDE SOLID BASE TO ATTACH STRUCTURAL STEEL ANGLE AND FLASHING TO HOLD NEW CMU WALL. ANCHOR STEEL ANGLE TO BUILDING PERIMETER ABOVE GRADE PER WALL SECTIONS ON SHEETS A-4 AND A-5.
 - AT NORTH SIDE OF BUILDING IN CONTAINMENT AREA WHERE 6" CONCRETE SLAB EXISTS ABOVE GRADE. LOCATE STRUCTURAL STEEL SUPPORT ANGLE ABOVE SLAB TO MATCH CMU COURSING OF ADJACENT COURSING.
 - AT ALL HATCHED AREAS SHOWN ON PLAN, EXCAVATE A TRENCH TO CONSTRUCT NEW CMU WALL WITH INSULATION TO EXISTING FOOTINGS. SEE 6/A-4. RELOCATE EXISTING STORM SEWER AS NECESSARY TO ACCOMMODATE NEW EXTERIOR WALL. LOCATIONS OF STORM SEWER ARE NOTED ON PLAN. ADJUST HEIGHT OF BELOW GRADE CMU WALL TO MATCH ADJACENT COURSING OF ANGLE SUPPORTED CMU WALL.
 - DRAWINGS PROVIDED SHOW EXISTING CONDITIONS BASED ON CASUAL FIELD OBSERVATION ONLY. PLEASE SEE SPECIFICATIONS FOR PRODUCT REQUIREMENTS.
 - PROVIDE NEW WEATHER-STRIPPING AT ALL OVERHEAD DOORS.
 - STRUCTURAL INFORMATION ON SHEET A-5.

DGN_LOC

NOTES:
 1. PHOTOS ARE FOR CLARIFICATION PURPOSED ONLY. SITE VISIT IS HIGHLY RECOMMENDED PRIOR TO BIDDING.

DISTRICT: 05
 COUNTY: JEFFERSON
 PROJECT NUMBER: BG-2F34(002)-80-51

FAIRFIELD MAINTENANCE FACILITY-NEW EXTERIOR WALL AND INSULATION
 SITE PHOTOS

IOWADOT
 SMARTER SIMPLER CUSTOMER DRIVEN
 OFFICE OF SUPPORT SERVICES
 800 LINCOLN WAY
 AMES, IOWA 50010 (515) 239-1299

DATE: APRIL 27, 2015
 DRAWN BY: B WILDER
 APPROVED: J BURNES
 REVISIONS:

03 SHEET OF 5
 A-3



1. NORTH WEST CORNER OF GARAGE INCLUDING INTERCEPTOR LOCATION



2. PARTIAL WEST ELEVATION - SHOWING HOOP BUILDING IN DISTANCE, BRINE TANKS, AND GENERATOR



3. WEST ELEVATION 3'-0" X 7'-0" DOOR AND AWNING WITH GAS SERVICE AND AUTOMATIC TRANSFER SWITCH



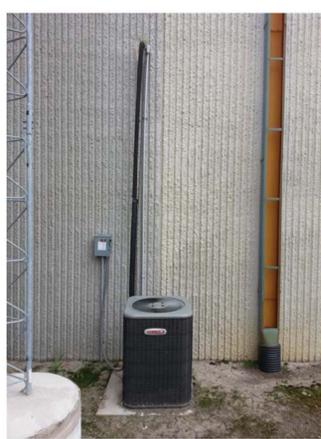
4. WEST ELEVATION - GAS SERVICE ENTRANCE



5. WEST ELEVATION - AUTOMATIC TRANSFER SWITCH



6. WEST ELEVATION - ANTENNA, COMMUNICATIONS/TELEPHONE SERVICE ENTRANCE AND AIR CONDENSOR UNIT



7. AIR CONDENSING UNIT



8. PARTIAL WEST ELEVATION SHOWING GENERATOR AND TRANSFORMER



9. SOUTHWEST CORNER OF GARAGE INCLUDING EXHAUST FAN



10. EXHAUST FAN



11. SOUTH ELEVATION



12. EAST ELEVATION INCLUDING BRINE BUILDING (SHED ROOF BETWEEN GARAGE & BRINE BUILDING HAS BEEN REMOVED.)



13. SOUTH EAST CORNER OF MAINTENANCE GARAGE AT WASH BAY - SHOWING HRV UNIT

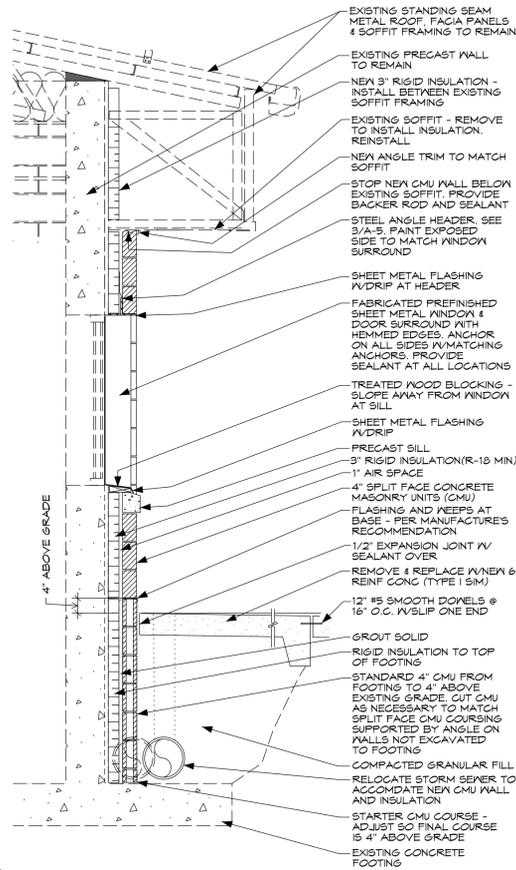


14. PARTIAL EAST ELEVATION (SHED ROOF BETWEEN GARAGE AND BRINE BUILDING HAS BEEN REMOVED)

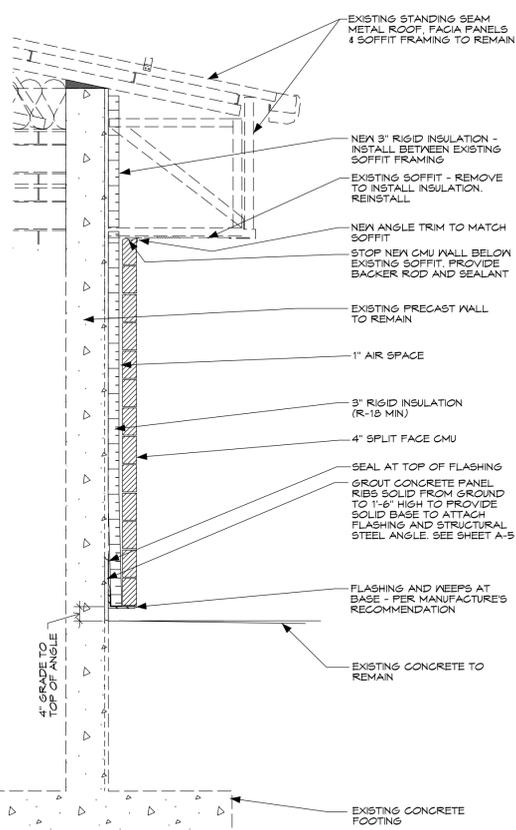


15. PARTIAL NORTH ELEVATION

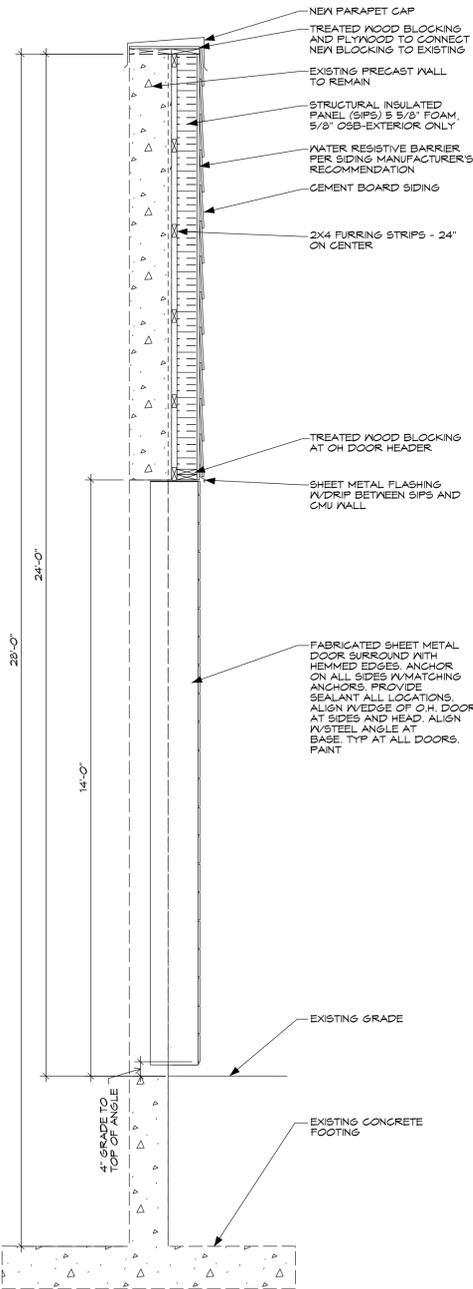
DGN_LOC



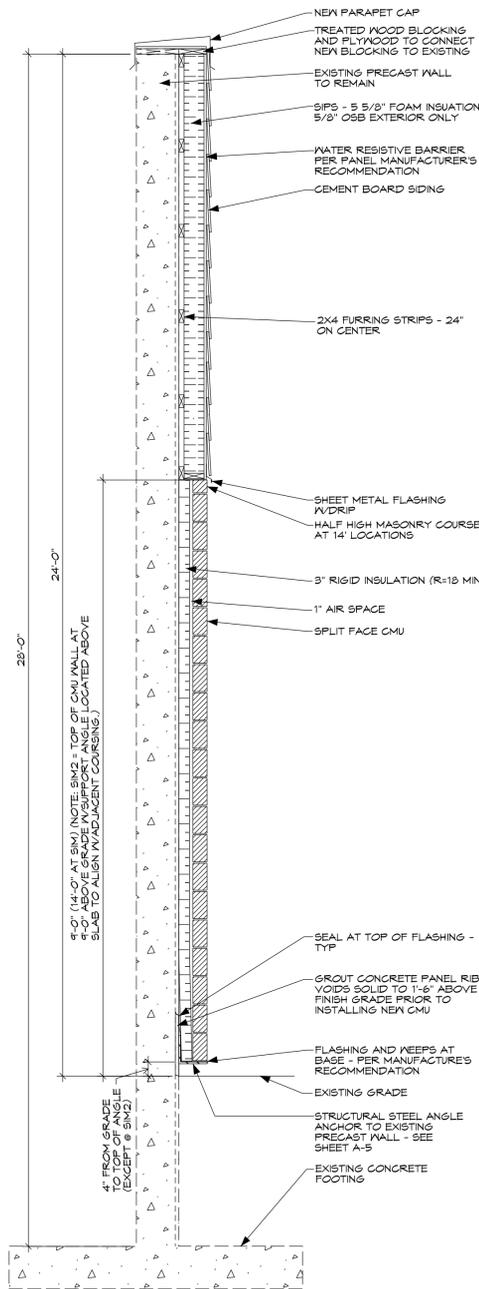
3 WALL SECTION @ OFFICE FRONT
A-4 SCALE: 1/2"=1'-0"



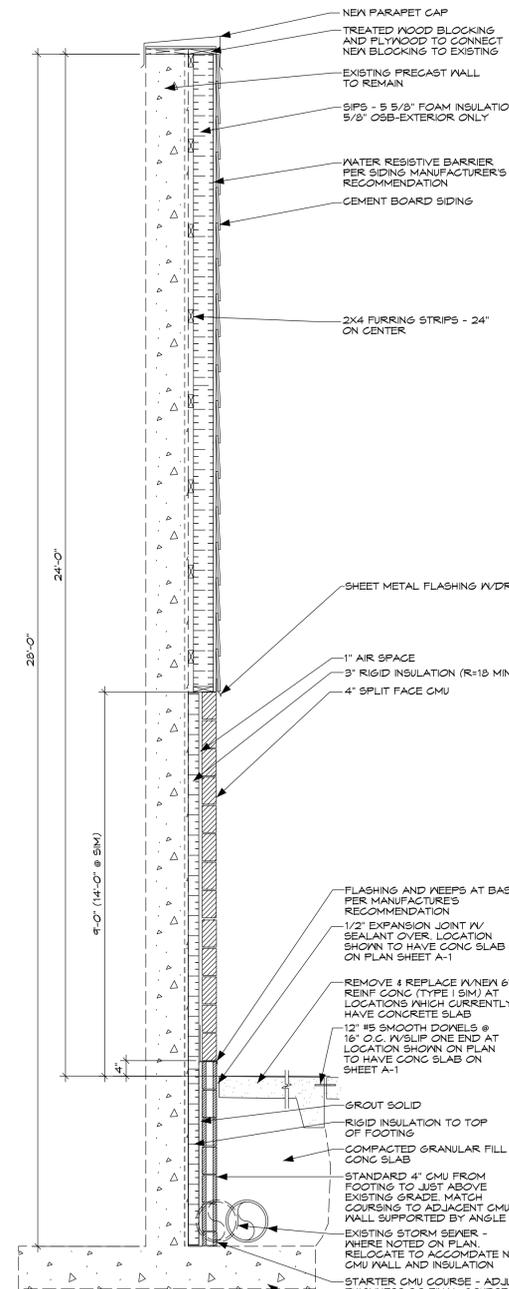
8 WALL SECTION @ OFFICE
A-4 SCALE: 1/2"=1'-0"



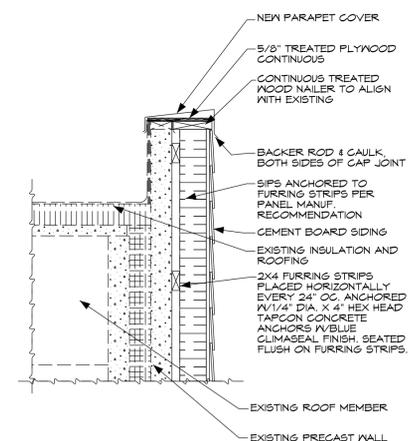
4 WALL SECTION @ O.H. DOORS
A-4 SCALE: 1/2"=1'-0"



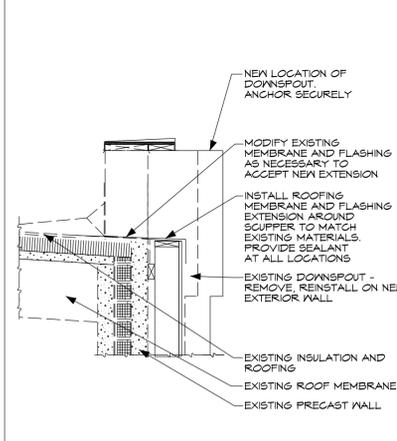
5 WALL SECTION @ NON-HATCHED AREA
A-4 SCALE: 1/2"=1'-0"



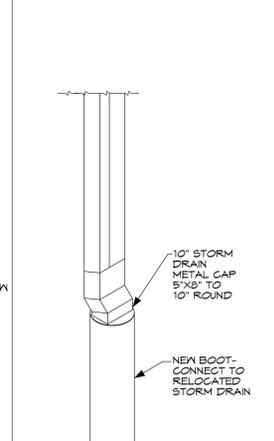
6 WALL SECTION @ HATCHED AREAS
A-4 SCALE: 1/2"=1'-0"



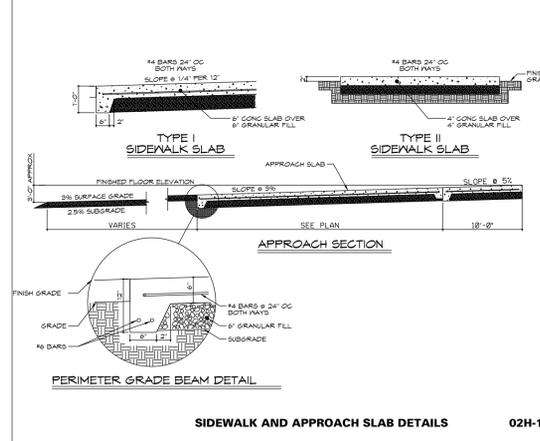
9 PARAPET DETAIL
A-4 SCALE: N.T.S.



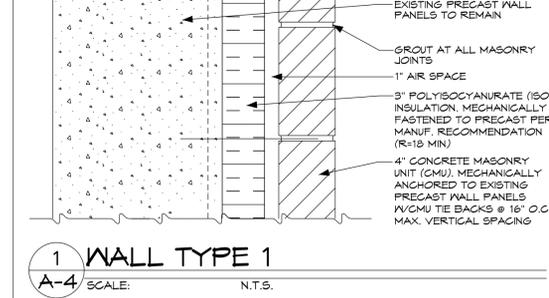
10 SCUPPER DETAIL
A-4 SCALE: N.T.S.



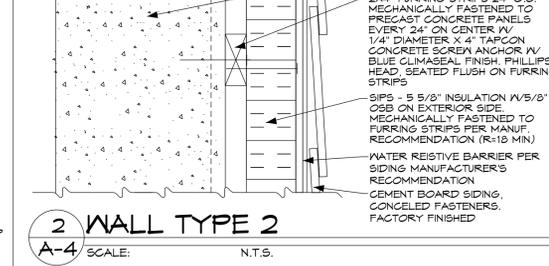
11 DOWNSPOUT
A-4 SCALE: N.T.S.



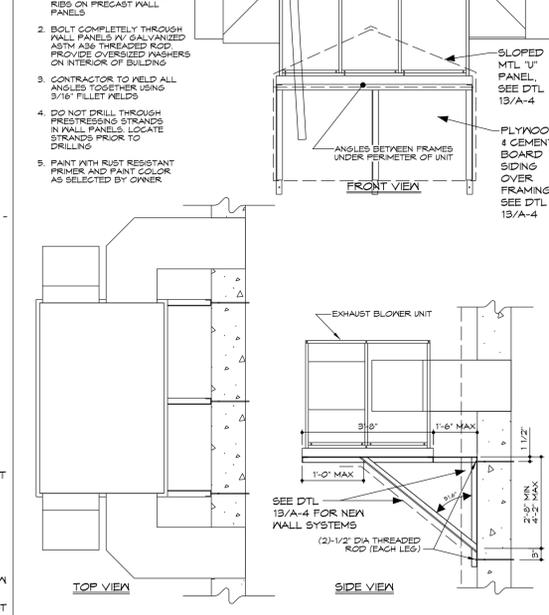
12 STANDARD DETAIL
A-4 SCALE: N.T.S.



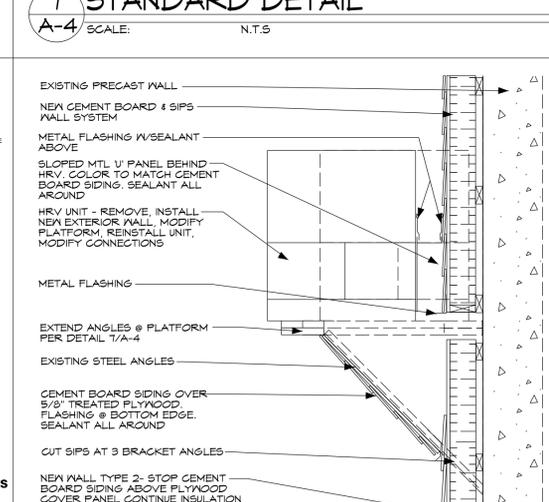
1 WALL TYPE 1
A-4 SCALE: N.T.S.



2 WALL TYPE 2
A-4 SCALE: N.T.S.

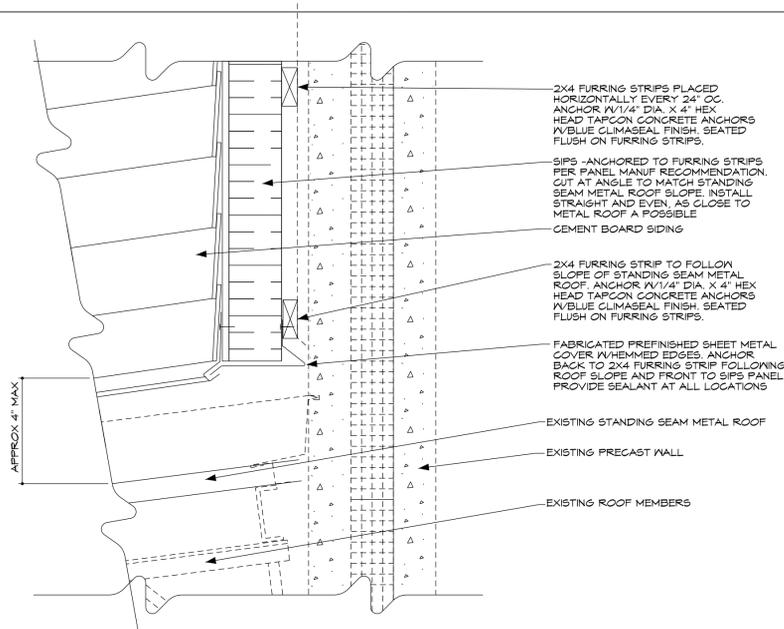


7 STANDARD DETAIL
A-4 SCALE: N.T.S.



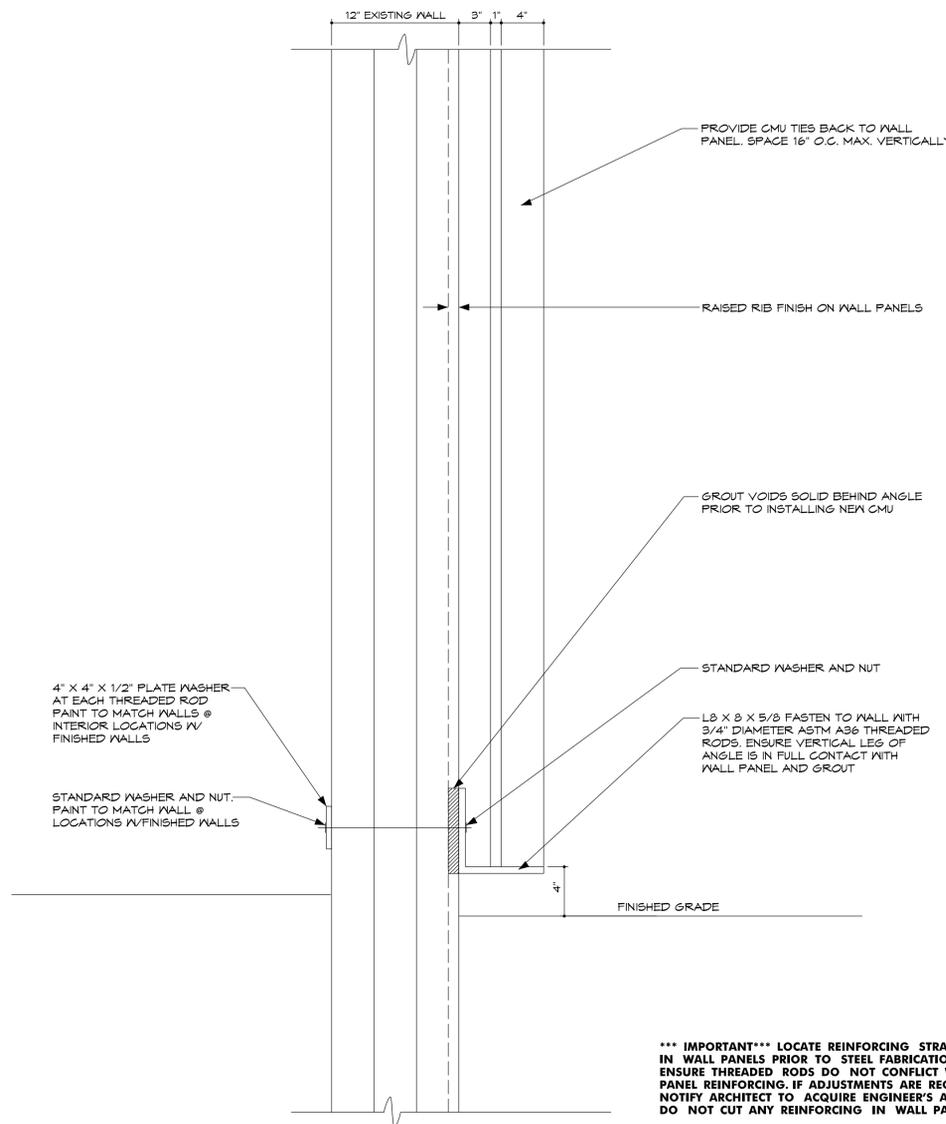
13 DETAIL @ HRV UNIT
A-4 SCALE: N.T.S.

DGN_LOC



6 DETAIL @ WALL PANEL ABOVE OFFICE

A-5 SCALE: 1"=1'-0"



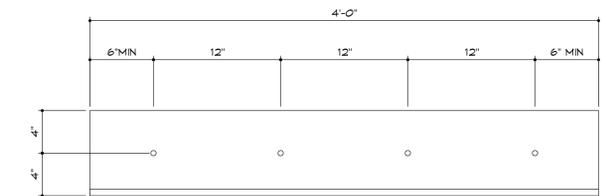
4 WALL SECTION AT STRUCTURAL ANGLE

A-5 SCALE: 1"=1'-0"

*** IMPORTANT *** LOCATE REINFORCING STRANDS IN WALL PANELS PRIOR TO STEEL FABRICATION. ENSURE THREADED RODS DO NOT CONFLICT WITH PANEL REINFORCING. IF ADJUSTMENTS ARE REQUIRED, NOTIFY ARCHITECT TO ACQUIRE ENGINEER'S APPROVAL. DO NOT CUT ANY REINFORCING IN WALL PANELS

STRUCTURAL NOTES:

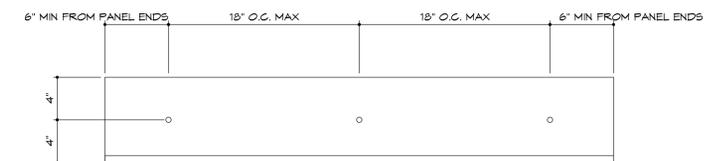
1. ANGLES AND ALL CONNECTION HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A 123 (ANGLES) AND ASTM F 2329 (CONNECTION HARDWARE)
2. ANGLES, THREADED ROD, AND PLATE WASHERS IN ACCORDANCE WITH ASTM A 36
3. NUTS IN ACCORDANCE WITH ASTM A 563 HEAVY HEX
4. WASHERS IN ACCORDANCE WITH ASTM F 436
5. NON METALLIC SHRINKAGE RESISTANT GROUT IN ACCORDANCE WITH ASTM C 1107
6. LOCATE REINFORCING STRANDS IN WALL PANELS PRIOR TO STEEL FABRICATION.
7. ENSURE THREADED RODS DO NOT CONFLICT WITH PANEL REINFORCING. IF ADJUSTMENTS ARE REQUIRED, NOTIFY ARCHITECT TO ACQUIRE ENGINEER'S APPROVAL. DO NOT CUT ANY REINFORCING IN WALL PANELS



1 ANGLE ELEVATION @ 4" PANEL BETWEEN O.H. DOORS

A-5 SCALE: 1"=1'-0"

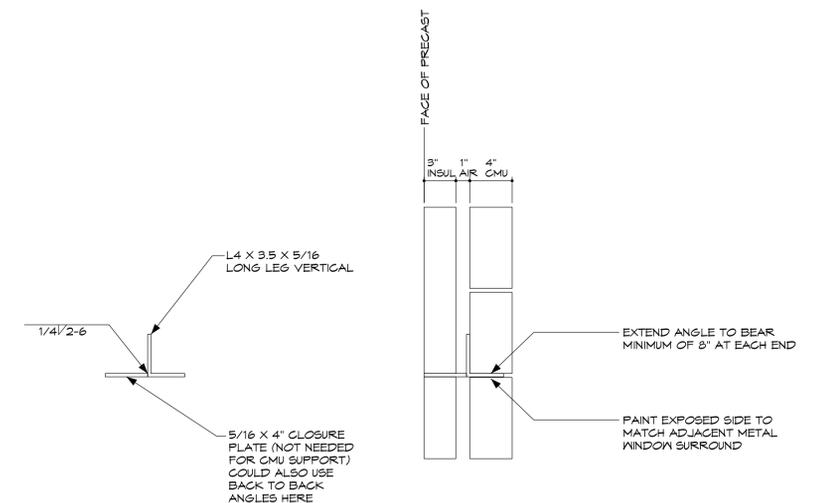
AT 4" WIDE WALL PANEL BETWEEN 16' OVERHEAD DOORS NEW CMU HEIGHT TO TOP OF DOOR OPENING. NO CMU OVER HEAD OF DOOR



2 ANGLE ELEVATION @ ALL OTHER LOCATIONS

A-5 SCALE: 1"=1'-0"

AT LOCATIONS WHERE NEW EXTERIOR WALL IS SUPPORTED BY EXISTING PRECAST WALL PANELS. NO EXCAVATION TO FOOTING.



3 LINTEL DETAIL

A-5 SCALE: 1"=1'-0"

SECTION AT 4" OR SMALLER OPENINGS

5 NOT USED

A-5 SCALE: 1"=1'-0"

STRUCTURAL INFORMATION

DETAILS