

10-15-10
DATE: 10-15-10

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MISSOURI DEPARTMENT OF TRANSPORTATION

CONCRETE BLOCK TRUCK WASH
DISTRICT #9
STEELVILLE, MISSOURI
Route 8, 0.5 Miles East of Route 19
Crawford County

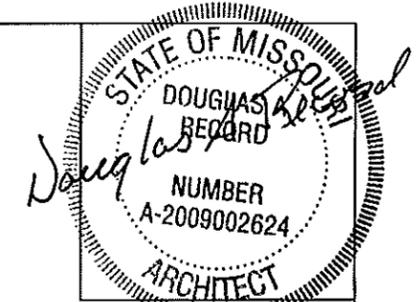
CODE REQUIREMENTS

BUILDING CODE - CURRENT IBC
PLUMBING CODE - CURRENT IBC

Concrete Block Truck Wash
District #9 - Crawford County
Steelville, Missouri

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

COVER SHEET



10.15.10
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Concrete Block Truck Wash
 District #9 - Crawford County
 Steelville, Missouri

MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

PLOT PLAN

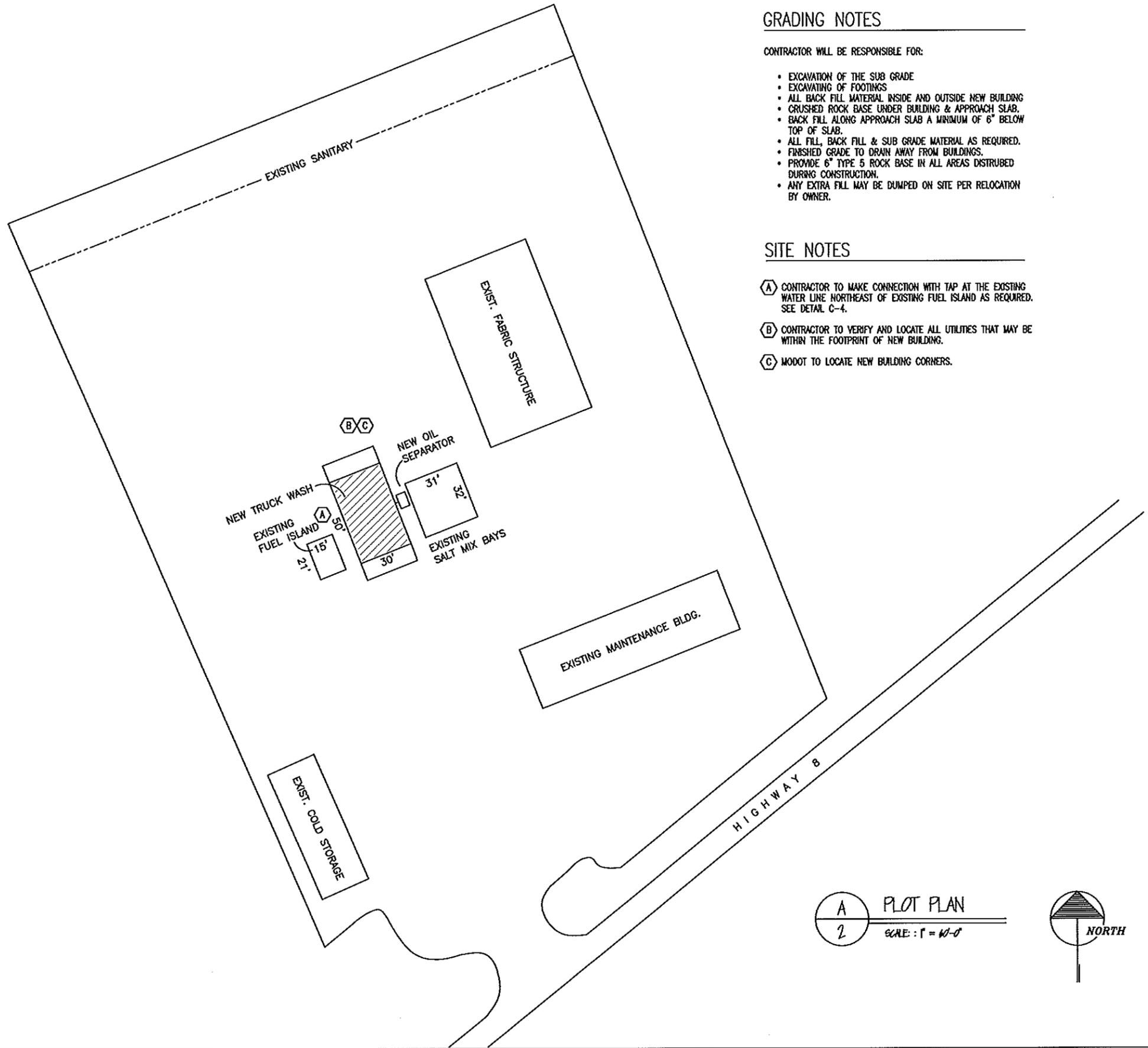
GRADING NOTES

CONTRACTOR WILL BE RESPONSIBLE FOR:

- EXCAVATION OF THE SUB GRADE
- EXCAVATING OF FOOTINGS
- ALL BACK FILL MATERIAL INSIDE AND OUTSIDE NEW BUILDING
- CRUSHED ROCK BASE UNDER BUILDING & APPROACH SLAB.
- BACK FILL ALONG APPROACH SLAB A MINIMUM OF 6" BELOW TOP OF SLAB.
- ALL FILL, BACK FILL & SUB GRADE MATERIAL AS REQUIRED.
- FINISHED GRADE TO DRAIN AWAY FROM BUILDINGS.
- PROVIDE 6" TYPE 5 ROCK BASE IN ALL AREAS DISTURBED DURING CONSTRUCTION.
- ANY EXTRA FILL MAY BE DUMPED ON SITE PER RELOCATION BY OWNER.

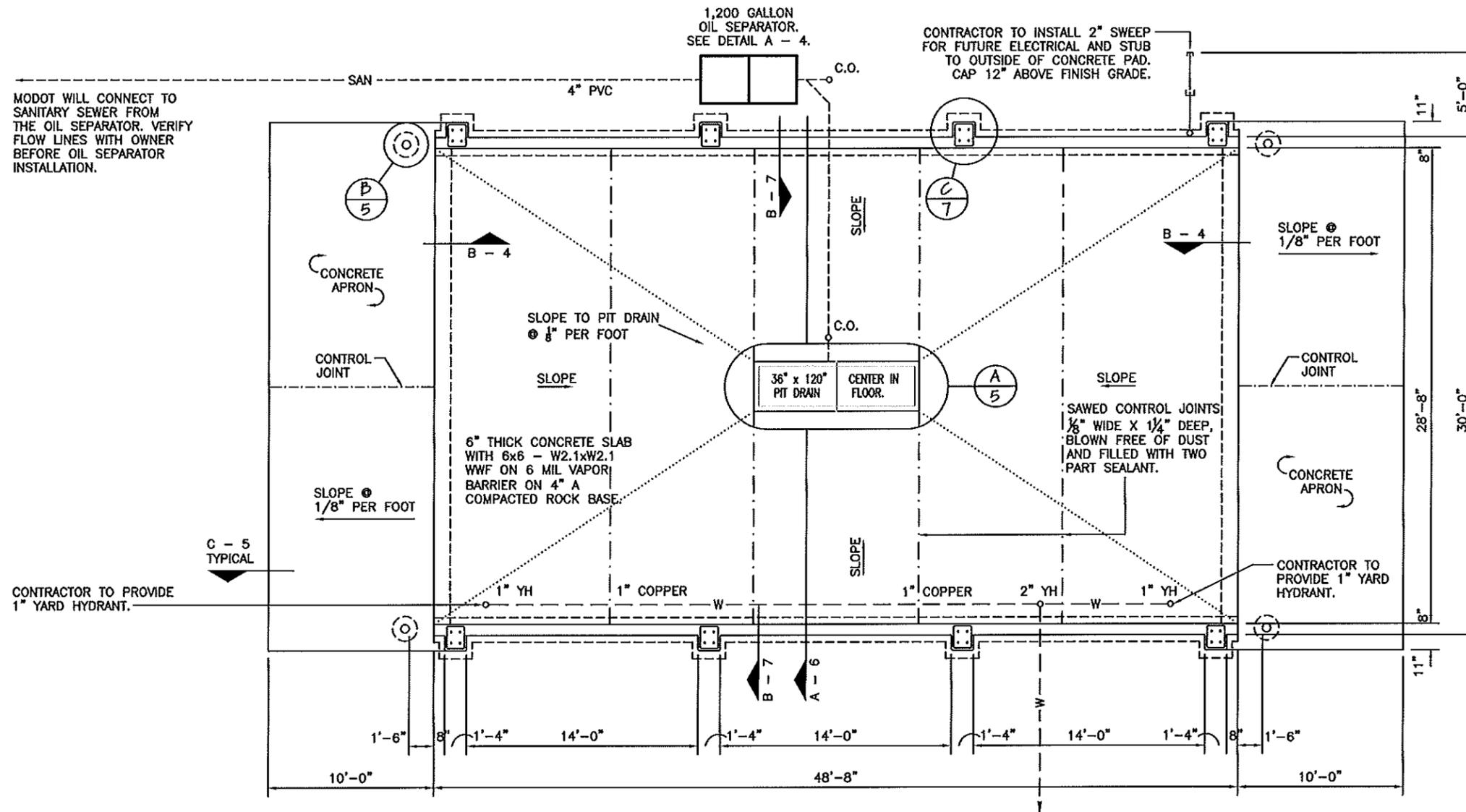
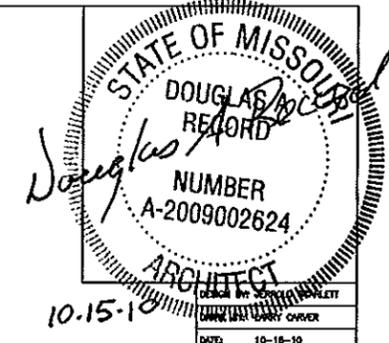
SITE NOTES

- (A) CONTRACTOR TO MAKE CONNECTION WITH TAP AT THE EXISTING WATER LINE NORTHEAST OF EXISTING FUEL ISLAND AS REQUIRED. SEE DETAIL C-4.
- (B) CONTRACTOR TO VERIFY AND LOCATE ALL UTILITIES THAT MAY BE WITHIN THE FOOTPRINT OF NEW BUILDING.
- (C) MODOT TO LOCATE NEW BUILDING CORNERS.



A
 2
 PLOT PLAN
 SCALE: 1" = 40'-0"





MODOT WILL CONNECT TO SANITARY SEWER FROM THE OIL SEPARATOR. VERIFY FLOW LINES WITH OWNER BEFORE OIL SEPARATOR INSTALLATION.

CONTRACTOR TO PROVIDE 1\"/>

CONTRACTOR TO INSTALL 2\"/>

SAWED CONTROL JOINTS 1/8\"/>

CONTRACTOR TO PROVIDE 1\"/>

SEE DETAIL C-4. CONTRACTOR TO PROVIDE 2\"/>

FOR PLUMBING NOTES SEE SHEET 9.

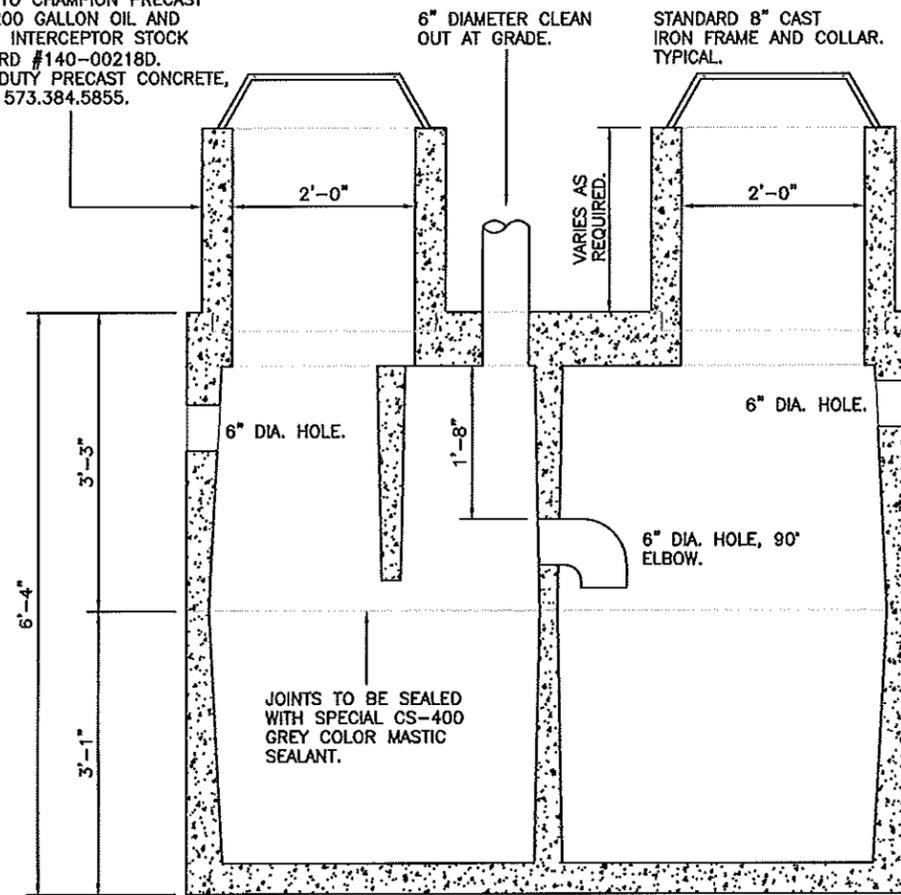
A FLOOR PLAN
3 SCALE: 1/8\"/>

Concrete Block Truck Wash
 District #9 - Crawford County
 Steelville, Missouri

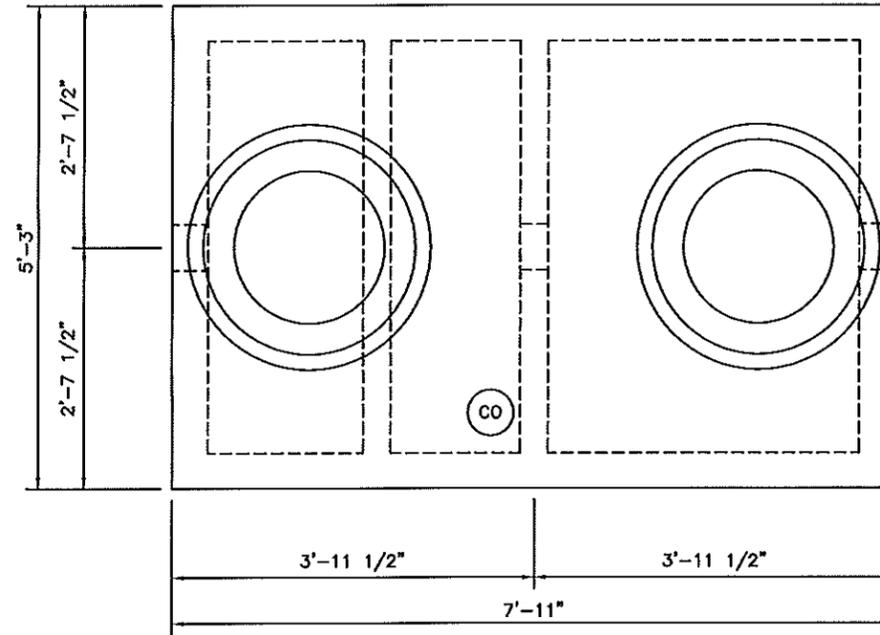
MISSOURI DEPARTMENT
 OF TRANSPORTATION
 DIVISION OF GENERAL SERVICES
 FACILITIES MANAGEMENT

FLOOR PLAN

EQUAL TO CHAMPION PRECAST
INC. 1200 GALLON OIL AND
GREASE INTERCEPTOR STOCK
STANDARD #140-00218D.
HEAVY DUTY PRECAST CONCRETE,
PHONE 573.384.5855.

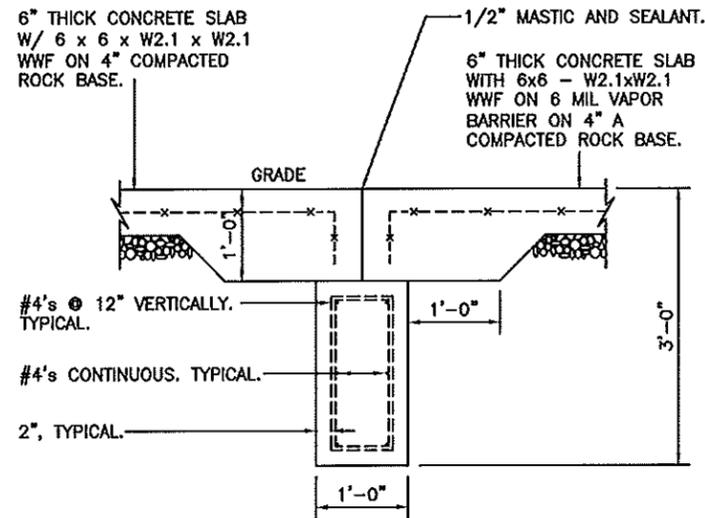


SECTION VIEW

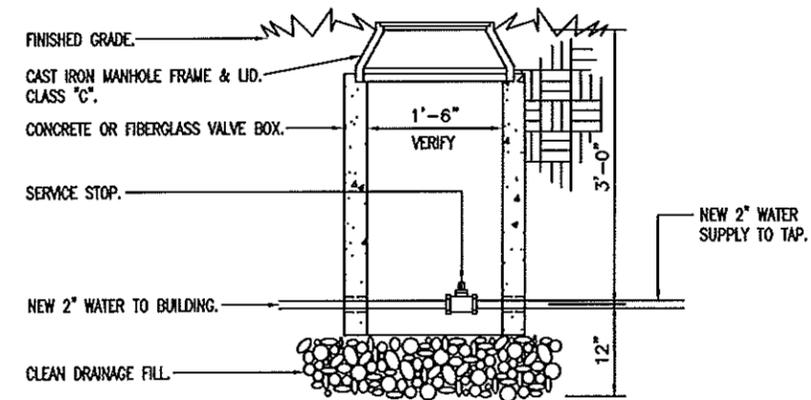


PLAN VIEW

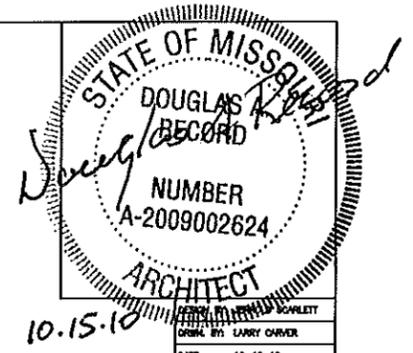
A 1,200 GALLON OIL SEPARATOR
4 SCALE: 1/2" = 1' - 0"



B SLAB APPROACH
4 SCALE: 1/2" = 1' - 0"



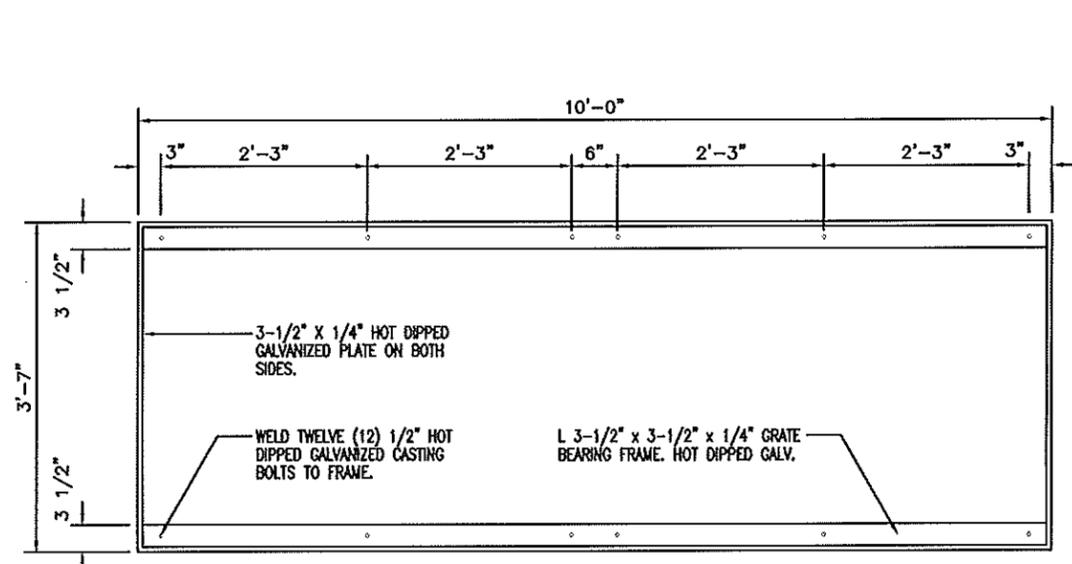
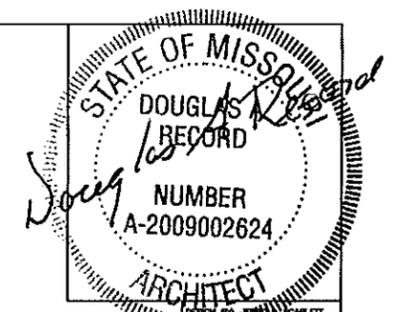
C WATER VALVE & DRAIN
4 SCALE: 1/2" = 1' - 0"



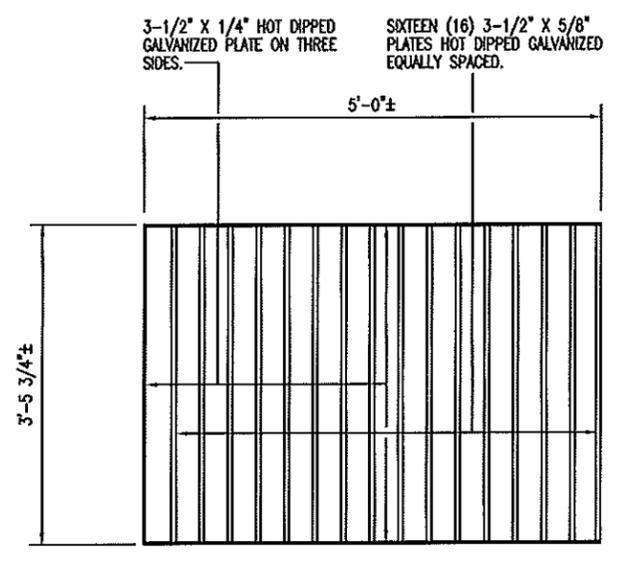
Concrete Block Truck Wash
District #9 - Crawford County
Steelville, Missouri

MISSOURI DEPARTMENT
OF TRANSPORTATION
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FACILITIES MANAGEMENT

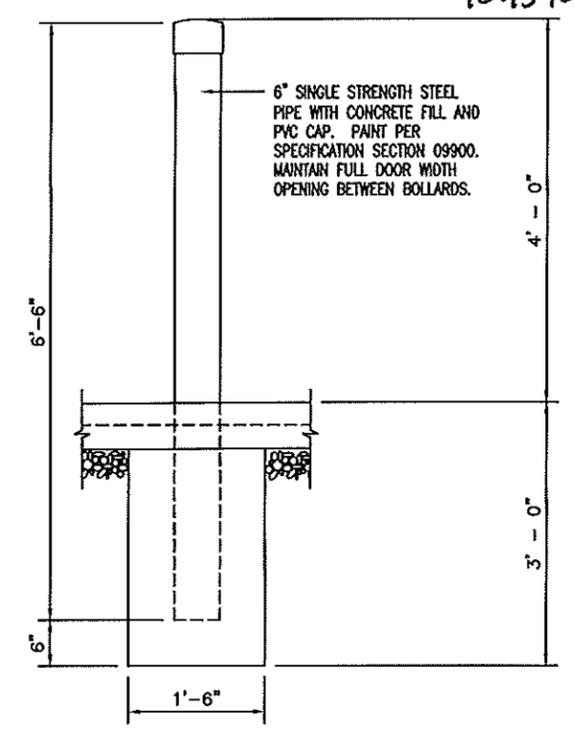
FOUNDATION DETAILS



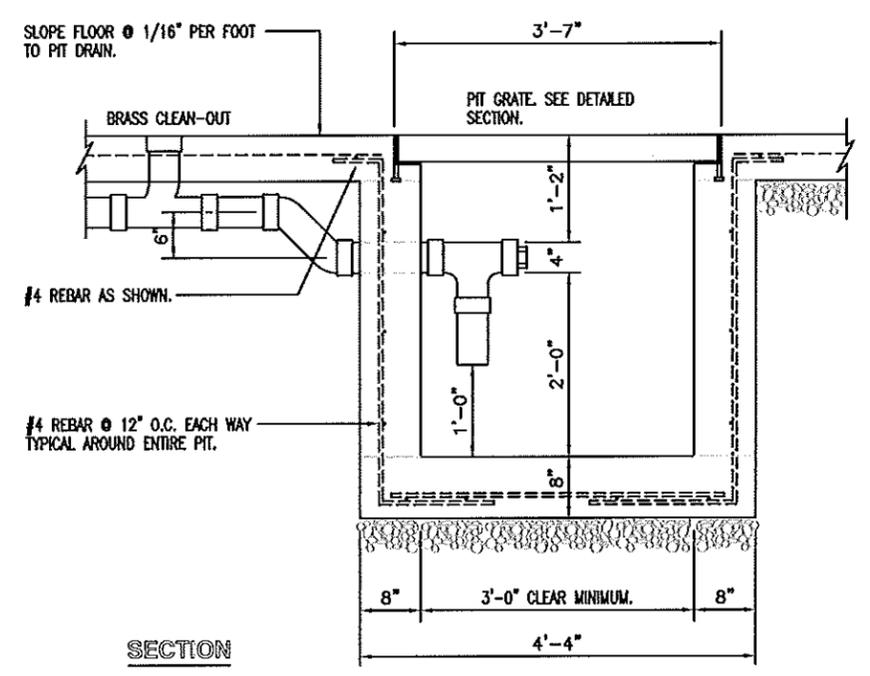
BEARING FRAME PLAN



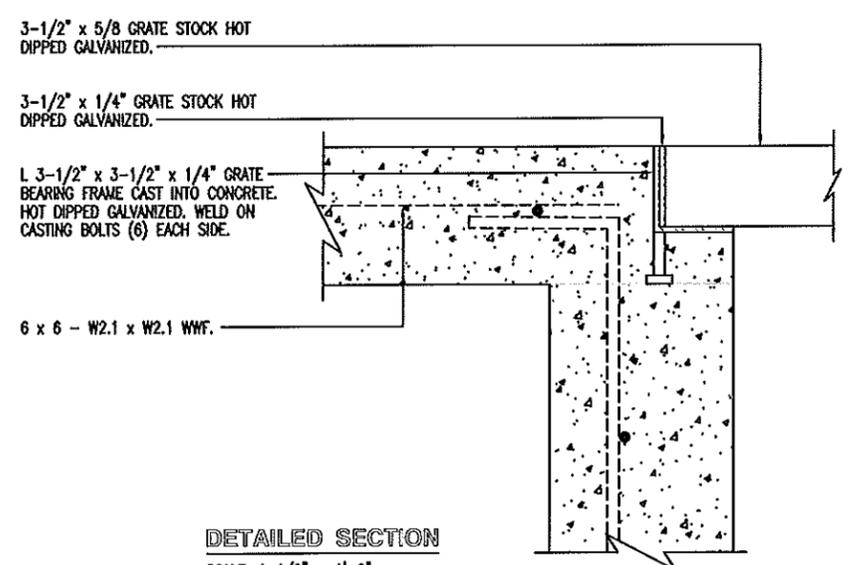
PROVIDE TWO (2) GRATE PLAN



B BOLLARD @ PIER DETAIL
SCALE: 1/2" = 1'-0"

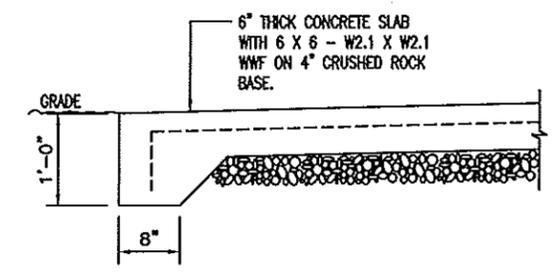


SECTION



DETAILED SECTION
SCALE: 1-1/2" = 1'-0"

A PIT DRAIN
SCALE: 1/2" = 1'-0"

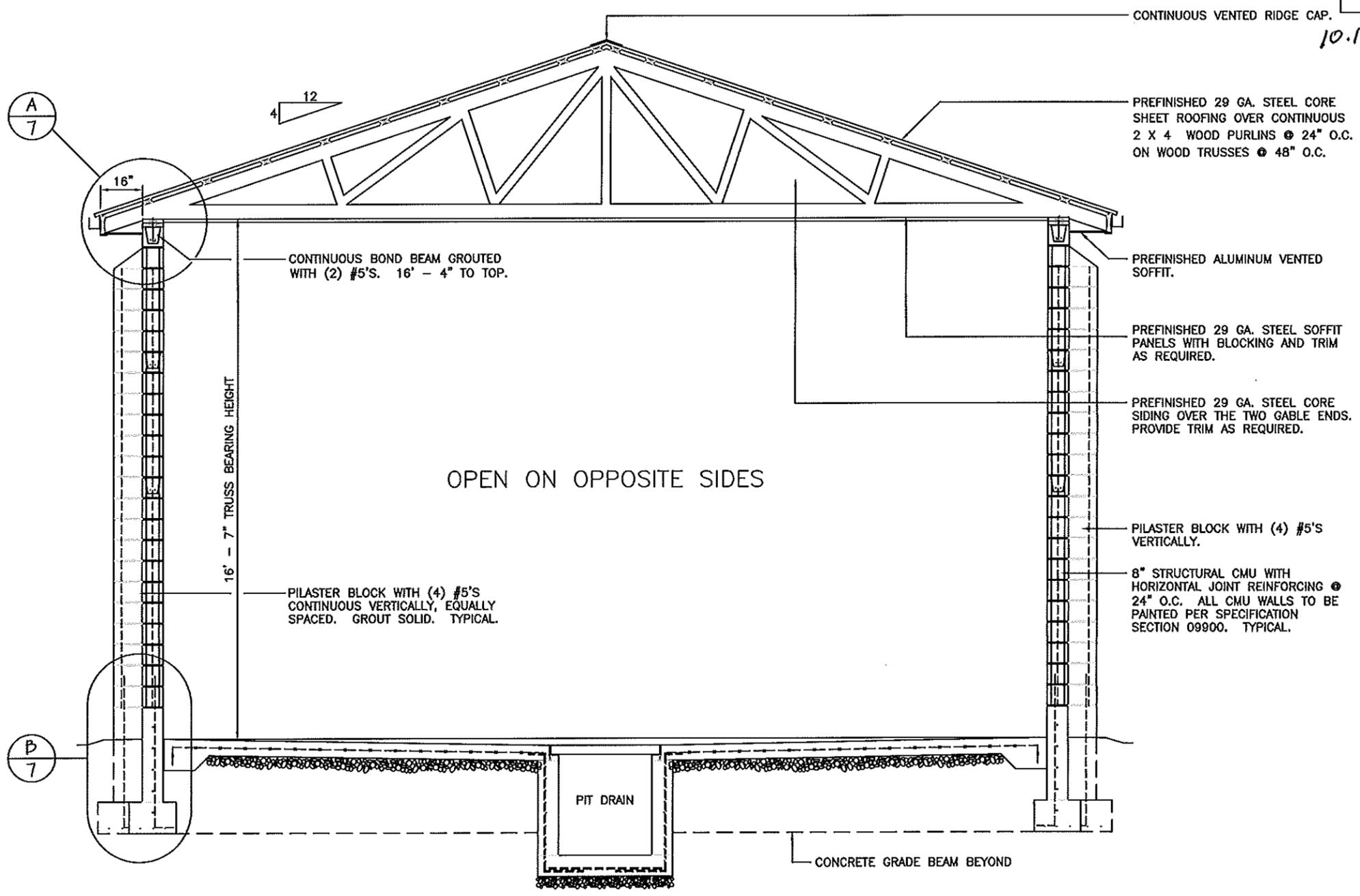
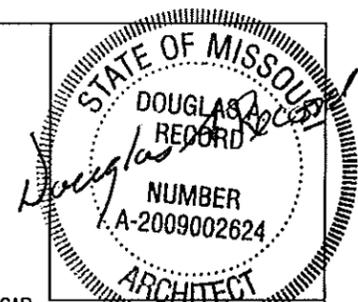


C SLAB SECTION
SCALE: 1/2" = 1'-0"

Concrete Block Truck Wash
District #9 - Crawford County
Steelville, Missouri

MISSOURI DEPARTMENT
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FACILITIES MANAGEMENT

FOUNDATION DETAILS



ENGINEERING DESIGN AND SHOP DRAWINGS:

1. PROFESSIONAL ENGINEER: ALL TRUSS DESIGNS SHALL BEAR THE NAME, SEAL, AND REGISTRATION NUMBER OF A LICENSED PROFESSIONAL ENGINEER.
2. TRUSS DESIGNS SHALL CONTAIN THE FOLLOWING DATA:
 - A. LOADING (UNIFORM)
 1. TOP CHORD
 - LIVE LOAD 20 PSF
 - DEAD LOAD 10 PSF
 - SNOW DRIFT - PER 2003 IBC
 2. BOTTOM CHORD
 - DEAD LOAD 5 PSF
 - TOTAL LOAD 35 PSF
 - B. METAL CONNECTORS - NOTE GAUGE SIZES OF CONNECTORS, NAME OF MANUFACTURER, AND CAPACITY OF EACH CONNECTION.
 - C. LUMBER SPECIFICATIONS
 - D. PITCH, SPAN, AND SPACING OF TRUSSES
 - E. DESIGN LOADINGS AND ALLOWABLE UNIT STRESS INCREASE, IF ANY
 - F. FORCE ANALYSIS OF BAR FORCES IN EACH MEMBER
 - G. SIZE AND LOCATION OF ALL CONNECTOR PLATES
 - H. TRUSS SUPPORTS
 - I. CAMBER, IF ANY
 - J. PERMANENT BRACING
 - K. HANDLING AND ERECTION INSTRUCTIONS
3. FIVE COPIES OF EACH TRUSS DESIGN AND/OR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO THE FABRICATION OF ANY COMPONENTS.
4. STRUCTURAL ENGINEERS REVIEW OF DRAWINGS PREPARED BY THE CONTRACTORS, SUPPLIERS, ETC., ARE ONLY FOR CONFORMANCE WITH DESIGN CONCEPT. CONSTRUCTION SHALL NOT START WITHOUT SAID REVIEW.

- DESIGN CRITERIA:**
1. BUILDING CODE: CURRENT IBC
 2. SEISMIC AV = 0.125; AA = 0.13
 3. BASIC WIND SPEED 90 MPH, EXPOSURE C
 4. PITCH 4:12

OPEN ON OPPOSITE SIDES

A BUILDING SECTION
6 SCALE: 1/4" = 1' - 0"

CONTINUOUS VENTED RIDGE CAP.

PREFINISHED 29 GA. STEEL CORE SHEET ROOFING OVER CONTINUOUS 2 X 4 WOOD PURLINS @ 24" O.C. ON WOOD TRUSSES @ 48" O.C.

PREFINISHED ALUMINUM VENTED SOFFIT.

PREFINISHED 29 GA. STEEL SOFFIT PANELS WITH BLOCKING AND TRIM AS REQUIRED.

PREFINISHED 29 GA. STEEL CORE SIDING OVER THE TWO GABLE ENDS. PROVIDE TRIM AS REQUIRED.

PILASTER BLOCK WITH (4) #5'S VERTICALLY.

8" STRUCTURAL CMU WITH HORIZONTAL JOINT REINFORCING @ 24" O.C. ALL CMU WALLS TO BE PAINTED PER SPECIFICATION SECTION 09900. TYPICAL.

CONTINUOUS BOND BEAM GROUTED WITH (2) #5'S. 16' - 4" TO TOP.

16' - 7" TRUSS BEARING HEIGHT

PILASTER BLOCK WITH (4) #5'S CONTINUOUS VERTICALLY, EQUALLY SPACED. GROUT SOLID. TYPICAL.

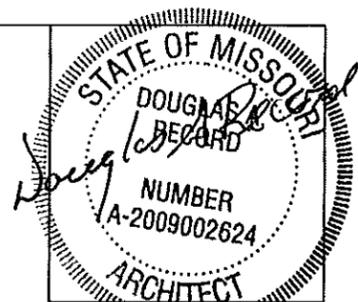
PIT DRAIN

CONCRETE GRADE BEAM BEYOND

Concrete Block Truck Wash
District #9 - Crawford County
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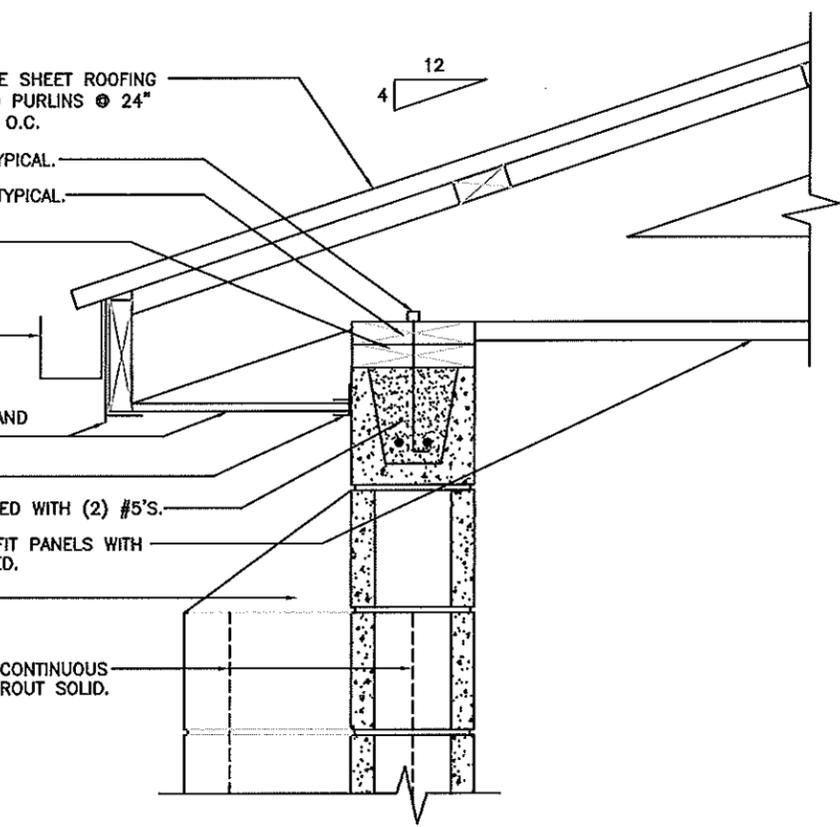
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

BUILDING SECTION



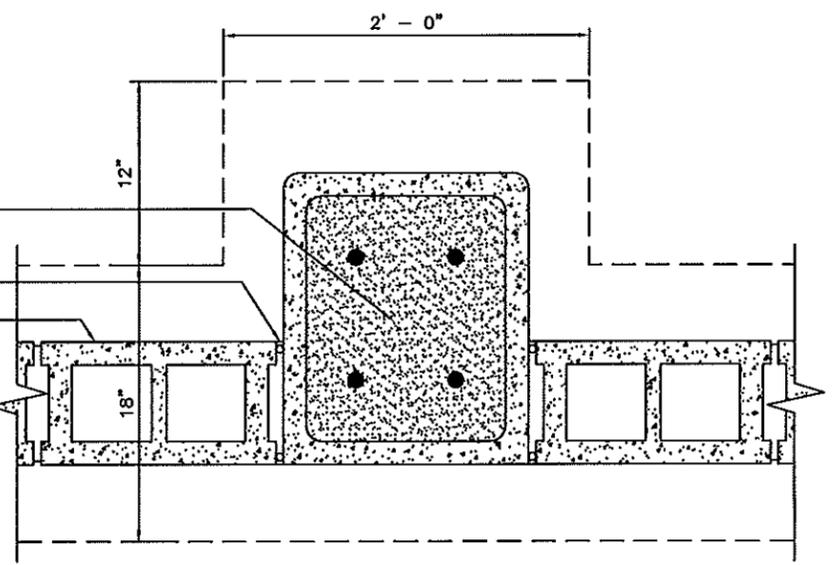
10-15-10
 DATE: 10-15-10
 DRAWN BY: LARRY CARVER

- PREFINISHED 29 GA. STEEL CORE SHEET ROOFING OVER CONTINUOUS 2 X 4 WOOD PURLINS @ 24" O.C. ON WOOD TRUSSES @ 48" O.C.
- J-BOLT ANCHOR @ 32" O.C., TYPICAL.
- PROVIDE HURRICANE ANCHORS, TYPICAL.
- (2) 2 x 8'S.
- PREFINISHED 5" SEAMLESS ALUMINUM GUTTERS AND DOWNSPOUTS.
- PREFINISHED ALUMINUM FASCIA AND VENTED SOFFIT.
- F-CHANNEL.
- CONTINUOUS BOND BEAM GROUTED WITH (2) #5'S.
- PREFINISHED 29 GA. STEEL SOFFIT PANELS WITH BLOCKING AND TRIM AS REQUIRED.
- SLOPE TOP WITH CONCRETE.
- PILASTER BLOCK WITH (4) #5'S CONTINUOUS VERTICALLY, EQUALLY SPACED. GROUT SOLID. TYPICAL.



A WALL SECTION
 7 SCALE: 1" = 1' - 0"

- PILASTER BLOCK WITH (4) #5'S CONTINUOUS VERTICALLY, EQUALLY SPACED. GROUT SOLID. TYPICAL.
- BACKER ROD AND SEALANT BOTH SIDES (TYP.).
- 8" STRUCTURAL CMU WITH HORIZONTAL JOINT REINF'G. AT 24" O.C. CMU WALL TO BE PAINTED ON ALL SIDES.



C PILASTER DETAIL
 7 SCALE: 1" = 1' - 0"

- 8" STRUCTURAL CMU WALL WITH HORIZONTAL JOINT REINFORCING @ 24" O.C. ALL CMU WALLS TO BE PAINTED PER SPECIFICATION SECTION 09900.

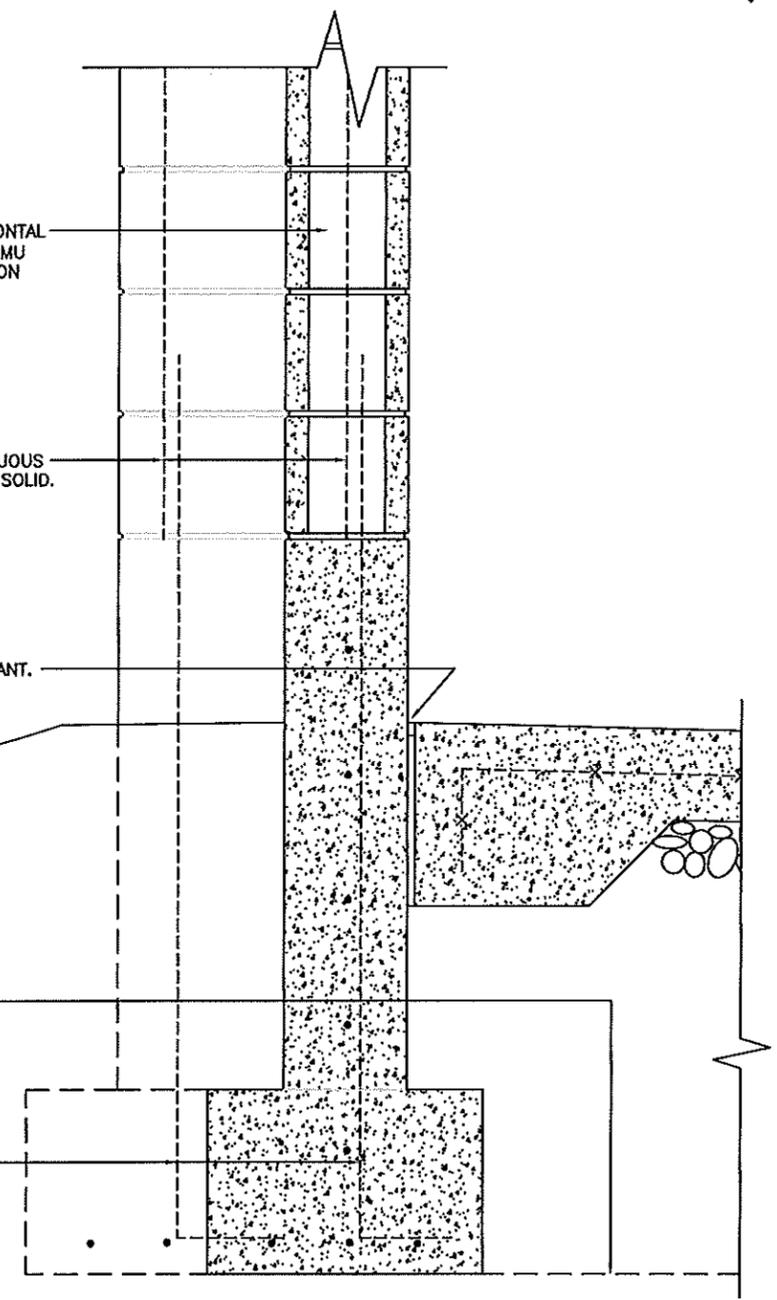
- PILASTER BLOCK WITH (4) #5'S CONTINUOUS VERTICALLY, EQUALLY SPACED. GROUT SOLID. TYPICAL.

- 1/2" MASTIC EXPANSION JOINT & SEALANT.

GRADE

- CONCRETE GRADE BEAM BEYOND.

- (4) #5 DOWELS @ PILASTER BLOCK.



B WALL SECTION
 7 SCALE: 1" = 1' - 0"

Concrete Block Truck Wash
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 FACILITIES MANAGEMENT

DETAILS

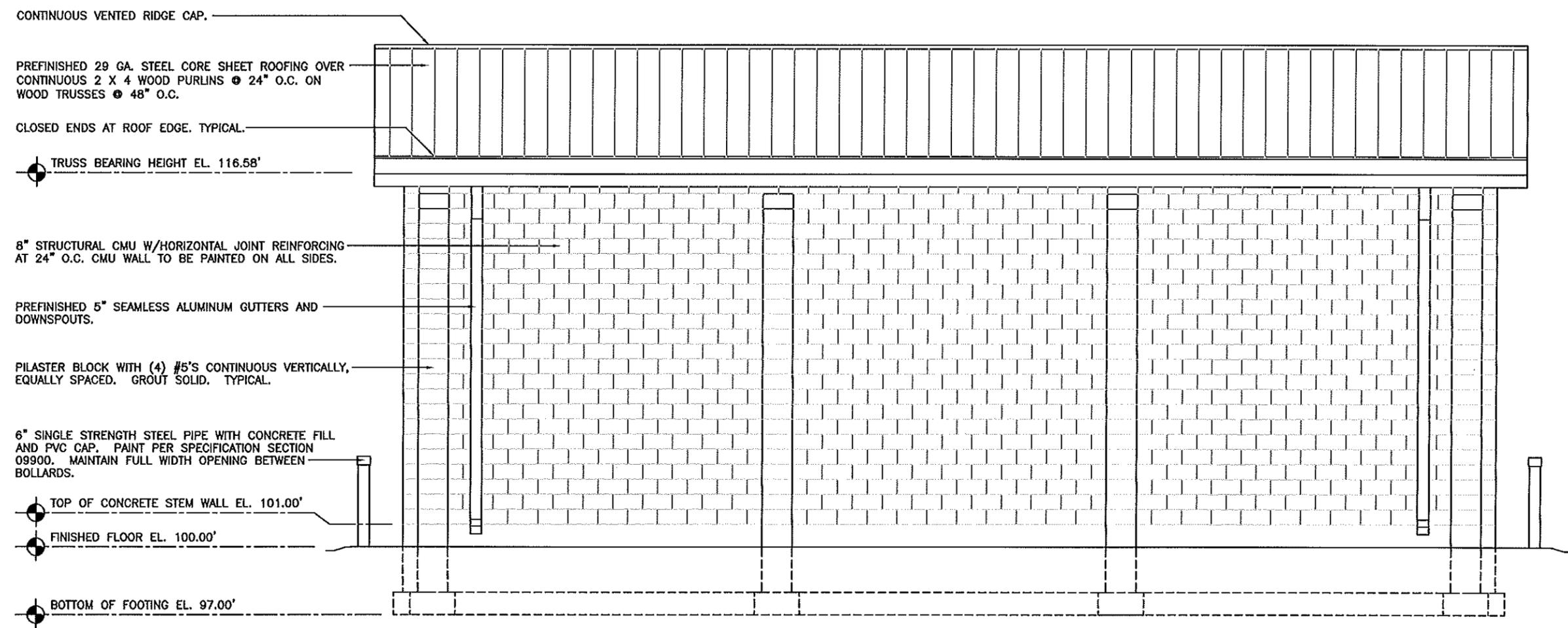


10.15.10
 DESIGN BY: JERRY CHAMBLISS
 DRAWN BY: LARRY CHRYER
 DATE: 10-15-10

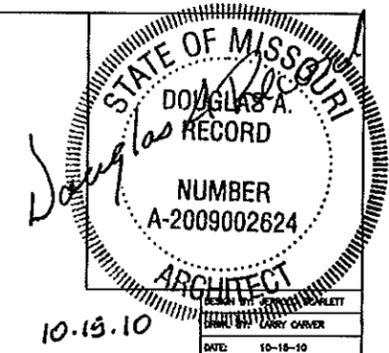
Concrete Block Truck Wash
 District #9 - Crawford County
 Steelville, Missouri

MISSOURI DEPARTMENT
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 FACILITIES MANAGEMENT

SIDEWALL ELEVATION



(A) SIDEWALL ELEVATION
 (B) SCALE: 3/16" = 1' - 0"



Concrete Block Truck Wash
 District #9 - Crawford County
 Steelville, Missouri

MISSOURI DEPARTMENT
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 FACILITIES MANAGEMENT

GENERAL NOTES

GENERAL NOTES:

1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. IF CONDITIONS REQUIRING ROCK EXCAVATION ARE ENCOUNTERED, NOTIFY THE DESIGNER AND FIELD INSPECTOR BEFORE PROCEEDING WITH THE WORK.
4. ALL CONCRETE SHALL BE TYPE I CEMENT WITH A COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS WITH 4" SLUMP.
5. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT OF 5% ± 2%.
6. GRADE BEAMS AND FOOTINGS SHALL BEAR A MINIMUM OF 12" INTO UNDISTURBED SOIL AND 36" MINIMUM BELOW FINISH GRADE.

7. DEFORMED STEEL REINFORCING BARS SHALL BE #5 AND LARGER, ASTM A615 GRADE 60.
8. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
9. INTERIOR AND EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
10. COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
11. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH DOW CORNING 888 SILICONE JOINT SEALANT OR AN APPROVED EQUAL.
12. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.
13. SUBGRADE IS CURRENTLY LEVEL. ALL BACKFILL MATERIALS BY CONTRACTOR TO MATCH EXISTING CONDITIONS. SLOPE GRADE AWAY FROM BUILDING.
14. CONCRETE AROUND PERIMETER OF NEW CONSTRUCTION SHALL BE 6" CONCRETE SLAB WITH 6x6 - W2.1xW2.1 WWF ON 4" COMPACTED ROCK BASE.

PLUMBING NOTES:

1. PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC PLUMBING CODE.
2. PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
3. PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
4. 1" YARD HYDRANT: EQUAL TO WOODFORD MODEL Y2 FREEZELESS, BACKFLOW PROTECTED, AUTOMATIC DRAINING YARD HYDRANT. PROVIDE 36" BURY LENGTH.
5. 2" YARD HYDRANT: EQUAL TO NATIONAL TYPE "A" COMPRESSION HYDRANT. ANTI-FREEZING AUTOMATIC DRAIN. ALL BRONZE WITH 2" VALVE OPENING & 10" WHEEL TOP. 36" BURY LENGTH.