

O'Reilly AUTO PARTS

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MECHANICAL - ELECTRICAL & PLUMBING ENGINEER

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Springfield, Missouri 65804
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JON E. ECKHARDT

STATE	REGISTRATION NUMBER
ALABAMA	30744
COLORADO	39148
DISTRICT OF COLUMBIA	PE10774 (MECHANICAL)
INDIANA	PE1050482
KANSAS	18220
LOUISIANA	PE.0031641 (MECHANICAL)
MARYLAND	31377
MASSACHUSETTS	48200 (ELECTRICAL)
MISSOURI	02442
MONTANA	17444
NEW YORK	087575-1
OHIO	69929
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SL1

STRUCTURAL ENGINEER

J.S. SMITH CONSULTING
ENGINEERS, P.C.

P.O. BOX 8102 • JOPLIN, MISSOURI 64802
Phone: (417) 624-0444 • Fax: (417) 624-0430

JEFFREY S. SMITH P.E.

STATE	REGISTRATION NUMBER
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AARON D. SMITH P.E.

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MINNESOTA	44131
MISSOURI	E-2000150070
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WISCONSIN	E-37472
WYOMING	10580

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ARCHITECT

1736 East Sunshine, Suite 417
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STATE	REGISTRATION NUMBER	STATE	REGISTRATION NUMBER
ALABAMA	5347	MONTANA	2735
ARIZONA	15881-0	NEBRASKA	A-2859
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ILLINOIS	001-017213	OKLAHOMA	2592
INDIANA	10100175	SOUTH CAROLINA	6789
IOWA	5010	SOUTH DAKOTA	8662
KANSAS	3358	TENNESSEE	102342
KENTUCKY	5372	TEXAS	16336
LOUISIANA	5286	UTAH	7386712-0301
MICHIGAN	1301055829	VIRGINIA	0401012632
MINNESOTA	44045	WEST VIRGINIA	4088
MISSISSIPPI	3433	WISCONSIN	A-9842
MISSOURI	A-4087	WYOMING	C-2070

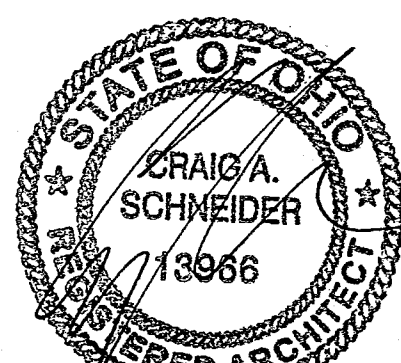
Craig A. Schneider

Printed or typed name

Signature

Pages or sheets covered by this seal:

CT1, D1



Date issued: 5-17-2010

I hereby certify that the portion of this technical submission described above was prepared by me or under my direct supervision and responsible charge. I am a duly registered architect under the laws of the state of OHIO.

CIVIL ENGINEER

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John S. Del Verne, P.E.

OHIO E-59378

Sheets covered by this seal:
C1, C2, C3, L1, SU1

BUILDING CODE:

CITY: MASSILLON, OH
CONTACT NUMBER: (330) 830-1721

BUILDING CODE: 2007 OHIO BUILDING CODE
PLUMBING CODE: 2007 OHIO PLUMBING CODE
MECHANICAL CODE: 2007 OHIO MECHANICAL CODE
ELECTRICAL CODE: 2008 NEC
FIRE CODE: 2007 OHIO FIRE CODE

USE GROUP: M
CONSTRUCTION TYPE: II-B
NON-COMBUSTIBLE
UN-PROTECTED

TOTAL BUILDING AREA: 7,000 SQ. FT.
BUILDING HEIGHT: 17'-6" APPROX.

ZONING:

ZONING: B-3
AREA OF PROPERTY: (REFER TO SURVEY)

PARKING SUMMARY
REQUIRED SIZE: 9'X 20'
REQUIRED RATIO: 1 SPACE PER 200 S.F.
SPACES REQUIRED: 35
SPACES PROVIDED: 45
H.C. SPACES PROVIDED: 2

SHEET INDEX

SHEET NUMBER	SHEET NAME
CT1	CIVIL COVER SHEET
SV1	SITE SURVEY (FOR REFERENCE ONLY)
D1	DEMOLITION PLAN
C1	SITE GRADING PLAN
C2	SITE DEVELOPMENT PLAN
C3	SITE DETAILS
L1	LANDSCAPE PLAN
S3	STRUCTURAL DETAILS (RETAINING WALL DETAILS)
SU1	SITE UTILITIES PLAN
SL1	SITE LIGHTING PLAN

BIDDING INFORMATION

WWW.DESIGNBIDBUILD.NET/O'REILLY

*CLICK ON CURRENT PROJECTS LINK LOCATED ON SIGN IN PAGE TO VIEW INVITED GENERAL CONTRACTORS.

ALL SUB-CONTRACTOR BIDS TO BE SUBMITTED TO INVITED GENERAL CONTRACTORS ONLY.

CONTACT OWNERS REPRESENTATIVE FOR PROJECT INFORMATION:

TIM WILLIAMS
PROJECT ADMINISTRATOR
417-862-2674
EXT. 5702

ONLY APPROVED SIGNED PLANS BY THE CITY ENGINEER ARE TO BE USED FOR CONSTRUCTION.

APPROVED BY THE MASSILLON CITY ENGINEER THIS 22nd

DAY OF July, 2010

KEITH A. DYLEWSKI, PE

CRAIG A. SCHNEIDER, AIA
ARCHITECT

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New O'Reilly Auto Parts Store

E. LINCOLN WAY
MASSILLON, OH

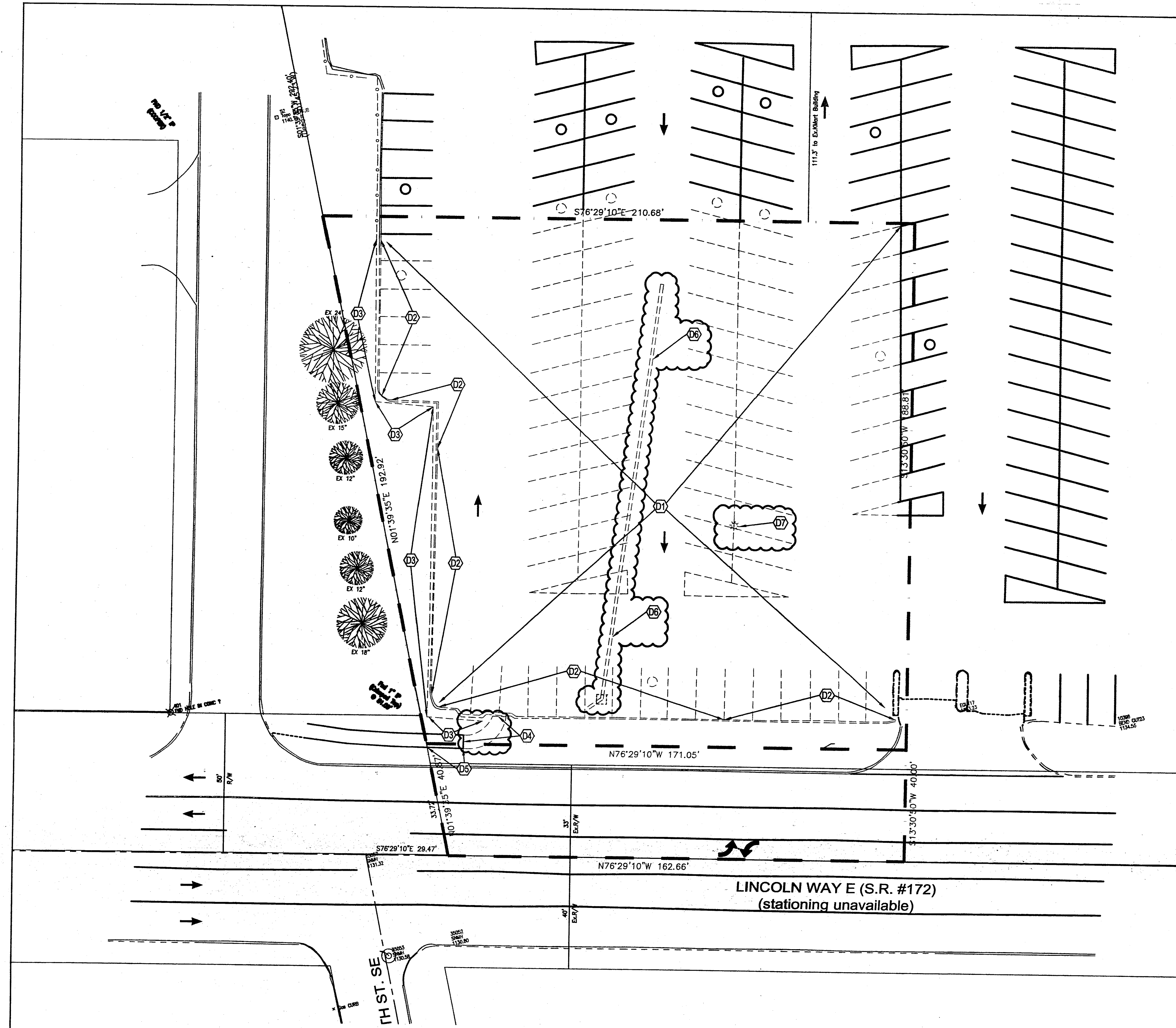
O'Reilly AUTO PARTS
Corporate Office:
233 South Patterson, Springfield, Mo 65802
Phone: (417) 862-3333 Fax: (417) 874-7112

COMM # 2741

DATE: 5-7-10

REVISION
DATE:

T1 of 1



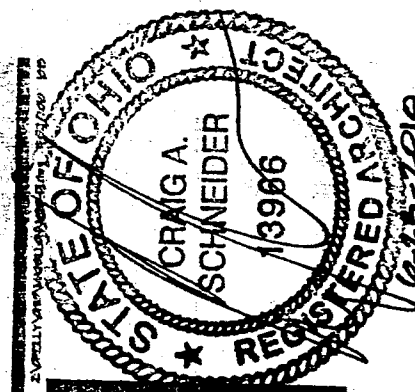
1 DEMOLITION PLAN
D1 SCALE: 1" = 20'
GRAPHIC SCALE - FEET

- GENERAL NOTES:**
- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
 - B. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. FIELD VERIFY EXISTING CONDITIONS BY DETAILED SITE INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
 - C. REMOVE ALL EXISTING SITE CONSTRUCTION AND DELETERIOUS MATERIALS UNLESS OTHERWISE NOTED.
 - D. REFER TO SITE UTILITIES PLAN FOR DEMOLITION OF EXISTING UTILITIES.
 - E. ALL DEMOLISHED MATERIALS SHALL BECOME PROPERTY OF CONTRACTOR FOR PROPER DISPOSAL UNLESS OTHERWISE NOTED.

- KEY NOTES:**
- D1 EXISTING PAVING TO BE REMOVED.
 - D2 EXISTING CURB TO BE REMOVED.
 - D3 EXISTING FENCE INCLUDING FOOTINGS TO BE REMOVED.
 - D4 EXISTING CONCRETE TO BE REMOVED.
 - D5 EXISTING CONCRETE TO REMAIN, PROTECT AS REQUIRED.
 - D6 PORTION OF EXISTING STORM PIPE TO BE REMOVED, INCLUDING CATCH BASIN.
 - D7 EXISTING LIGHTPOLE TO BE REMOVED. COORDINATE WITH SITE UTILITIES PLAN.

- SPECIAL HAZARDOUS MATERIALS NOTE:**
- 1. AN ENVIRONMENTAL ANALYSIS HAS BEEN PERFORMED ON THE EXISTING SITE. REFER TO PROJECT MANUAL.
 - 2. IF THIS PROJECT CONTAINS HAZARDOUS MATERIALS CONTRACTOR IS TO PROVIDE PROPER HANDLING, REMOVAL AND DISPOSAL PER ENVIRONMENTAL ANALYSIS RECOMMENDATIONS.

SYMBOLS LEGEND	
REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS	LEGEND
---	EXISTING ITEMS TO BE REMOVED

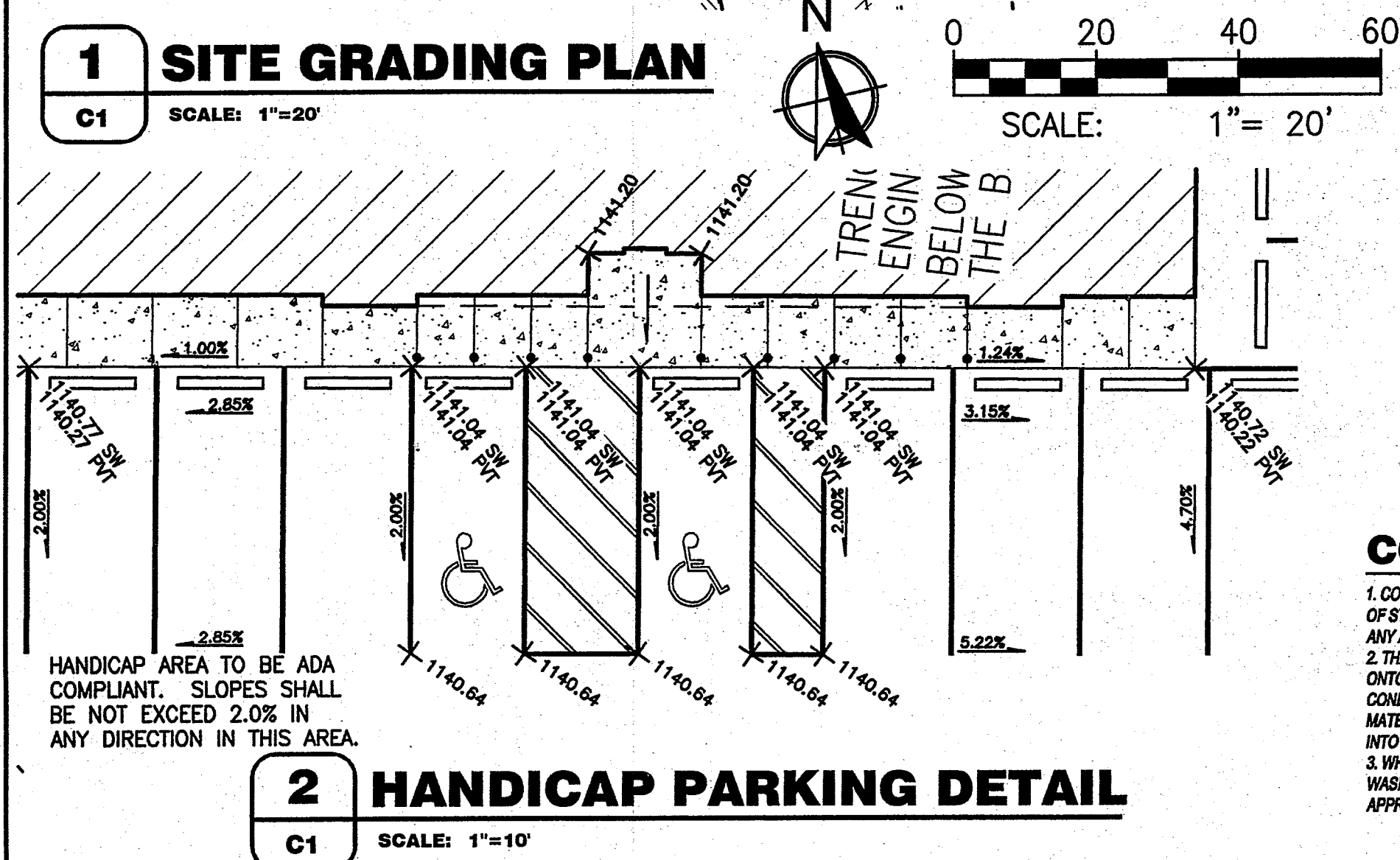


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COMM #	2741
DATE:	5-7-10
REVISION	
DATE:	6-21-10



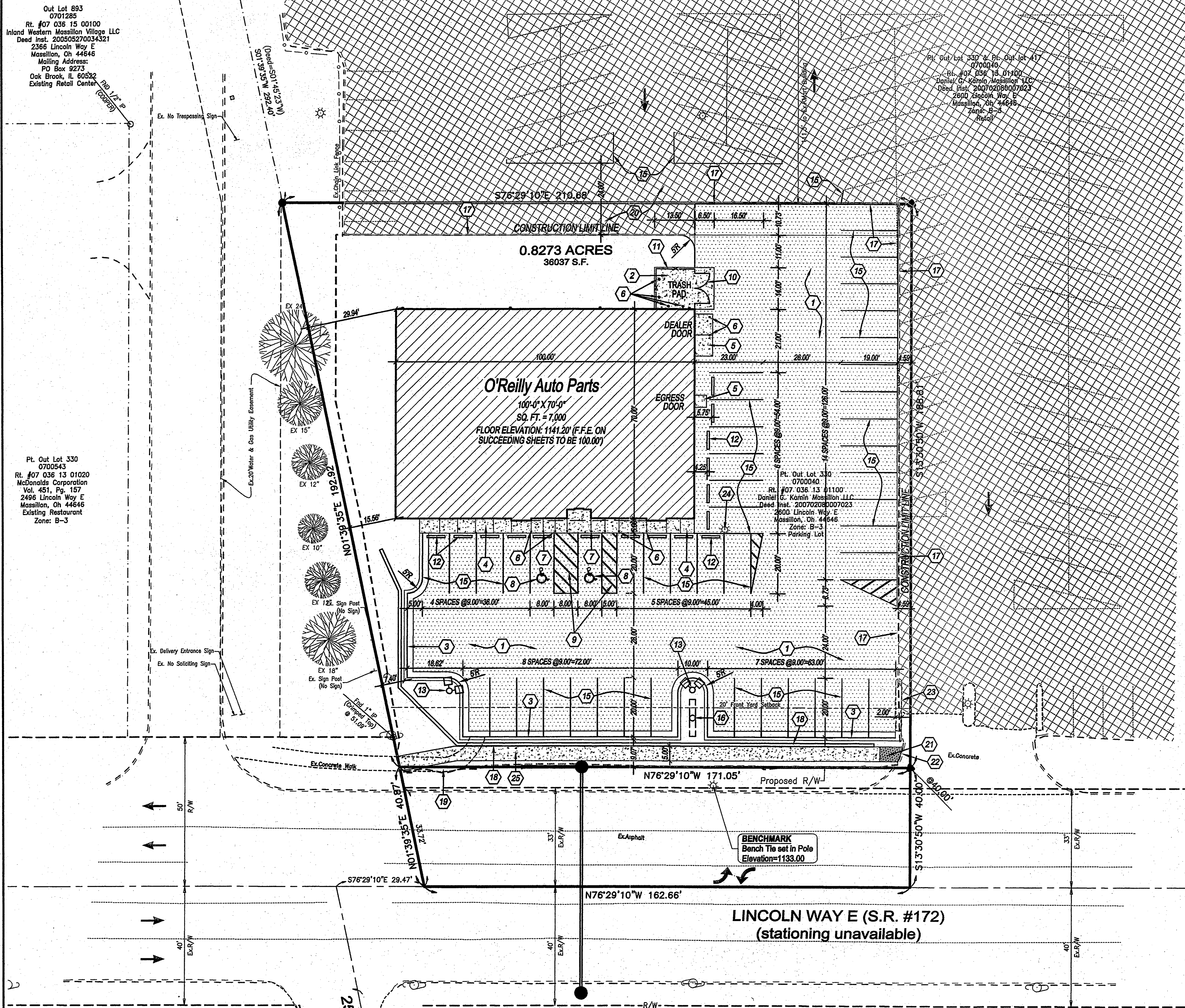
1. CONSTRUCTION EGRESS SHALL BE 25" MINIMUM WIDTH AND 70" MINIMUM LENGTH AND 6" MIN THICKNESS OF STONE COURSE AGGREGATE WITH GEOTEXTILE UNDERLIER, REFER TO THE CITY AND STATE SPEC FOR ANY ADDITIONAL REQUIREMENTS.

2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENT TRACKING OR FLOW OF MUD OUT TO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH NO. 3 STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS (SPILLS, DROPPED, OR TRACKED FROM VEHICLES OR PUBLIC OR TO ROADWAYS OR INTO STORM DRAINS) MUST BE REMOVED IMMEDIATELY.

3. THE EXIT SHALL BE MAINTAINED OPEN TO THE STREET OR TO ENTRANCE TO PUBLIC RIGHT-OF-WAY, WHEN WASHING IS REQUIRED. IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN LOCATED PER THE CITY AND STATE REQUIREMENTS.

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN FIFTY FEET OF A STREAM AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR TWENTY-ONE DAYS OR MORE
DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN TWENTY-ONE DAYS BUT LESS THAN ONE YEAR AND NOT WITHIN FIFTY FEET OF A STREAM	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
NON-RESIDENTIAL SUBDIVISIONS AND COMMERCIAL DEVELOPMENTS	<p>WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE IF FURTHER CONSTRUCTION ACTIVITY WILL NOT OCCUR WITHIN TWENTY-ONE DAYS OF THE DISTURBANCE</p> <p>WHERE VEGETATION STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE PROHIBITED, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED.</p>
DISTURBED AREA THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

C1 of 4

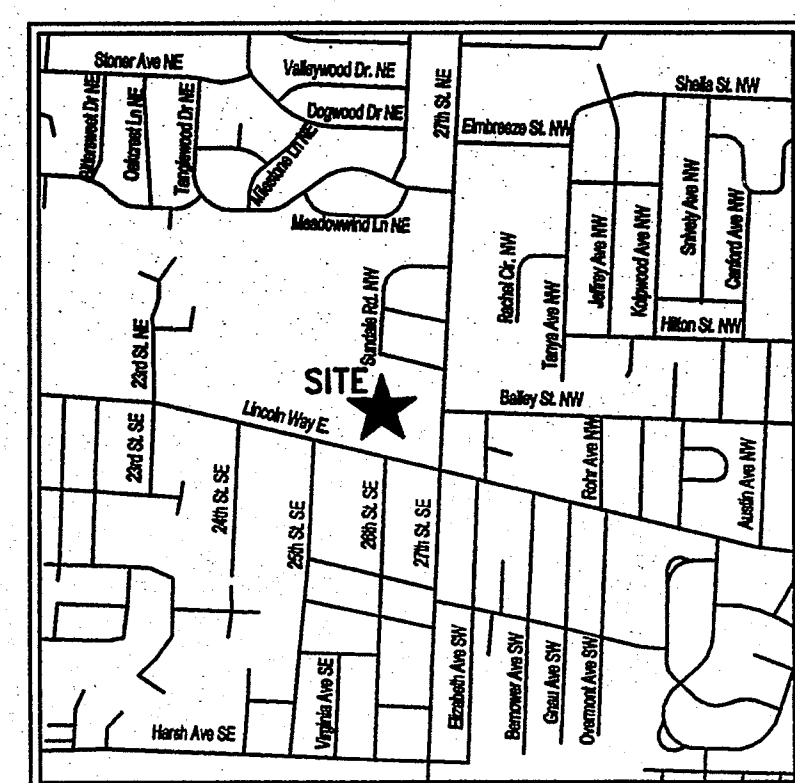
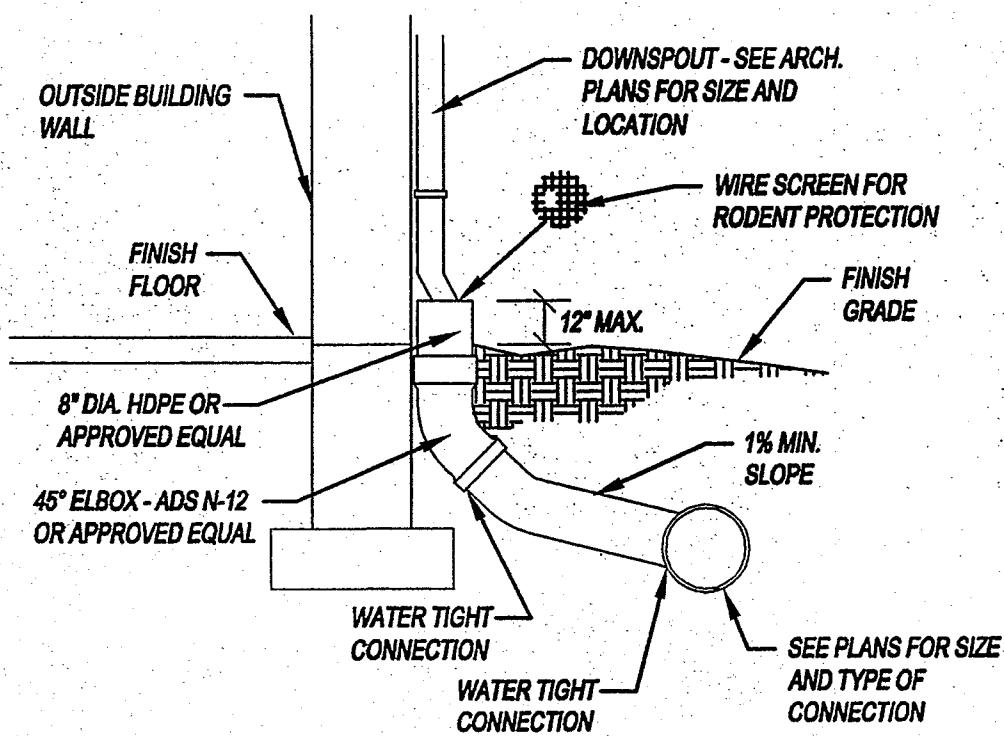


1 SITE DEVELOPMENT PLAN

C2 SCALE: 1" = 20'

2 ROOF DOWNSPOUT DETAIL

C2 SCALE: N.T.S.



THE CONTRACTOR SHALL CONDUCT A
PRE-CONSTRUCTION MEETING WITH THE CITY OF
MASSILLON ENGINEERING DEPARTMENT PRIOR TO
BEGINNING CONSTRUCTION

KEY NOTES:

1. CONCRETE PAVING: REFER TO DETAIL 1/C3.
ALTERNATE #1: ASPHALT PAVING, REFER TO DETAIL 2/C3.
2. CONCRETE PAVING: REFER TO DETAIL 1/C3.
3. CONCRETE CURB: REFER TO DETAIL 3/C3.
4. CONCRETE SIDEWALK: REFER TO DETAIL 4/C3.
5. CONCRETE DOOR LANDING: REFER TO DETAIL 4/C3 AND
STRUCTURAL DETAILS. RAMP PAVING AS INDICATED.
LANDING CAN BE POURED MONOLITHIC IF CONCRETE
PAVING IS USED.
6. STEEL BOLLARD: REFER TO DETAIL 6/C3. PROVIDE (4) @
TRASH PAD, (2) @ FREIGHT DOOR, AND (8) AT SIDEWALK.
REFER TO STRUCTURAL PLAN FOR LOCATION.
7. HANDICAP PARKING SIGN: REFER TO DETAIL 7/C3.
8. HANDICAP PARKING SYMBOL: REFER TO DETAIL 5/C3.
9. HANDICAP ACCESS UNLOADING ZONE: SLOPE 2% MAX
EACH WAY AND STRIPE AS SHOWN.
10. SCREEN FENCE GATES: REFER TO DETAIL 9/C3.
11. SCREEN FENCE: REFER TO DETAIL 10/C3.
12. CONCRETE BUMPER BLOCK: 8" WIDE X 5" HIGH X 8'-0"
LONG CONCRETE. ANCHOR TO PAVING W/ (2) 1"x4" LONG
#4 REBAR.
13. PARKING LOT LIGHT: REFER TO SITE LIGHTING PLAN FOR
LOCATION AND CONSTRUCTION.
14. NOT USED
15. STRIPING: PROVIDE 4" WIDE PARKING LOT STRIPING AS
SHOWN ON PLANS. USE HIGHWAY MARKING PAINT -
YELLOW (2 COATS).
16. SIGN LOCATION: SIGN FURNISHED AND INSTALLED BY
OWNER. ALL SIGNAGE SHALL COMPLY WITH REGULATIONS
AS OUTLINED IN THE CITY OF MASSILLON ZONING
ORDINANCE.
17. SAWCUT EXISTING PAVEMENT: ITEM 407 TACK COAT
SHALL BE APPLIED TO CUT FACE PRIOR TO INSTALLING
NEW PAVEMENT.
18. RETAINING WALL: REFER TO DETAIL 10/S3. GUARDRAIL
TO BE PLACED ALONG TOP OF WALL. REFER TO DETAIL
19/S3.
19. SIDEWALK TO BE REMOVED AND REPLACED AS
NECESSARY TO LINE UP WITH PROPOSED WALK IN FRONT
OF BUILDING.
20. REMOVE EXISTING STRIPING.
21. HANDICAP CURB RAMP: REFER TO DETAIL 5/C4.
22. REMOVE EXISTING CURB AND REPLACE WITH DEPRESSED
CURB.
23. 2" CONCRETE CURB REFER TO DETAIL 8/C4.
24. EXISTING LIGHT POLE TO BE REMOVED.
(CONTRACTOR SHALL COORDINATE
WITH K MART)
25. CONCRETE SIDEWALK: REFER TO DETAIL
4/C3 AND 1/C4.

GENERAL NOTES:

- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. ALL SITE DIMENSIONS TO THE GUTTER LINE OF CURB, CONCRETE OR PROPERTY LINE UNLESS OTHERWISE NOTED.
- C. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND STARTING CONSTRUCTION.
- D. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- E. REFER TO STRUCTURAL PLANS FOR DEVELOPMENT OF SIDEWALKS ADJACENT TO FOUNDATIONS.
- F. TOTAL LOT AREA = 0.827 AC. (36,037 S.F.)
- G. ALL ASPHALT SURFACE OR EXISTING PUBLIC ROADWAYS DAMAGED DURING CONSTRUCTION SHALL BE SAWCUT, REMOVED, AND REPLACED. THE NUMBER OF SAWCUTS SHALL BE MINIMIZED IN ORDER TO MAKE ONE CONTINUOUS PATCH AS DIRECTED BY THE PROJECT MANAGER AND/OR LOCAL AND STATE OFFICIALS.
- H. ALL CURB RADI ARE 5' UNLESS OTHERWISE NOTED.

SITE SUMMARY:

TOTAL PROJECT AREA: 0.827 AC.
AREA IN ZONE: "B-3" GENERAL COMMERCIAL

TOTAL PARKING SPACES REQUIRED: 35
TOTAL PARKING SPACES PROVIDED: 46
STANDARD PARKING SPACES PROVIDED: 44
HANDICAPPED PARKING SPACES PROVIDED: 2

SITE UTILITIES NOTE:

SEE SITE UTILITY SHEET SU-1 FOR SIZE AND LOCATION OF
PROPOSED UTILITIES

NOTE:

ODOT STANDARD DRAWINGS CAN BE FOUND ONLINE AT:
www.odot.state.oh.us/standard/Hydraulic/index.htm

MAINTENANCE OF TRAFFIC NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2008 STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND CURRENT STANDARD DRAWINGS, UNLESS OTHERWISE NOTED.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE C&M SPECIFICATIONS AS WELL AS IN ACCORDANCE WITH PART 7 OF ODOT. LANE CLOSURES SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWINGS MT-97.10, MT-98.10.
3. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGH THE USE OF FLAGGERS AND SAFETY CONES, AS DIRECTED BY THE CITY ENGINEER.
4. THE CONTRACTOR MUST COORDINATE THE WORK SO AS TO NOT INTERRUPT INGRESS AND EGRESS FROM AFFECTED PROPERTIES.
5. IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THAT THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN WILL BE PUT INTO EFFECT UNTIL THE APPROVAL HAS BEEN OBTAINED, IN WRITING, BY THE CITY ENGINEER.
6. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES.
7. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED WORK SHALL BE PLATED OR BACKFILLED AT THE DIRECTION OF THE CITY ENGINEER.
8. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED PRIOR TO BEGINNING CONSTRUCTION.

LOCATION OF ALL EXISTING UTILITIES TO BE
DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION.

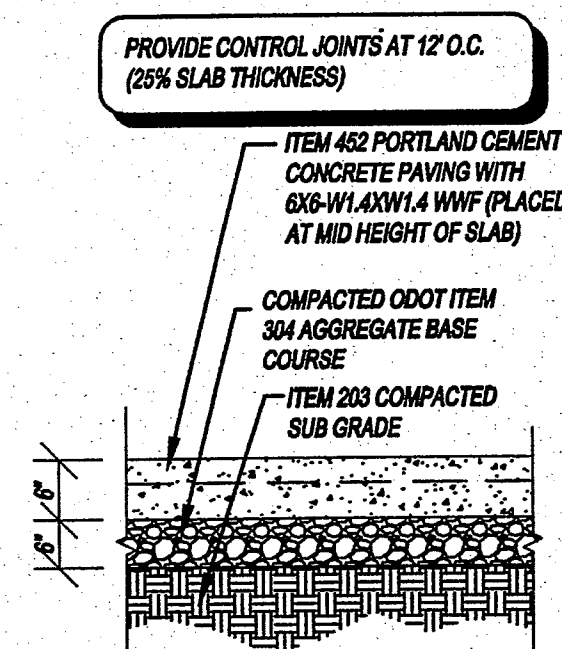
SYMBOLS LEGEND

NOTE: REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND.

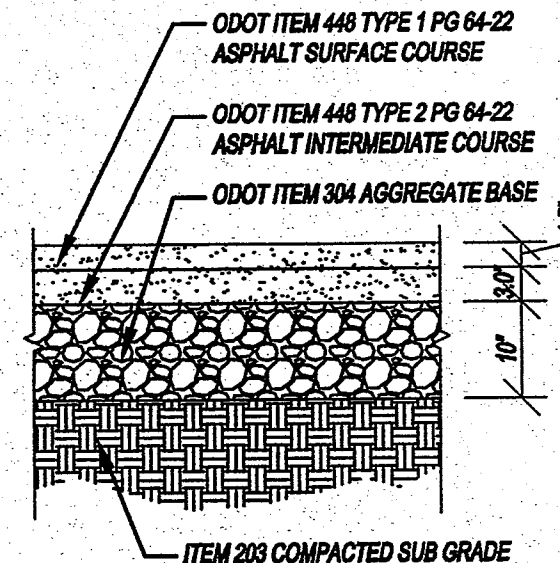
- AREA OF EXISTING ASPHALT PAVEMENT TO REMAIN
- AREA OF CONCRETE
- AREA OF PAVING
- NEW BUILDING
- NEW SIGN LOCATION
- NEW LIGHT POLE LOCATION
- NEW CONCRETE PARKING BLOCK

UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
Call 1-800-362-2764
OHIO UTILITY
PROTECTION SERVICE
NON MEMBERS
MUST BE CALLED DIRECTLY

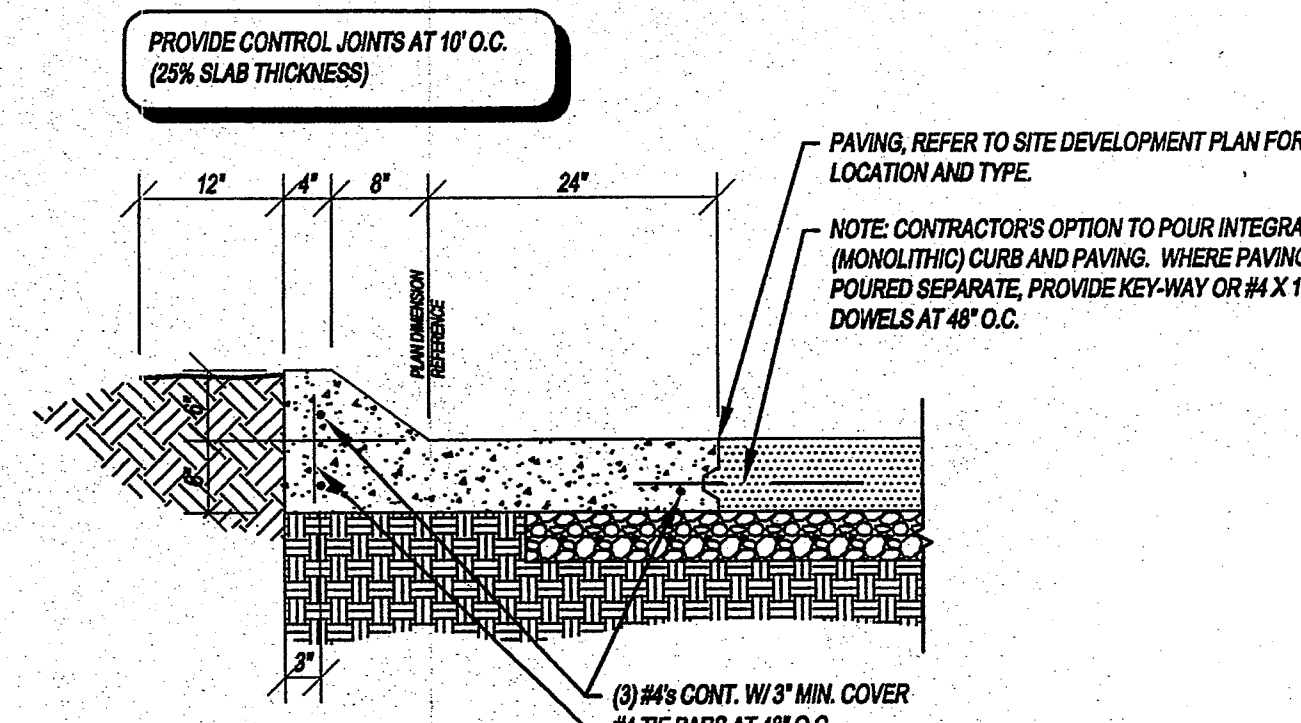
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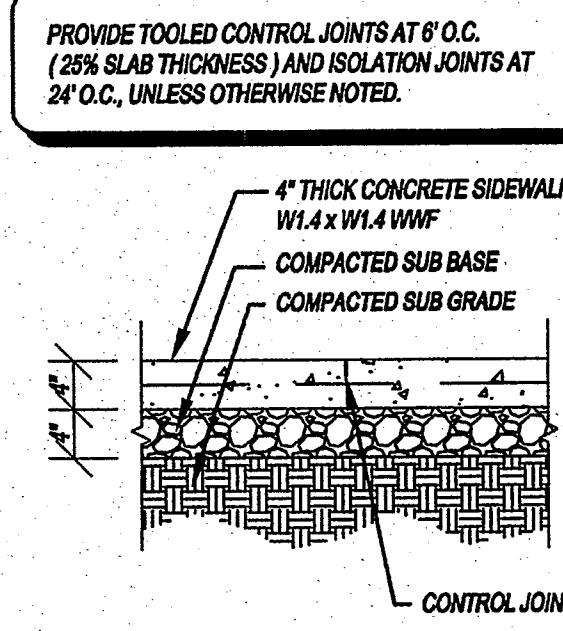
1 CONCRETE PAVING SECTION



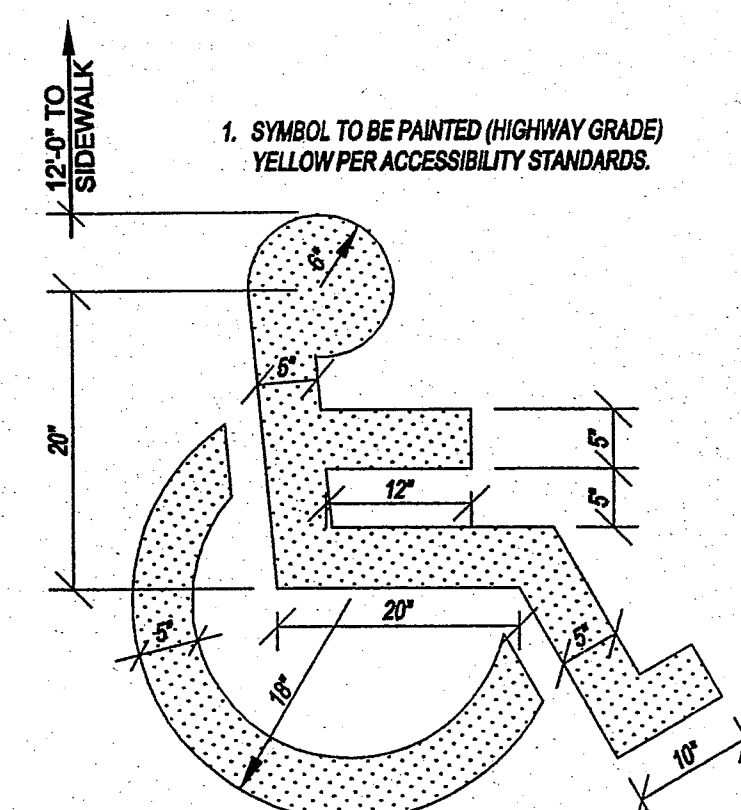
2 ASPHALT PAVING SECTION



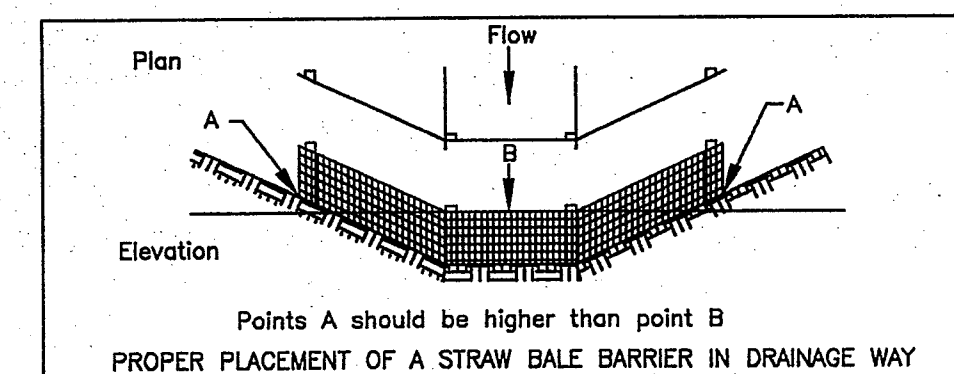
3 CONCRETE CURB SECTION C3 SCALE: 3/4" = 1'-0"



CONCRETE SIDEWALK SECTION

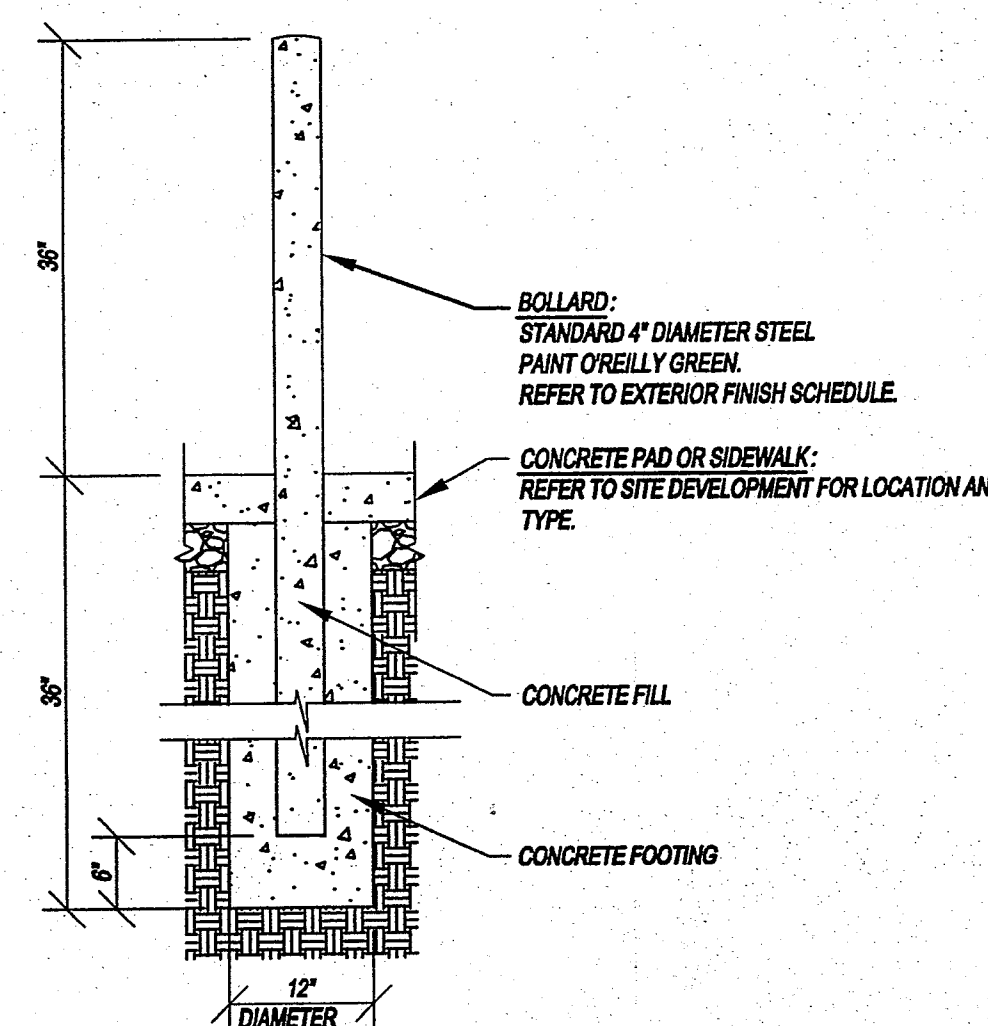


5 HANDICAP PARKING SYMBOL

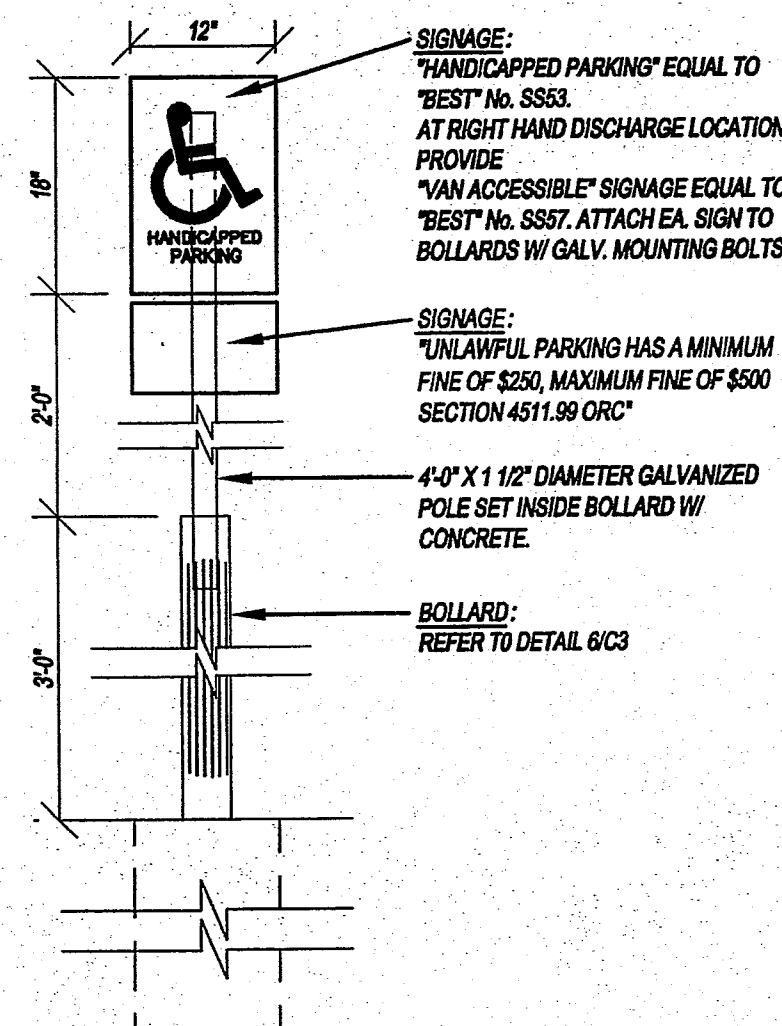


Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control. Sherwood and Wyant

13 DITCH CHECK

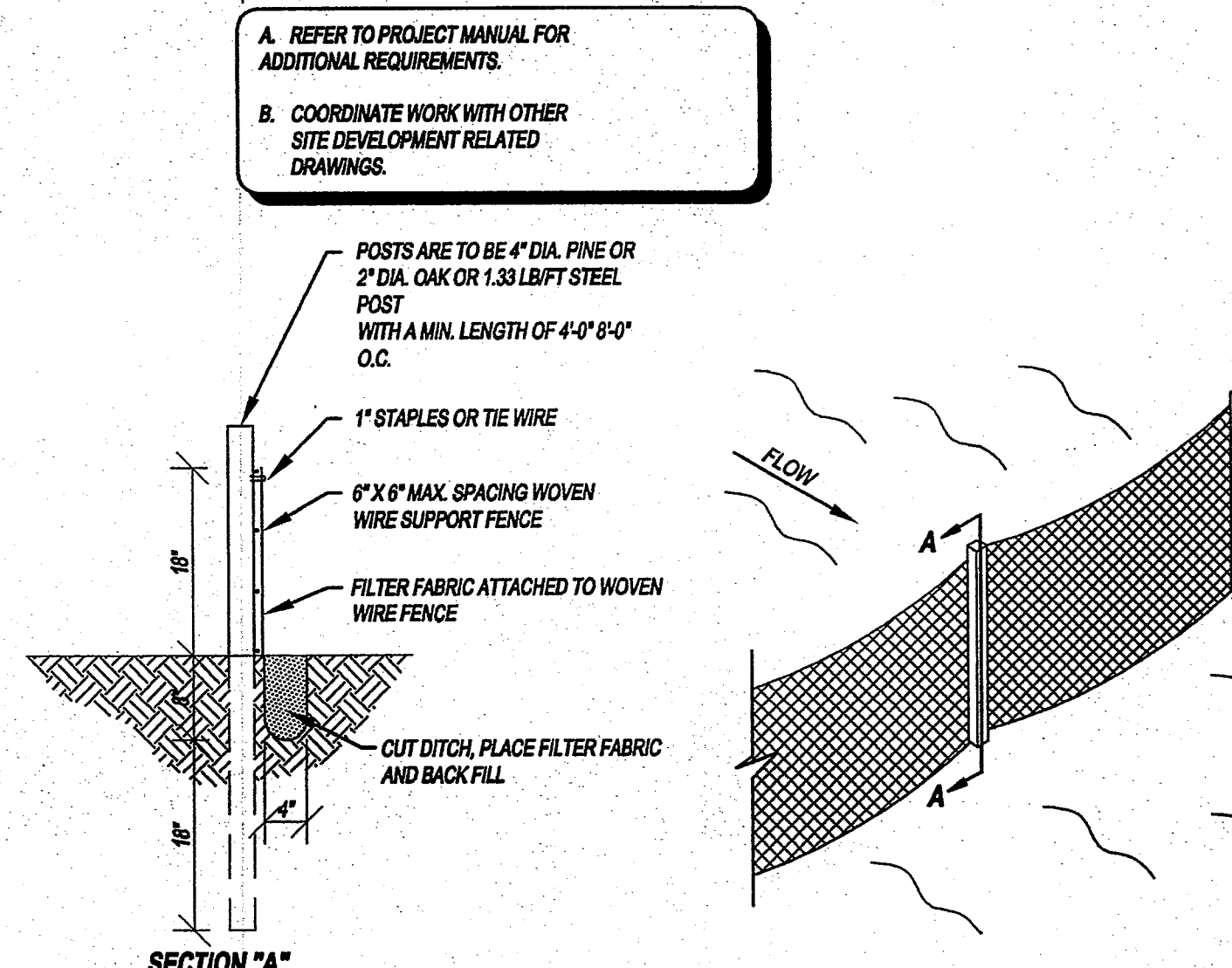


6	STEEL BOLLARD SECTION
C3	SCALE: 3/4" = 1'-0"



7 **HANDICAP**
PARKING SIGN

C3 **SCALE: 3/4" = 1'-0"**



8 FABRIC SILT FENCE

The patented Dandy Bag is designed for use with flat grates (including round) and mountable curbs to detain sediment-laden storm water. The suspended solids are allowed to settle out of the slowed flow prior to entering the Dandy Bag.

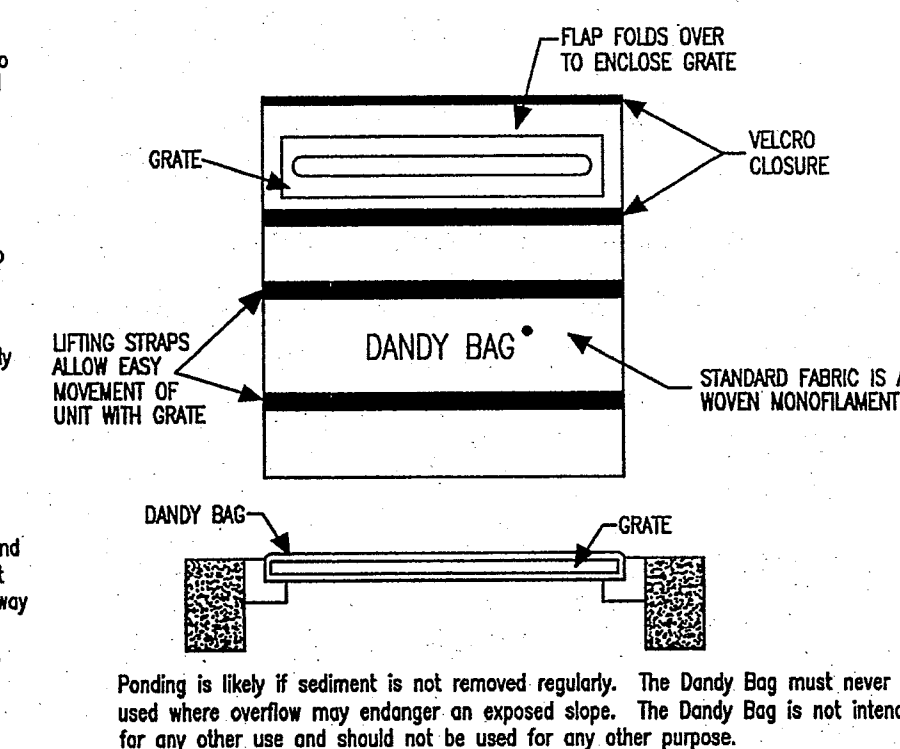
- ### INSTALLATION
1. Stand the grate on end
 2. Place the Dandy Bag over the grate
 3. Roll the grate over so that the open end is up
 4. Pull up the slack
 5. Tuck the flap in
 6. Press the Velcro strips together
 7. Be sure that the end of the grate is completely covered by the flap or the Dandy Bag will not work properly
 8. Holding the handles, carefully place the Dandy Bag with the grate inserted into the catch basin frame

MAINTENANCE

To insure proper operation remove silt, sediment, and debris from the surface and the vicinity of the unit with a square point shovel or stiff bristle broom over environmentally sensitive areas and waterways in a manner satisfactory to the engineer/inspector. Remove fine material from inside Dandy Bag as needed.

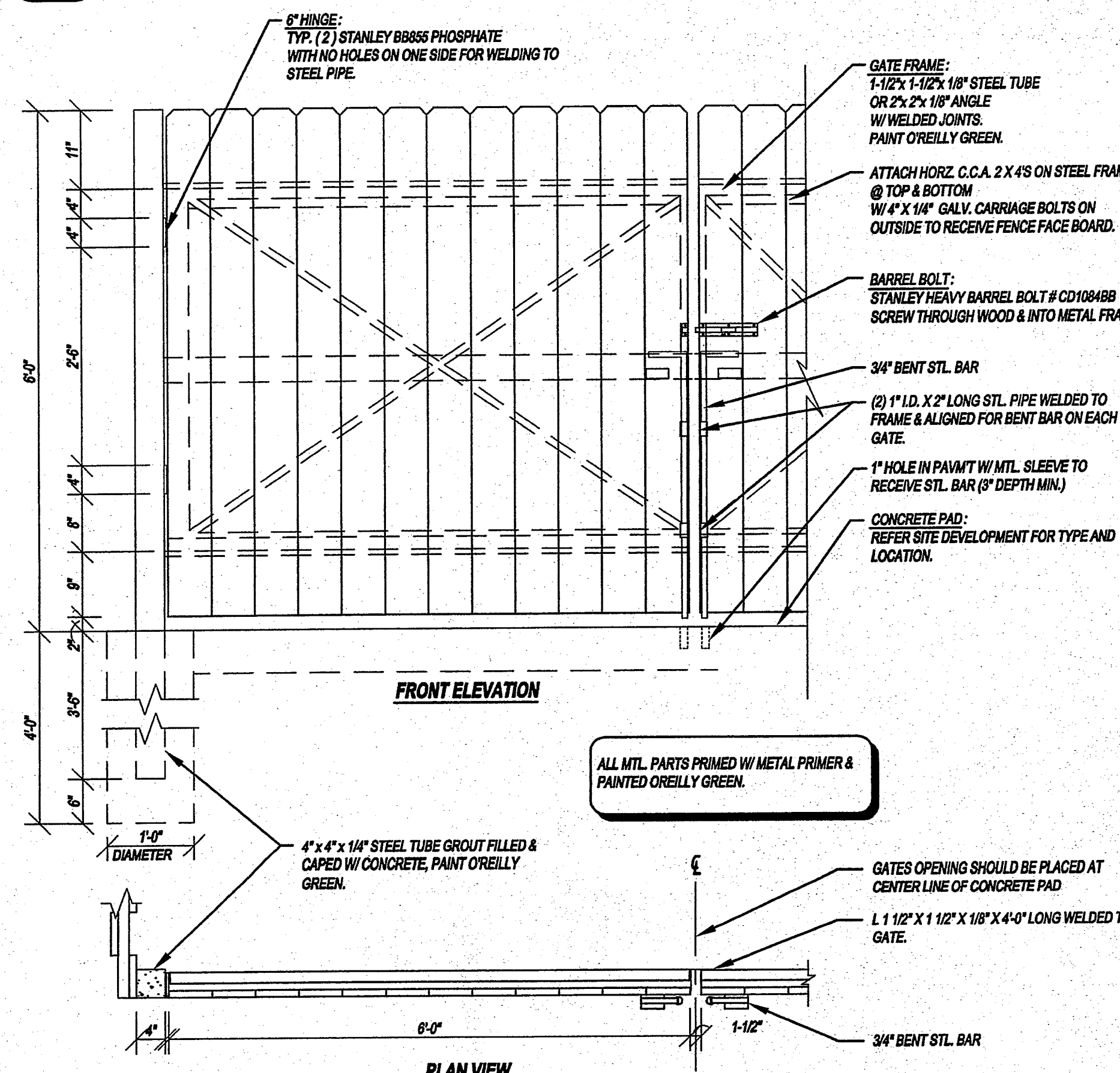
INLET INSPECTION

To inspect inlet, remove Dandy Bag with grate inside inspect catch basin and replace Dandy Bag back into grate frame.

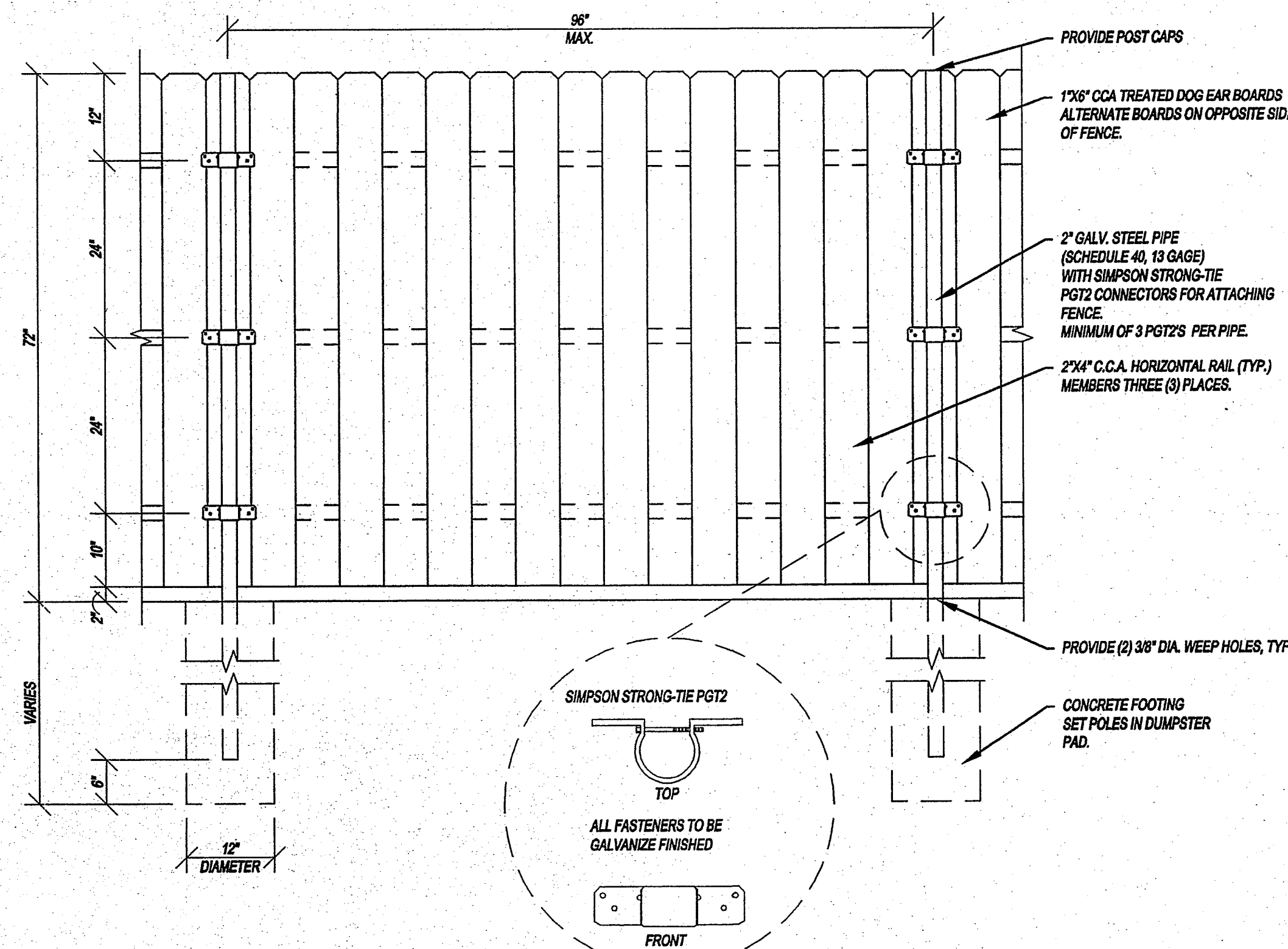


11 DANDY BAG

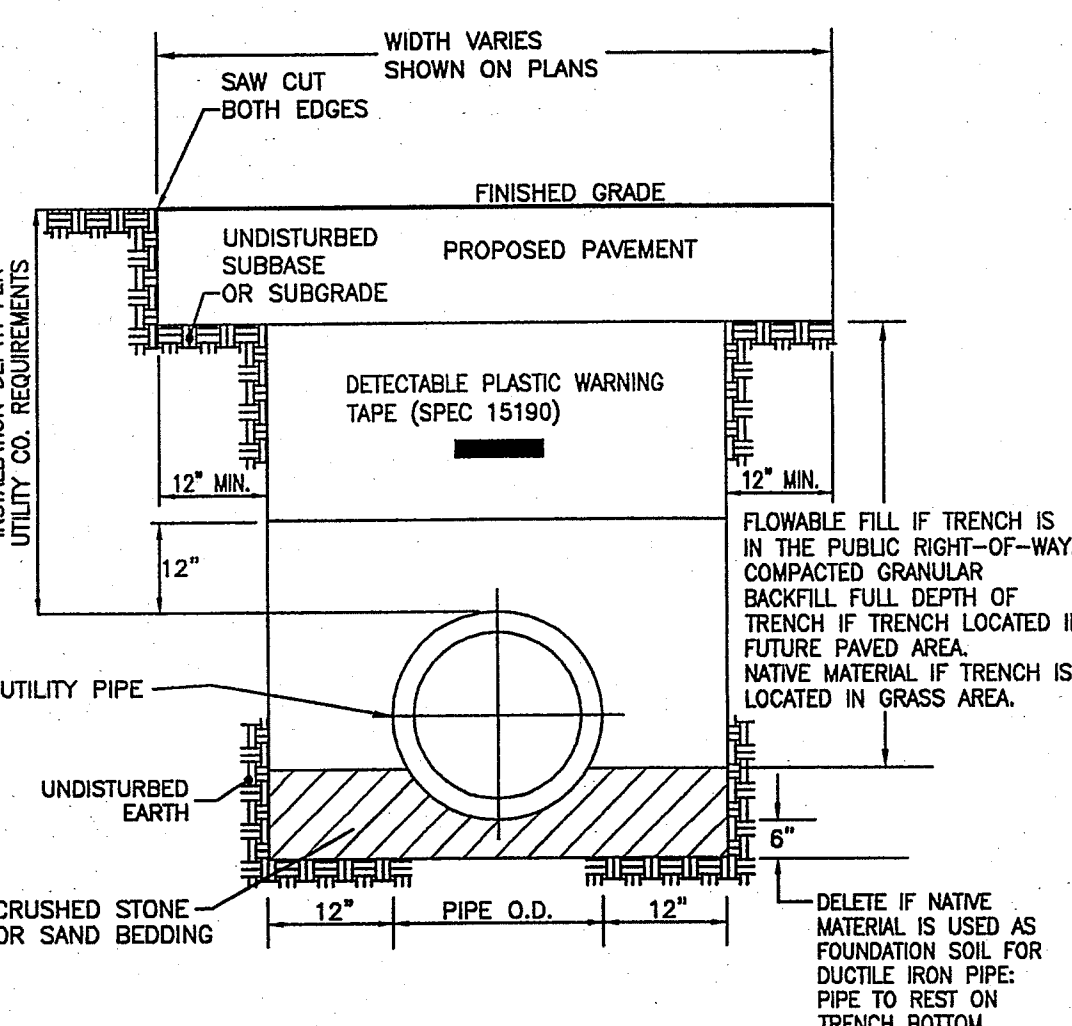
C3 SCALE: N.T.S.



9	SCREEN FENCE GATE
C3	SCALE: 3/4" = 1'-0"

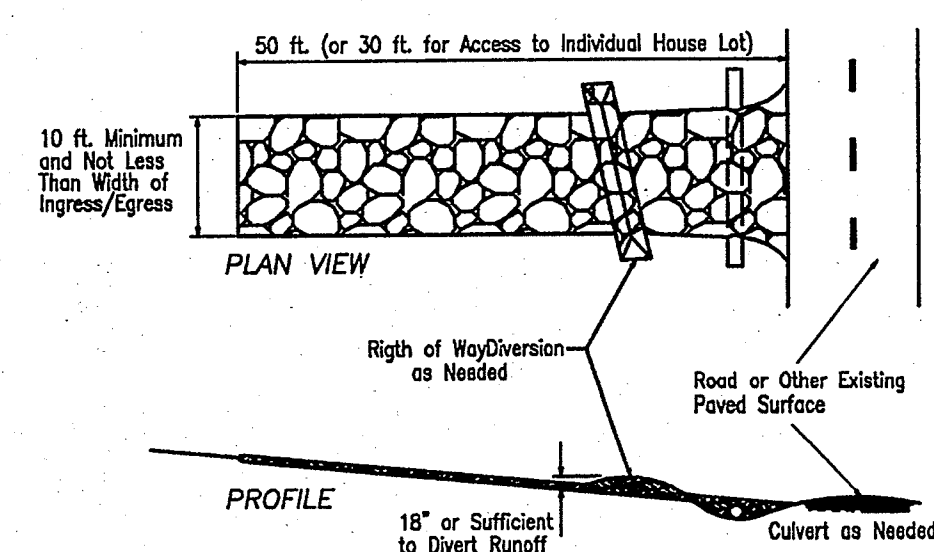


10 SCREEN FENCE DETAIL

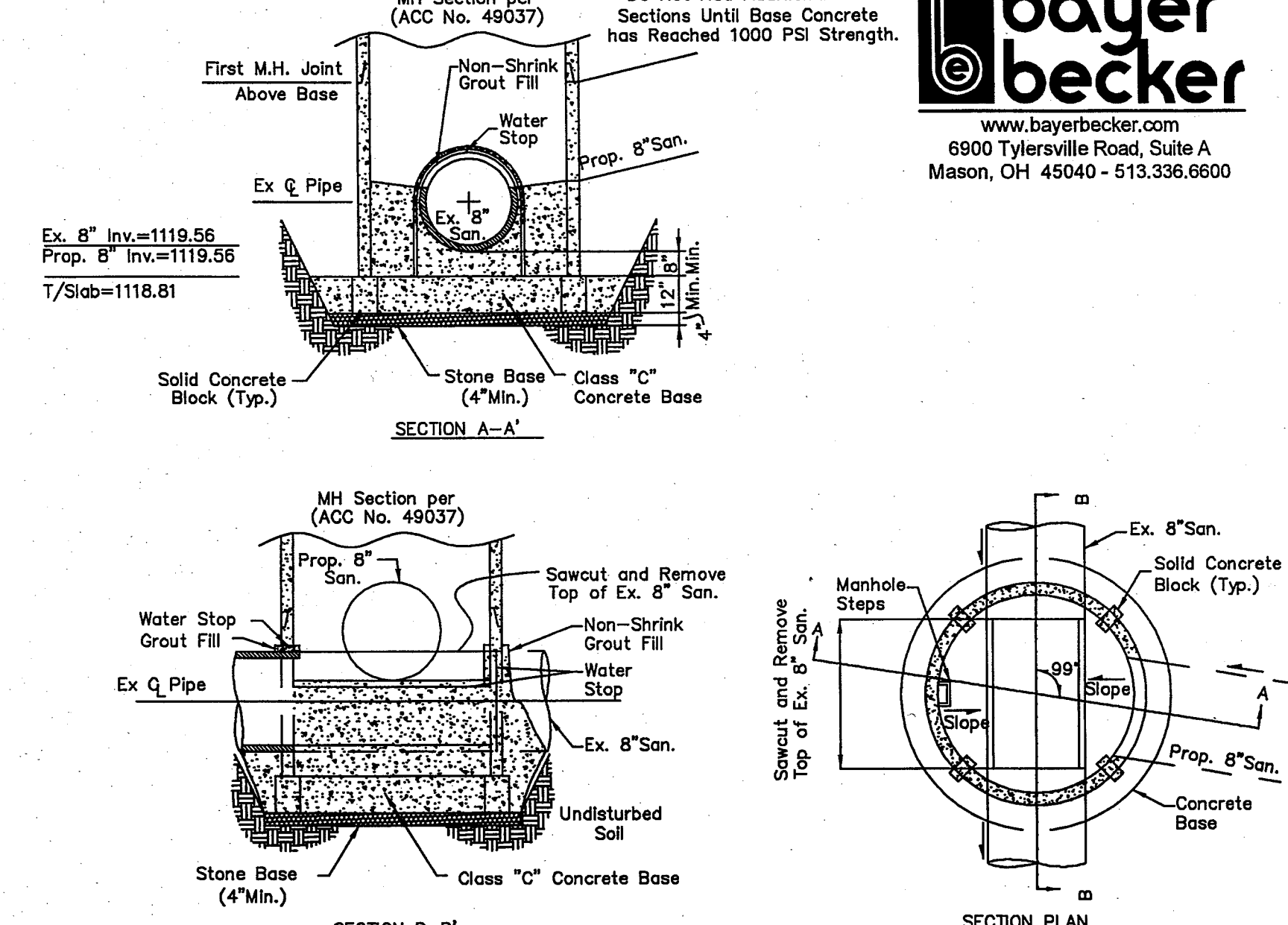
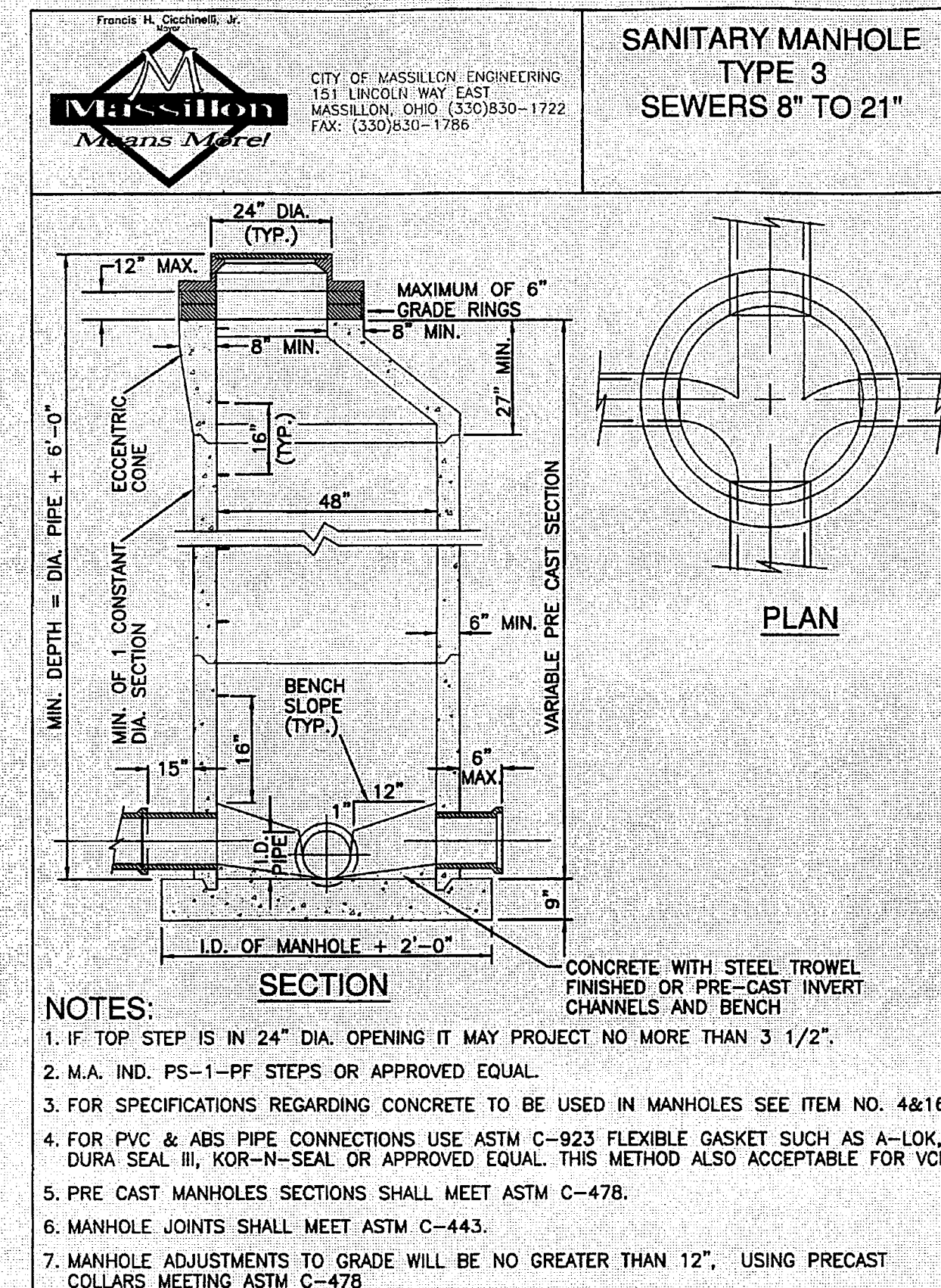
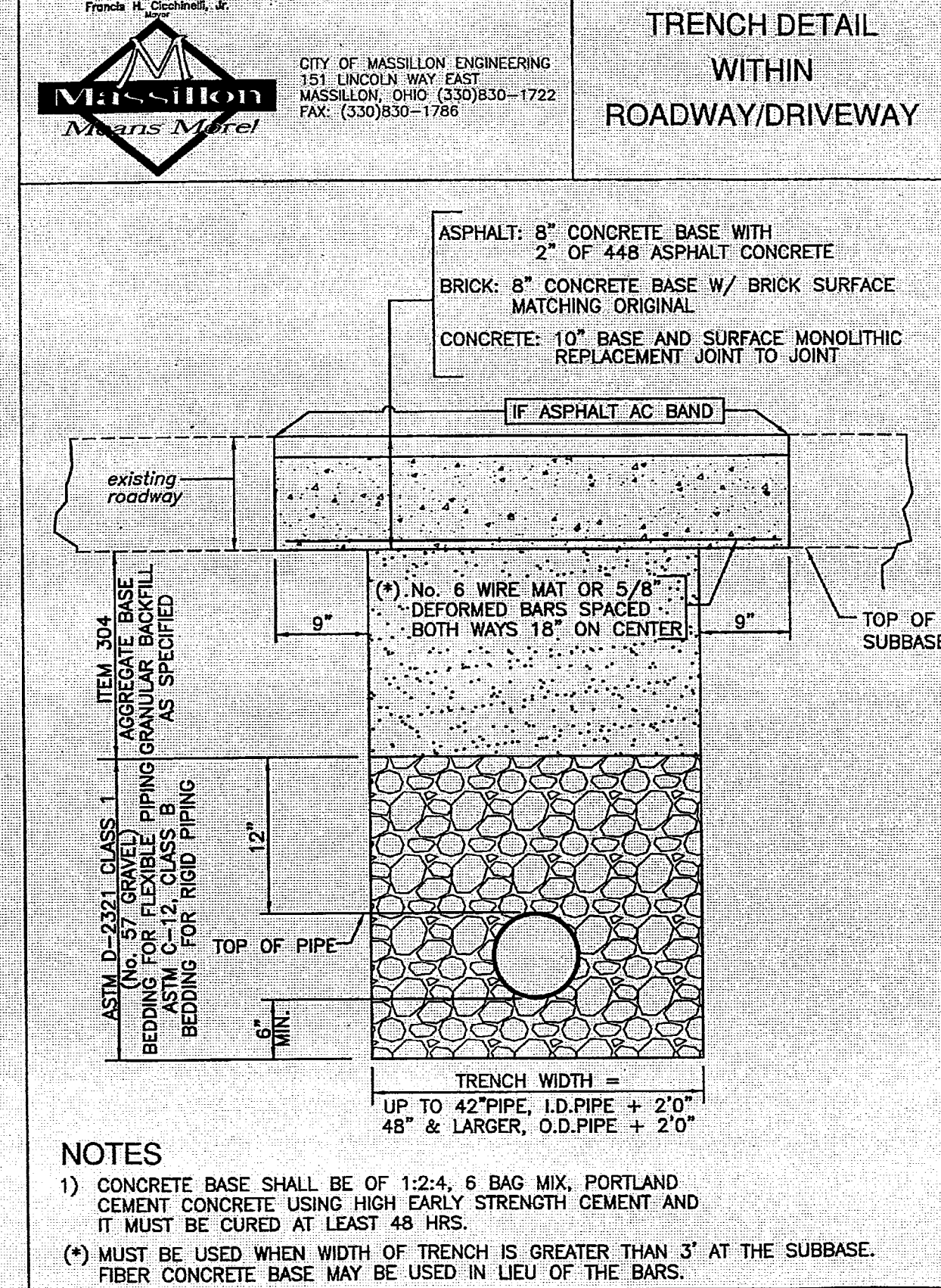
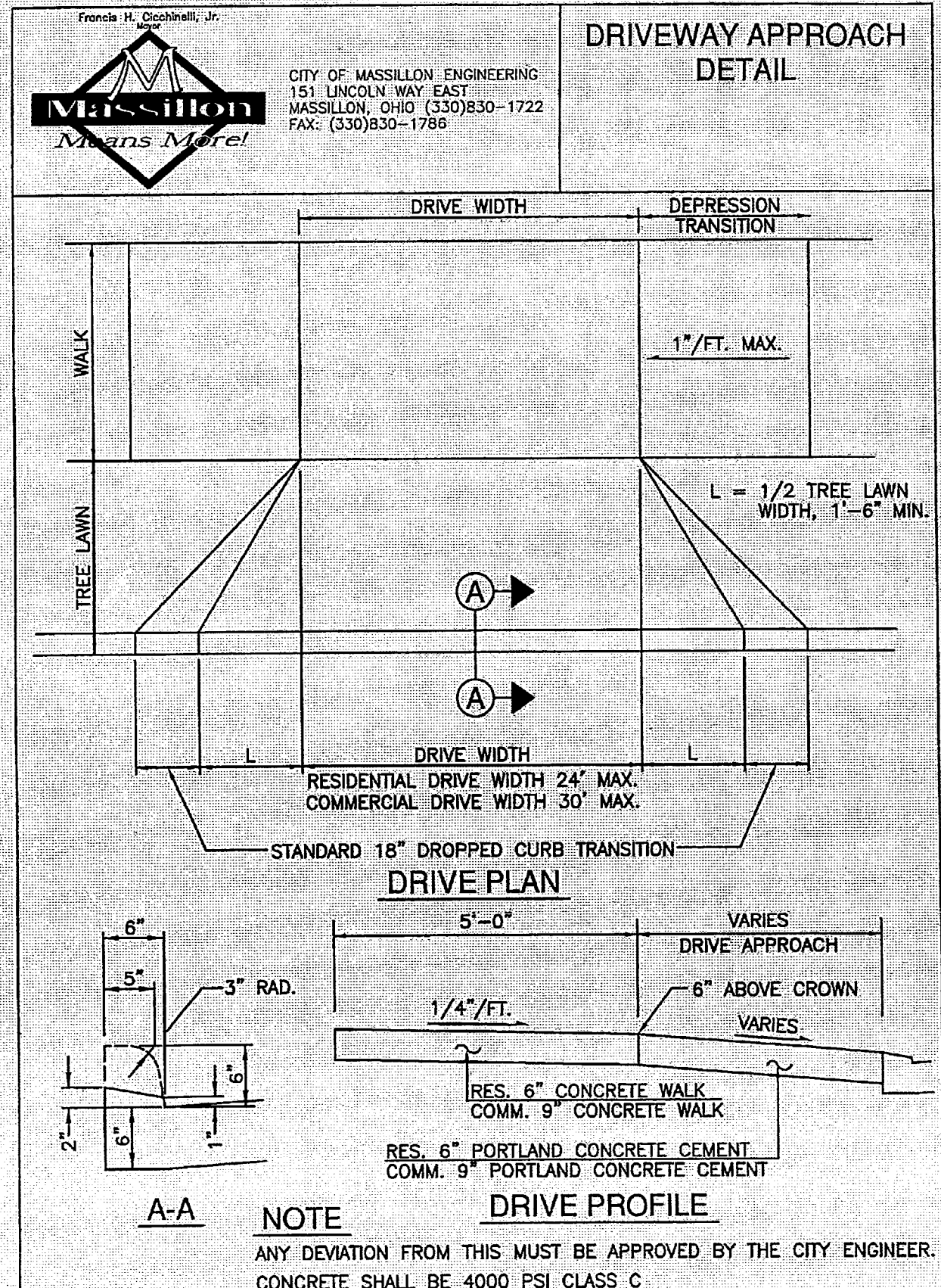


12 PIPE INSTALLATION DETAIL

1. **Stone Size** – Two-inch stones shall be used, or recycled concrete equivalent.
2. **Length** – The construction entrance shall be as long as required to stabilize high traffic areas but not less than 50 ft. (except on single railroad tracks where a 100 ft. length is required).
3. **Thickness** – The stone layer shall be at least 6 in. thick.
4. **Width** – The entrance shall be at least 10 ft. wide, but not less than full width at points where ingress or egress occurs.
5. **Bedding** – A geotextile shall be placed over the entire area prior to placing stone. It shall have a Grab Tensile Strength of at least 200 lb. per inch.
6. **Curbs** – A pipe or curb shall be constructed under the entrance if needed to prevent surface water flowing across the entrance from being directed out onto paved surfaces.
7. **Water Bar** – A water bar shall be constructed on part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces.
8. **Maintenance** – Top dressing of additional stone shall be applied as needed to maintain, but not exceed, the required stone depth. No pits, cracks, or any surface where runoff is not checked by sediment controls, shall be removed immediately. Removal shall be accomplished by the contractor at no cost to the agency.
9. **Construction entrances** shall not be relied upon to remove mud from vehicles and prevent off-site tracking. Vehicles that enter and leave the site shall be inspected and cleaned to remove mud.



14 CONSTRUCTION ENTRANCE DETAIL



1 DRIVEWAY APPROACH

2 TRENCH DETAIL WITHIN ROADWAY/DRIVEWAY

3 SANITARY MANHOLE

4 SANITARY MANHOLE DOG HOUSE STYLE

SANITARY NOTES

EROSION CONTROL

THE CONTRACTOR SHALL PREPARE AND SUBMIT A STORM WATER POLLUTION CONTROL PLAN TO THE CITY OF MASSILLON ENGINEER TO BE FORWARDED TO THE APPROPRIATE PERMITTING AGENCIES. SAID PLAN MUST COMPLY WITH THE MOST CURRENT RULES AND REGULATIONS OF THE CITY OF MASSILLON.

SANITARY SEWER SPECIFICATIONS

SANITARY SEWER CONSTRUCTION PROPOSED FOR THIS PROJECT SHALL CONFORM TO THE LATEST CITY OF MASSILLON STANDARD CONSTRUCTION AND MATERIALS SPECIFICATIONS, TEN STATE STANDARDS, AND THE LATEST EDITION OF THE CDD CDS, OR MODIFIED BY THE CONTRACT DRAWINGS. IF A CONFLICT ARISES BETWEEN SAID STANDARDS IT SHALL BE AT THE DISCRETION OF THE CITY ENGINEER AS TO WHICH STANDARD SHALL GOVERN. THE PROJECT CONTRACT DRAWINGS SHALL GOVERN UNLESS NOTED OTHERWISE.

SANITARY GRAVITY SEWER PIPE AND FITTINGS SHALL BE PVC SDR 35 CONFORMING TO ASTM D-3034 UNLESS OTHERWISE NOTED. PVC COMPOUNDS SHALL CONFORM TO ASTM D-1784 PVC PIPE AND FITTINGS SHALL HAVE BELL AND SPIGOT TYPE JOINTS CONFORMING TO ASTM D-3212 AND GASKETS CONFORMING TO ASTM F-477.

BACKFILL IN SEWER TRENCHES SHALL BE PLACED IN LAYERS SUFFICIENT TO MEET THE COMPACTION REQUIREMENT OF 100% OF MAXIMUM LABORATORY DRY DENSITY PER ASTM D-1557 AND THOROUGHLY COMPACTIONED WITH MACHINE MOUNTED COMPACTION EQUIPMENT. THE PLACING OF BACKFILL MATERIAL SHALL BE CONTINUED UNTIL THE TRENCH IS FULLY FILLED AND COMPACTIONED TO THE GRADE CALLED FOR ON THE CONTRACT DRAWINGS. EXCAVATED MATERIAL CONFORMING TO CDD ITEM 303 SHALL BE USED FOR BACKFILLING EXISTING STRUCTURES (AFTER REMOVAL) ONLY. CRUSHED GRAVEL CONFORMING TO GRADATION REQUIREMENTS OF CDD ITEM 304 AS SHOWN IN CDD ITEM 304 SHALL BE USED FOR BACKFILLING ALL SEWER REMOVALS. AREAS SHOWN ON THE PLANS AND AS DIRECTED BY THE CITY ENGINEER, FLOODING, SETTING, OR PULLING OF BACKFILL MATERIAL WILL NOT BE PERMITTED. COMPACTION TESTING OF THE BACKFILL BY A GEOTECHNICAL ENGINEER MAY BE REQUIRED BY THE OWNER AT THE EXPENSE OF THE CONTRACTOR.

SANITARY SEWERS SHALL BE AIR TESTED FOR LEAKAGE AND MANHOLE TESTED FOR DEFLECTION. THE MAXIMUM ALLOWABLE PIPE DEFLECTION SHALL BE 5%.

PRIOR TO FINAL PAYMENT FOR AND ACCEPTANCE OF SANITARY SEWER INSTALLATION THE RESULTS OF THE AIR PRESSURE TESTS, TELEVISION TESTS AND MANHOLE TESTS SHALL BE FORWARDED TO THE CITY ENGINEER.

DEFLECTION TESTING

MAXIMUM ALLOWABLE PIPE DEFLECTION (REDUCTION IN VERTICAL INSIDE DIAMETER) SHALL BE 5%. DEFLECTION TESTS OF PIPE SHALL BE PERFORMED NOT SOONER THAN 30 DAYS AFTER THE BACKFILL HAS BEEN PLACED AND BEFORE FINAL ACCEPTANCE. LOCATIONS WITH EXCESS DEFLECTION SHALL BE EXCAVATED AND REPLACEMENT OF THE PIPE AT THE CONTRACTOR'S EXPENSE. DEVICES FOR TESTING INCLUDE A DEFLECTOMETER METER, OR PROPERLY SIZED 60, NO. 60 MANHOLE OR SEWER BALL. THE DEFLECTION TESTING MUST BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES. FOR THE PURPOSE OF DEFLECTION MEASUREMENTS, THE BASE INSIDE PIPE DIAMETERS IN WITHIN DEFLECTION ARE PROVIDED IN TABLE A. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE APPLIED TO THE BASE INSIDE DIAMETER IN DETERMINING THE MINIMUM PERMISSIBLE DIAMETER. IT MUST BE EMPHASIZED THAT TO INSURE ACCURATE TESTING, THE LINES MUST BE THOROUGHLY CLEANED.

TABLE A
INSIDE DIAMETERS FOR DEFLECTION MEASUREMENTS
OF ASTM D 3034 SDR 35 / SDR 21 PVC SEWER PIPE

SIZE	SDR	AVG. O.D.	1	1.06% OF 1"	AVG. I.D.	TOLERANCE	BASE I.D.	DEFLECTION MANHOLE
6"	35	6.275	0.241	5.784	0.102	5.682	5.36	
8"	35	8.400	0.323	0.342	7.715	0.127	7.588	
10"	35	10.500	0.404	0.428	9.644	0.153	9.491	

TELEVISION TESTING

ALL SANITARY SEWERS, 8-INCH DIAMETER AND LARGER, MUST PASS AN INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE COMPLETE INTERNAL INSPECTION VIDEO TAPE TO THE CITY OF MASSILLON ENGINEERING DEPARTMENT. THE VIDEO TAPING PROCEDURE SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON ENGINEERING DEPARTMENT STANDARDS.

LEAKAGE TESTS

LEAKAGE TESTS SHALL BE SPECIFIED. THIS MAY INCLUDE APPROPRIATE WATER OR LOW PRESSURE AIR TESTING. THE TESTING METHODS SELECTED SHOULD TAKE INTO CONSIDERATION THE RANGE IN GROUNDWATER ELEVATIONS DURING THE TEST AND ANTICIPATED DURING THE DESIGN LIFE OF THE SEWER COMPLETED AND ACCEPTED.

WATER (HYDROSTATIC) TEST

THE LEAKAGE EXFILTRATION OR INFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY (94.6 ML/IN. OF PIPE DIAMETER KM D) FOR ANY SECTION OF THE SYSTEM. AN EXFILTRATION OR INFILTRATION TEST SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET (0.6 M).

AIR TESTING AS PER ASTM E1417

AIR TESTING WILL BE CONDUCTED AS THE PROJECT IS BEING INSTALLED. AT NO TIME WILL MORE THAN 900 FEET OF PIPE BE INSTALLED BEFORE AIR TESTING IS PERFORMED. SEWAGE WILL NOT BE DIVERTED TO ANY SECTION OF PIPE, REGARDLESS OF LENGTH, UNTIL ALL TESTING IS COMPLETED AND ACCEPTED.

AFTER BACKFILLING A MANHOLE TO MANHOLE REACH OF SANITARY SEWER LINE, THE CONTRACTOR SHALL, AT HIS EXPENSE, CONDUCT THE LINE ACCEPTANCE TESTS. THE TESTS SHALL BE PERFORMED ACCORDING TO THE STATED PROCEDURES AND UNDER THE SUPERVISION OF THE CITY ENGINEER OR HIS REPRESENTATIVE.

EQUIPMENT USED SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS AND BE APPROVED BY THE ENGINEER:

1. PNEUMATIC PLUGS SHALL HAVE A SEALING LENGTH EQUAL TO OR GREATER THAN THE DIAMETER OF THE PIPE BEING INSPECTED.
2. PNEUMATIC PLUGS SHALL RESIST INTERNAL TEST PRESSURES WITHOUT REQUIRED EXTERNAL BRACING OR BLOCKING.
3. ALL AIR USED SHALL PASS THROUGH A SINGLE CONTROL PANEL.
4. THREE INDIVIDUAL HOSES SHALL BE USED FOR THE FOLLOWING CONNECTIONS:
 - a. FROM CONTROL PANEL TO PNEUMATIC PLUGS FOR INFLATION.
 - b. FROM CONTROL PANEL TO SEALED LINE FOR INTRODUCING THE LOW PRESSURE AIR.
 - c. FROM SEALED LINE TO CONTROL PANEL FOR CONTINUALLY MONITORING AIR PRESSURE RISE IN THE SEALED LINE.

TEST EQUIPMENT TESTING PROCEDURES SHALL BE AS FOLLOWS:

ALL PNEUMATIC PLUGS SHALL BE SEAL TESTED BEFORE BEING USED IN THE ACTUAL TEST INSTALLATION. ONE LENGTH OF PIPE SHALL BE LAID ON THE GROUND AND SEALED AT BOTH ENDS WITH THE PNEUMATIC PLUGS TO BE CHECKED. THE SEALED PIPE SHALL BE PRESSURED TO 5 PSIG. THE PLUGS MUST HOLD AGAINST THIS PRESSURE WITHOUT HAVING TO BE BRACED.

AFTER A MANHOLE TO MANHOLE REACH OF PIPE HAS BEEN BACKFILLED AND CLEANED, AND THE PNEUMATIC PLUGS ARE CHECKED BY THE ABOVE PROCEDURE, THE PLUGS SHALL BE PLACED IN THE LINE AT EACH MANHOLE. LOW PRESSURE AIR SHALL BE SLOWLY INTRODUCED INTO THIS SEALED LINE UNTIL THE INTERNAL AIR PRESSURE REACHES APPROXIMATELY 4 PSIG.

WORKING AREA

NO EXCAVATION WITH SIDE SLOPES STEEPER THAN 2:1 WILL BE PERMITTED. OPEN CASTINGS AND PIPES SHALL BE LEFT SECURED WHEN THE TRENCH IS LEAVE. THE CONTRACTOR SHALL SECURE ALL SUCH EXCAVATIONS, OPEN CASTINGS AND PIPES AGAINST UNAUTHORIZED ENTRY COVERING WITH STEEL PLATES, TEMPORARY BACK FILLING, FENCING AND SECURITY SERVICES SHALL BE INCLUDED IN THE PRICE BID FOR THE WORK.

FINAL APPROVAL

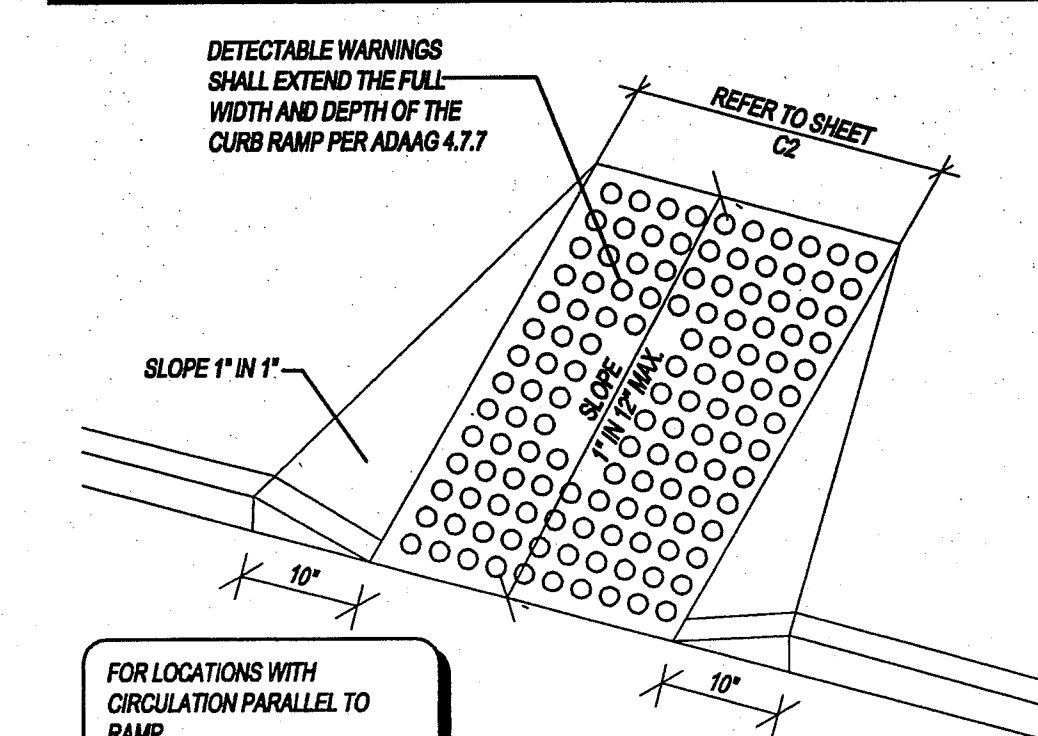
PRIOR TO THE PROJECT COMMENCING AND AFTER THE FINAL INVOICE IS SUBMITTED, A VIDEO TAPE WILL BE MADE BY THE CONTRACTOR AND SUBMITTED TO THE CITY ENGINEER BEFORE FINAL ACCEPTANCE OF THE PROJECT. ANY DISCREPANCIES WILL BE RESOLVED PRIOR TO FINAL PAYMENT. AS BUILT DRAWINGS SHALL BE MAINTAINED BY THE CONTRACTOR ON SITE WITH ANY CORRECTIONS BEING RED LINED ON MYLAR DRAWINGS AND SUBMITTED TO THE CITY IN A CLEAR AND LEGIBLE MANNER PRIOR TO THE FINAL INVOICE BEING PAID.

COST OF THIS WORK SHALL BE INCLUDED IN ITEM 623 CONSTRUCTION STARTING

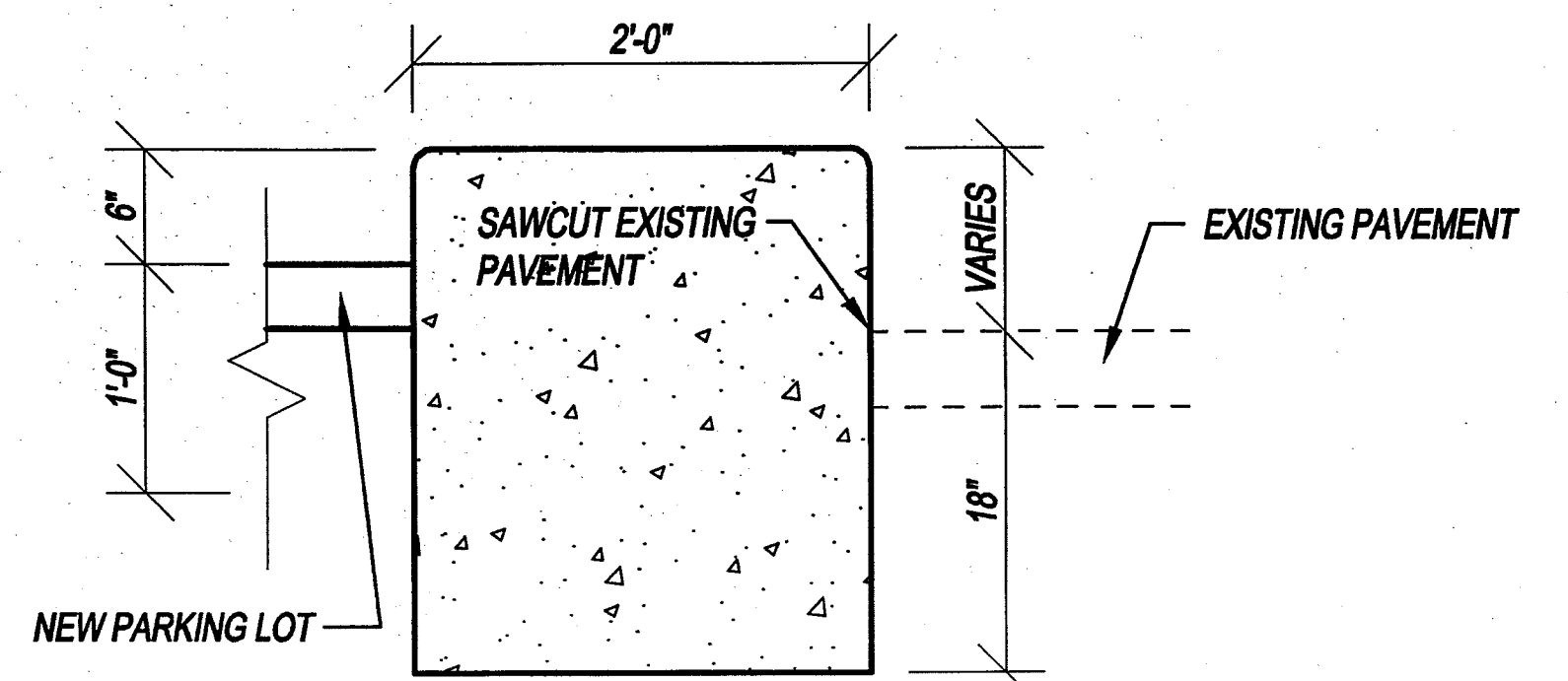
CLEAN WATER STATEMENT

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

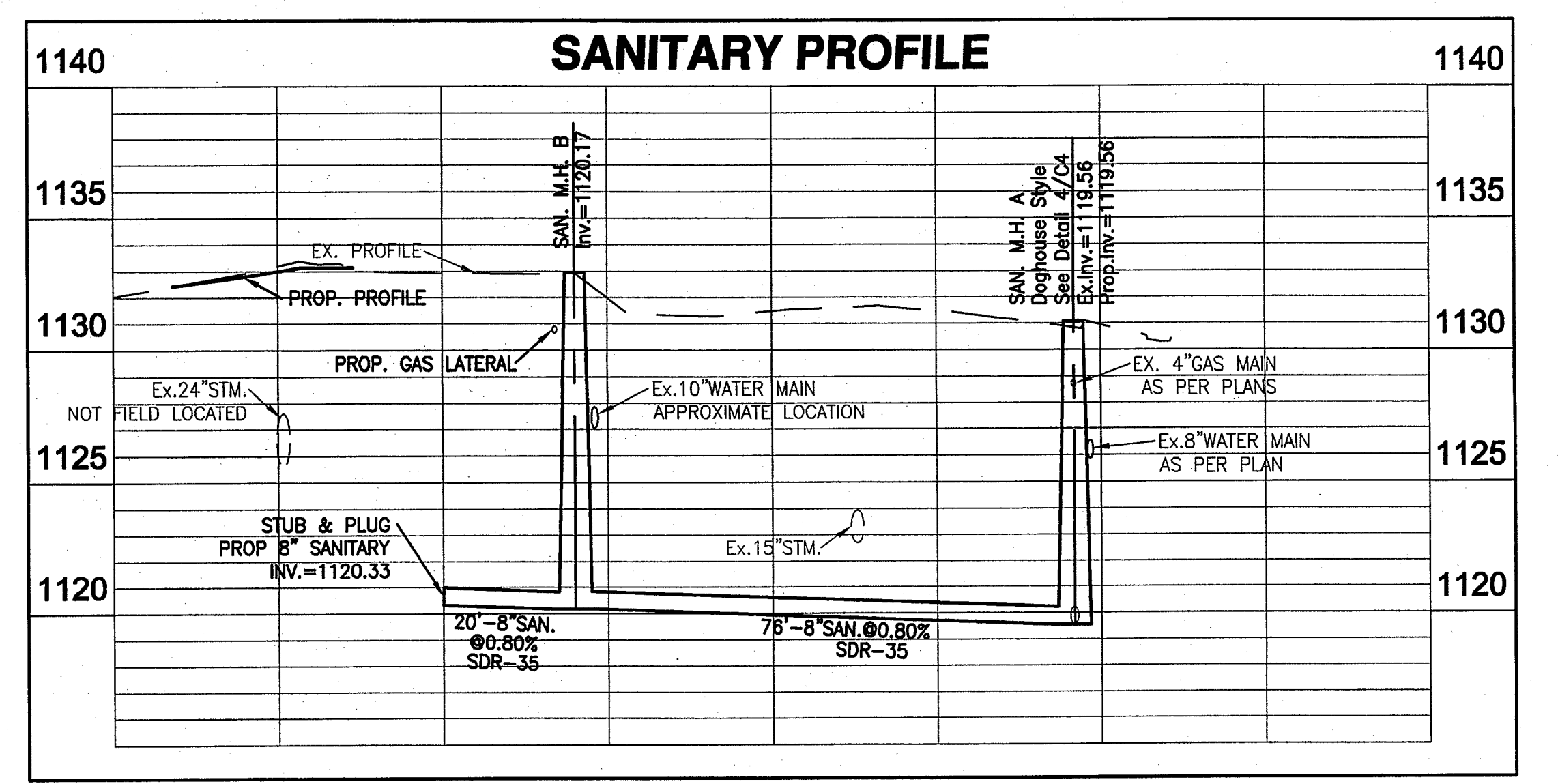
PROVIDE DETECTABLE WARNINGS WITH RAISED PATTERN (CAUTION YELLOW COLOR WITH 9" DIA. AND RAISE .02" PER ADAAG 4.7.7)



5 CONCRETE HANDICAP RAMP



6 2' CONCRETE CURB

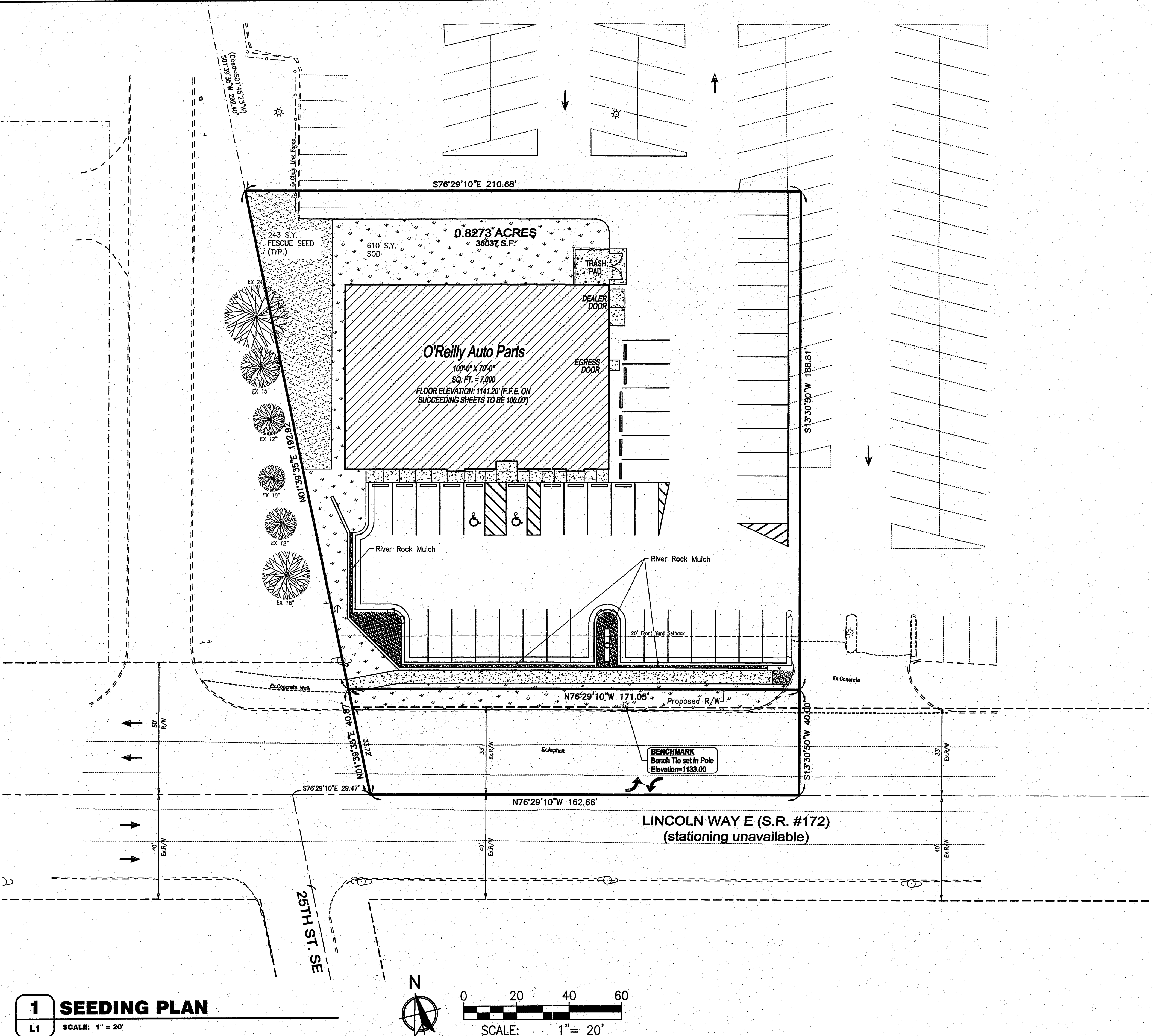


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1 SEEDING PLAN

L1

SCALE: 1" = 20'



GENERAL LANDSCAPE NOTES

A. CONTRACTOR SHALL SEED OR SOD ALL DISTURBED AREAS AS NOTED ON PLAN. SEE PLANT SCHEDULE FOR SEED MIX

PLANTING SCHEDULE

FESCUE SEED		
SIMPLIST JACKSON SEED DIVISION "CONTRACTORS MIXTURE", OR "GRID IRON MIXTURE"		
AVAILABLE LOCALLY FROM TRI-STATE TURF MANAGEMENT (513-771-2699) OR APPROVED EQUAL.		
PERCENTAGE	DESCRIPTION	SPECIES
80%	TALL FESCUES	PIXIE AMIGO, ALAMO E, ARD II AND/OR PIXIE AMIGO
10%	KENTUCKY BLUEGRASS	NU BLUE OR BLUE CHIP
10%	ACCENT PERENNIAL RYEGRASS	EXCLUSIVELY ACCENT, GOALKEEPER

RECOMMENDED METHOD: HYDROMULCH SEEDING APPLICATION APPROX. 968 S.Y.

NOTE: THE ESTABLISHMENT OF NEW GRASS IS SUBJECT TO THE ONE-YEAR CORRECTION AND REPAIR PERIOD INSPECTION.

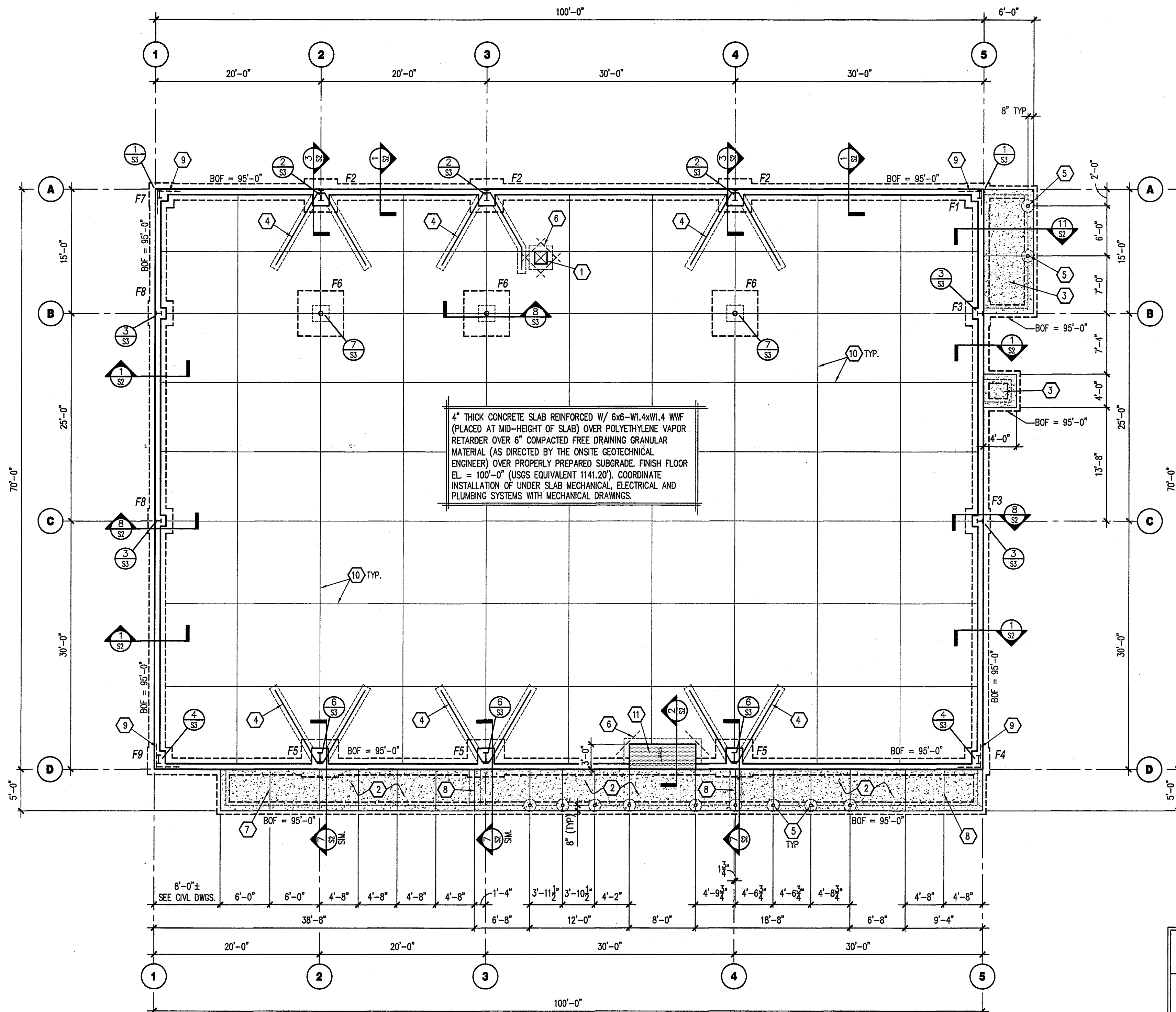
LEGEND

- AREAS TO BE SEEDED
- AREAS TO BE SOD
- AREAS TO BE INSTALLED WITH RIVER ROCK MULCH

SEEDING & SODDING

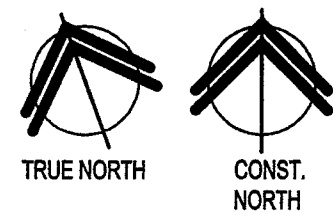
- CONVENTIONAL SEEDING**
- LANDSCAPE CONTRACTOR SHALL SEED ALL DISTURBED AREAS. THE FINAL GRADE & TOPSOIL WITHIN +/- .10 FEET WILL BE IN PLACE FOR SEEDING CONTRACTOR.
 - APPLY A HIGH PHOSPHORUS FERTILIZER AT THE RATE OF 2.75 LB PER 1000 SQ. FT.
 - TILL AREA TO BE SEEDED TO A DEPTH OF 4". RAKE TILLED AREA TO REMOVE DEBRIS 1" OR LARGER IN SIZE THAT HAS BEEN BROUGHT TO THE SURFACE DURING TILLING.
 - SEED WITH APPROPRIATE MIXTURE AT THE MANUFACTURER'S WRITTEN RECOMMENDED RATE. SEED WITH A 5GL SEED MIXTURE AT THE RATE OF 8-10#/1000 SQ. FT.. SEE PLANTING SCHEDULE FOR SEED MIX SPECIFICATIONS.
 - RAKE SEED LIGHTLY INTO TOP OF TOPSOIL, ROLL LIGHTLY, & WATER WITH FINE SPRAY.
 - PROTECT SEEDED AREAS WITH SLOPES EXCEEDING 1:6 WITH EROSION-CONTROL FIBER MESH INSTALLED & STAPLED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - PROTECT ALL OTHER SEEDED AREAS BY SPREADING STRAW MULCH AT A UNIFORM RATE TO FORM A CONTINUOUS BLANKET 1-1/2" IN LOOSE DEPTH OVER SEEDED AREAS.
 - LANDSCAPE CONTRACTOR IS TO SET GRADE TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE BUILDING & TO DETENTION BASINS.
 - THE ESTABLISHMENT OF NEW TURF IS SUBJECT TO THE ONE YEAR CORRECTION & REPAIR PERIOD INSPECTION.

- SOD**
- TURFGRASS SOD SHALL BE OF GOOD QUALITY, FREE OF WEEDS, DISEASE & INSECTS & OF GOOD COLOR & DENSITY.
 - INDIVIDUAL PIECES OF TURFGRASS SOD SHALL BE CUT TO THE SUPPLIER'S STANDARD WIDTH & LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS & LENGTHS SHALL BE 5 PERCENT.
 - STANDARD SIZE SECTIONS OF TURFGRASS SOD SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT & RETAIN THEIR SIZE & SHAPE WHEN SUSPENDED VERTICALLY FROM A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
 - LANDSCAPE CONTRACTOR SHALL SOD ALL SPECIFIED AREAS. THE FINAL GRADE & TOPSOIL WITHIN +/- .10 FEET WILL BE IN PLACE FOR SOD CONTRACTOR.
 - TILL AREA TO BE SODDED TO A DEPTH OF 4". RAKE TILLED AREA TO REMOVE DEBRIS 1" OR LARGER IN SIZE THAT HAS BEEN BROUGHT TO THE SURFACE DURING TILLING.
 - AFTER ALL GRADING HAS BEEN COMPLETED, THE SOIL SHALL BE IRRIGATED WITHIN 12-24 HOURS PRIOR TO LAYING THE TURFGRASS SOD. TURFGRASS SOD SHOULD NOT BE LAID ON SOIL THAT IS DRY & POWDERY.
 - THE FIRST ROW OF TURFGRASS SOD SHALL BE LAID IN A STRAIGHT LINE, WITH SUBSEQUENT ROWS PLACED PARALLEL TO, & TIGHTLY AGAINST, EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH & STRENGTH. CARE SHALL BE EXERCISED TO INSURE THAT THE TURF IS NOT STRETCHED OR OVERLAPPED, & ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS, WHICH WOULD CAUSE AIR-DRYING OF THE ROOTS.
 - ON SLOPING ARE WHERE EROSION MAY BE A PROBLEM, TURFGRASS SOD SHALL BE LAID WITH STAGGERED JOINTS & SECURED BY PEGGING.
 - THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING TURFGRASS SOD IMMEDIATELY DURING & AFTER INSTALLATION TO PREVENT DRYING. IT SHALL THEN BE THOROUGHLY IRRIGATED TO A DEPTH SUFFICIENT THAT THE UNDERSIDE OF THE NEW TURFGRASS SOD PAD & SOIL IMMEDIATELY BELOW THE TURFGRASS SOD ARE THOROUGHLY WET (USUALLY 1 INCH OF WATER IS NEEDED). THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ADEQUATE WATER AVAILABLE AT THE SITE PRIOR TO & DURING INSTALLATION OF THE TURFGRASS SOD.
 - LANDSCAPE CONTRACTOR IS TO SET GRADE TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE BUILDING & TO DETENTION BASINS.
 - UNLESS OTHERWISE SPECIFIED, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE ACCEPTED SODDED TURFGRASS AREAS UNTIL THE EFFECTIVE DATE FOR TURF MAINTENANCE OPERATIONS BEGINS. THE EFFECTIVE DATE SHALL BE SPECIFIED IN WRITTEN NOTICE FROM THE GENERAL CONTRACTOR.



FOUNDATION PLAN

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



FOR SITE RETAINING WALL SEE SECTION 10/S3.
REFER TO CIVIL DRAWINGS FOR WALL LOCATION.

KEYNOTES:

- FLOOR SAFE: OWNER FURNISHED, CONTRACTOR INSTALLED. PROVIDE 18"x18" BLOCKOUT (SEE SECTION 12/S2). REFER TO ARCHITECT FOR PLAN LOCATION. FINAL INSTALLATION OF SAFE TO BE AFTER COMPLETION OF OFFICE GYP. BOARD WORK.
- SIDEWALK: PROVIDE 4" THICK CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WWF (PLACED AT MID-HEIGHT OF SLAB) OVER 6" COMPACTED FREE DRAINING GRANULAR MATERIAL (AS DIRECTED BY THE ONSITE GEOTECHNICAL ENGINEER) ON PROPERLY PREPARED SUBGRADE. PROVIDE CONTROL AND ISOLATION JOINTS AS INDICATED. SEE CIVIL DRAWINGS FOR TOP OF CONCRETE SPOT ELEVATIONS.
- DOOR PAD: PROVIDE 4" THICK CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WWF (PLACED AT MID-HEIGHT OF SLAB) OVER 6" COMPACTED FREE DRAINING GRANULAR MATERIAL (AS DIRECTED BY THE ONSITE GEOTECHNICAL ENGINEER) ON PROPERLY PREPARED SUBGRADE. PROVIDE CONTROL AND ISOLATION JOINTS AS INDICATED. SEE CIVIL DRAWINGS FOR TOP OF CONCRETE SPOT ELEVATIONS.
- SLAB HAIRPIN: SEE DETAIL 10/S2. (FIELD BEND HAIRPIN TO MISS FLOOR SAFE WHERE REQUIRED.)
- STEEL BOLLARD: SEE SITE DEVELOPMENT PLANS AND DETAILS. (WHERE APPLICABLE, ALIGN WITH CENTERLINE OF STOREFRONT MULLIONS.)
- PROVIDE #4x2'-0" DOWEL. TURN 45 DEGREES AT SLAB INSIDE CORNERS
- SIDE WALK CONTROL JOINT, SEE SECTION 4/S2.
- SIDE WALK ISOLATION JOINT, SEE SECTION 6/S2.
- #4 CORNER BARS CENTERED IN SLAB SEE DETAILS 1 & 4/S3.
- CONTROL/CONSTRUCTION JOINT SEE DETAILS 4 & 5/S2
- ENTRY SLAB: 8" THICK CONCRETE SLAB REINFORCED W/ #5's @ 12" O.C. EACH WAY (PLACED AT MID-HEIGHT OF SLAB) OVER POLYETHYLENE VAPOR RETARDER OVER 6" COMPACTED FREE DRAINING GRANULAR MATERIAL (AS DIRECTED BY THE ONSITE GEOTECHNICAL ENGINEER) OVER PROPERLY PREPARED SUBGRADE. TOP OF SLAB EL. = 100'-0"

FOUNDATION EXCAVATION NOTES:

- A GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED ON THIS SITE. SEE PROJECT MANUAL FOR GEOTECHNICAL INFORMATION. APPROPRIATE RECOMMENDATIONS STATED IN THE GEOTECHNICAL REPORT SHOULD BE FOLLOWED.
- FOUNDATIONS AND SLAB SHOULD BEAR ON NATURAL SOILS OR ON PROPERLY PLACED AND COMPACTED ENGINEERED FILL. SEE GEOTECHNICAL REPORT FOR SPECIFIC REQUIREMENTS REGARDING EXCAVATION AND PREPARATION OF SUBGRADE. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT TO DIRECT THE REMOVAL OF UNSUITABLE SOILS AND TO DETERMINE THE ADEQUACY OF THE BEARING SURFACE PRIOR TO PLACEMENT OF REINFORCEMENT AND CONCRETE.
- IN THE EVENT THAT UNSUITABLE SOIL OR UNCOMPACTED FILL IS FOUND BELOW ELEVATIONS OF SLAB AND FOOTINGS, IT SHALL BE REMOVED AND REPLACED WITH SELECT STRUCTURAL FILL. SELECT STRUCTURAL FILL SHALL ALSO BE USED TO BRING FLOOR SLABS TO PROPER ELEVATION WHERE REQUIRED. ORGANICS, DEBRIS AND ROCKS GREATER THAN 3" IN DIAMETER SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS.
- SELECT STRUCTURAL FILL SHOULD BE PLACED IN NO GREATER THAN 8" LIFTS AND COMPACTED AS SPECIFIED IN THE GEOTECHNICAL REPORT.

GEOTECHNICAL CRITERIA USED FOR FOUNDATION DESIGN

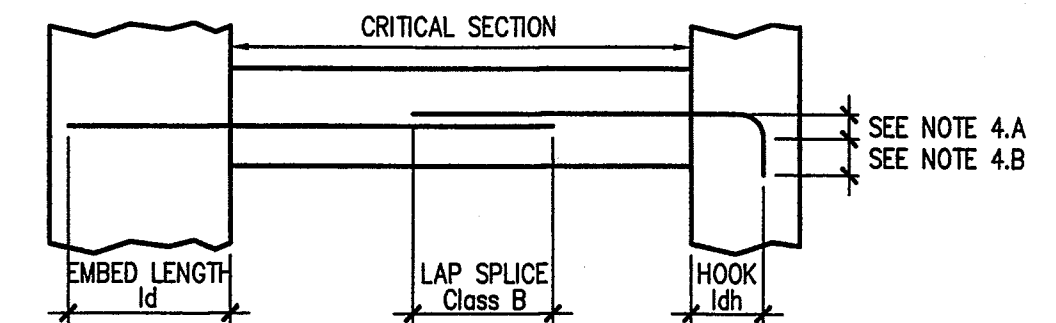
SOIL BEARING VALUES FOR CONTINUOUS FOOTINGS = 2,500 psf.
SOIL BEARING VALUES FOR ISOLATED FOOTINGS = 2,500 psf.
REFER TO THE GEOTECHNICAL REPORT BY PROFESSIONAL SERVICE INDUSTRIES, INC. DATED DECEMBER 10, 2009.

SPLICE TABLE¹

(UNLESS NOTED OTHERWISE)

BAR SIZE	LAP SPLICES (in.) ²		EMBED LENGTH (in.)		
	TOP BARS ³ Class B	OTHERS Class B	TOP BARS ³ Id	OTHERS Id	HOOKS ⁵ Idh
#3	28	22	22	17	9
#4	38	29	29	22	11
#5	47	36	36	28	14
#6	56	43	43	33	17

- SPLICE TABLE IS BASED ON THE FOLLOWING:
A. CONCRETE $f_c = 3000$ psi
B. GRADE 60 REBAR
C. BAR SPACING NOT LESS THAN 2 BAR DIAMETERS
D. CONCRETE COVER NOT LESS THAN ONE BAR DIAMETERS
- LAP LENGTHS SHOWN ARE FOR CLASS "B" TENSION SPLICES PER ACI 318-05 CHAPTER 12.
- TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF CONCRETE IS CAST BELOW THE REINFORCEMENT IN THAT MEMBER.
- STANDARD 90° HOOKS:
A. RADIUS = 4 BAR DIAMETERS FOR #3 THRU #8
RADIUS = 5 BAR DIAMETERS FOR #9 THRU #11
B. LENGTH = 12 BAR DIAMETERS
- HOOK LENGTH MAY BE REDUCED IN ACCORDANCE WITH ACI 318-05 CHAPTER 12.5



DESIGN CRITERIA IS BASED UPON 2007 OHIO BUILDING CODE

- LIVE LOADS:
ROOF: 20 psf
- SNOW LOADS:
 $P_g = 20$ psf
 $P_f = 20$ psf
 $C_e = 1.0$
 $I_s = 1.0$
 $C_t = 1.0$
- WIND LOADS:
BASIC WIND SPEED: 90 mph $I_w = 1.0$
EXPOSURE "C" $G_Cp = \pm 0.18$
- SEISMIC:
 $I_e = 1.0$
 $S_s = 0.143$, $S_1 = 0.050$
 $S_{ds} = 0.153$, $S_{d1} = 0.081$
SITE CLASS "D"
SEISMIC DESIGN CATEGORY "B"
ORDINARY MOMENT FRAMES
- LOAD COMBINATIONS:
LOAD COMBINATIONS SHALL BE PER THE ABOVE REFERENCED BUILDING CODE
- DEFLECTION LIMITS:
DEFLECTION LIMITS SHALL BE PER THE ABOVE REFERENCED BUILDING CODE

FOUNDATION SCHEDULE

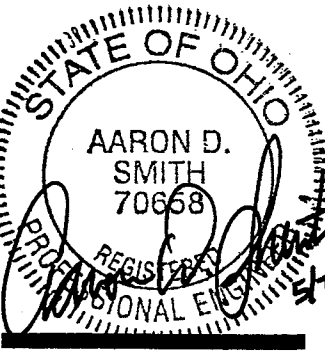
MARK	FOOTING SIZE (W x L x T)	FOOTING REINFORCEMENT		BOTTOM OF FOOTING ELEVATION	PILASTER SIZE	PILASTER REINFORCEMENT		TOP OF PILASTER ELEVATION	NOTES	REFER	MARK
		LONG.	TRANS.			VERT.	TIES				
F1	3'-0"x3'-0"x1'-0"	(4) #4's	(4) #4's	95'-0"	SEE 1/S3	(8) #6	SEE SECTION 8/S2 SIM.	100'-0"	1,2,3,4	1/S3	F1
F2	4'-0"x4'-0"x1'-0"	(6) #4's	(6) #4's	95'-0"	SEE 2/S3	(8) #6	SEE SECTION 3/S2	100'-0"	1,2,3,4,5	2/S3	F2
F3	3'-6"x3'-6"x1'-0"	(5) #4's	(5) #4's	95'-0"	SEE 3/S3	(6) #6	SEE SECTION 8/S2	100'-0"	1,2,3,4,5	3/S3	F3
F4	4'-0"x4'-0"x1'-0"	(6) #4's	(6) #4's	95'-0"	SEE 4/S3	(8) #6	SEE SECTION 8/S2 SIM.	100'-0"	1,2,3,4	4/S3	F4
F5	5'-0"x5'-0"x1'-0"	(7) #4's	(7) #4's	95'-0"	SEE 6/S3	(8) #6	SEE SECTION 7/S2	100'-0"	1,2,3,4,5	6/S3	F5
F6	5'-6"x5'-6"x1'-6"	(6) #4 EACH WAY TOP & BOT.		96'-0"	2'-6"x2'-6"	(12) #6	SEE SECTION 8/S3	99'-4"	1,2,4,5	7/S3	F6
F7	3'-0"x3'-0"x1'-0"	(4) #4's	(4) #4's	95'-0"	SEE 1/S3	(8) #6	SEE SECTION 8/S2 SIM.	100'-0"	1,2,3,4	1/S3	F7
F8	3'-6"x3'-6"x1'-0"	(5) #4's	(5) #4's	95'-0"	SEE 3/S3	(6) #6	SEE SECTION 8/S2	100'-0"	1,2,3,4,5	3/S3	F8
F9	4'-0"x4'-0"x1'-0"	(6) #4's	(6) #4's	95'-0"	SEE 4/S3	(8) #6	SEE SECTION 8/S2 SIM.	100'-0"	1,2,3,4	4/S3	F9

NOTES:

- ALL ANCHOR BOLTS SHALL BE SIZE, QUANTITY AND SPACING AS SPECIFIED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER. MAINTAIN 3" MINIMUM CONCRETE COVER AROUND BOLTS. TIES SHALL WRAP AROUND ANCHOR BOLTS.
- COLUMN BASE PLATES ARE TO REST ON TOP OF CONCRETE. PROVIDE LEVEL BEARING SURFACE FOR EVEN CONTACT.
- COLUMN FOOTING REINFORCEMENT TO BE INTEGRAL WITH CONTINUOUS FOUNDATION REINFORCEMENT.
- PROVIDE ANCHOR BOLT TEMPLATES AT COLUMN.
- ALL SPREAD FOOTINGS ARE TO BE CENTERED BENEATH COLUMNS UNLESS NOTED OTHERWISE.

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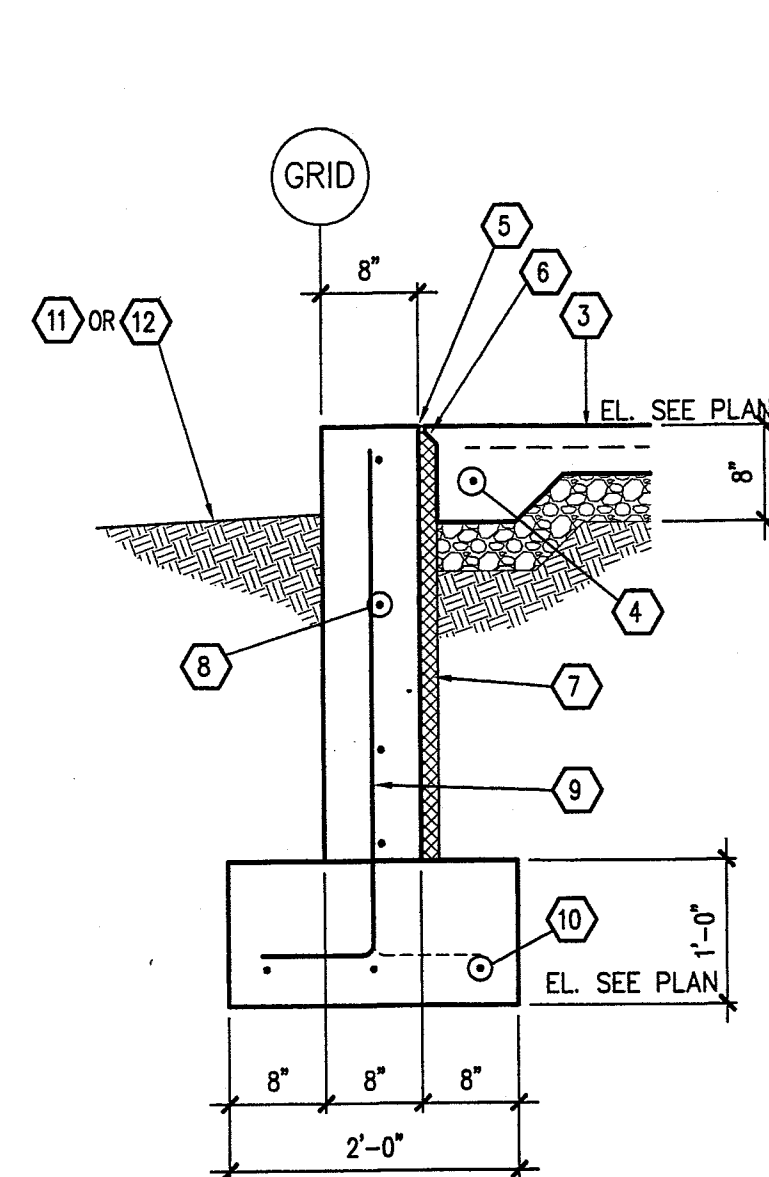


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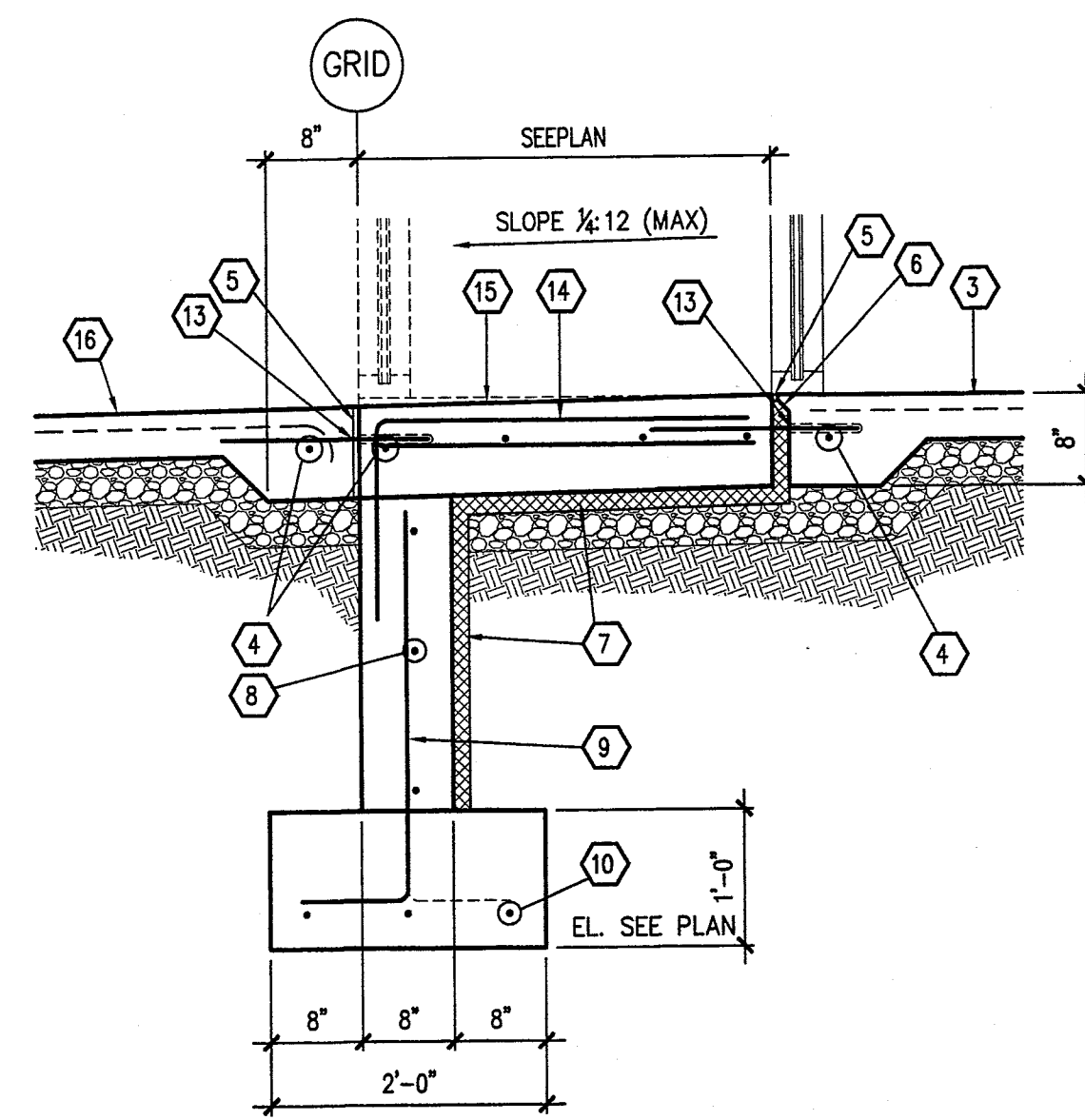
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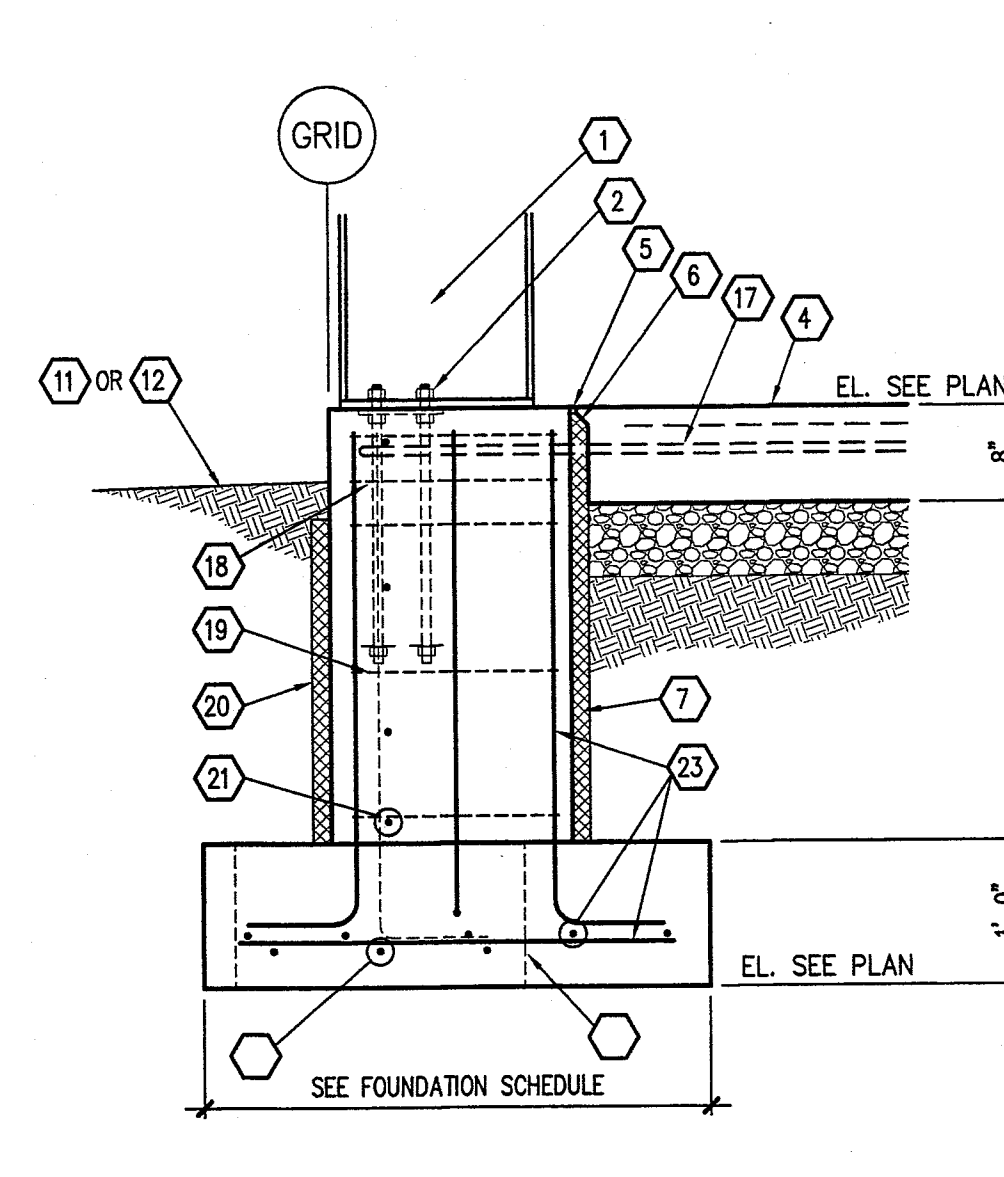
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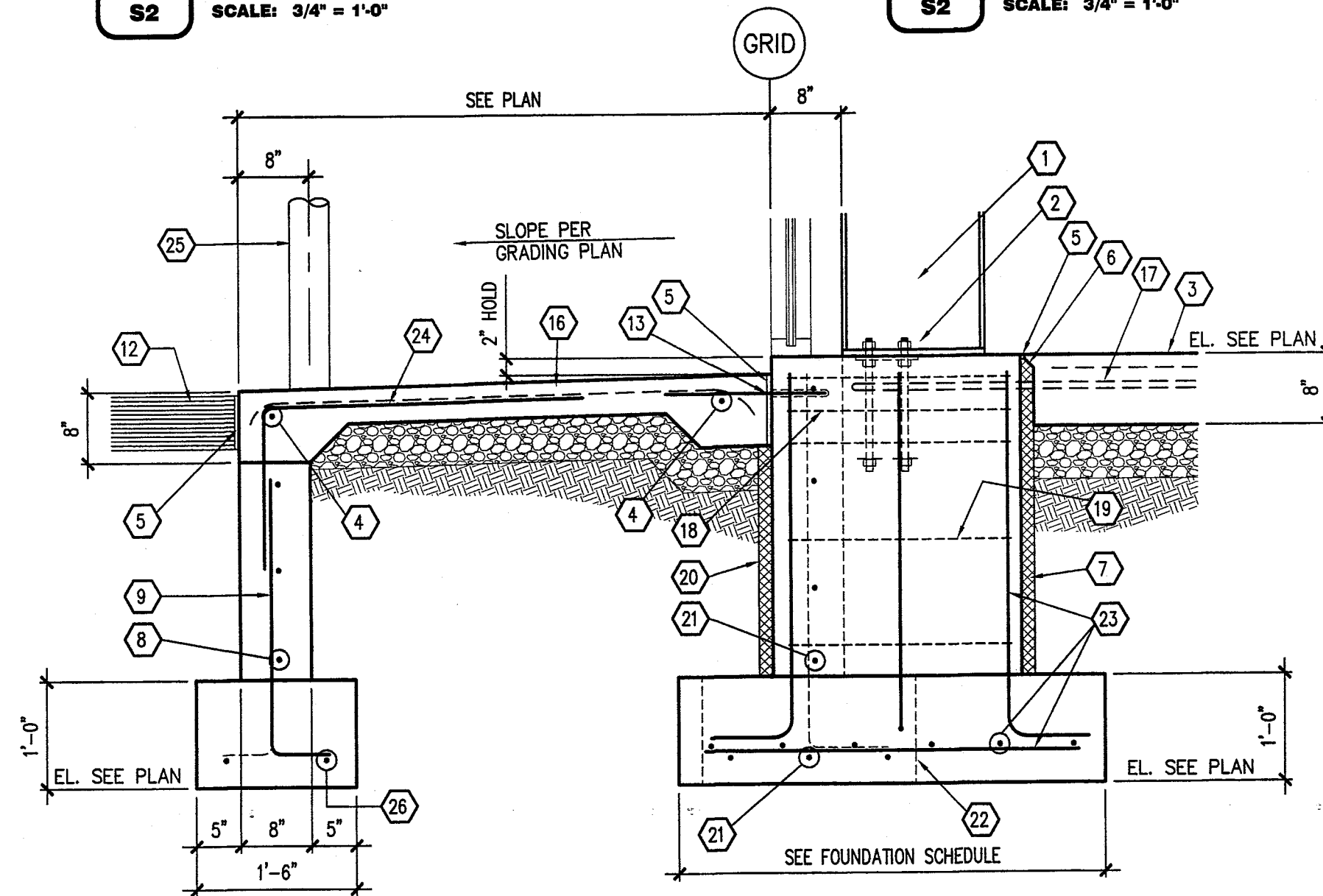
1 SECTION
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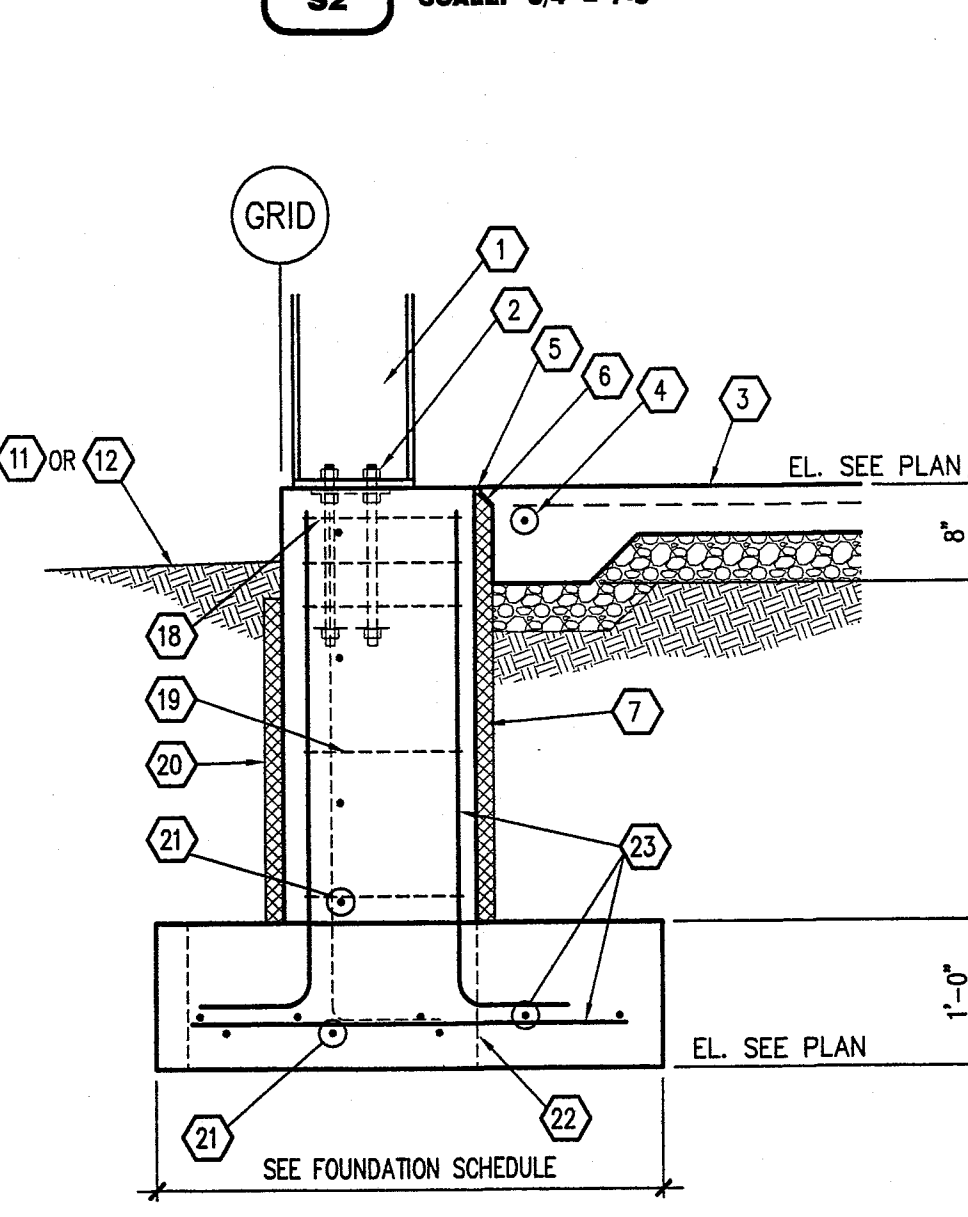
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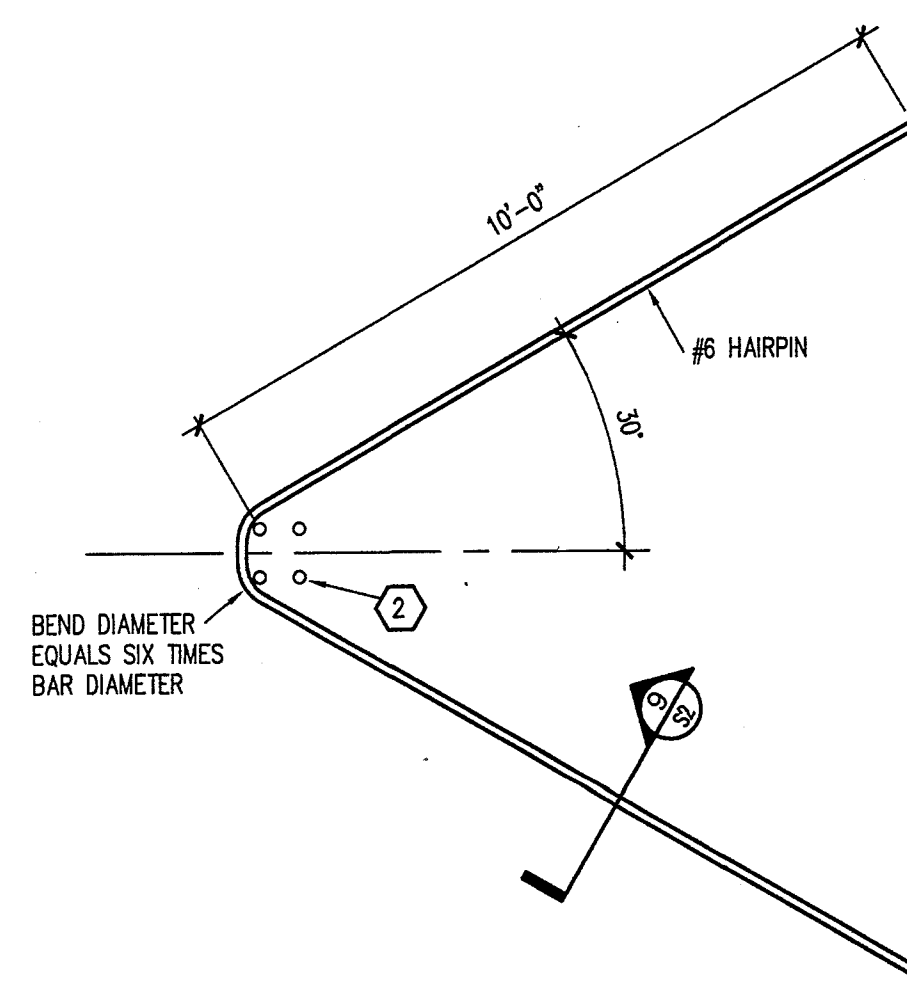
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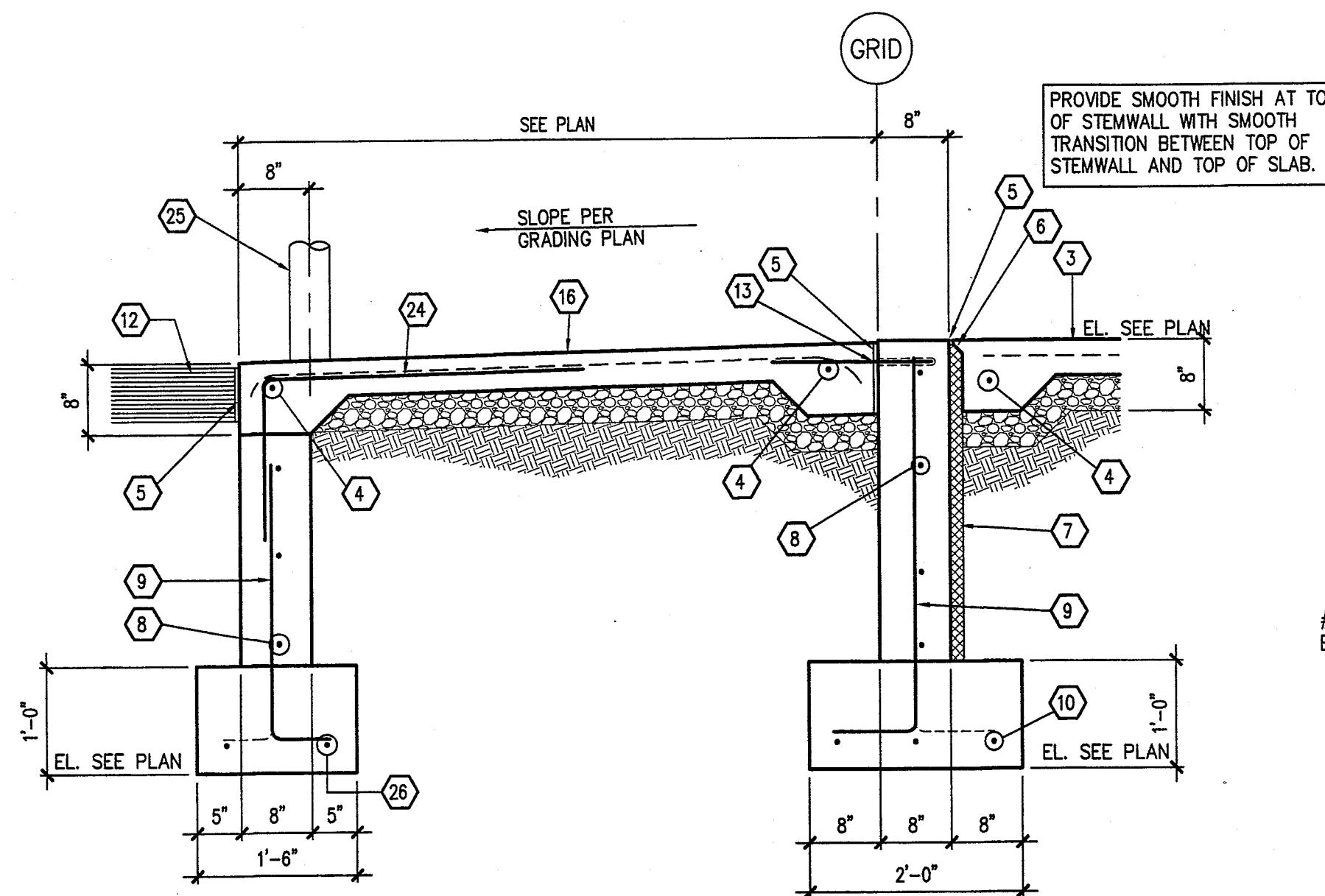
7 SECTION
S2 SCALE: 3/4" = 1'-0"



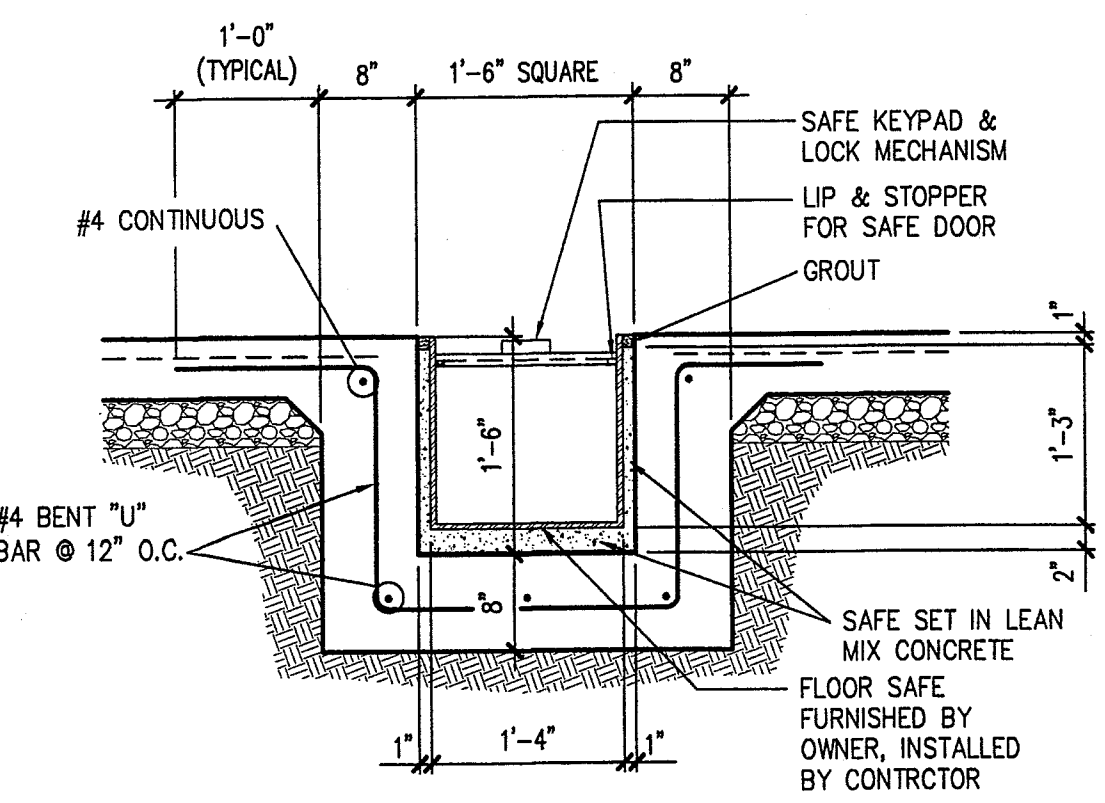
8 SECTION
S2 SCALE: 3/4" = 1'-0"



10 TYPICAL HAIRPIN DETAIL
S2 SCALE: 3/4" = 1'-0"

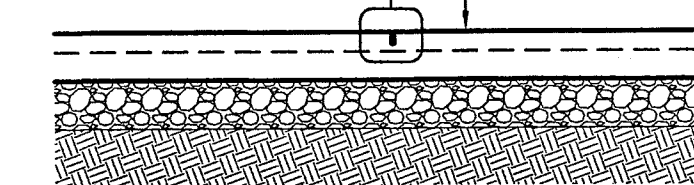


11 SECTION
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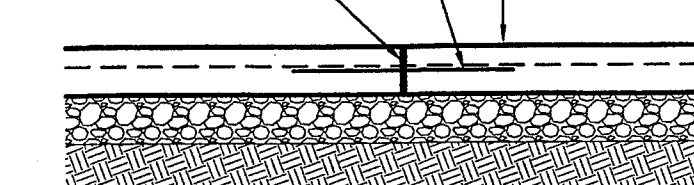
12 SECTION
S2 SCALE: 3/4" = 1'-0"

SLAB CONTROL JOINT, TOOLED OR SAWN. CONTROL JOINT TO BE 1/8" x 1/4" SLAB THICKNESS. SEE FOUNDATION PLAN FOR JOINT LOCATIONS.



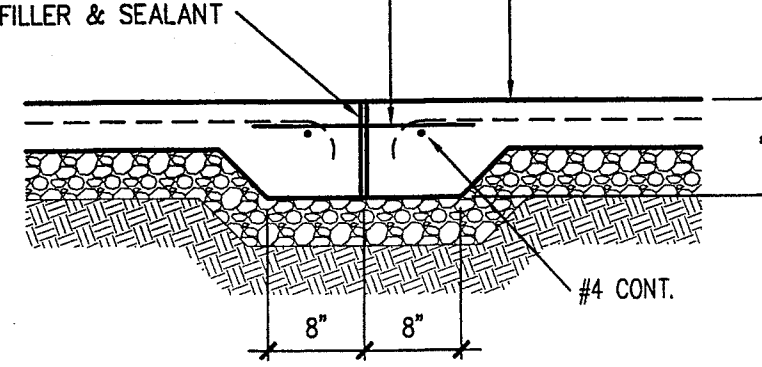
4 TYP. CONTROL JOINT DETAIL
S2 SCALE: 3/4" = 1'-0"

#4x1'-6" SMOOTH DOWEL @ 24" O.C. GREASE ONE END TO PREVENT BOND. CONSTRUCTION JOINT (IF NEEDED). LOCATION TO COINCIDE WITH CONTROL JOINTS. (SEE FOUNDATION PLAN).

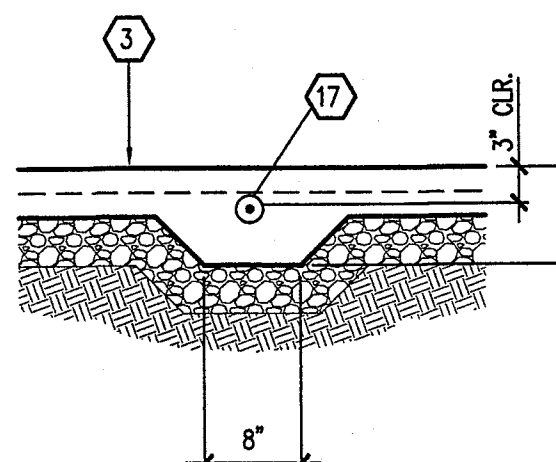


5 TYP. CONSTR. JOINT DETAIL
S2 SCALE: 3/4" = 1'-0"

#4x1'-6" SMOOTH DOWEL @ 24" O.C. GREASE ONE END TO PREVENT BOND. 1/2" ISOLATION JOINT WITH ASPHALTIC FILLER & SEALANT.



6 SIDEWALK ISOLATION JOINT
S2 SCALE: 3/4" = 1'-0"



9 SECTION
S2 SCALE: 3/4" = 1'-0"

KEYNOTES:

- 1 PRE-ENGINEERED METAL BUILDING STRUCTURAL SYSTEM. SEE P.E.M.B. SHOP DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 ANCHOR BOLTS. SEE FOUNDATION SCHEDULE AND PRE-ENGINEERED METAL BUILDING DRAWINGS FOR SIZE, QUANTITY AND PLAN LOCATION. SEE 5/S3 FOR TYPICAL SHOP FABRICATED ANCHOR ASSEMBLY.
- 3 INTERIOR CONCRETE SLAB SEE FOUNDATION PLAN.
- 4 #4 CONTINUOUS
- 5 1/2" ISOLATION JOINT WITH ASPHALTIC FILLER & SEALANT
- 6 TAPER TOP OF RIGID INSULATION 45 DEGREES AS SHOWN. POUR SLAB OVER INSULATION.
- 7 1/2" EXTRUDED POLYSTYRENE, 15# DENSITY W/ SQUARE EDGE, RIGID INSULATION BOARD LOCATED AS SHOWN AT PERIMETER OF BUILDING. (R-5 MINIMUM PER INCH REQUIRED)
- 8 #4's CONTINUOUS AT 12" O.C.
- 9 #4 BENT DOWELS @ 18" O.C. STAGGER HOOK AS SHOWN
- 10 (3) #4's CONTINUOUS
- 11 SEE GRADING PLAN FOR FINISHED GRADES.
- 12 PAVING, SEE SITE DEVELOPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- 13 DRILL 6" DEEP HOLES FOR #4x1'-6" DOWELS @ 24" O.C. DRILL AND EPOXY INTO FOUNDATION. FOLLOW INSTRUCTIONS SPECIFIED BY MANUFACTURER.
- 14 #3x4'-6" DOWEL @ 24" O.C. FIELD BEND AS SHOWN
- 15 ENTRY SLAB, SEE PLAN.
- 16 EXTERIOR CONCRETE SLAB OR SIDEWALK SEE FOUNDATION PLAN. REFER TO SITE DEVELOPMENT DRAWINGS FOR ALL EXTERIOR TOP OF CONCRETE ELEVATIONS.
- 17 SLAB HAIRPIN DOWEL SEE DETAIL 10/S2
- 18 (3) #3 TIES @ 3" O.C.
- 19 #3 TIES @ 12" O.C.
- 20 1/2"x8'-0" SHEET OF EXTRUDED POLYSTYRENE, 15# DENSITY W/ SQUARE EDGE, RIGID INSULATION BOARD CENTERED ON PILASTERS ON EXTERIOR FACE OF BUILDING. (R-5 MINIMUM PER INCH REQUIRED).
- 21 STEM WALL AND FOOTING REINFORCEMENT TO RUN CONTINUOUS THROUGH COLUMN PILASTERS AND SPREAD FOOTINGS.
- 22 LINE OF STEM WALL AND FOOTING BEYOND
- 23 SEE FOUNDATION SCHEDULE FOR FOOTING & PILASTER REINFORCEMENT.
- 24 #3x4'-6" DOWEL @ 36" O.C. FIELD BEND AS SHOWN
- 25 STEEL BOLLARD SEE SITE PLAN.
- 26 (2) #4's CONTINUOUS
- 27 #4 CORNER REINFORCEMENT TO MATCH STEM WALL BAR SPACING.
- 28 REFER TO SECTIONS FOR REBAR TIE SIZE AND SPACING.
- 29 #4x2'-0" DOWEL CENTERED IN SLAB. TURN 45 DEGREES AS SHOWN.
- 30 #4 BENT DOWELS @ 9" O.C.
- 31 #4's @ 12" O.C.
- 32 1/2" CONTINUOUS CHAMFER
- 33 4"x2" (NOM) CONTINUOUS KEY FORM
- 34 #4 BENT DOWELS @ 9" O.C.
- 35 (7) #4's CONTINUOUS
- 36 6" PERFORATED DRAINAGE PIPE SET IN WASHED GRAVEL. SLOPE TO DRAIN AND DISCHARGE TO DAYLIGHT. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- 37 SEE DETAIL 13/S3 FOR TYPICAL GUARDRAIL.



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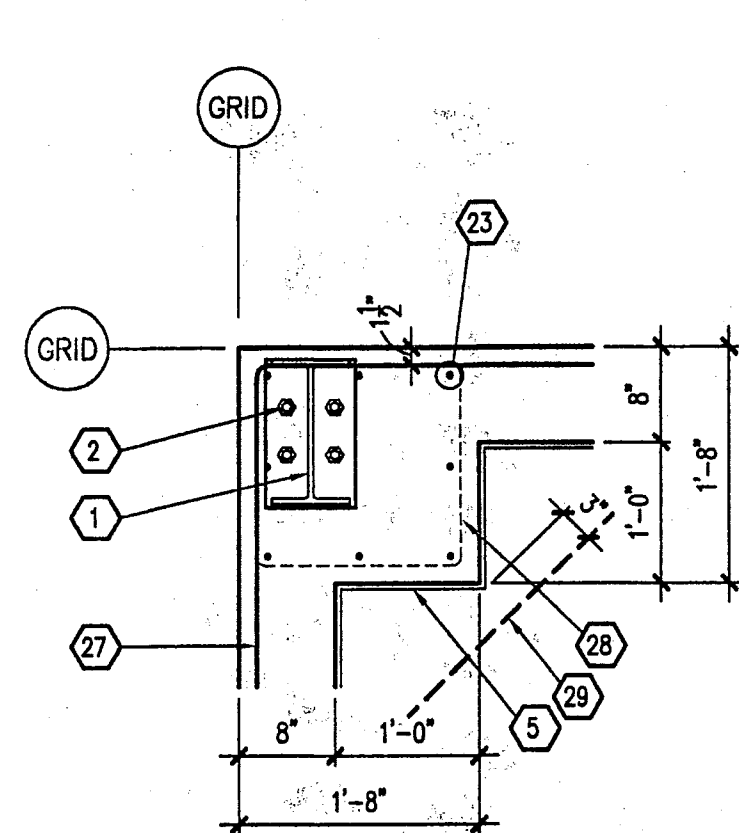
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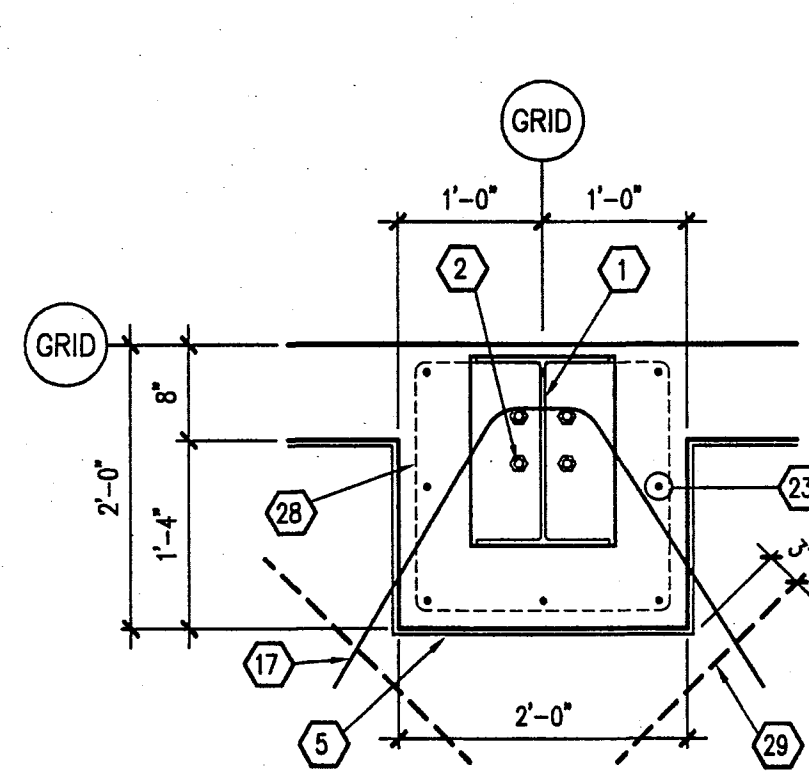
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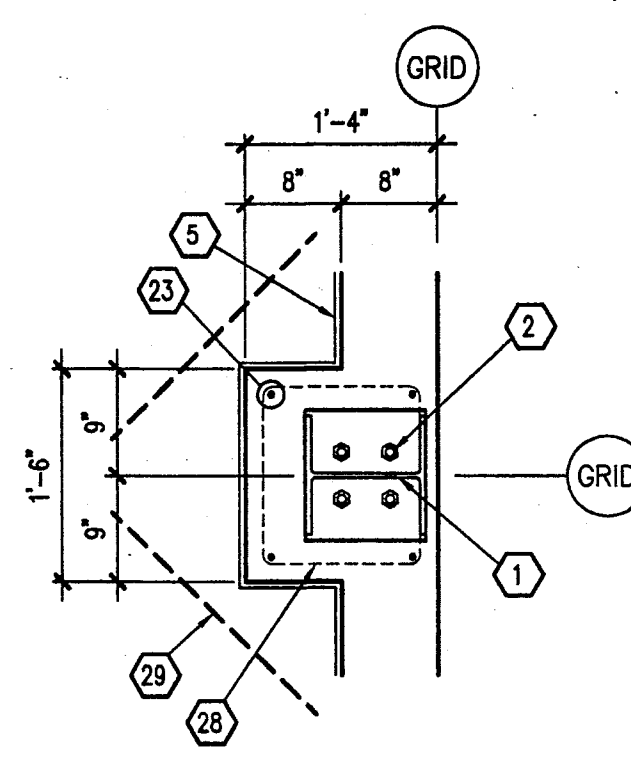
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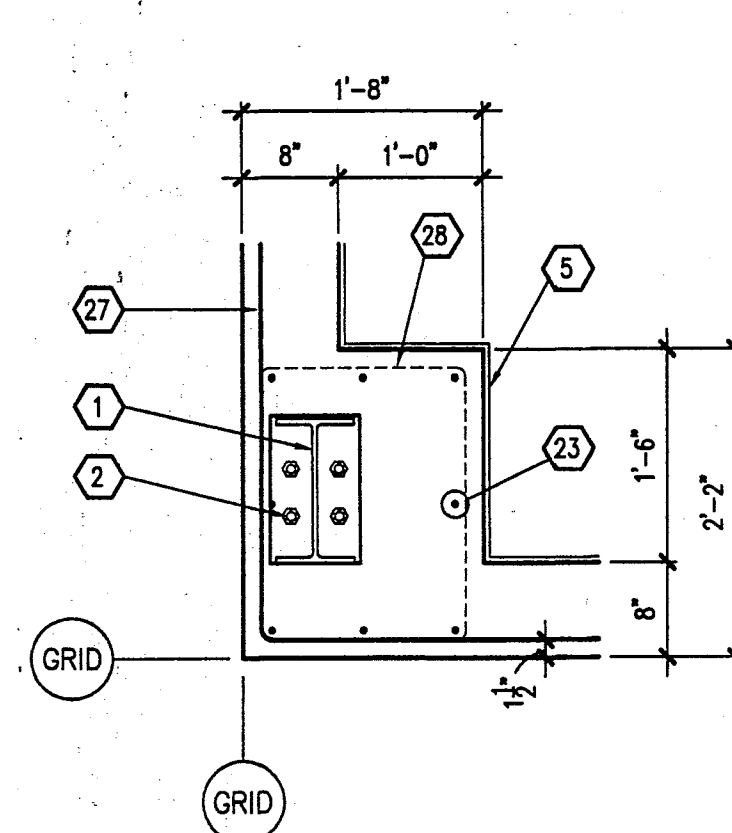
1 DETAIL
S3 SCALE: 3/4" = 1'-0"



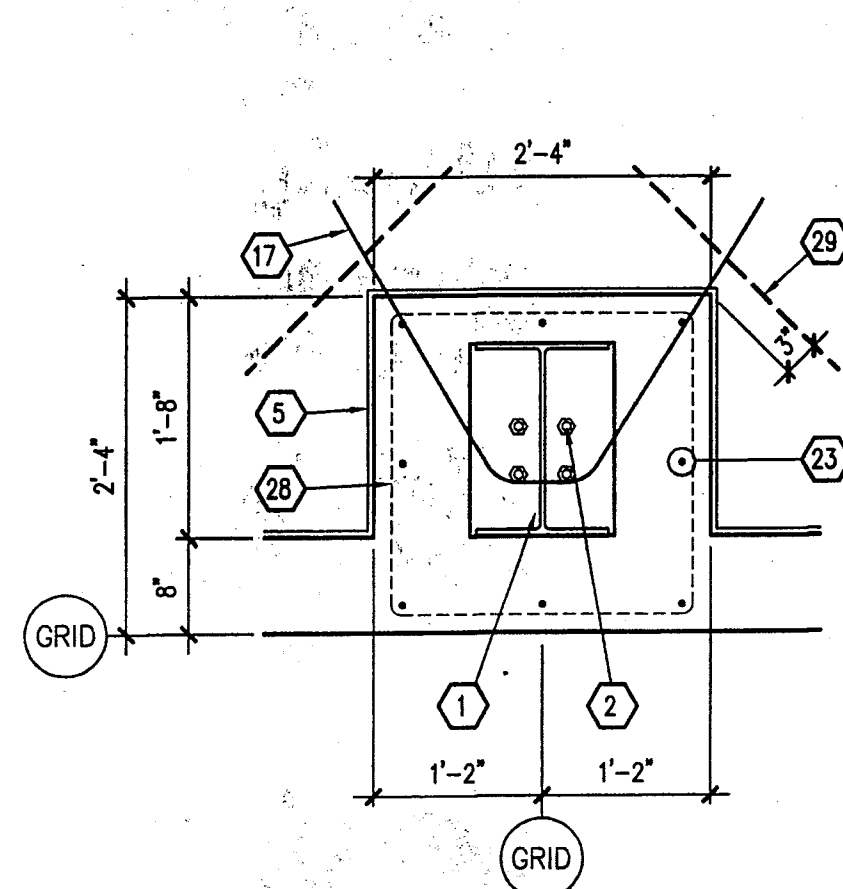
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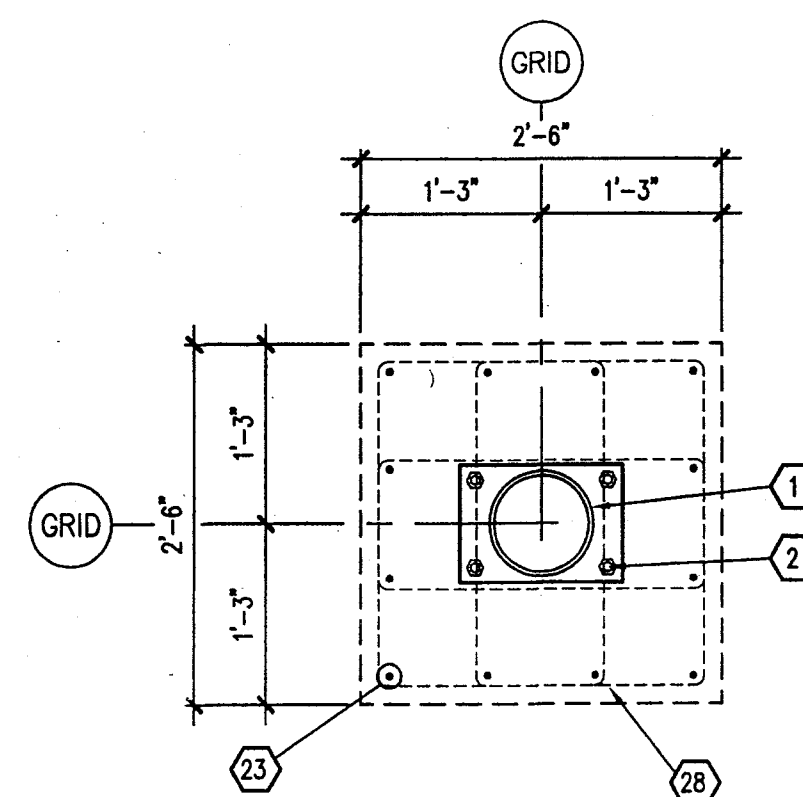
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S3 SCALE: 3/4" = 1'-0"



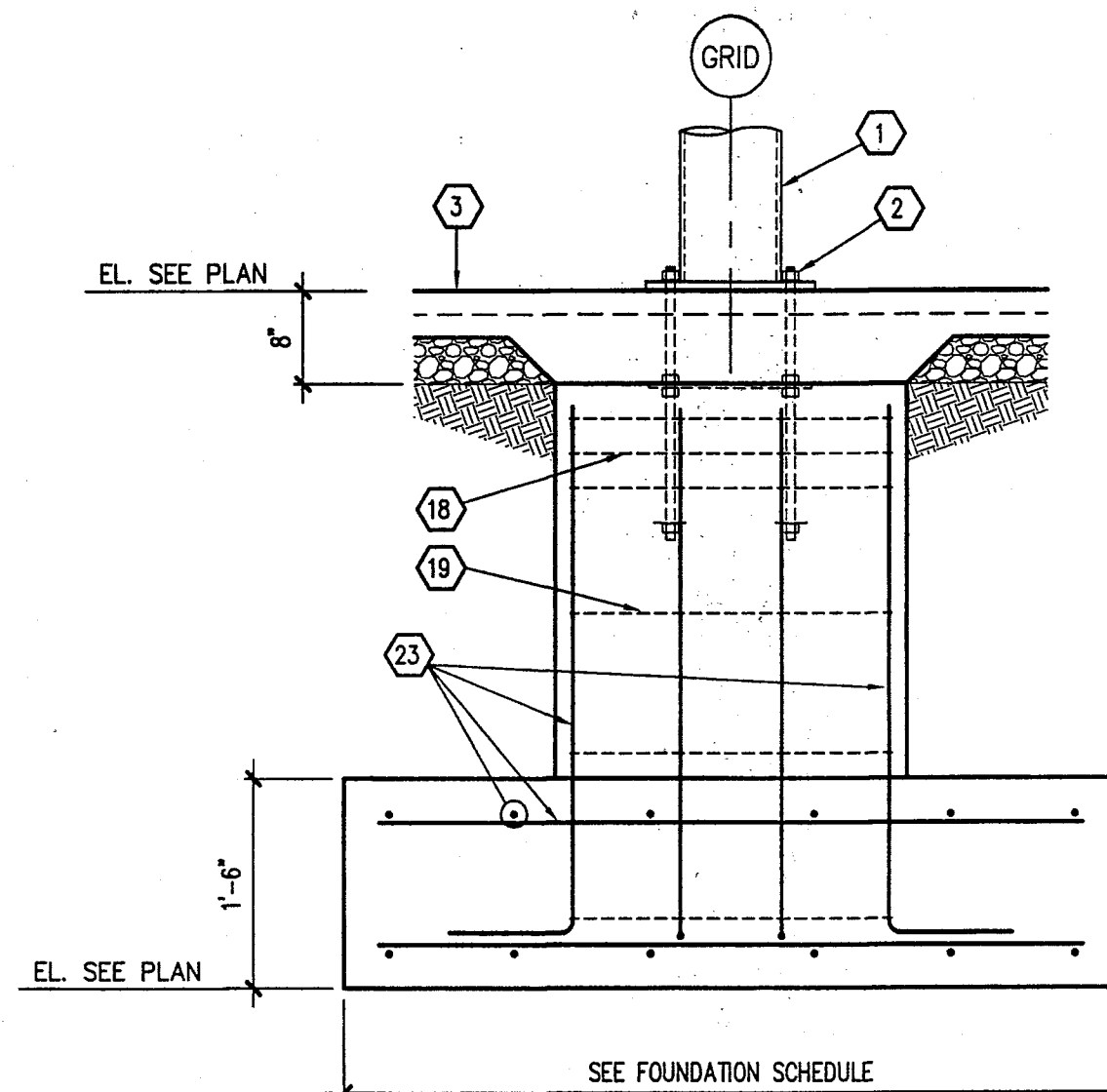
4 DETAIL
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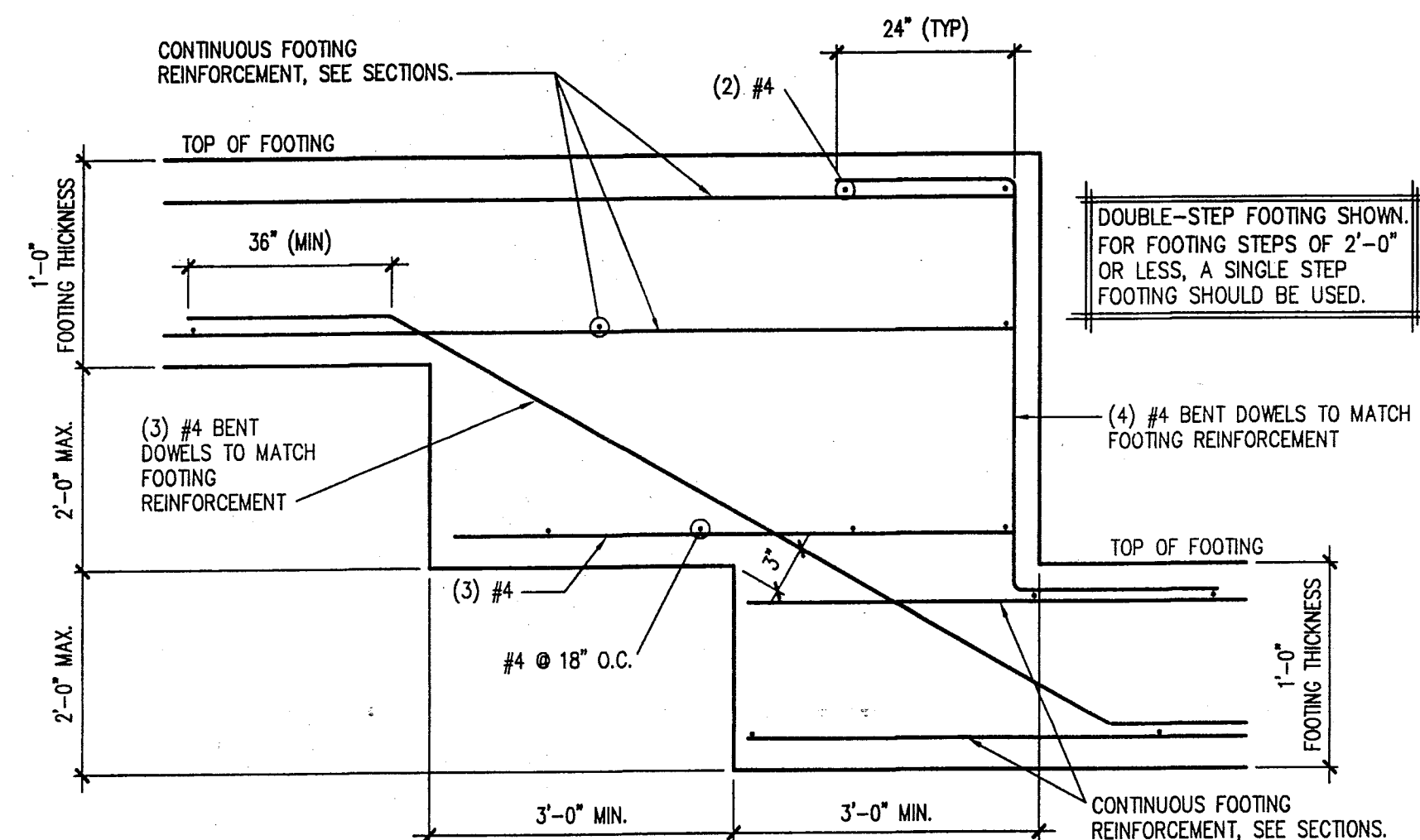
6 DETAIL
S3 SCALE: 3/4" = 1'-0"



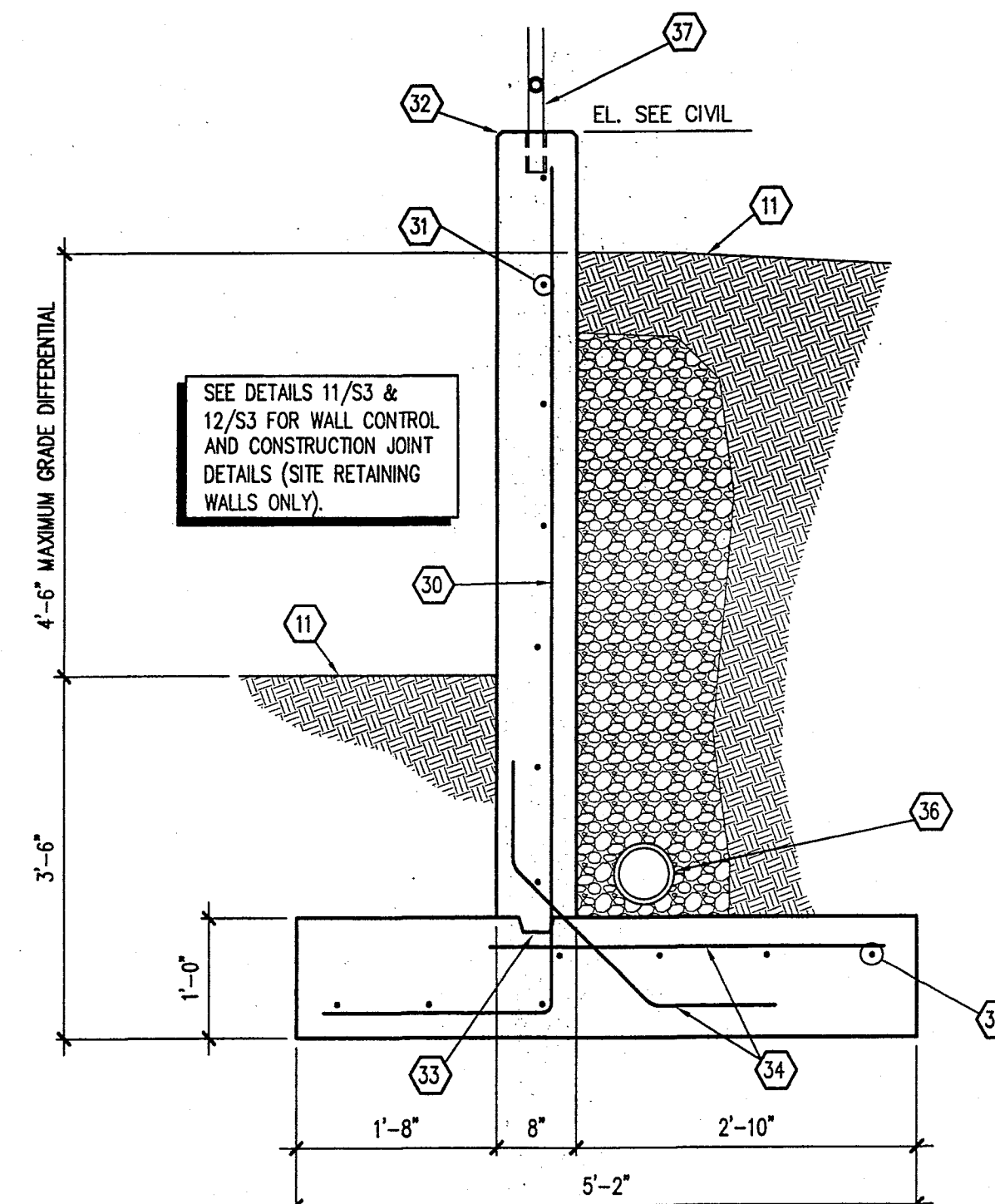
7 DETAIL
S3 SCALE: 3/4" = 1'-0"



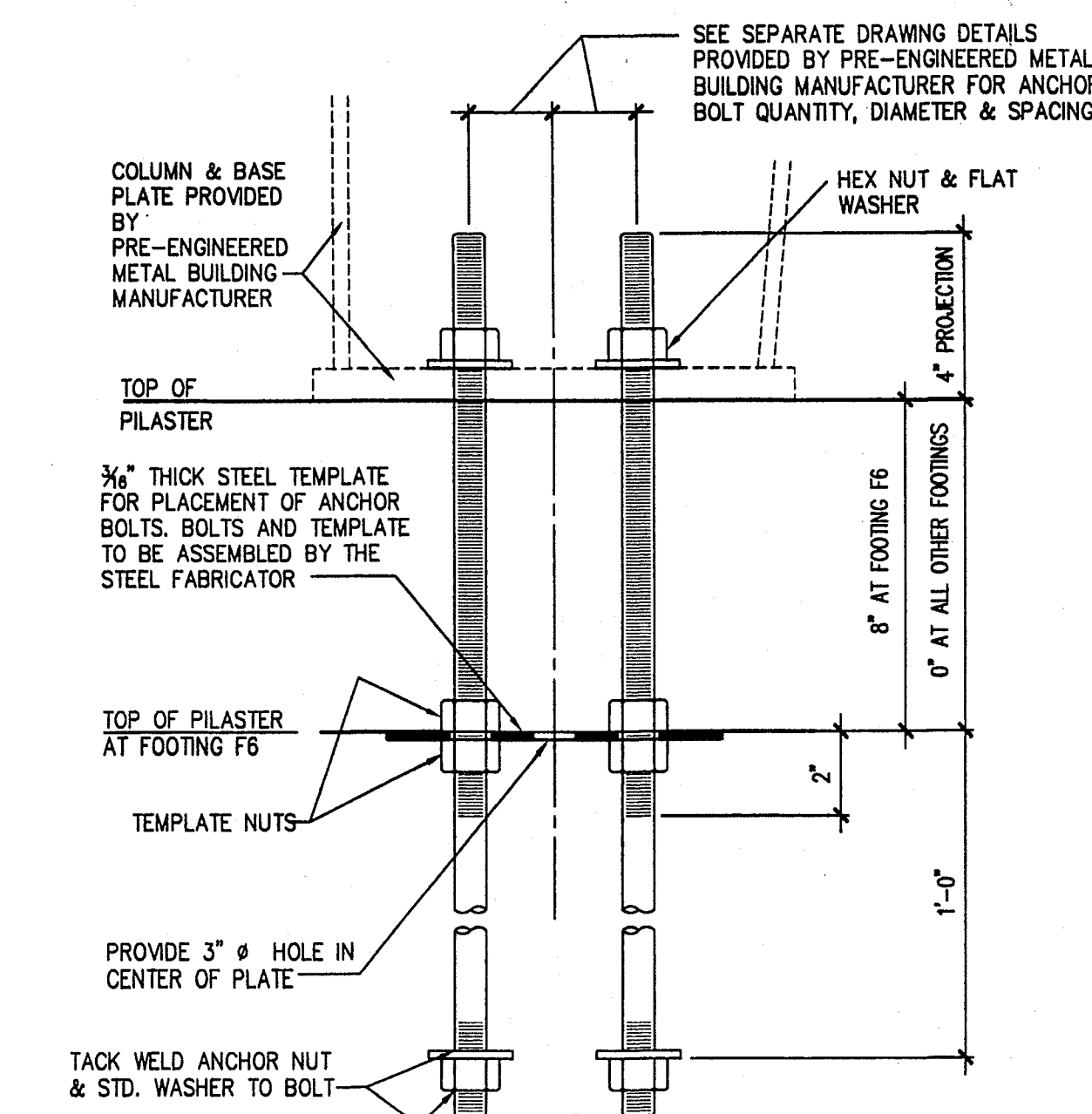
8 SECTION
S3 SCALE: 3/4" = 1'-0"



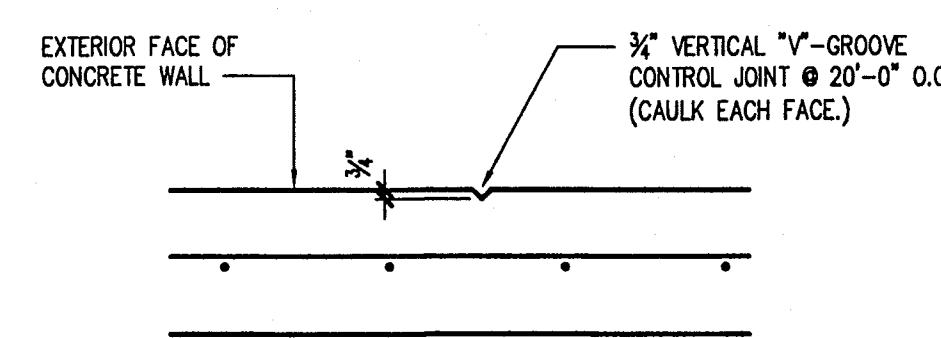
9 TYPICAL STEPPED FOOTING
S3 SCALE: NONE



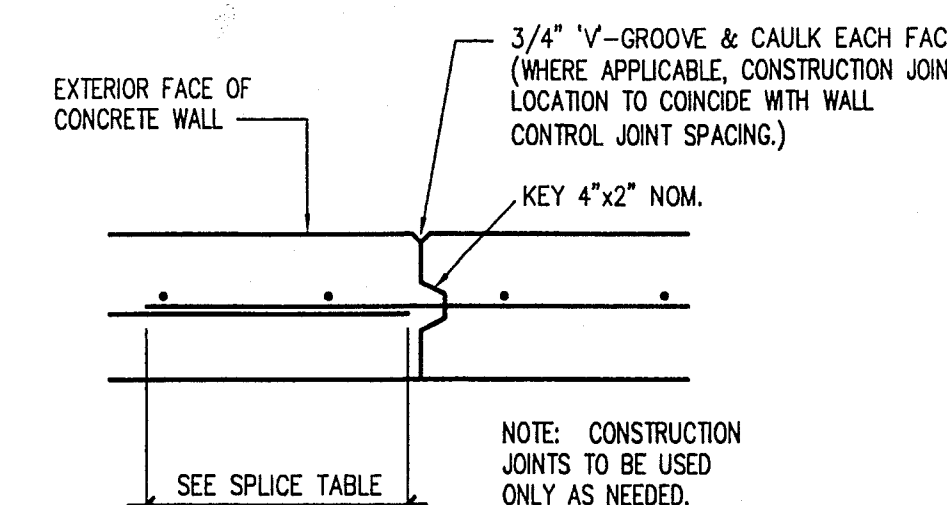
10 SECTION
S3 SCALE: 3/4" = 1'-0"



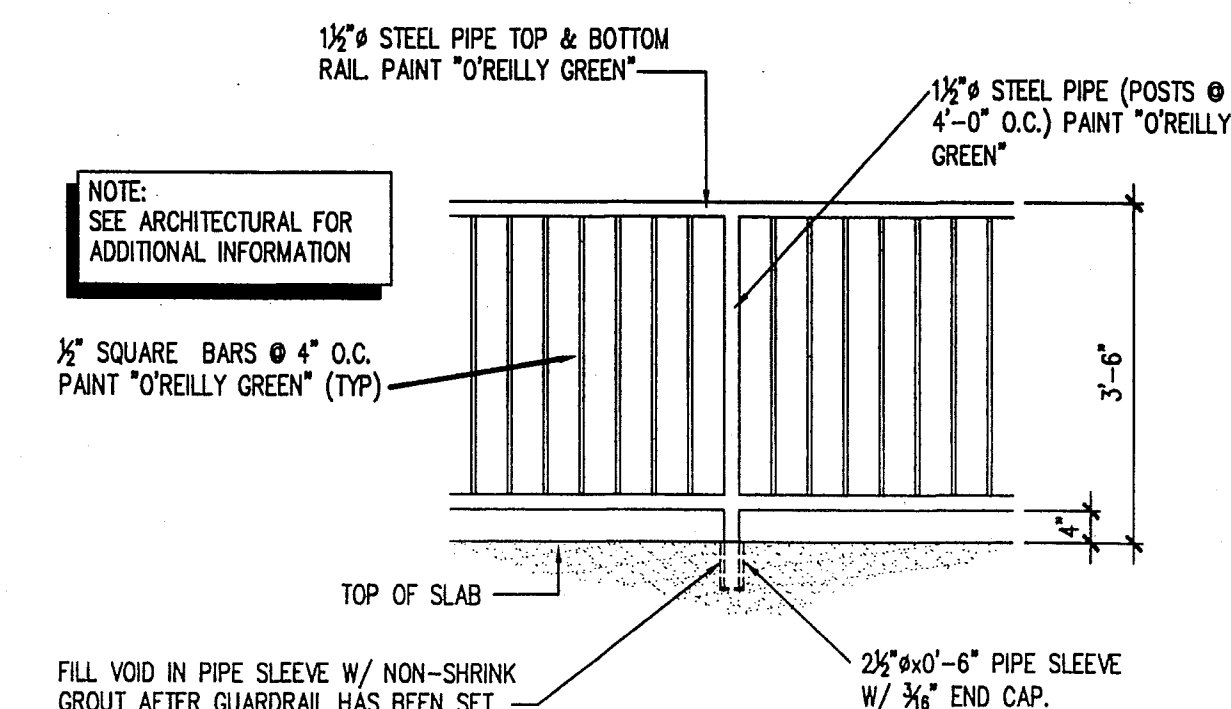
5 SHOP FABRICATED ANCHOR ASSEMBLY
S3 SCALE: NONE (DO NOT SHIP UNASSEMBLED TO FIELD)



11 WALL "V"-GROOVE CONTROL JOINT
S3 SCALE: NONE



12 TYPICAL WALL CONSTRUCTION JOINT
S3 SCALE: NONE



13 TYPICAL GUARDRAIL DETAIL
S3 SCALE: NONE

- KEYNOTES:**
- PRE-ENGINEERED METAL BUILDING STRUCTURAL SYSTEM. SEE P.E.M.B. SHOP DRAWINGS FOR ADDITIONAL INFORMATION.
 - ANCHOR BOLTS. SEE FOUNDATION SCHEDULE AND PRE-ENGINEERED METAL BUILDING DRAWINGS FOR SIZE, QUANTITY AND PLAN LOCATION. SEE 5/33 FOR TYPICAL SHOP FABRICATED ANCHOR ASSEMBLY.
 - INTERIOR CONCRETE SLAB SEE FOUNDATION PLAN.
 - #4 CONTINUOUS
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 - #3x4'-6" DOWEL @ 24" O.C. FIELD BEND AS SHOWN
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 - EXTERIOR CONCRETE SLAB OR SIDEWALK SEE FOUNDATION PLAN. REFER TO SITE DEVELOPMENT DRAWINGS FOR ALL EXTERIOR TOP OF CONCRETE ELEVATIONS.
 - SLAB HAIRPIN DOWEL SEE DETAIL 10/S2
 - (3) #3 TIES @ 3" O.C.
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 - SEE DETAIL 13/S3 FOR TYPICAL GUARDRAIL.

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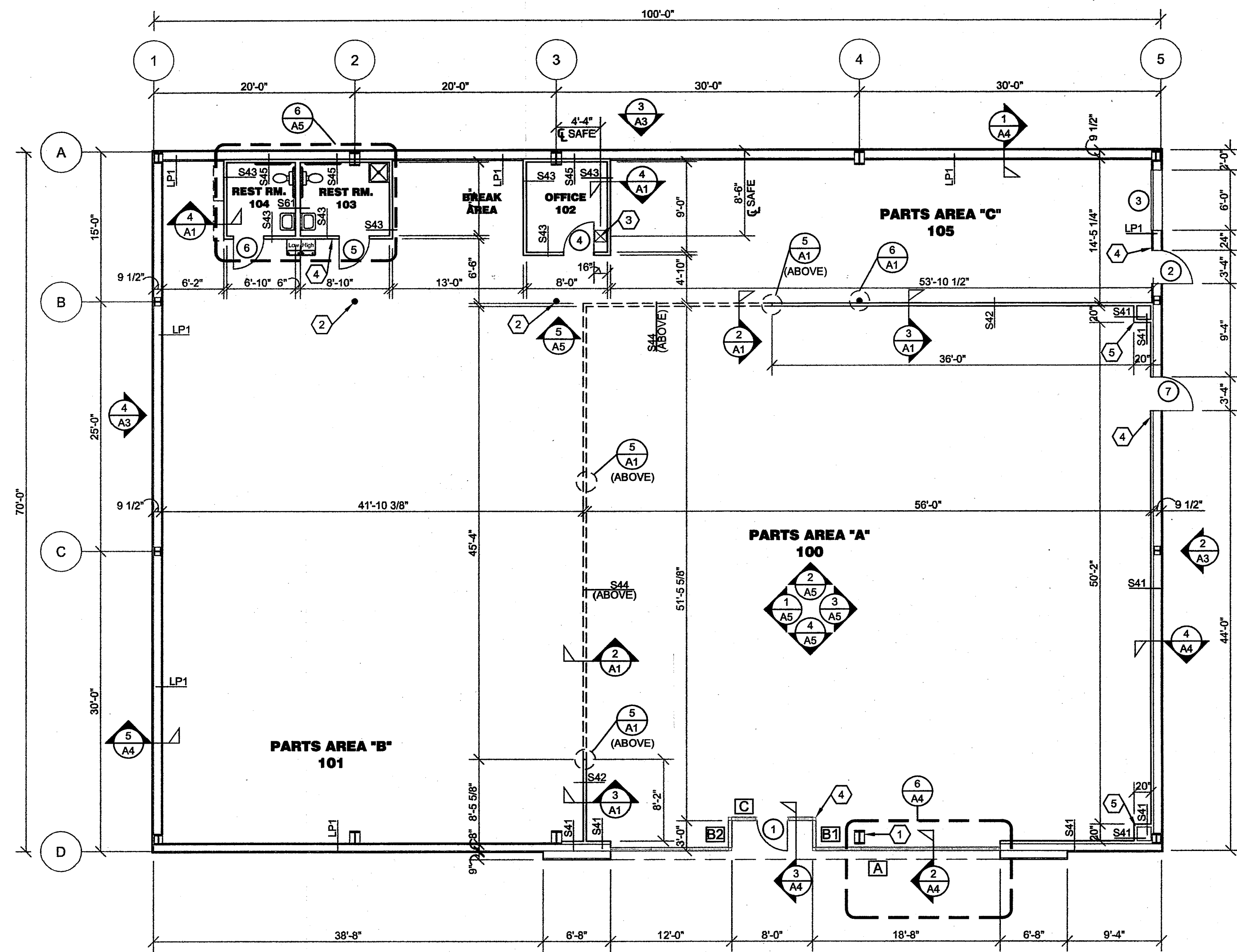
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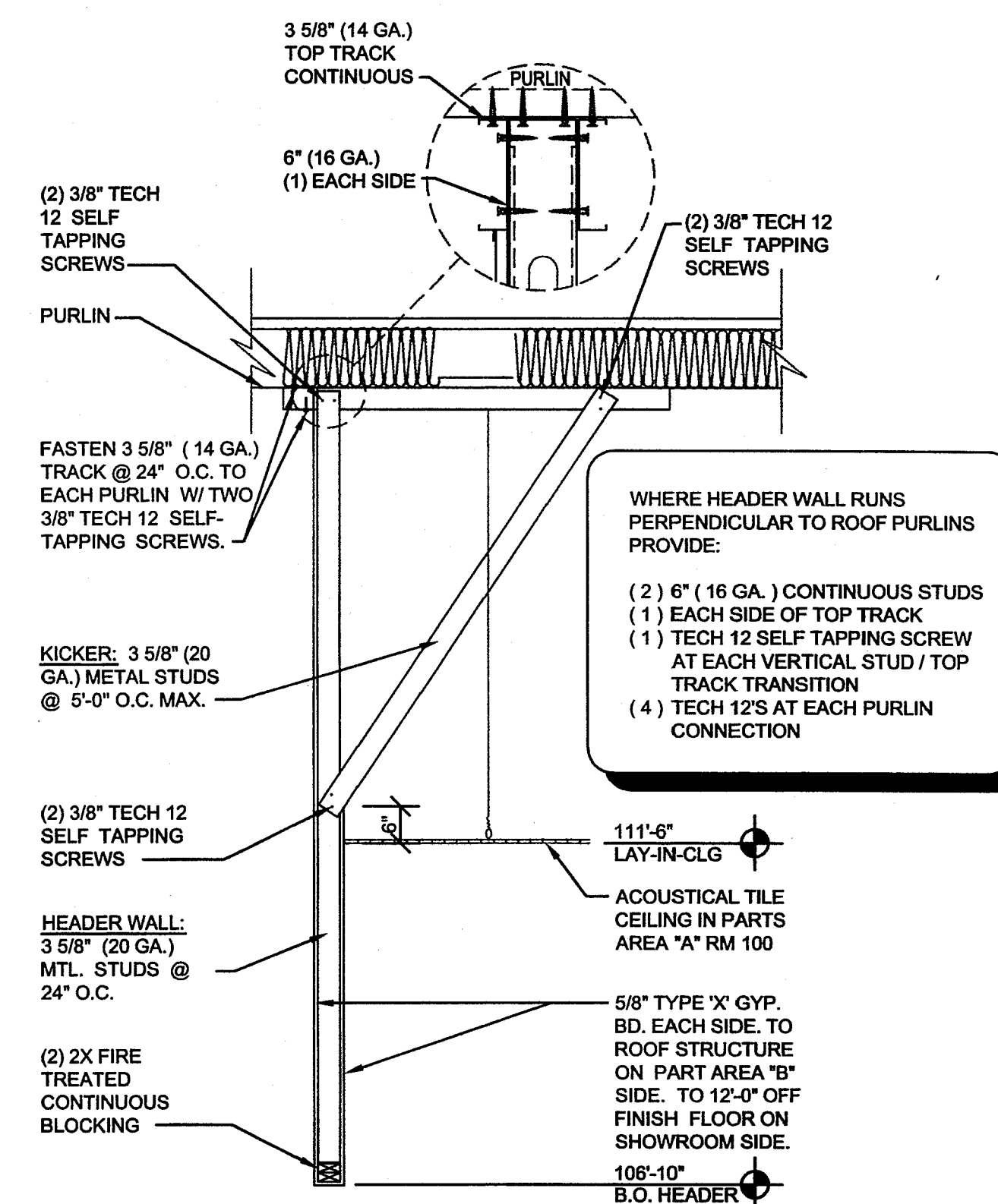
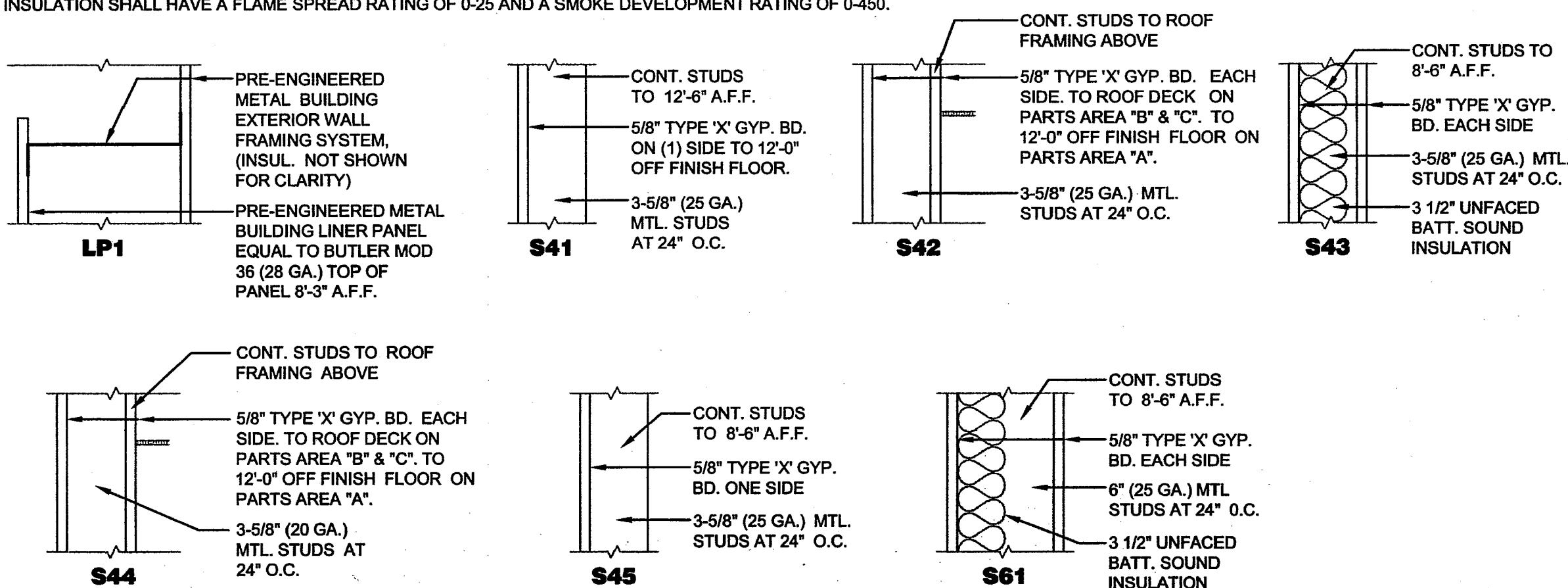
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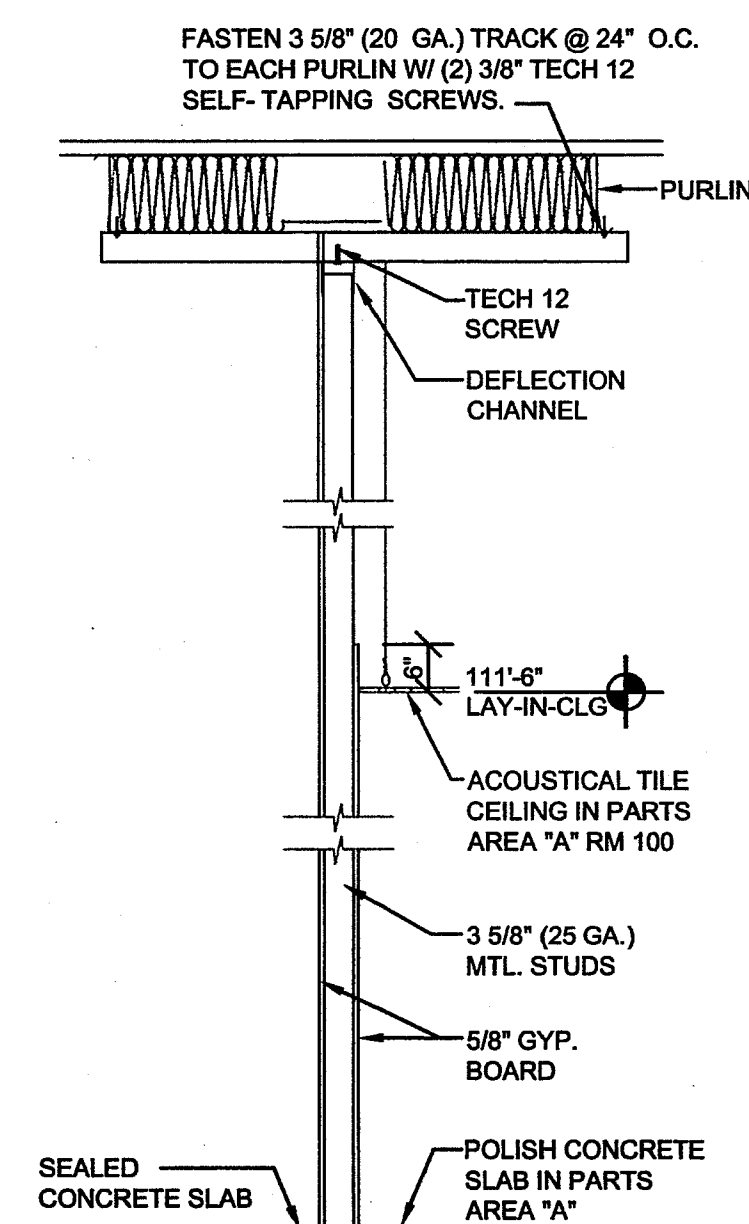
1 FLOOR PLAN
A1 SCALE: 1/8" = 1'-0"

WALL TYPES:

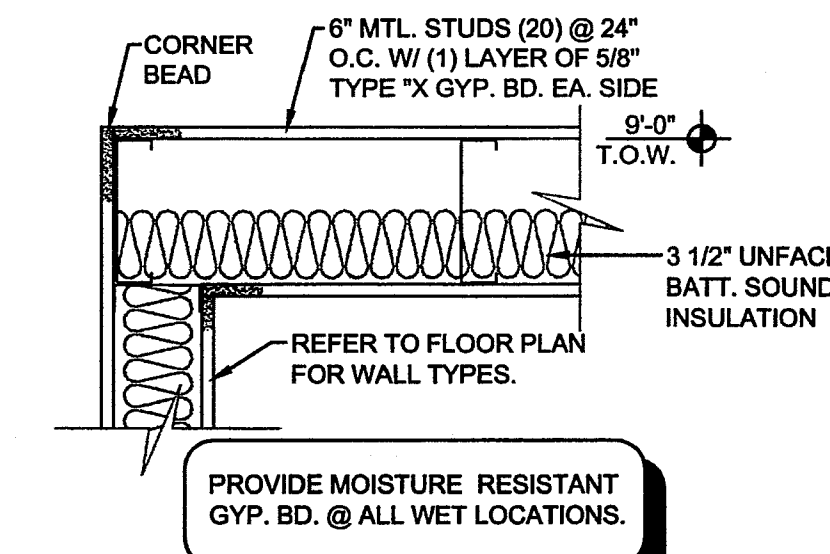
1. PROVIDE FIRE STOPPING AND FIRE SEALANT MATERIALS AS REQUIRED AT ALL RATED WALL CONSTRUCTION MATERIAL TRANSITIONS AND PENETRATIONS. RATING TO BE EQUAL TO RATED WALL ASSEMBLY.
2. PROVIDE DIAGONAL BACKING BRACING (3" X 16 GA. FLAT STRIP) AT CORNER FACES OF FREE STANDING PARTITION SYSTEMS.
3. PROVIDE MOISTURE RESISTANT TYPE "X" GYPSUM BOARD IN REST ROOMS.
4. PROVIDE "J" MOLDING REGLETS OR CORNER BEAD AT ALL DISSIMILAR WALL MATERIAL TRANSITIONS.
5. INSULATION SHALL HAVE A FLAME SPREAD RATING OF 0-25 AND A SMOKE DEVELOPMENT RATING OF 0-450.



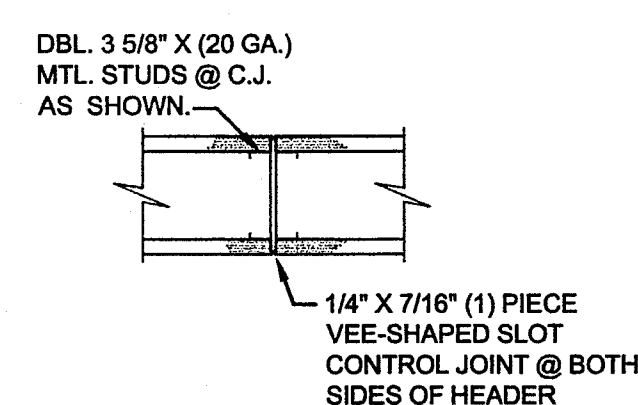
2 HEADER WALL SECTION
A1 SCALE: 1/2" = 1'-0"



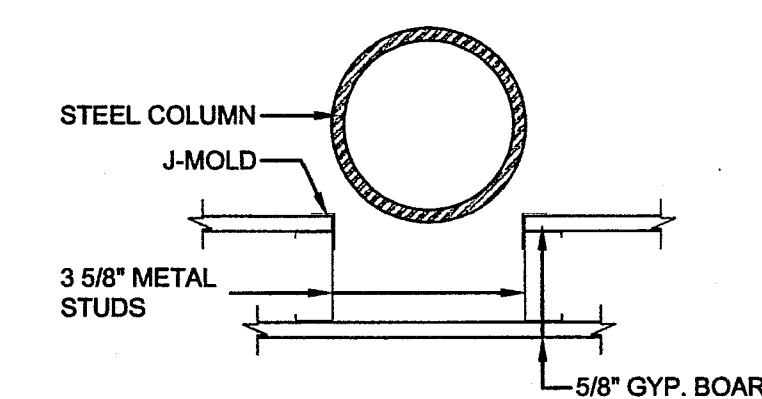
3 INTERIOR WALL SECTION
A1 SCALE: 1/2" = 1'-0"



4 WALL / CEILING SECTION
A1 SCALE: 1-1/2" = 1'-0"



5 GYP. BOARD C.J.
A1 SCALE: 1-1/2" = 1'-0"



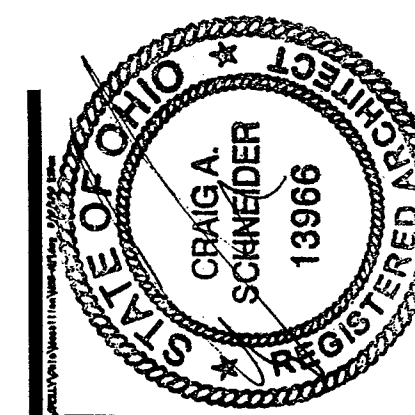
6 INTERIOR COLUMN DETAIL
A1 SCALE: 1-1/2" = 1'-0"

GENERAL NOTES:

- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. REFER TO COVER SHEET FOR BUILDING DESIGN CRITERIA.
- C. REFER TO P.E.M.B. DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- D. ALL DIMENSIONS TO ROUGH FACE OF ROUGH FRAMING, CONCRETE OR CENTERLINE OF STRUCTURE, UNLESS OTHERWISE NOTED. 3-5/8" METAL STUD INTERIOR PARTITION DIMENSIONS NOT SHOWN FOR CLARITY.
- E. REFER TO SHEET F1 FOR INTERIOR FINISH REQUIREMENTS AND OWNER FURNISHED AND INSTALLED FIXTURES AND EQUIPMENT.

KEY NOTES:

- 1 STEEL COLUMN:
PER METAL BUILDING MFG.
GC TO PROVIDE PRE-FINISHED BREAK METAL MATCHING
ALUMINUM STOREFRONT FINISH AND COLOR WITH NO
HORIZONTAL SEAM.
- 2 STEEL COLUMN:
PAINT O'REILLY GREEN.
- 3 FLOOR SAFE:
OWNER FURNISHED AND CONTRACTOR INSTALLED. SIZE TO BE
VERIFIED BY OWNER. PROVIDE 18" X 18" BLOCK OUT & DO NOT
INSTALL UNTIL AFTER OFFICE GYP. BD. WORK HAS BEEN
COMPLETE. (REFER TO STRUCTURAL SHEETS FOR LOCATION.)
- 4 FIRE EXTINGUISHER:
MOUNT 42" ABOVE FINISHED FLOOR.
- 5 SHOWROOM CORNER BOX OUT:
INSTALL PLYWOOD BACKING TO EACH FACE FROM 8'-0" TO 10'-0"
A.F.F. FOR INSTALLATION OF SECURITY MIRRORS.



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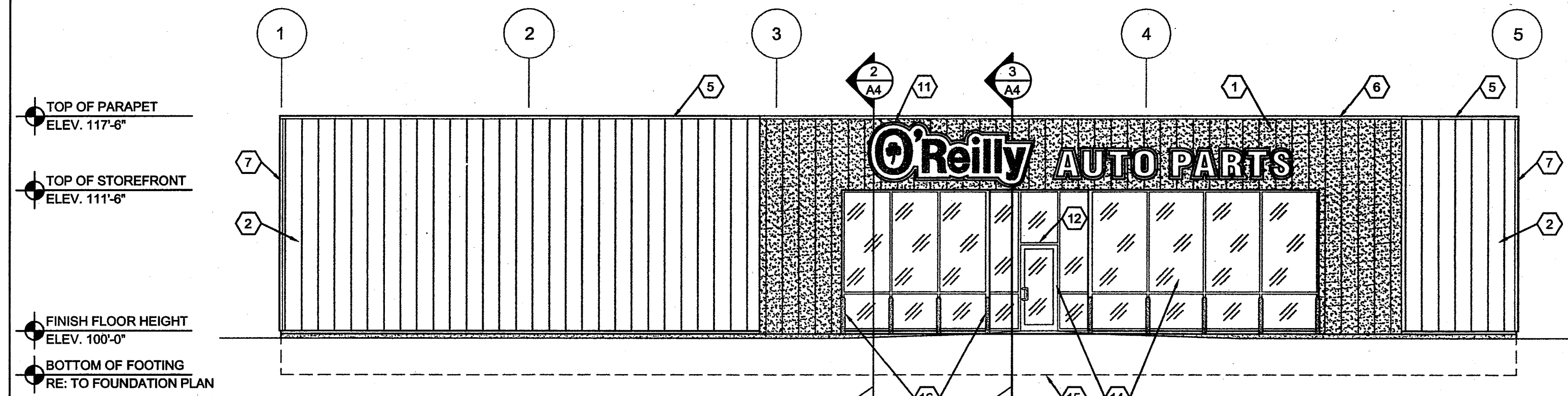
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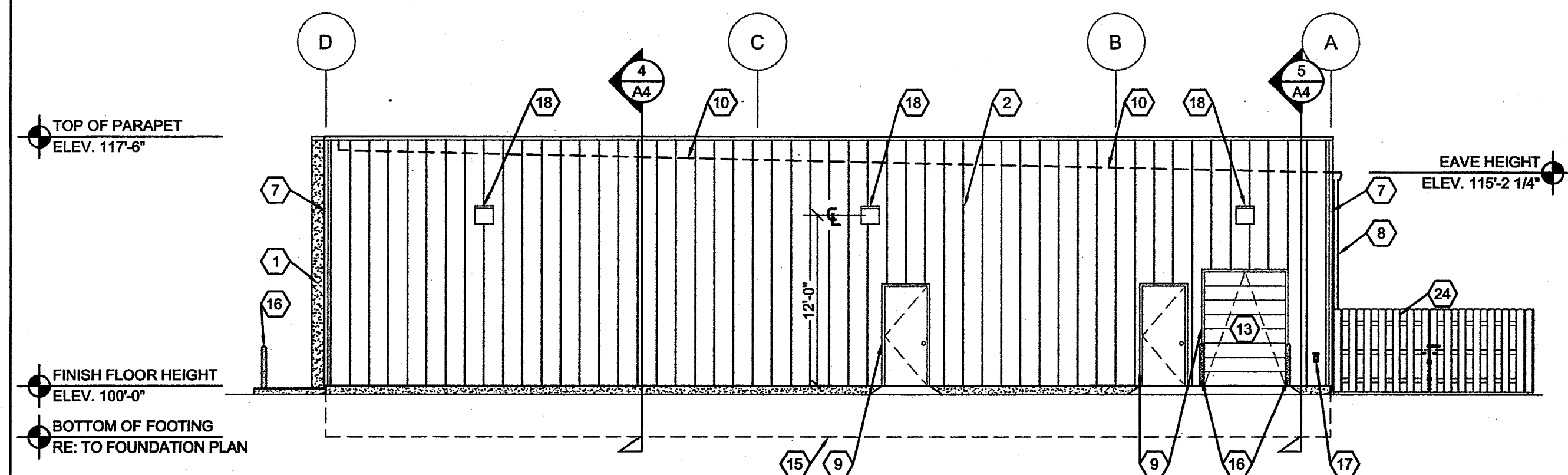
O'Reilly AUTO PARTS
Corporate Office:
233 South Patterson, Springfield, Mo 65802
Phone: (417) 862-3333 FAX: (417) 874-7112

COMM # 2741

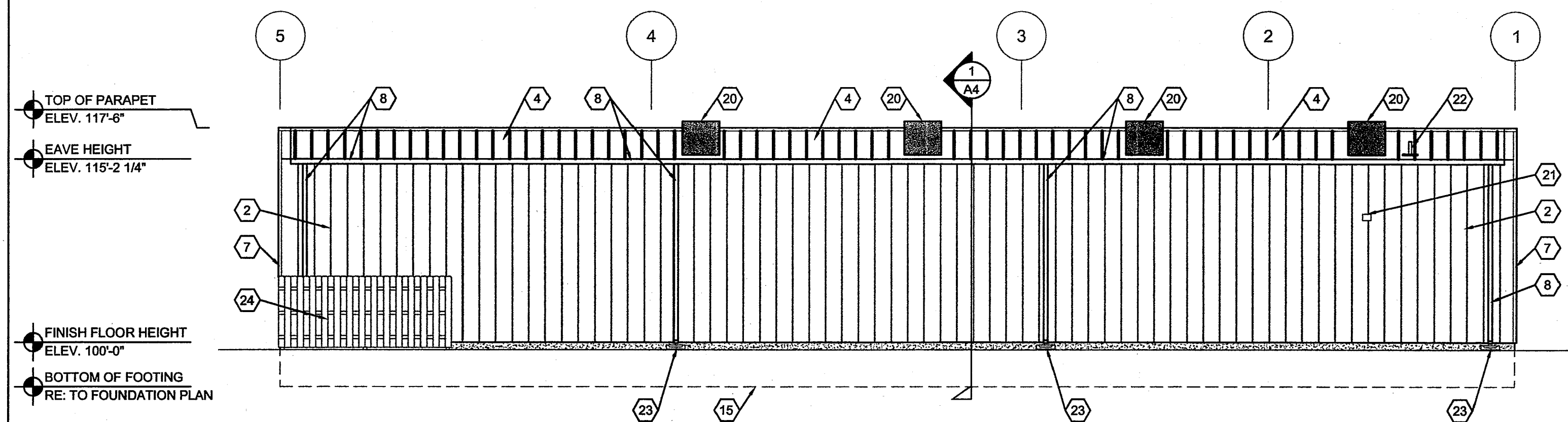
DATE: 5-7-10
REVISION
DATE:



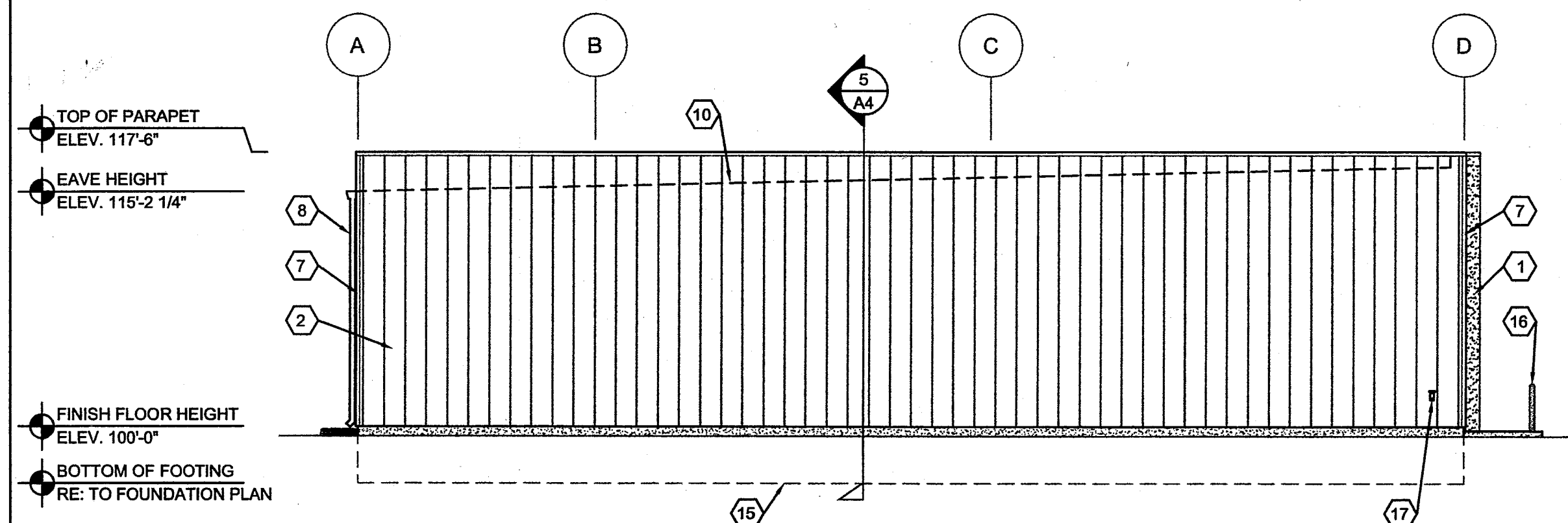
1 SOUTH ELEVATION
A3 SCALE: 1/8" = 1'-0"



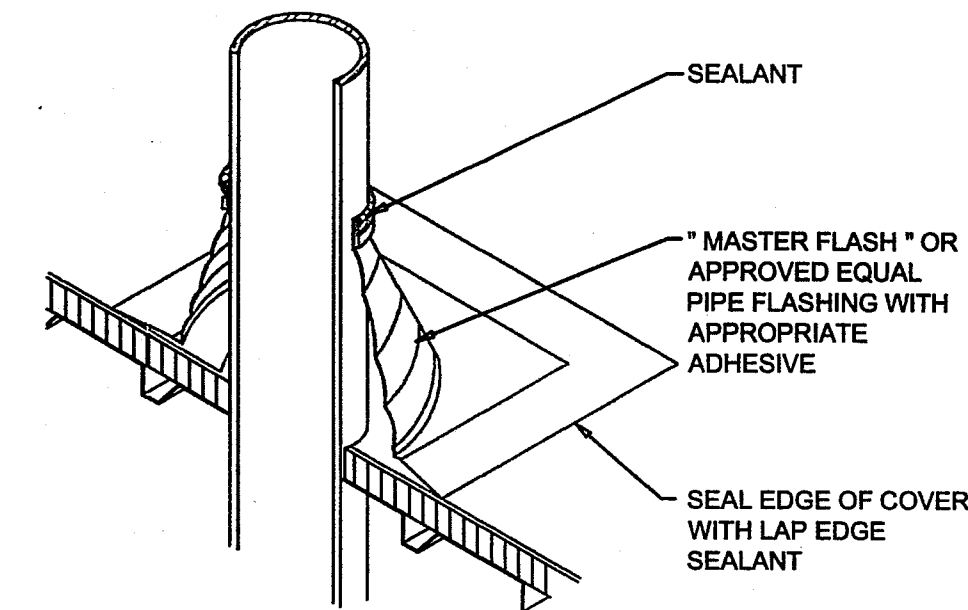
2 EAST ELEVATION
A3 SCALE: 1/8" = 1'-0"



3 NORTH ELEVATION
A3 SCALE: 1/8" = 1'-0"



4 WEST ELEVATION
A3 SCALE: 1/8" = 1'-0"



5 VENT PIPE
A3 SCALE: N.T.S.

GENERAL NOTES:

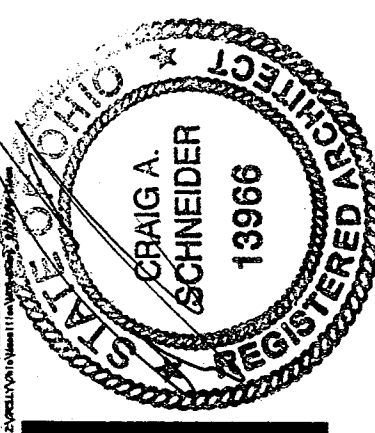
- REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- REFER TO COVER SHEET FOR BUILDING DESIGN CRITERIA.
- REFER TO PRE-ENGINEERED METAL BUILDING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- REFER TO MECHANICAL / ELECTRICAL PLAN FOR SYSTEM TYPES AND LOCATIONS.
- REFER TO SITE DEVELOPMENT PLANS FOR ADDITIONAL REQUIREMENTS.

KEY NOTES:

- PRE - ENGINEERED EXTERIOR METAL ACCENT PANEL:
BY BUTLER MFG. OR SIMILAR COMPANY * TEXTURE - WALL * PANEL SYSTEM.
- PRE - ENGINEERED EXTERIOR WALL PANEL:
BY BUTLER MFG. OR SIMILAR COMPANY * STYLWALL * FLAT WALL SYSTEM.
- NOT USED.
- PRE - ENGINEERED STANDING SEAM ROOF:
BY BUTLER MFG OR SIMILAR COMPANY
- PRE - ENGINEERED METAL CAP FLASHING:
3" FACE - COLOR SHALL BE GREEN TO MATCH STOREFRONT
- PRE - ENGINEERED METAL CAP FLASHING:
3" FACE - COLOR SHALL BE RED TO MATCH * TEXTURE COTE * PANEL.
- PRE - ENGINEERED PRE - FINISHED METAL BUILDING TRIM:
COLOR SHALL MATCH EXTERIOR PANEL COLOR.
- PRE - ENGINEERED PRE - FINISHED METAL GUTTER & DOWNSPOUT SYSTEM:
COLOR SHALL MATCH EXTERIOR PANEL COLOR.
- PRE - ENGINEERED PRE - FINISHED METAL BUILDING DOOR TRIM:
BY BUTLER MFG. OR SIMILAR COMPANY COLOR SHALL MATCH EXTERIOR PANEL COLOR.
- ROOF SLOPE:
DASHED LINE INDICATES LINE OF ROOF BEYOND WITH SLOPE OF 1/4" PER FOOT.
- SIGN:
APPROXIMATE OUTLINE OF * O'REILLY AUTO PARTS * SIGN. OWNER FURNISHED AND INSTALLED PROVIDE BLOCKING AS REQUIRED FOR MOUNTING SIGN, COORDINATE WITH SIGN COMPANY.
- ADDRESS NUMBERS:
6" HIGH VINYL BY CONTRACTOR. COLOR SHALL BE WHITE.
- OVERHEAD DOOR AND FRAME:
(REFER TO DOOR SCHEDULE)
- STOREFRONT:
(REFER TO FLOOR PLAN FOR WINDOW TYPES)
- LINE OF FOUNDATION:
(REFER TO FOUNDATION PLAN)
- STEEL BOLLARDS:
(REFER TO FOUNDATION PLAN)
FIELD PAINT O'REILLY GREEN.
- HOSE BIB:
(REFER TO PLUMBING PLAN)
- LIGHT FIXTURE:
(REFER TO ELECTRICAL PLAN)
- NOT USED
- ROOF TOP UNIT:
APPROXIMATE LOCATION
(REFER TO MECHANICAL PLAN FOR EXACT LOCATION)
- MECHANICAL WALL PENETRATIONS:
PROVIDE FRAMING, FLASHING, AND SEALANT AS REQUIRED.
(REFER TO M.E.P. SHEETS)
- ROOF PIPING VENT:
REFER TO DETAIL 5/A3.
- CONCRETE SPLASH BLOCK:
INSTALL AT EACH DOWNSPOUT. FLUSH WEATHERPROOF.
- WOOD FENCE AND GATE:
REFER TO DETAILS 11/C3 AND 12/C3.

EXTERIOR FINISH SCHEDULE

TYPE:	COMPANY TYPE:	COLOR:
PRE - ENGINEERED METAL BUILDING PANELS	BUTLER TEXTURE WALL / ACCENT PANEL	"O'REILLY RED"
	BUTLER STYLWALL	BIRCH WHITE
PRE - FINISHED GUTTERS AND DOWNSPOUTS	BUTLER	BIRCH WHITE
STOREFRONT (NO SUBSTITUTES)	EFCO	IVY
	KAWNEER	DARK IVY
	VISTA WALL	INTERSTATE GREEN
BOLLARDS OVERHEAD DOOR	IN FIELD	"O'REILLY GREEN" GLIDDEN EXTERIOR SEMI -GLOSS LATEX BASE: 2407 - 500 YOK: 3P 42 TBL: 4P48 GRN: 3P14 WHT: 2P COLOR #: CUSTOM
EXTERIOR DOORS	OWNER	OWNER
PRE - FINISHED SHEET METAL CAP FLASHING AT STOREFRONT	BUTLER	"O'REILLY RED" SHERWIN WILLIAMS MIX BASE: B65R338/B60V30 GALLON FORMULA QV: 45 TW: 15 CLEAR COAT URETHANE B65T105/B65V105/B65C105 3 COMPONENT
PRE - FINISHED SHEET METAL CAP FLASHING	BUTLER	HUNTER GREEN

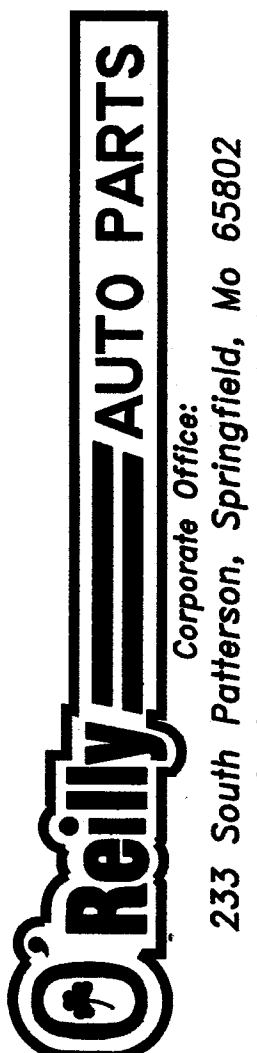


CRAIG A. SCHNEIDER, AIA
ARCHITECT

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Fax: 417-862-3265
e-mail: architect@esterlyschneider.com

New O'Reilly Auto Parts Store:

E. LINCOLN WAY
MASSILLON, OH

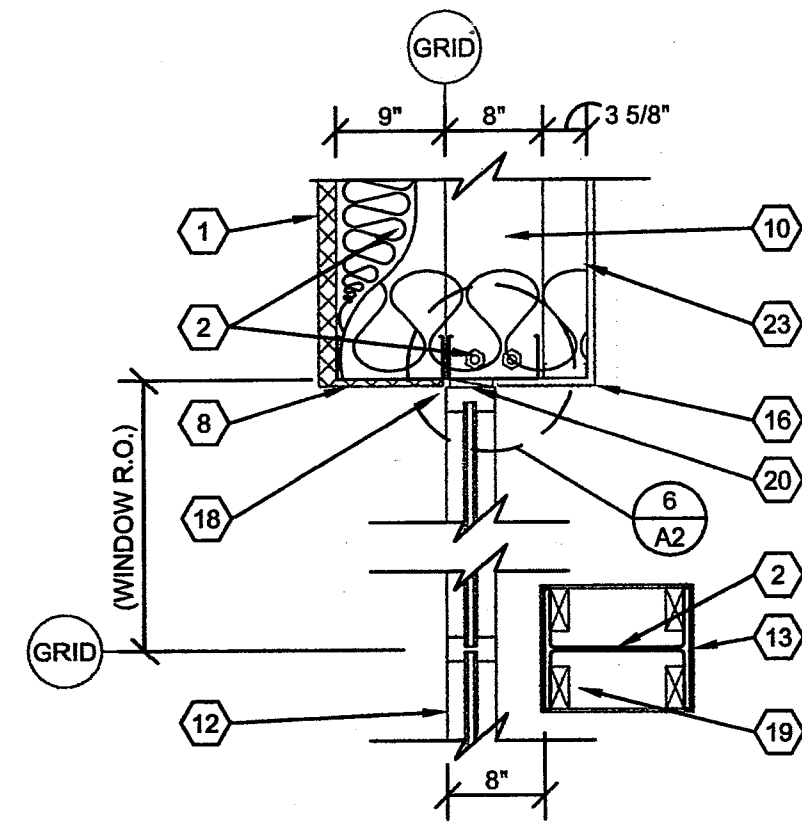


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6 PLAN SECTION AT COLUMN
A4 SCALE: 3/4" = 1'-0"

KEY NOTES:

- 1 PRE - ENGINEERED METAL BUILDING EXTERIOR WALL PANEL SYSTEM: REFER TO ELEVATIONS AND P.E.M.B. NOTES FOR TYPES.
- 2 PRE - ENGINEERED METAL BUILDING STRUCTURAL FRAMING SYSTEM: REFER TO SHOP DRAWINGS AND P.E.M.B. NOTES FOR REQUIREMENTS
- 3 PRE - ENGINEERED METAL BUILDING SHEET METAL FLASHING: COUNTER - FLASHING, CONT. CLEATS, DRIPS CLOSURES, TRANSITIONS, COPINGS AND ACCESSORIES AS REQUIRED, REFER TO P.E.M.B. SHOP DRAWINGS. FACTORY FINISHED, REFER TO EXTERIOR FINISH SCHEDULE FOR COLORS.
- 4 PRE - ENGINEERED METAL BUILDING GUTTER AND DS SYSTEM: AS INDICATED ON ELEVATIONS, REFER TO P.E.M.B. SHOP DRAWINGS FOR SIZES AND REQUIREMENTS.
- 5 PRE - ENGINEERED MTL. BLDG BASE ANGLE AND PANEL CLOSURE: REFER TO P.E.M.B. SHOP DRAWINGS FOR REQUIREMENTS.
- 6 PRE - ENGINEERED METAL BUILDING INTERIOR WALL LINER PANEL: REFER P.E.M.B. NOTES AND SHOP DRAWINGS FOR REQUIREMENTS.
- 7 PRE - ENGINEERED METAL BUILDING ROOF PANEL SYSTEM: REFER TO P.E.M.B. NOTES AND SHOP DRAWINGS FOR REQUIREMENTS.
- 8 PRE - ENGINEERED MTL. BLDG. SOFFIT PANEL AND SHEET MTL. CLADDING: TO MATCH FRONT WALL PANELS, REFER TO P.E.M.B. NOTES AND SHOP DRAWINGS FOR REQUIREMENTS.

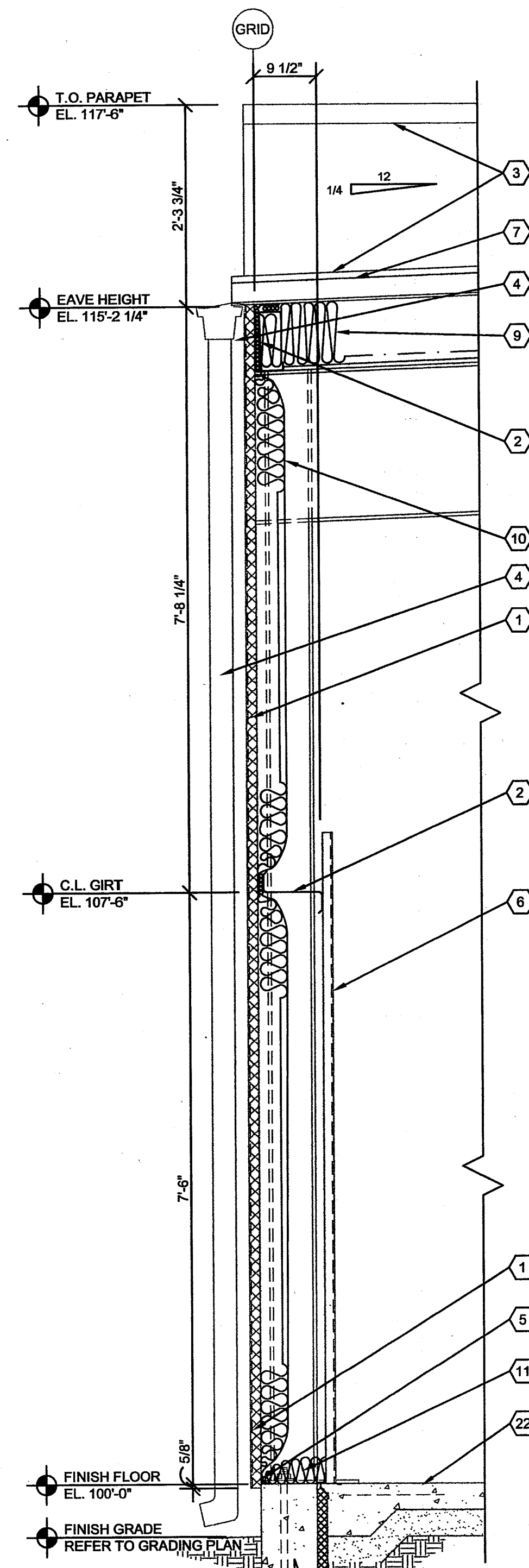
- 9 ROOF INSULATION: CGI SILVER COTE INC. "SUPPORT FILM, BANDING AND INSULATION SYSTEM" 6 AND 3 1/2 (R-30) (NO SUBSTITUTE) FIBERGLASS BLANKET INSULATION OVER HIGH STRENGTH STEEL. SUSPENSION STRAPS ATTACHED UNDERNEATH PRE - ENGINEERED METAL BUILDING ROOF PURLINS. TAPE, FASTENERS AND INSULATION PROVIDED BY CGI. (OWNER SUPPLIED AND CONTRACTOR INSTALLED)
- 10 WALL INSULATION: 4" (R-13) FIBERGLASS BLANKET INSULATION FACED WITH CL5010 (PSK-10) (W 1-6" TABS) ATTACHED TO PRE - ENGINEERED METAL BUILDING WALL GIRTS. TAPE PROVIDED BY CGI (1 ROLL PATCH AND TWO ROLLS OF DOUBLE FACED) (OWNER SUPPLIED AND CONTRACTOR INSTALLED)
- 11 BATT INSULATION: 4" (R-13) FIBERGLASS BATT INSULATION WITH FOIL FACE VAPOR BARRIER (PSK-10) (CONTRACTOR SUPPLIED AND CONTRACTOR INSTALLED)
- 12 PRE - FINISHED HOLLOW ALUMINUM STOREFRONT SYSTEM: REFER TO WINDOW TYPES, GLAZING SCHEDULE, AND EXTERIOR FINISH SCHEDULE FOR COLORS.
- 13 PRE - FINISHED SHEET METAL: (24 GA.) COLUMN ENCLOSURE TO EXTEND THRU FINISH CEILING SYSTEM. FINISH TO MATCH STOREFRONT SYSTEM.

- 14 SUSPENDED ACOUSTICAL LAY - IN CEILING SYSTEM: REFER TO FINISH SCHEDULE FOR TYPE.
- 15 METAL STUD FRAMING: 6" (16 GA.) METAL STUD FRAMING AT 24" O.C. ATTACHED TO PRE - ENGINEERED METAL BUILDING STRUCTURAL FRAMING SYSTEM.
- 16 GYPSUM BOARD: 5/8" TYPE " X " GYP. BD., REFER TO INTERIOR FINISH SCHEDULE FOR PAINT.
- 17 WALL SIGN: SURFACE MOUNTED WALL SIGNAGE. OWNER FURNISHED AND INSTALLED, PROVIDE METAL BACKING AND ELECTRICAL AS INDICATED.
- 18 SEALANT: EQUAL TO "TREMCO" SERIES 830 (DARK GREEN) TYPICAL BOTH SIDES OF STOREFRONT ALL AROUND.
- 19 BLOCKING 2X: FIRE TREATED 2X BLOCKING ATTACHED TO PRE - ENGINEERED METAL BUILDING STRUCTURAL SYSTEM.
- 20 BLOCKING 1X: FIRE TREATED 1X BLOCKING ATTACHED TO PRE - ENGINEERED METAL BUILDING STRUCTURAL SYSTEM.

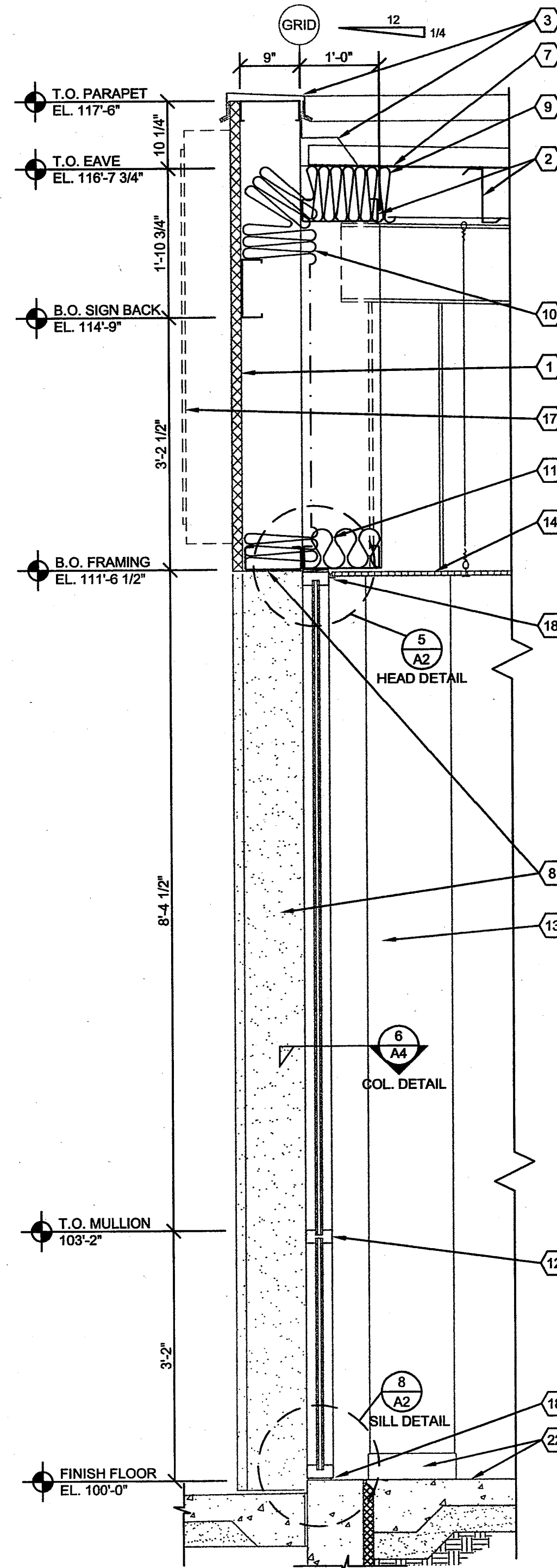
- 21 RECESSED LIGHTING FIXTURE: REFER TO ELECTRICAL SHEETS FOR TYPE AND LOCATION.
- 22 FLOORING AND BASE: REFER TO FINISH SCHEDULE FOR TYPES AND LOCATION.
- 23 METAL STUD FRAMING: 3 5/8" (25 GA.) METAL STUD FRAMING AT 24" O.C. REFER TO FLOOR PLAN FOR WALL TYPES.
- 24 C-GIRT: REFER TO P.E.M.B. NOTES AND SHOP DRAWINGS FOR REQUIREMENTS.
- 25 PARAPET POST: REFER TO P.E.M.B. NOTES AND SHOP DRAWINGS FOR REQUIREMENTS.
- 26 TRANSITION SUPPORT ANGLE: REFER TO P.E.M.B. NOTES AND SHOP DRAWINGS FOR REQUIREMENTS.

GENERAL NOTES:

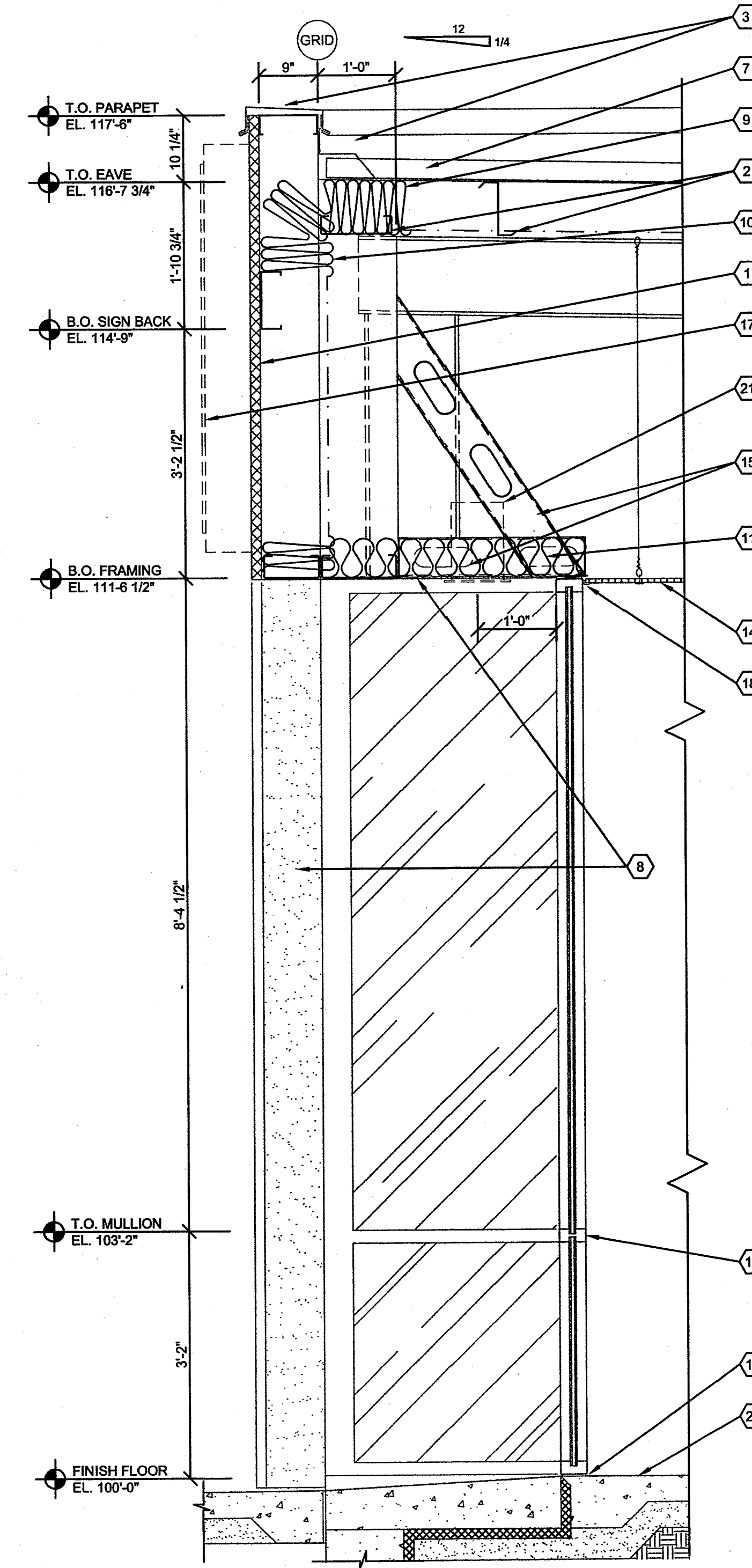
- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. REFER TO PRE - ENGINEERED METAL BUILDING SHOP DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- C. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING SHEETS FOR SYSTEM TYPES AND LAY-OUT.
- D. SHEET METAL FABRICATIONS TO BE INSTALLED PER S.M.A.C.N.A. (SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION) LATEST REVISION.
- E. DIMENSIONS TO FACE OF STRUCTURE, CONCRETE OR ROUGH FRAMING UNLESS OTHERWISE INDICATED.
- F. REFER TO FOUNDATION PLAN FOR FOOTINGS, FOUNDATIONS, AND REINF. REQUIREMENTS.
- G. REFER TO INTERIOR AND EXTERIOR FINISH SCHEDULES FOR MATERIAL FINISH TYPES AND LOCATIONS.
- H. NOT ALL INSULATION SHOWN FOR CLARITY. INSULATION SHALL HAVE A FLAME SPREAD RATING OF 0-25 AND A SMOKE DEVELOPMENT RATING OF 0 - 450.



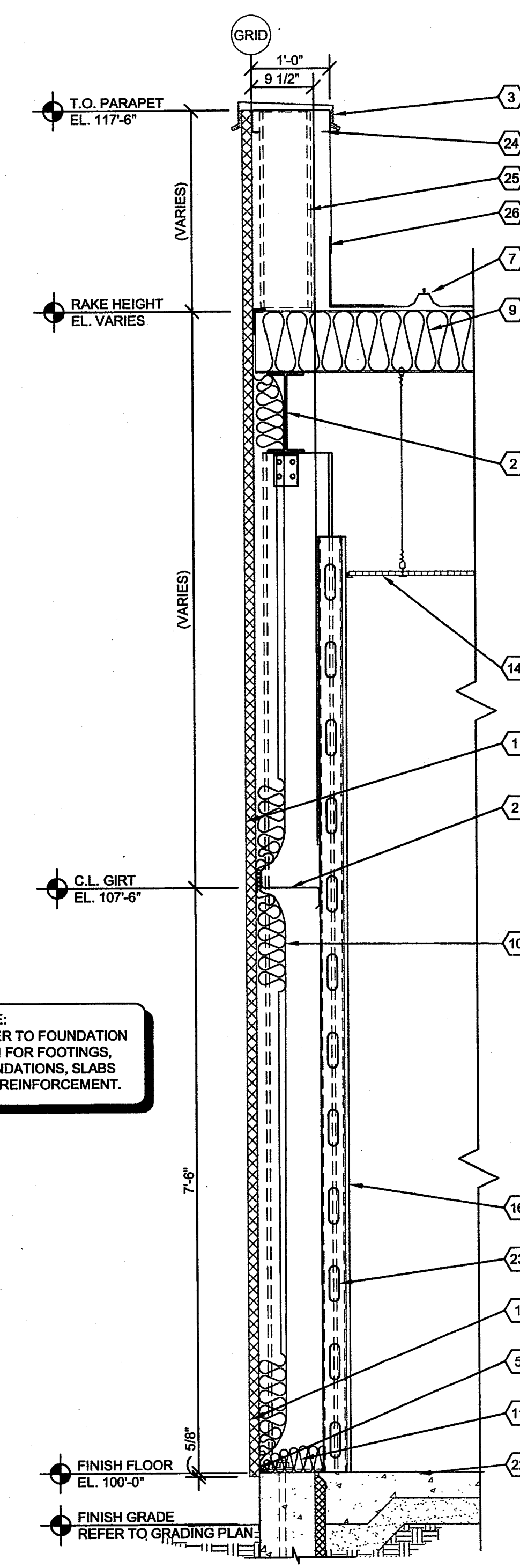
1 WALL SECTION
A4 SCALE: 3/4" = 1'-0"



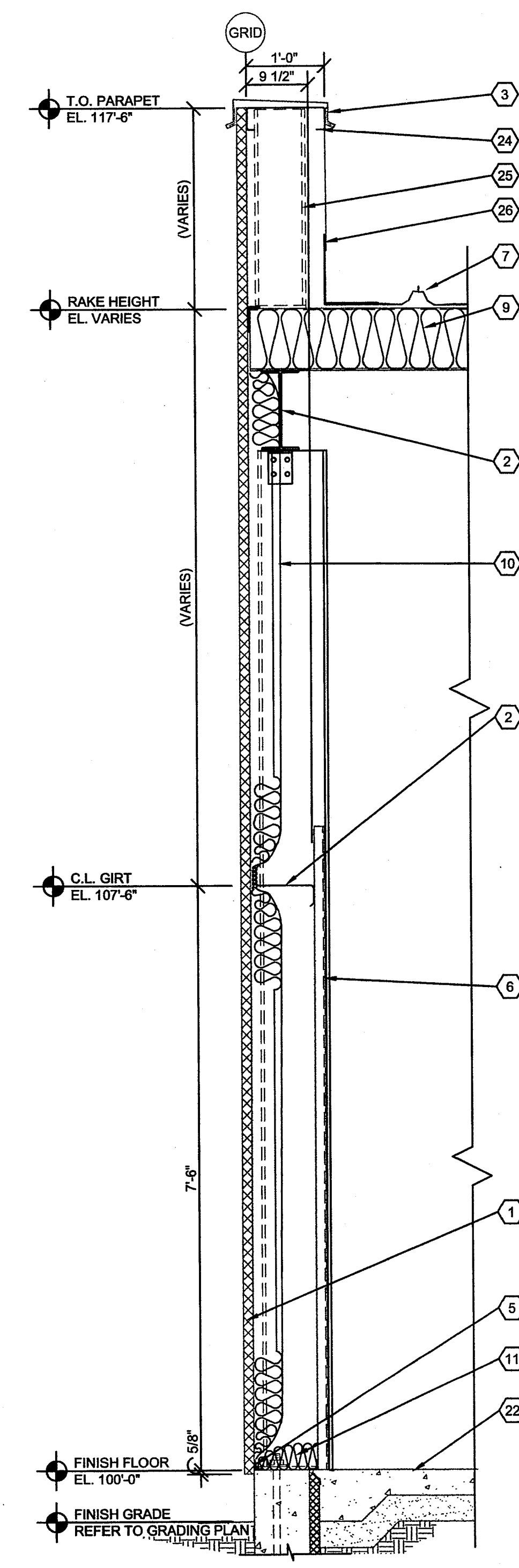
2 WALL SECTION
A4 SCALE: 3/4" = 1'-0"



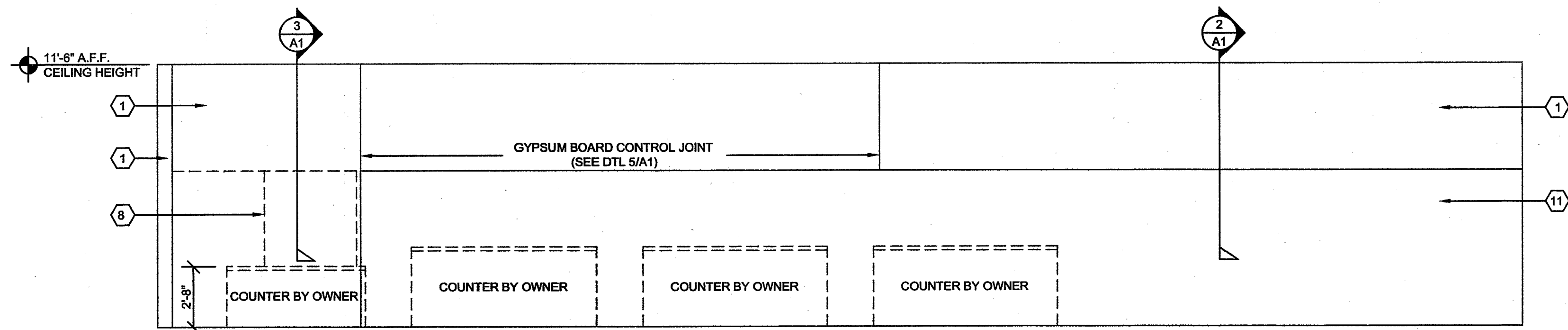
3 WALL SECTION
A4 SCALE: 3/4" = 1'-0"



4 WALL SECTION
A4 SCALE: 3/4" = 1'-0"

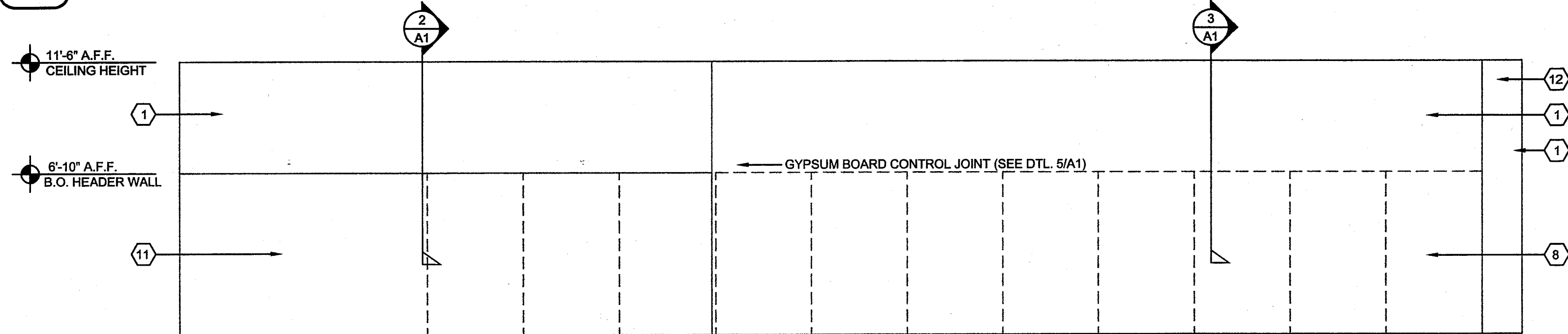


5 WALL SECTION
A4 SCALE: 3/4" = 1'-0"



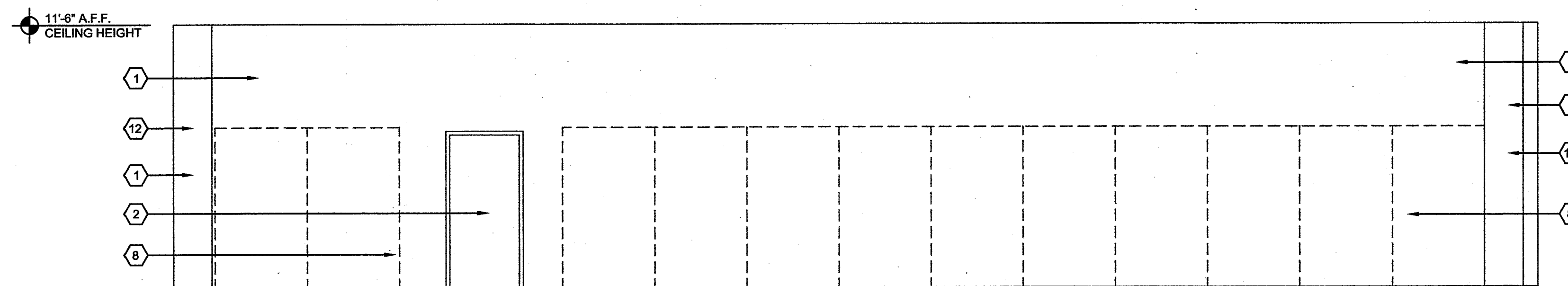
1 INTERIOR ELEVATION

A5 SCALE: 1/4" = 1'-0"



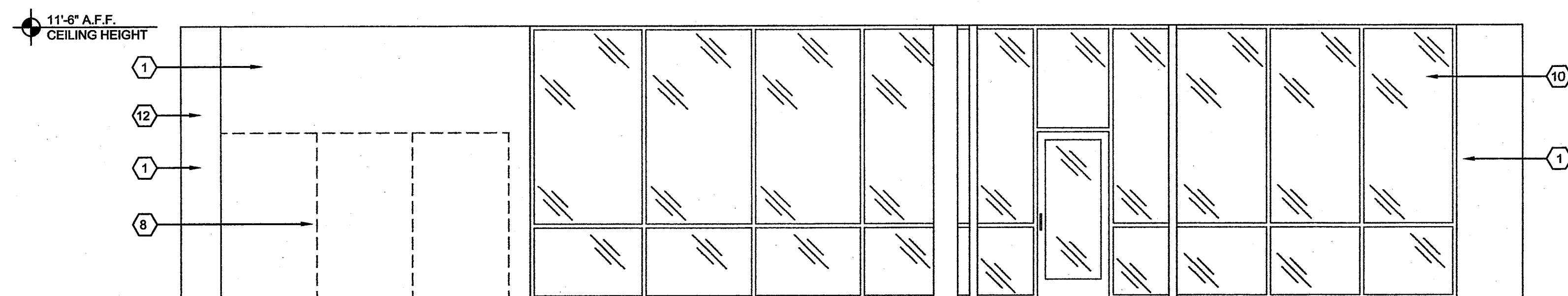
2 INTERIOR ELEVATION

A5 SCALE: 1/4" = 1'-0"



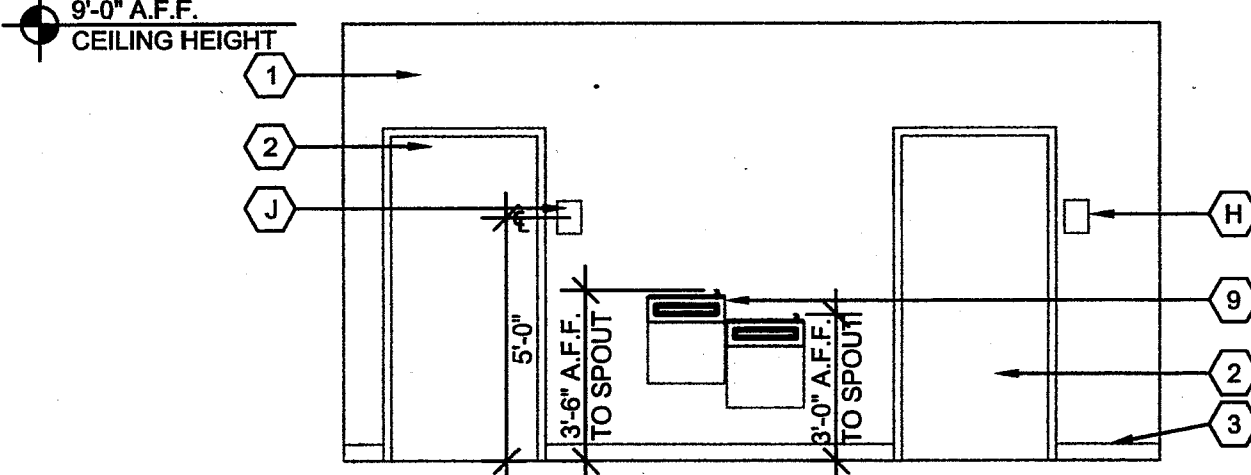
3 INTERIOR ELEVATION

A5 SCALE: 1/4" = 1'-0"



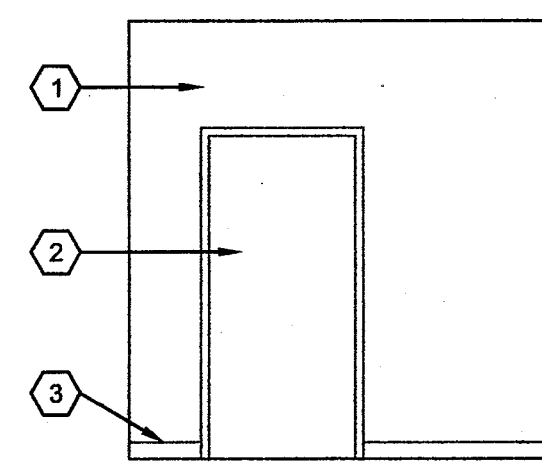
4 INTERIOR ELEVATION

A5 SCALE: 1/4" = 1'-0"



5 INTERIOR ELEVATION

A5 SCALE: 1/4" = 1'-0"



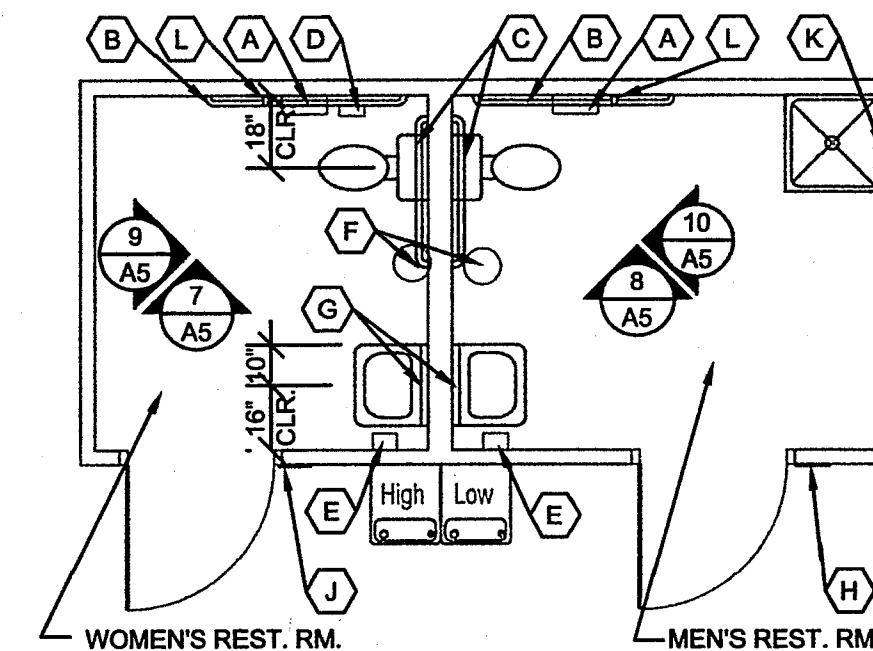
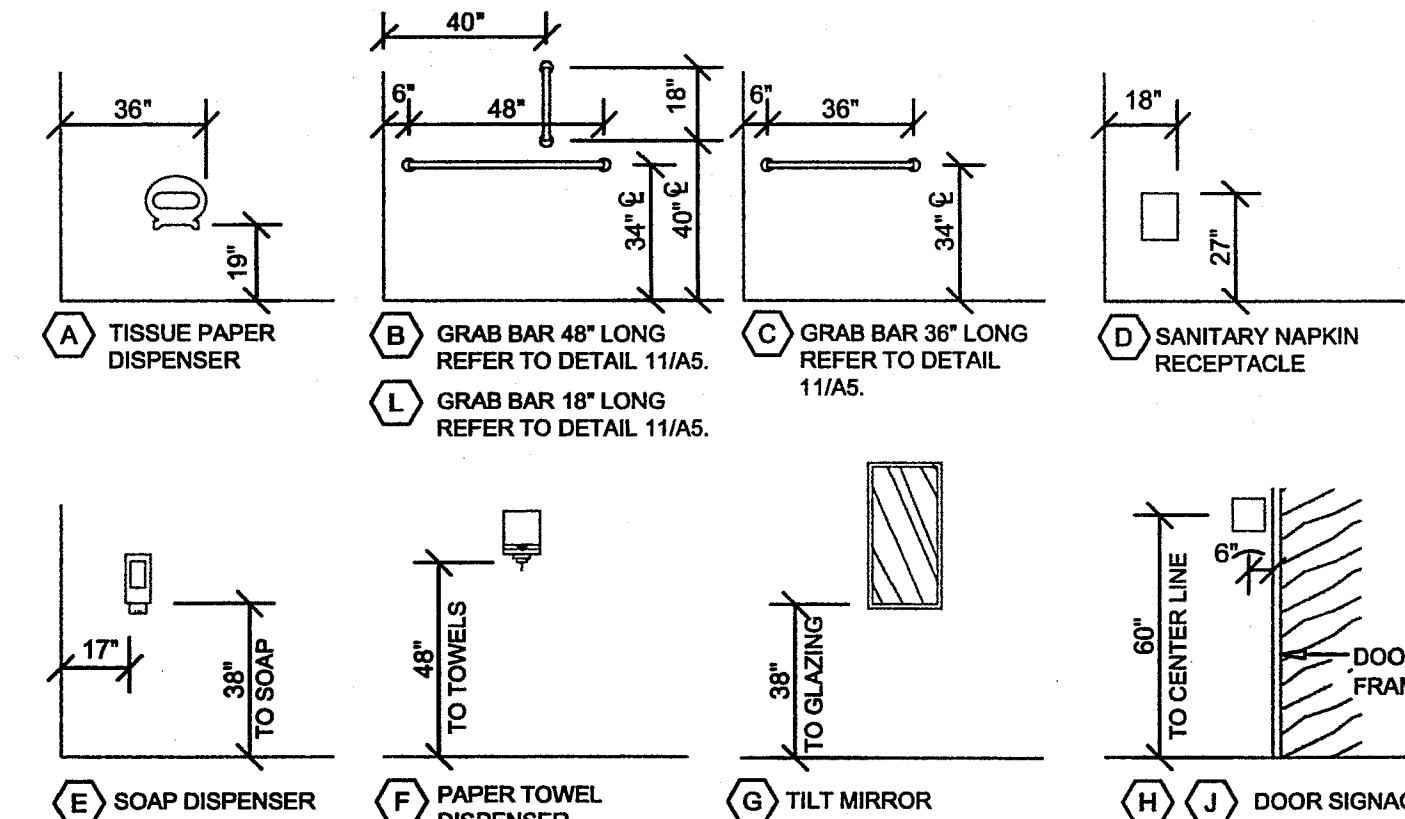
TOILET ACCESSORIES

MK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MOUNTED HEIGHT	REMARKS
A	TISSUE PAPER DISPENSER	(BY OWNER)		19" A.F.F. TO BOTTOM ROLL	BY OWNER (N.I.C.)
B	GRAB BAR	BOBRICK	B6806 x 48"	34" A.F.F. TO ϵ	REFER TO 11/A5
C	GRAB BAR	BOBRICK	B6806 x 36"	34" A.F.F. TO ϵ	REFER TO 11/A5
D	SANITARY NAPKIN RECEPTACLE	BOBRICK	B-270	27" A.F.F. TO TOP	AT WOMEN'S RM ONLY
E	SOAP DISPENSER	(BY OWNER)		38" A.F.F. TO SOAP	BY OWNER (N.I.C.)
F	PAPER TOWEL DISPENSER	(BY OWNER)		4'-0" TO TOWELS	BY OWNER (N.I.C.)
G	TILT MIRROR	BOBRICK	B-293-1836 18" W X 36" H	38" A.F.F. TO BOTTOM	METAL EDGE
H	MEN'S HCRR SIGN	ROCKWOOD	BF687 BLUE	60" A.F.F. TO CENTER	WHITE TEXT ON BLACK BACKGROUND
J	WOMEN'S HCRR SIGN	ROCKWOOD	BF688 BLUE	60" A.F.F. TO CENTER	WHITE TEXT ON BLACK BACKGROUND
K	MOP HANGER	REFER TO M.E.P. PLANS FOR DETAILS		60" A.F.F. TO CENTER	N/A
L	GRAB BAR	BOBRICK	B6806 x 18"	40" A.F.F. TO ϵ	REFER TO 11/A5

NOTE:
1. CONTRACTOR TO PROVIDE FIRE TREATED WOOD BLOCKING FOR INSTALLATION OF ALL TOILET ACCESSORIES.
2. IT IS THE CONTRACTOR'S OPTION TO DIRECT ORDER AND PURCHASE TOILET ACCESSORIES THROUGH LOCKNET.
(EXCLUDING ITEMS LABELED "OWNER SUPPLIED")

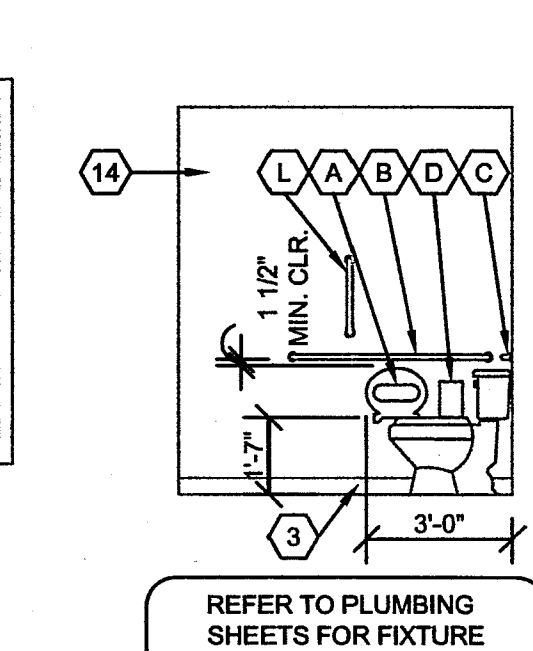
LOCKNET
100 COURCHELLE DRIVE
NICHOLASVILLE, KY 40356
CONTACT: BEN GORTON, AHC
PHONE 800-887-4307 EXT 137
FAX 859-881-5409
EMAIL: construction@locknet.com

TOILET ACCESSORIES DETAIL



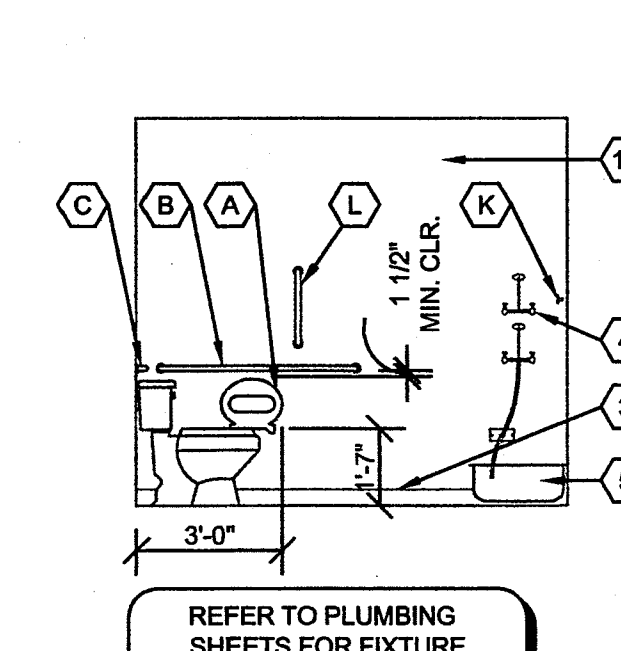
6 RESTROOM PLAN

A5 SCALE: 1/4" = 1'-0"



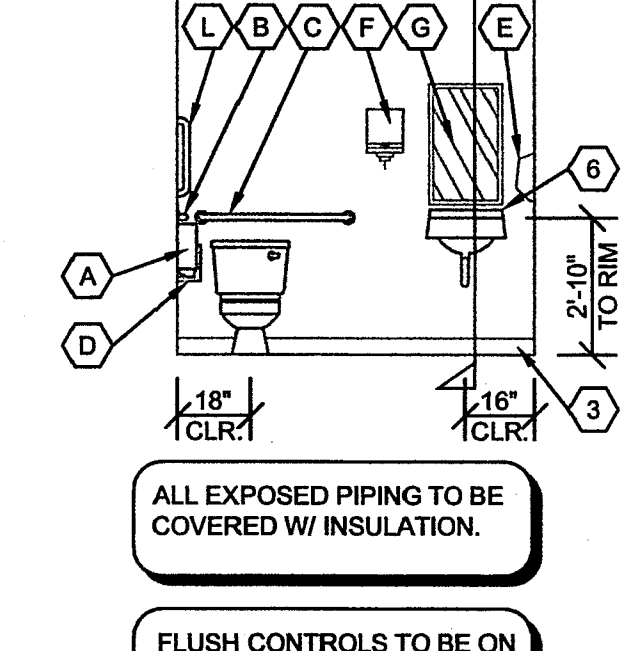
7 RESTROOM ELEVATION

A5 SCALE: 1/4" = 1'-0"



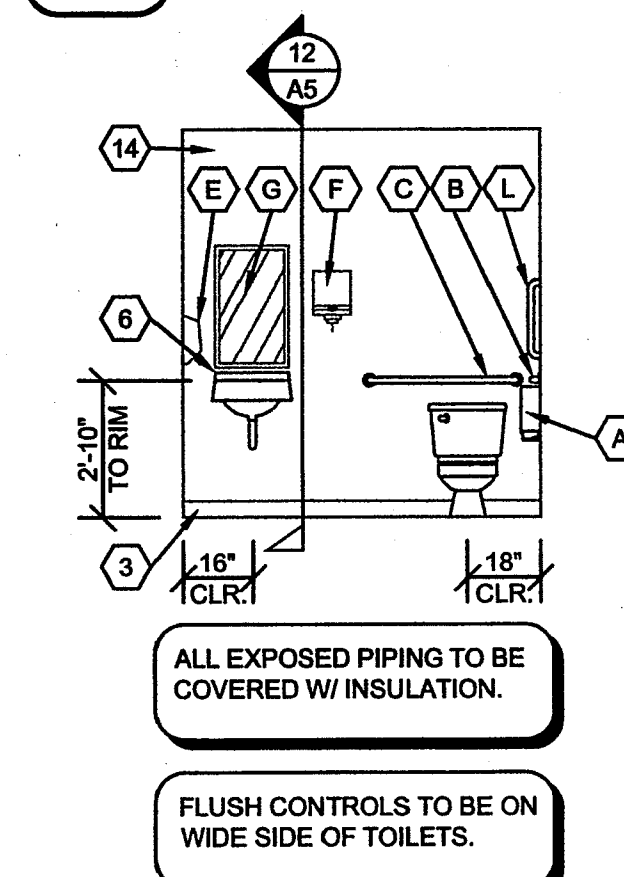
8 RESTROOM ELEVATION

A5 SCALE: 1/4" = 1'-0"



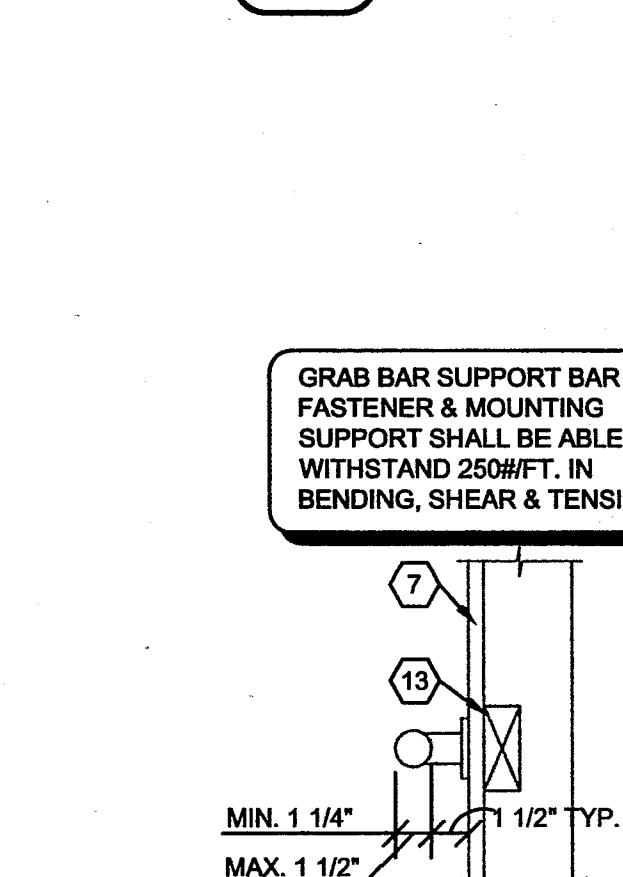
9 RESTROOM ELEVATION

A5 SCALE: 1/4" = 1'-0"



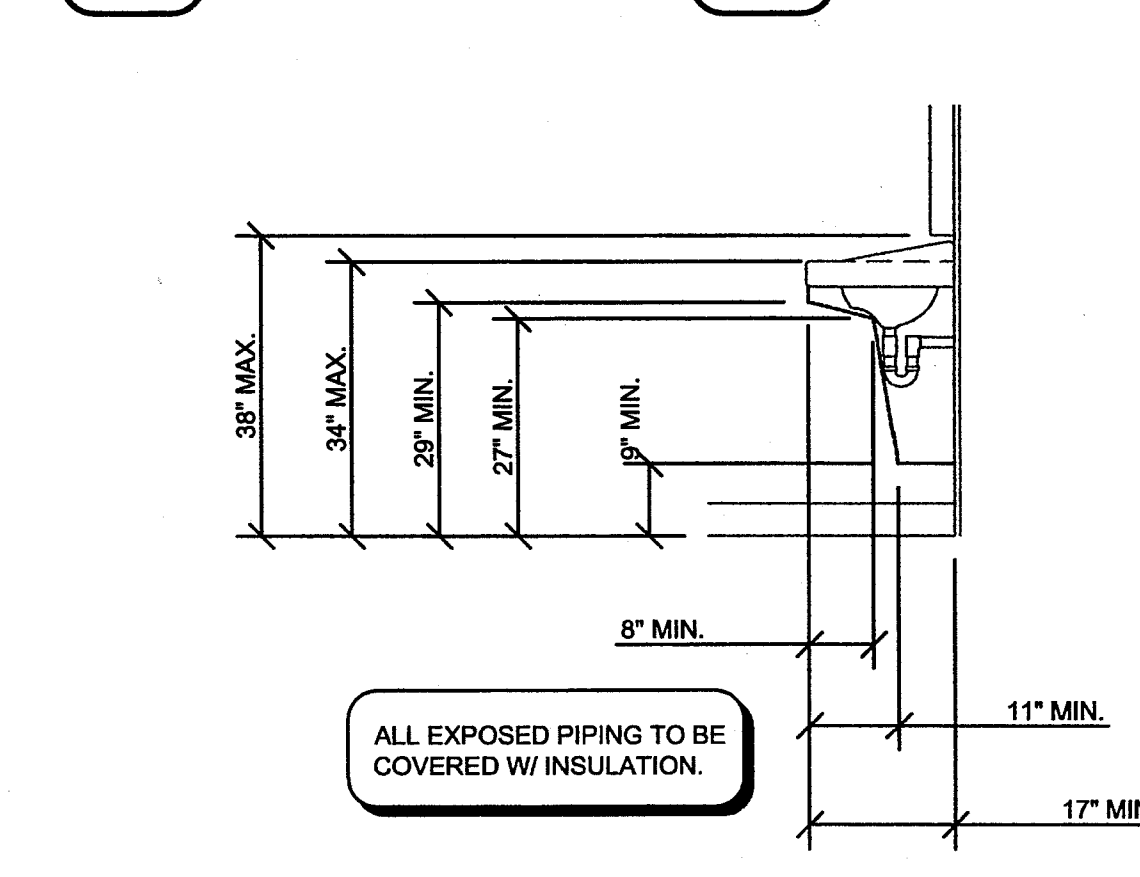
10 RESTROOM ELEVATION

A5 SCALE: 1/4" = 1'-0"



11 GRAB BAR DETL.

A5 SCALE: 1-1/2" = 1'-0"



12 LAVATORY CLEARANCES

A5 SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- REFER TO PLUMBING / ELECTRICAL PLANS FOR SYSTEMS AND TYPES.
- REFER TO INTERIOR / EXTERIOR FINISH SCHEDULES FOR MATERIAL FINISH TYPES AND LOCATIONS.

KEY NOTES:

- PAINT: (REFER TO INTERIOR FINISH SCHEDULE)
- DOOR: (REFER TO FINISH SCHEDULE)
- BASE: (REFER TO FINISH SCHEDULE)
- EYE WASH / STATION: PLACE @ 48" ABOVE FINISH FLOOR (REFER TO M.E.P. PLANS)
- MOP SINK: (REFER TO M.E.P. PLANS)
- WALL HUNG LAVATORY: (REFER TO M.E.P. PLANS)
- WALL CONSTRUCTION: (REFER TO FLOOR PLAN FOR TYPES)
- FIXTURE OUTLINE: (BY OWNER) N.I.C.
- DRINKING FOUNTAIN: (REFER TO M.E.P. PLANS)
- STOREFRONT: (REFER TO DOR SCHEDULE FOR TYPES)
- OPEN TO BEYOND
- CORNER 20" BOX OUT
- 2" SOLID FIRE TREATED WOOD BLOCKING.
- FRP PANEL: REFER TO FINISH PLAN.



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New O'Reilly Auto Parts Store:

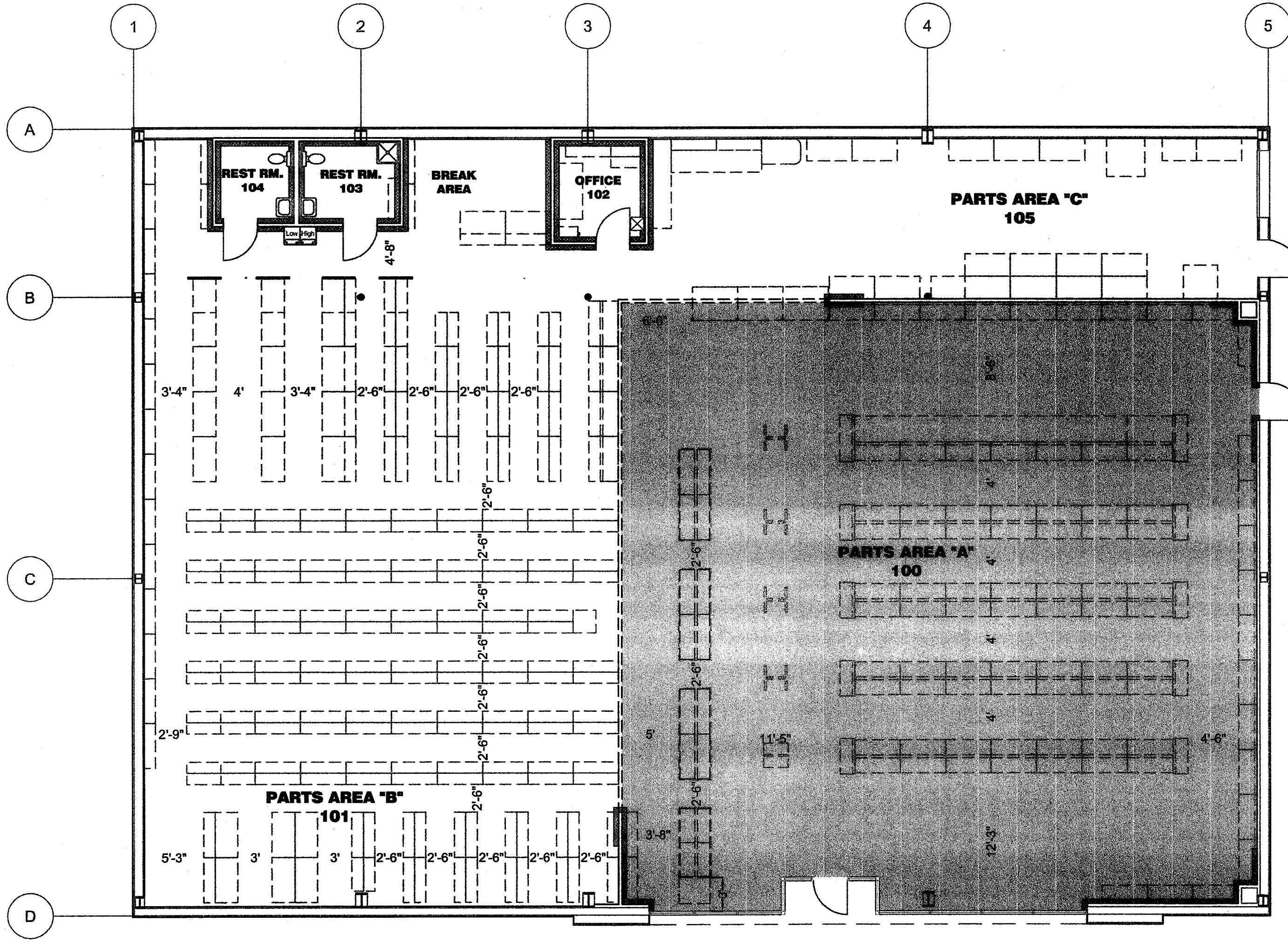
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A5 of 5



GENERAL NOTES:

- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. DIMENSIONS TO ROUGH FACE OF FRAMING OR TO FINISH EDGE UNLESS OTHERWISE NOTED.
- C. FIXTURES AND EQUIPMENT ARE FOR REFERENCE ONLY. (N.I.C.)
- D. MATERIAL SYMBOLS ARE FOR GRAPHIC PURPOSE ONLY AND MAY NOT REFLECT JOINT LAYOUT REQUIREMENTS. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.

FINISH SCHEDULE

MARK	ROOM	* FLOOR	* BASE	NORTH	EAST	SOUTH	WEST	CEILING	CEILING HEIGHT	NOTES
100	PARTS AREA (A)	F-1	B-1	W-3	W-3	W-3	W-3	C-1	11'-6"	2
101	PARTS AREA (B)	F-2	N/A	W-2/W-4	W-3	W-2	W-2	N/A	VARIES	1
102	OFFICE	F-2	B-1	W-3	W-3	W-3	W-3	C-2	8'-6"	1
103	REST ROOM	F-2	B-1	W-5	W-5	W-5	W-5	C-3	8'-6"	1
104	REST ROOM	F-2	B-1	W-5	W-5	W-5	W-5	C-3	8'-6"	1
105	PARTS AREA (C)	F-2	N/A	W-2	W-2	W-3	W-4	N/A	VARIES	1

(* REFER TO FINISH LEGEND FOR DETAILS)

W-1: NOT USED

W-2: WHITE OR LIGHT STONE COLORED METAL LINER PANEL PER BUILDING MANUFACTURER

W-3: PAINT (2) COATS ICI PAINTS (GLIDDEN) "LIGHT NAVAJO" : ULTRA HIDE INT LATEX FLAT
BASE 1210-0110N WHITE TINT
BLK 0 P 6
YOX 0 P 20
OXR 0 P 2
COLOR # 40YY 76/112

W-4: PAINT (2) COATS "O'REILLY GREEN" : GLIDDEN EXTERIOR SEMI GLOSS LATEX
BASE 2407-500
YOX 3P 42
TBL 4P 48
GRN 3P 14
WHT 2P
COLOR # CUSTOM

W-5: NUDO FIBER - LITE FRP LINER PANEL (OR APPROVED EQUAL).
.090 TEXTURED
MODEL NO. LP-F9 (WHITE)

C-1: 2'-0" X 4'-0" ACOUSTICAL LAY-IN: EXPOSED WHITE METAL GRID, INTERMEDIATE DUTY-DOUBLE WEB CONSTRUCTION (.013 MTL. THICKNESS) WITH LAY-PANELS OF ARMSTRONG #1729 "FINE FISSURED" MINABOARD

C-2: PAINT (2) COATS ICI PAINTS (GLIDDEN) "LIGHT NAVAJO" : ULTRA HIDE INT LATEX FLAT
BASE 1210-0110N WHITE TINT
BLK 0 P 6
YOX 0 P 20
OXR 0 P 2
COLOR # 40YY 76/112

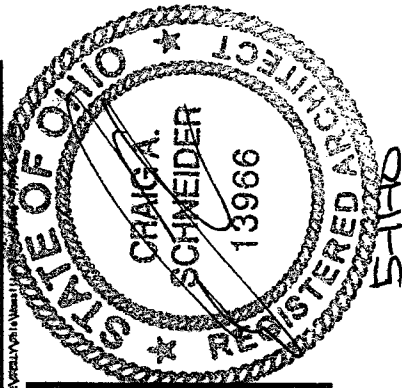
C-3: PAINT (2) COATS ICI PAINTS (GLIDDEN) " LIGHT NAVAJO " ULTRA HIDE INT LATEX SEMI GLOSS
BASE 1416-0110 WHITE TINT
BLK 0 P 5
YOX 0 P 20
FFR 0 P 4
COLOR # 40YY 76/112 NO SUBSTITUTE

NOTES:

1. EXTERIORS OF 102 - OFFICE, 103/104 - REST ROOMS, PAINTED WITH W-4 AND PROVIDE BASE B-1.
2. LOCATION OF BASE INDICATED ON DRAWING.

FINISH LEGEND

	F-1: POLISHED CONCRETE: (SEE SPECIFICATION)
	F-2: SEALED CONCRETE
	B-1: BASE:
	MFG: VPI SPECIFIED; EQUIVALENT BY JOHNSONITE, ROPPE, AFCCO. OR APPROVED EQUAL.
	COLOR: JET #01
	SIZE: 4" X 1/8" THICK COVE TOE.
	NOTE: PROVIDE PIECES OF 2' LENGTH BASE FOR INSTALLATION AT END OF FIXTURES AT ENTRANCE OF PARTS AREA (B).



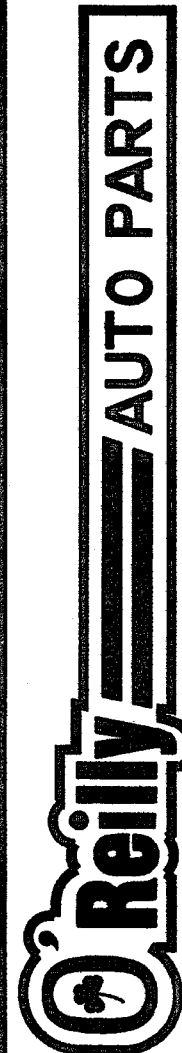
CRAIG A. SCHNEIDER, AIA
ARCHITECT

417.862.0558
Fax: 417.862.3265
e-mail: architect@esterlyschneider.com

1736 East Sunshine, Suite 417
Springfield, Missouri 65804

New O'Reilly Auto Parts Store

E. LINCOLN WAY
MASSILLON, OH

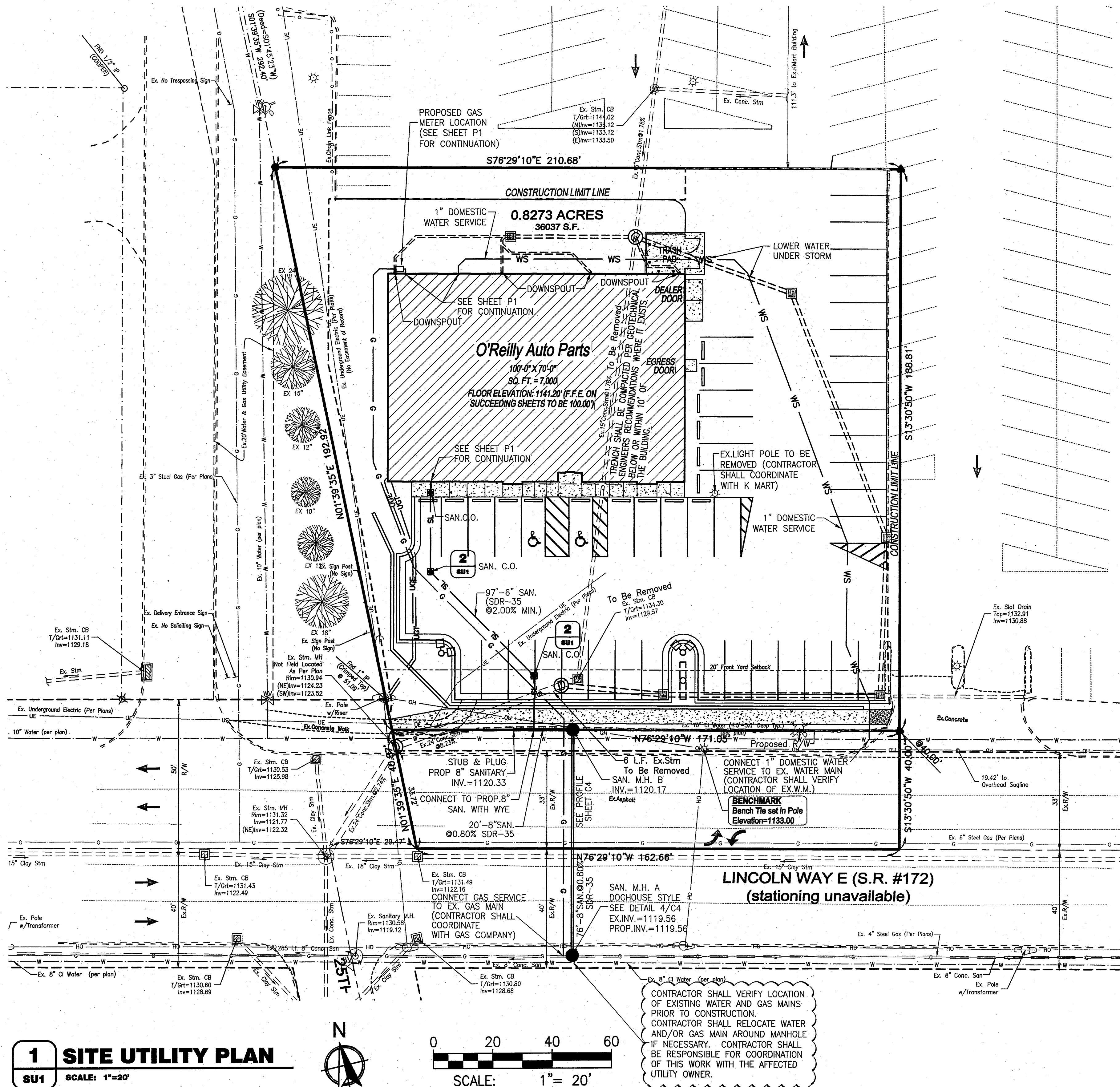


Corporate Office:
233 South Patterson, Springfield, Mo 65802
Phone: (417) 882-3333 FAX: (417) 874-7112

COMM # 2741

DATE: 5-7-10

REVISION
DATE:



GENERAL NOTES:

1. ALL ROADWORK AND STORM DRAINAGE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CITY SPECIFICATIONS AND STANDARD DRAWINGS. IF NO CITY STANDARD IS AVAILABLE, THEN THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION & MATERIALS SPECIFICATION (LATEST EDITION) AND STANDARD DRAWINGS SHALL BE USED.
2. ALL UTILITY TRENCH EXCAVATION SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH CITY SPECIFICATIONS. REFER TO DETAIL 12C3.
3. CURB RAMPS TO BE LOCATED AS INDICATED ON PLANS AND CONSTRUCTED IN ACCORDANCE WITH CITY SPECIFICATIONS.
4. ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE INFORMATION. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764, AND ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF OUPS.
5. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH THE LIFE OF THE CONTRACT. THESE MAY INVOLVE THE USE OF HAY AND STRAW BALES, DIKES, SEDIMENT PITS, MULCHES, FILTER FABRICS AND OTHER DEVICES AND METHODS. PARTICULAR CARE SHALL BE TAKEN TO AVOID EROSION AND SEDIMENTATION ON EXISTING PAVED AND GRAVELLED AREAS. SITE CONTRACTOR SHALL PROPERLY REMOVE DEBRIS AND SEDIMENT FROM BAYS AS PROJECT PROGRESSES.
6. STORM AND SANITARY BUILDING SEWERS AND TAPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT BUILDING CODES AND CITY OF MASSILLON ENGINEERS RULES AND REGULATIONS.
7. CONTRACTOR SHALL STORE CONSTRUCTION MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO PREVENT MATERIALS FROM BECOMING DETERIORATED FROM SUN EXPOSURE.
8. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH CITY OF MASSILLON ENGINEER AND AQUA OHIO REQUIREMENTS AND PAY ALL INSPECTION FEES.

SAWCUT NOTES:

- WHERE NEW UTILITY SERVICES ARE ROUTED UNDER EXISTING PAVED AREAS, ALL EXISTING PAVING SHALL BE REMOVED IN THE FOLLOWING STEPS:
- 1) SAWCUTTING PAVING.
 - 2) REMOVAL AND TRENCHING.
 - 3) INSTALLATION OF UTILITY.
 - 4) BACKFILL AND COMPACTION PER LOCAL STANDARDS.
 - 5) INSTALLATION OF NEW PAVING THAT MATCHES THE EXISTING SURROUNDING PAVING IN BOTH MATERIAL AND ELEVATION. CONTRACTOR SHALL COORDINATE, OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES TO PERFORM THIS WORK AND SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL WHILE PERFORMING SAWCUTTING OPERATIONS AS NECESSARY.

GAS SERVICE NOTES:

1. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH DOMINION EAST GAS SERVICE LINE INSTALLATION STANDARDS.

CONTRACTOR CAUTION!! VERIFY SEWER LINE ELEVATION

1. BEFORE STARTING ANY BUILDING PAD GRADING AND PLUMBING WORK THE CONTRACTOR SHALL FIELD VERIFY LOCATION, MATERIAL, CONDITION, ACCESSIBILITY (INCLUDING STATE HIGHWAY OR OTHER RIGHTS-OF-WAY) AND WORKABLE FLOW LINE ELEVATION OF THE EXISTING SANITARY SEWER SERVICE OR MAIN.
2. IF A WORKABLE FLOW LINE HAS NOT BEEN ESTABLISHED AT THE TIME OF FINAL SANITARY SEWER SERVICE CONNECTION, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH THE INSTALLATION OF A NEW GRINDER PUMP SYSTEM TO MEET OWNER AND LOCAL REQUIREMENTS.

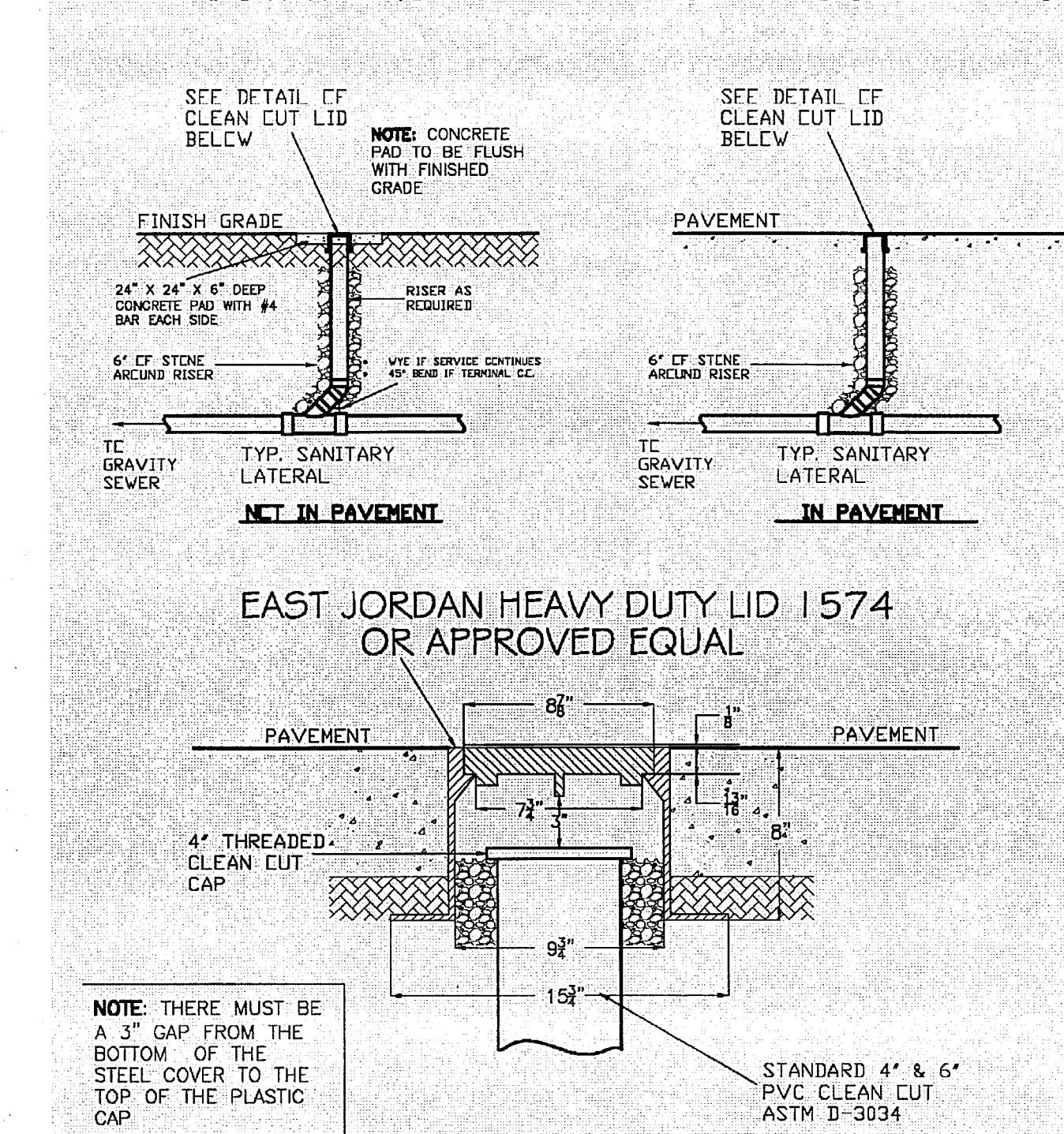
EXISTING CONDITIONS NOTES:

1. THE CONTRACTOR IS OBLIGATED TO INSPECT FOR EXISTING CONDITIONS/INSTALLATIONS AND AVAILABLE INFORMATION PRIOR TO SUBMITTING A BID, REFER TO SPECIFICATIONS ALSO.
2. EXISTING INSTALLATIONS (SUCH AS WATER MAINS, GAS MAINS, SEWER MAINS, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ON LY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. ALL ABOVE GROUND FEATURES HAVE BEEN FIELD LOCATED. ALL BURIED UTILITIES HAVE BEEN SHOWN BASED UPON FIELD EVIDENCE, PROJECT UTILITY PLANS, AND/OR INFORMATION OBTAINED FROM UTILITY COMPANIES. THE UTILITIES SHOWN MAY OR MAY NOT BE SHOWN IN THEIR ACTUAL LOCATION. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT PROPERTY WHICH ARE NOT SHOWN ON THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION, AND ALL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.
4. ANY DELAY, ADDITIONAL WORK, FEES OR EXTRA COST TO THE CONTRACTOR CAUSED BY OR RESULTING FROM DAMAGE TO OR MODIFICATION OF EXISTING INSTALLATIONS BY THE CONTRACTOR OR AFFECTED UTILITY COMPANY SHALL NOT CONSTITUTE A CLAIM FOR EXTRA WORK, ADDITIONAL PAYMENT OR DAMAGES.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS/INSTALLATIONS.

WATER SERVICE NOTES:

1. ALL WATER WORK AND WATER MAIN MATERIALS INCLUDING PIPE, FITTINGS, VALVES, HYDRANTS, AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF AQUA OHIO.
2. ALL WATER FACILITIES ON THIS PROJECT ARE TO BE PRIVATE.
3. WATER SERVICE TO BE TYPE K COPPER AND SHALL HAVE AT LEAST 4.5' COVER.
4. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE CONNECTION TO THE EXISTING WATER MAIN AND FOR INSTALLING THE CURB STOP AND BOX.

- COMMERCIAL - TYP. CLEAN OUT DETAIL



COMMERCIAL SANITARY CLEAN OUT DETAIL

2
SU1 SCALE: N.T.S.

UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
Call 1-800-362-2764
OHIO UTILITY
PROTECTION SERVICE
NON MEMBERS
MUST BE CALLED DIRECTLY

**bayer
becker**
www.bayerbecker.com
6900 Tylersville Road, Suite A
Mason, OH 45040 • 513.336.6600

PROJECT BENCHMARK:

BENCH THE SET IN POLE
ELEVATION=1133.00

LOCATION OF ALL EXISTING UTILITIES TO BE
DETERMINED IN THE FIELD PRIOR TO CONSTRUCTION.

UTILITY CONTACTS

GAS: Dominion East Gas
320 Spitznagel Drive
Suite 320
Akron, OH, 44333
Ask Mike: (330) 864-2468

SANITARY, & STORM:
The City of Massillon
100 Big Indian Dr. SE
Massillon, OH 44644
Keith Bledsoe: (330) 833-3304

WATER: Aqua Ohio
670 3rd St. NW
Massillon Ohio 44647
Don Snyder: (330) 832-5784x205

ELECTRIC: Ohio Edison
1910 W. Market St., Bldg 1
Akron, OH 44313
Michael Janson: (330) 436-4044

SANITARY SEWER NOTES:

1. ALL SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF MASSILLON SANITARY ENGINEERING DEPARTMENT STANDARDS.
2. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION, EXISTING SERVICES, TEMPORARY SERVICE AND THE SITE.
4. THE CONTRACTOR IS TO CONFIRM THE INVERT ELEVATIONS OF ALL EXISTING SEWERS AFFECTED BY HIS WORK PRIOR TO COMMENCEMENT OF WORK AND REPORT ALL FINDINGS TO THE ENGINEER.
5. SANITARY SEWERS ARE TO BE SEPARATED FROM EXISTING AND PROPOSED POTABLE WATER LINES BY A MINIMUM HORIZONTAL DISTANCE OF TEN FEET (10'), OUTSIDE OF PIPE TO OUTSIDE OF PIPE. IN INSTANCES WHERE WATER AND SEWER LINE MUST CROSS, THE WATER LINE IS TO MAINTAIN A VERTICAL DISTANCE OF EIGHTEEN INCHES (18") ABOVE THE SANITARY SEWER, OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
6. SEE ADDITIONAL CITY OF MASSILLON SANITARY NOTES ON SHEET CA.

THE CONTRACTOR SHALL CONDUCT A
PRE-CONSTRUCTION MEETING WITH THE CITY OF
MASSILLON ENGINEERING DEPARTMENT PRIOR TO
BEGINNING CONSTRUCTION

SYMBOLS LEGEND

NOTE: REFER TO SURVEY (SV1) FOR EXISTING CONDITION SYMBOLS
LEGEND.

- Set Capped 5/8" Iron Pin
- Set Mag Nail
- Found Iron Pipe
- Found Iron Pin
- ⊗ Existing Fire Hydrant
- ⊗ Existing Water Valve
- ⊗ Existing Water Meter
- ⊗ Existing Gas Valve
- ⊗ Existing Gas Box
- ⊗ Existing Steel Post
- ⊗ Existing Utility Pole
- ⊗ Existing Anchor
- ⊗ Existing Heating & Air
- ⊗ Existing Electric Meter
- ⊗ Existing Electric Box
- ⊗ Existing Signal Pole
- ⊗ Existing Storm Catch Basin
- ⊗ Existing Telephone Manhole
- ⊗ Existing Water Line
- ⊗ Existing Sanitary Line
- ⊗ Existing Gas Line
- ⊗ Existing Overhead Utilities
- ⊗ Existing Fiber Optic Line
- ⊗ Existing Property Line
- ⊗ Project Boundary
- ⊗ Existing Traffic Flow

PROPOSED SPOT ELEVATIONS
EXISTING SPOT ELEVATIONS

LIST
GRADE
SIDEWALK
TOP OF WALL
TOP OF CURB
TOP OF PAVEMENT
CONCRETE
WATER SERVICE
SANITARY LATERAL
EXISTING GRADE LINES
NEW LIGHT POLE LOCATION
NEW BUILDING
NEW SIGN LOCATION
TEMPORARY EROSION CONTROL FENCE
BLOCK WALL
PROPOSED SWALE

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1736 East Sunshine,
Springfield, Missouri 65804
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417.862.3265
e-mail: architect@cschneider.com

O'Reilly AUTO PARTS
E. LINCOLN WAY
MASSILLON, OH

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Corporate Office:
233 South Patterson, Springfield, Mo 65802
Phone: (417) 862-3333 Fax: (417) 874-7112

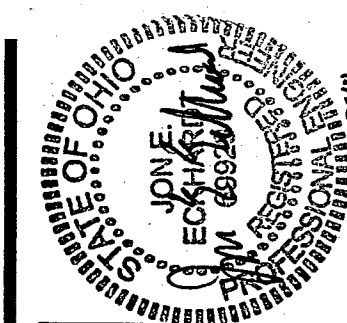
COMM # 2741

DATE: 5-7-10

REVISION
DATE: 6-21-10

7-8-10

SU1 of 1



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1736 East Sunshine, Suite 417
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New O'Reilly Auto Parts Store

E. LINCOLN WAY
MASSILLON, OH



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233 South Patterson, Springfield, Mo 65802
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SL1 of 1

NEW UTILITIES (SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)	
WS	WATER SERVICE
SAN	SANITARY SEWER
UGE	U/G ELECTRIC
UGT	U/G PHONE
T	U/G PHONE (BY PHONE CO.)
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD PHONE
FO	FIBER OPTIC CABLE
GS	GAS SERVICE (BY GAS CO.)
SAW CUT	SAW CUT
BORE	BORE

P.O.C. = POINT OF CONNECTION BETWEEN SITE PIPING (SPEC 33 00 00) AND BUILDING PIPING (SPEC 22 00 00, 21 13 13). AS NECESSARY - SPEC 22 00 00 DENOTES LANDSCAPE IRRIGATION.

NOTES:	
BRANCH CIRCUIT & FEEDER SCHEDULE:	
①	2 - #8 AND 1 - #10 GROUND IN 0.75" CONDUIT.
②	3 - #10 AND 1 - #10 GROUND IN 1" CONDUIT.
GENERAL NOTES:	
1.	BRANCH CIRCUIT CONDUCTOR SIZES ARE INCREASED, TO ALLOW FOR VOLTAGE DROP.
2.	CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES, USING UTILITY COMPANY CONTACT INFORMATION GIVEN. COORDINATE FOR ALL UTILITY WORK SHOWN. GIVE UTILITY COMPANIES NOTICE OF CONSTRUCTION START DATE AND ESTIMATED COMPLETION DATE.

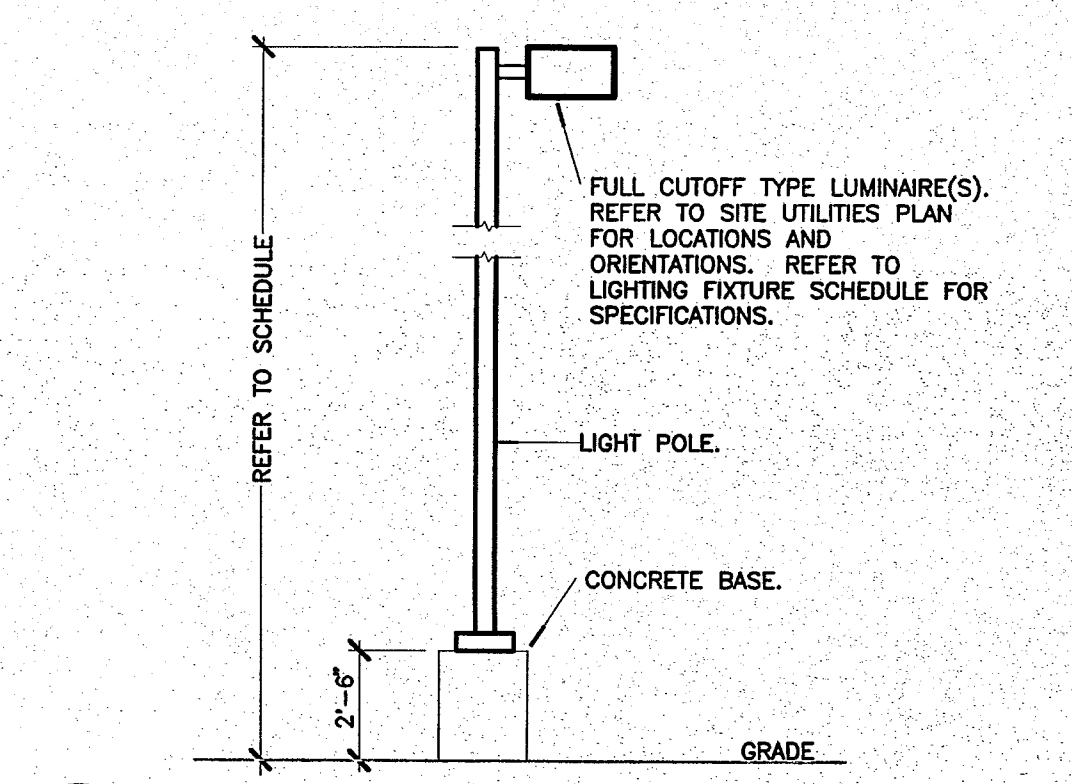
UTILITY COMPANY CONTACTS	
ELECTRIC:	OHIO EDISON, KEVIN MCCLUSKY (330) 830-7085
TELEPHONE:	AT&T, SHEILA BALLYWAY (330) 384-2932

TELEPHONE SERVICE REQUIREMENTS:	
SPECIAL NOTE: NEW SERVICE TO BUILDING SHALL BE AN UNDERGROUND SERVICE. CONTRACTOR SHALL SCHEDULE INSTALLATION OF U/G TELEPHONE SERVICE CONDUIT WITH OWNER. CONTACT (417)874-7288.	
SCHEDULE 40 PVC CONDUIT WITH RIGID GALVANIZED STEEL LONG SWEEP BENDS @ 18"-24" DEPTH FOR PHONE SERVICE. PROVIDE MINIMUM 1/4" POLYPROPYLENE PULL LINE. PLACE CONDUIT A MINIMUM OF 12" FROM U/G ELECTRICAL CONDUITS IN SAME TRENCH.	
CAP CONDUIT AT PROPERTY LINE BELOW FINISHED GRADE AND INSTALL CABLE MARKER FOR PHONE COMPANY, IF NECESSARY. OTHERWISE, CONTINUE PHONE SERVICE CONDUIT TO A POLE AND INSTALL RIGID GALVANIZED STEEL CONDUIT TO A MINIMUM 10' ABOVE FINISH GRADE, ATTACHED TO POLE.	
CONTRACTOR SHALL COORDINATE INSTALLATION AND VERIFY REQUIREMENTS WITH PHONE COMPANY, PLUS INCLUDE ALL FEES (IF ANY) BY PHONE COMPANY FOR INSTALLATION OF 25 PAIR CABLE. IN MENTIONED CONDUIT, TO CONTRACTOR INSTALLED 4"x8"x3/4" BACKBOARD WITHIN BUILDING. CONTRACTOR SHALL PROVIDE #6 AWG CU. GROUND TO TELEPHONE EQUIPMENT LOCATION, FROM ELECTRICAL GROUNDING ELECTRODE SYSTEM. FINAL CONNECTIONS AND INSIDE PHONE WIRING BY OWNER.	
ONLY IF UNDERGROUND PHONE SERVICE IS NOT AVAILABLE, THEN MAY CONTRACTOR INSTALL APPROPRIATE OVERHEAD PHONE SERVICE RISE, WEATHERHEAD, ETC. COORDINATE WITH OWNER AND PHONE CO.	

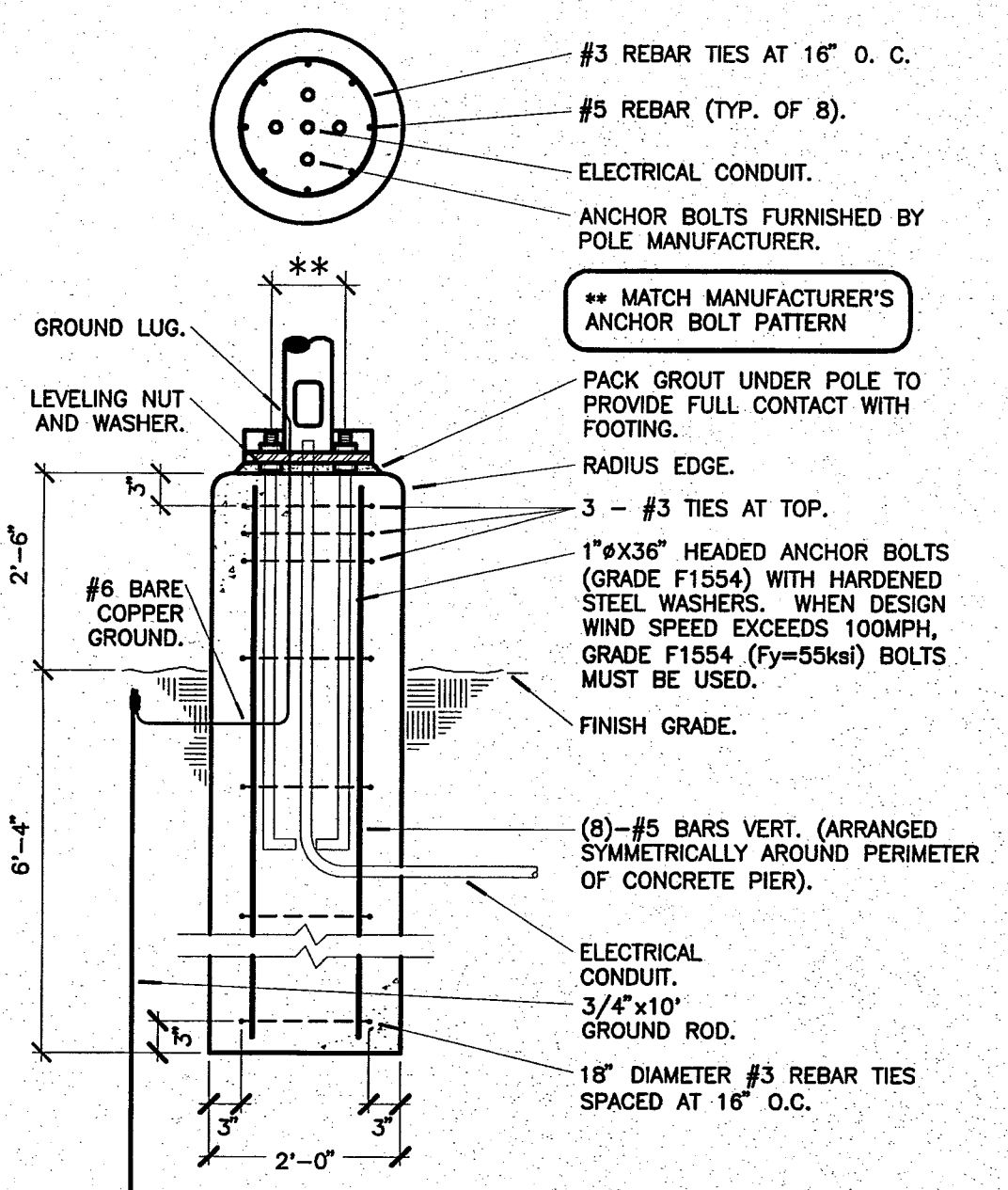
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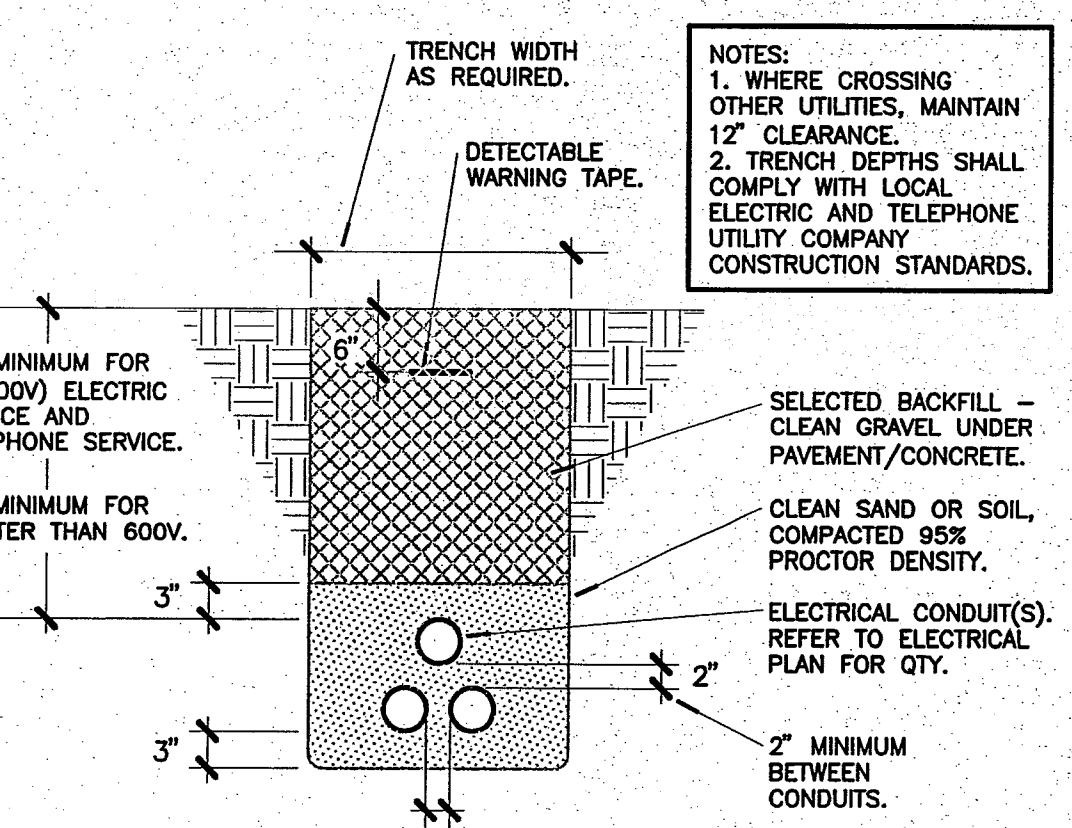
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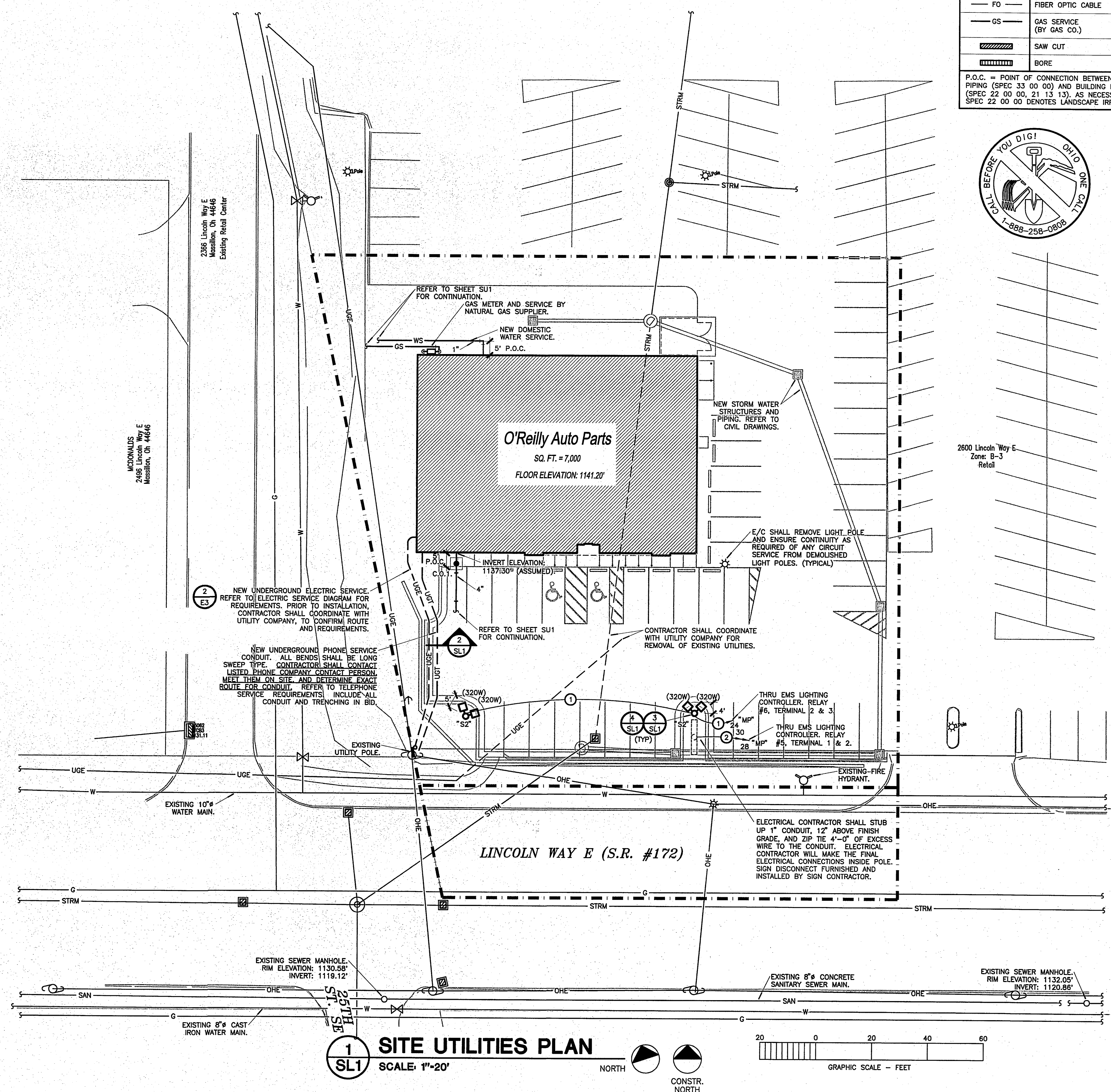
4 PARKING LOT LIGHTING
SL1 NO SCALE



3 CONCRETE POLE BASE DETAIL
SL1 NO SCALE



2 UNDERGROUND ELECTRICAL CONDUITS
SL1 NO SCALE



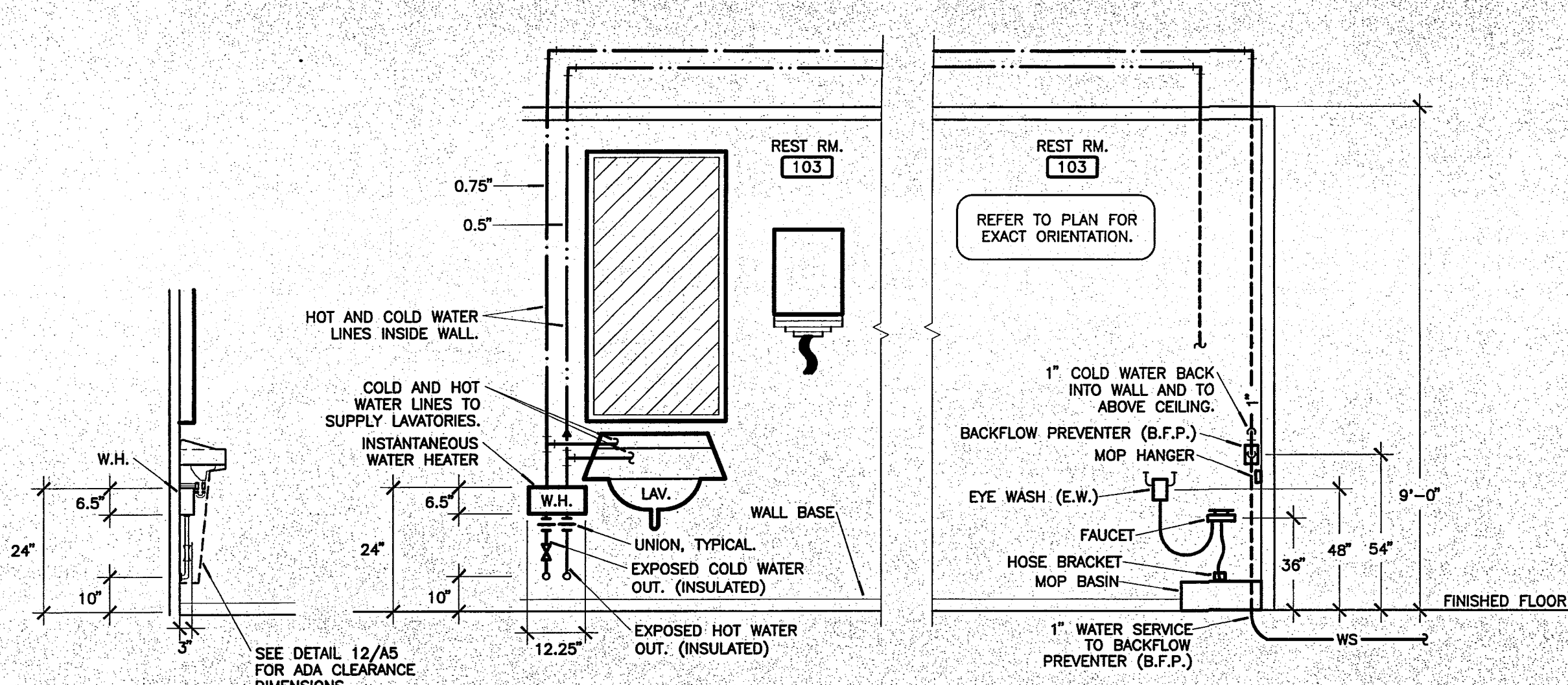
1 SITE UTILITIES PLAN
SL1 SCALE: 1"=20'
NORTH
CONSTR. NORTH

Printed 13 May 2010 at 11:20 am
HA:\09\0384\0384SL1 13 May 2010 - 11:15 am

Printed 13 May 2010 at 11:16 am

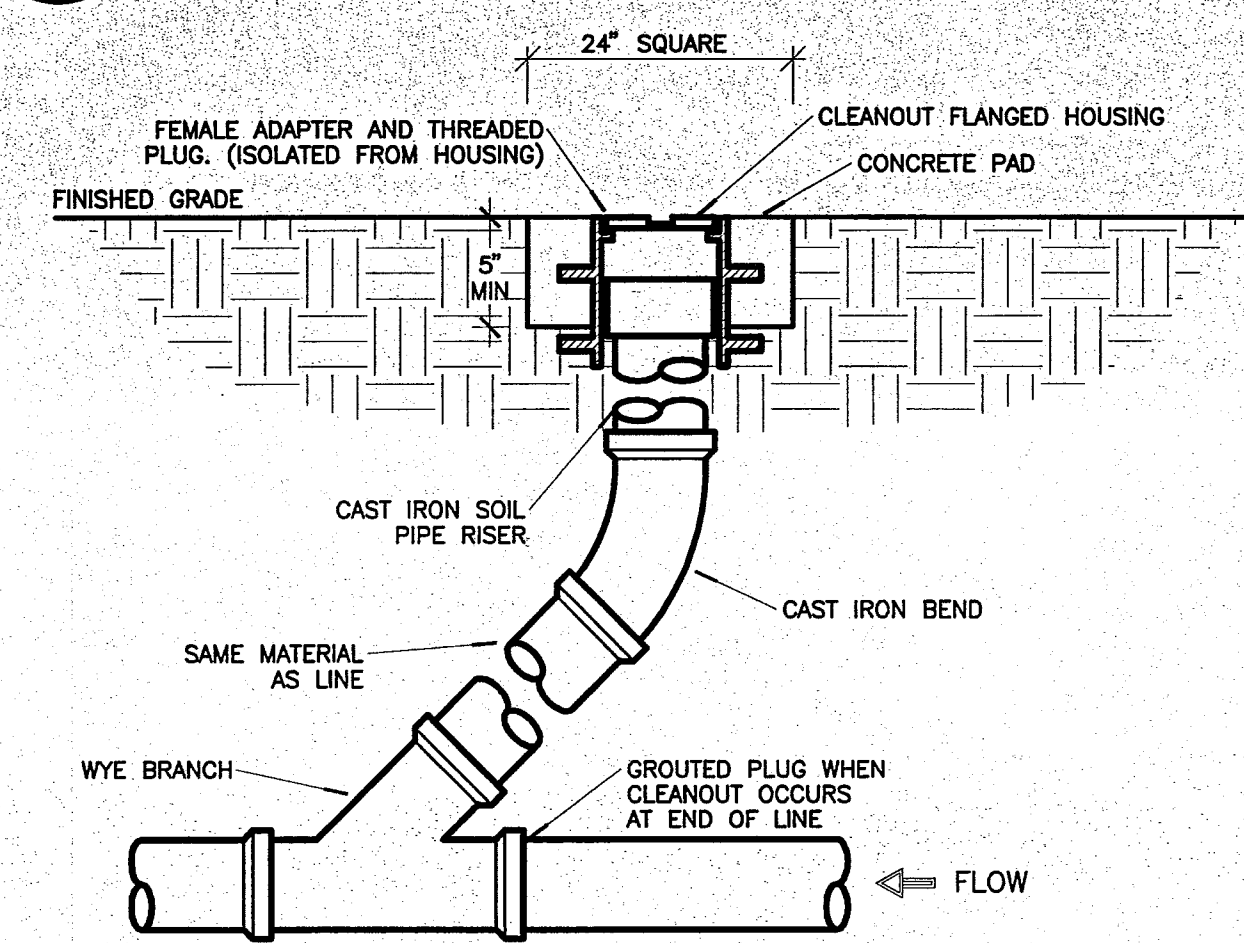
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PLUMBING FIXTURE SCHEDULE SPEC 22 00 00 & 22 40 00										
MARK	FIXTURE	BRANCH SIZES (MIN.)				MANUFACTURER	CATALOG NUMBER	TRIM	NOTES	APPROVED MANUFACTURERS
		CW	HW	WASTE	VENT					
H.W.C.	HANDICAPPED WATER CLOSET	1/2"	----	4"	2"	AMERICAN STANDARD	2377-100	CADET RIGHT HEIGHT 18-1/2" 1.6 GPF CHURCH 9500C WHITE OPEN FRONT SEAT COMPLETE WITH BOLT CAPS	1,3	ZURN ELJER
LAV.	HANDICAPPED LAVATORY (WALL MOUNTED)	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD	0355-012 4" CENTERS	ZURN #28737 FLAT GRID SINK STRAINER DELTA #501-DST CLASSIC CENTERSET FAUCET JAY R. SMITH #0700-M31 FLOOR MOUNTED LAVATORY SUPPORTS	1,2	ZURN ELJER WADE
D.F.	BARRIER-FREE 2 STATION HI-LO DRINKING FOUNTAIN	1/2"	----	2"	1 1/2"	ELKAY	EZTLBC FRONT CONTROL ONLY	ACCESSORY APRON #LKAPREZL (UPPER UNIT) (ADA COMPLIANT WHEN MOUNTED ON EXPOSED WALL) UPPER RIM HEIGHT 40" A.F.F. (VERIFY)	1,2,4	HALSEY TAYLOR
F.D.	FLOOR DRAIN	----	----	2"	1 1/2"	J.R. SMITH	2005Y-A5(PB) CAST IRON	COMBINATION WASTE VENT	5	WADE, ZURN
C.O.	CLEANOUT (INTERIOR)	----	----	SEE PLAN	----	J.R. SMITH	4100	WITH CARPET CLAMPING RING WHERE REQUIRED	SAME SIZE AS LINE	WADE, ZURN
C.O.I	CLEANOUT (EXTERIOR)	----	----	SEE PLAN	----	J.R. SMITH	4250	----	SAME SIZE AS LINE SEE <div><div>4</div><div>P1</div></div>	WADE, ZURN
W.C.O.	WALL CLEANOUT	----	----	SEE PLAN	----	J.R. SMITH	4350	----	----	WADE, ZURN
W.H.A.	WATER HAMMER ARRESTER	----	----	----	----	SIoux CHIEF	652-A	----	----	J.R. SMITH, WADE, ZURN
H.B.	HOSE BIBB	0.75"	----	----	----	WOODFORD	MODEL 65	WITH WALL CLAMP AND VACUUM BREAKER; OPERATING ROD ASSEMBLY MUST BE ORDERED PER WALL WIDTH.	----	----
M.B./E.W.	MOP BASIN/ EYE WASH	1/2"	1/2"	3"	1 1/2"	FIAT SPEAKMAN	FIAT MSB-2424	FIAT #830-AA HOSE & BRACKET & #889-CC-24" MOP HANGER, SPEAKMAN SC-5811-RCP FAUCET & SEF-9000 EYEWASH	----	HAWS, ZURN
B.F.P.	BACKFLOW PREVENTER	1"	----	----	----	WATTS	007M10T-S	DOUBLE CHECK VALVE TYPE	----	FEBCO ZURN
NOTES:										
1. COORDINATE ROUGH-IN OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS.										
2. SINKS AND LAVATORIES FOR HANDICAPPED ACCESS SHALL BE INSTALLED WITH OFFSET TAILPIECES. ALL SINK AND LAVATORY DRAIN AND WATER LINES SHALL BE INSULATED WITH PROTECTIVE DEVICES EQUAL TO "McGUIRE" #PW 2150 WC, WHITE MOLDED CLOSED CELL VINYL, OR "TRUEBRO" #103W, WHITE MOLDED VINYL.										
3. FOR HANDICAPPED ACCESSIBLE WATER CLOSET, FURNISH AND INSTALL WITH THE FLUSH HANDLE ON THE WIDE SIDE OF THE RESTROOM.										
4. MOUNT UPPER RIM AT 40" A.F.F. (VERIFY)										
5. COMBINATION WASTE AND VENT										
OWNER SUPPLIED, CONTRACTOR INSTALLED										
W.H.	WATER HEATER (INSTANT)	0.5"	0.5"	----	----	BOSCH POWERSTAR	AE9.5	DUAL VOLTAGE = 240 OR 208 AMPS = 40 9.5 KW MIN. WIRE = #8 WIRE	64" RISE @ 1 GPM FLOW RATE. SEE 1/P1	NO SUBSTITUTIONS
NOTES:										
1. WATER HEATER SHALL BE DIRECT ORDERED AND/OR RELEASED FROM THE LISTED ELECTRICAL EQUIPMENT DISTRIBUTOR:										
GRAYBAR ELECTRIC COMPANY, INC. 11885 LACKLAND ROAD ST. LOUIS, MO 63146						ATTN: SANDI YOUNG - DIRECT LINE: 1 (314) 573-2081 OR SAM CAST - DIRECT LINE: 1 (314) 573-2082 sandi.young@graybar.com or samuel.cast@graybar.com TOLL-FREE = 1-800-289-5254 TOLL FREE FAX = 1-888-280-0128				



RESTROOM #103 ELEVATION

5 P1 NO SCALE



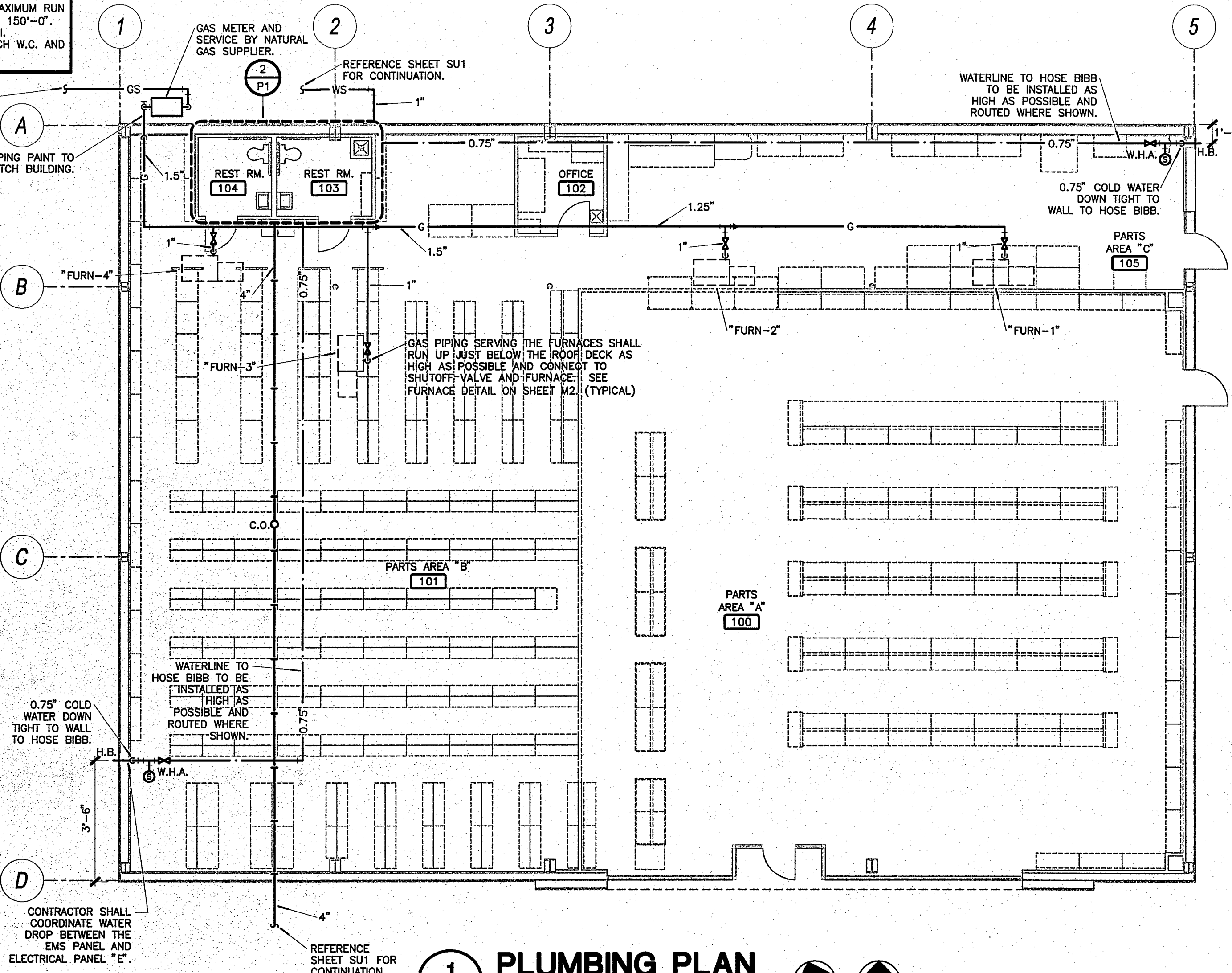
FINISH GRADE CLEANOUT DETAIL

4 P1 NO SCALE

GAS LOAD	
(PIPE SIZING BASED ON 2006 INTERNATIONAL FUEL GAS CODE, TABLE 402.4 (2))	
ITEM	MBH/INPUT
FURNACE (FURN-1)	100
FURNACE (FURN-2)	100
FURNACE (FURN-3)	100
FURNACE (FURN-4)	100
TOTAL CONNECTED LOAD	400
GAS PIPING SIZED USING LONGEST MAXIMUM RUN OF EQUIVALENT LENGTH OF PIPING = 150'-0". INLET PRESSURE = LESS THAN 2 PSIG. MAXIMUM PRESSURE DROP = 0.5 INCH W.C. AND 0.6 SPECIFIC GRAVITY.	

WASTE & VENT PIPING RISER DIAGRAM

3 P1 NO SCALE



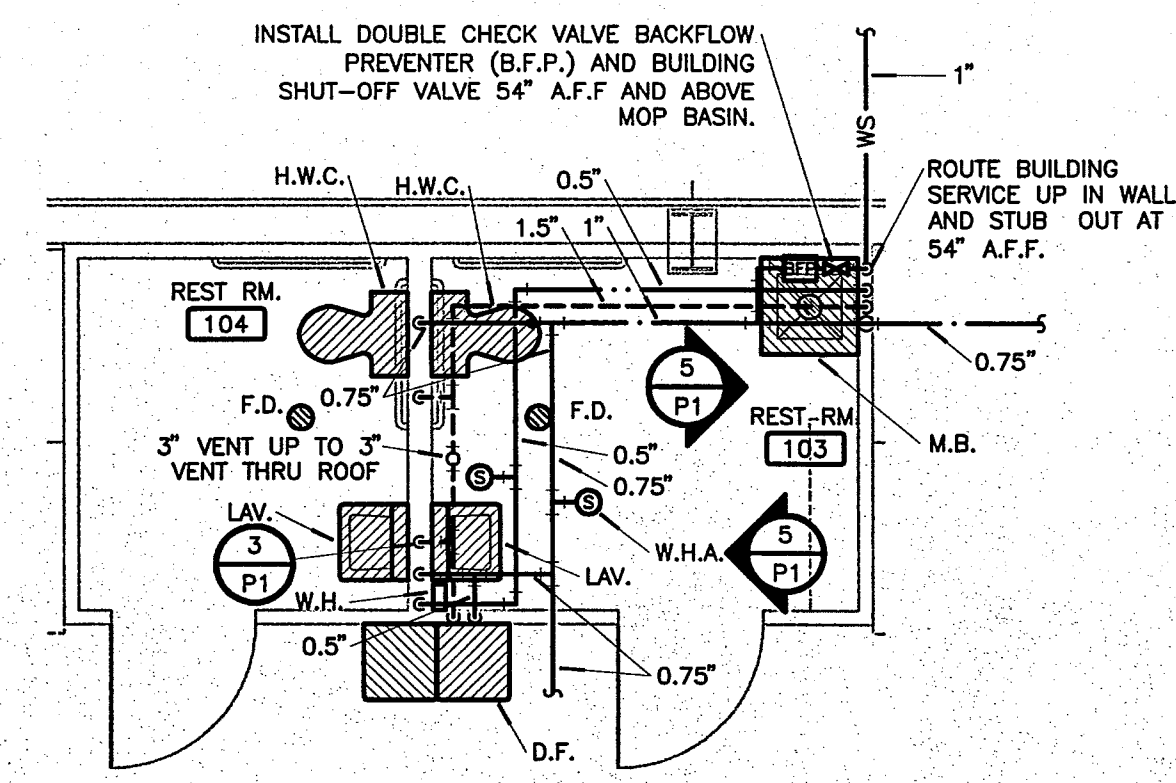
1 PLUMBING PLAN

P1 SCALE: 1/8"=1'-0"

2 PLUMBING PLAN

P1 SCALE: 1/4"=1'-0"

NOTE: ROUTE 1" COLD WATER PIPING TO AND FROM BACK FLOW PREVENTER (B.F.P.) EXPOSED ON INSIDE OF RESTROOM WALL. SECURELY FASTEN B.F.P. & EXPOSED PIPING TO WALL.



NOTES:

GENERAL PLUMBING NOTES:

- ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CODES NOTED ON THE COVER SHEET.
- DRAWING IS DIAGRAMMATIC AND IS NOT TO BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
- PIPING MATERIAL SHALL BE AS FOLLOWS:
UNDERGROUND WATER SERVICE - (SPEC 22 00 00)
ABOVE GROUND HOT AND COLD WATER PIPING - (SPEC 22 00 00)
DRAIN, WASTE AND VENT PIPING - (SPEC 22 00 00)
AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION. (SPEC 22 00 00)
- VALVES ON WATER LINES SHALL BE BRONZE BALL VALVES. DO NOT SUBSTITUTE GATE OR GLOBE VALVES. VALVES SHALL BE THE SAME SIZE AS THEIR INLET PIPING. (SPEC 22 05 00)
- ALL PLUMBING FIXTURES ARE TO BE FURNISHED COMPLETE WITH NECESSARY STOPS, TRAPS, TAILPIECES, TRIM, ETC. (SPEC 22 40 00)
- THE CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND SUBCONTRACTORS IN HIS ROUGH-IN AND INSTALLATION. COOPERATION DOES NOT MEAN "I WAS HERE FIRST".
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
- DO NOT INSTALL CAPPED AIR CHAMBERS AT FIXTURES. INSTALL WATER HAMMER ARRESTERS AS CALLED FOR ON PLAN. ARRESTERS ARE TO BE RATED FOR INSTALLATION IN CONCEALED LOCATIONS. (SPEC 22 00 00)
- ALL HOT AND COLD WATER SUPPLY PIPING CONNECTION TO FIXTURES SHALL BE 1/2" UNLESS NOTED OTHERWISE.
- PLUMBING PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS. PROVIDE REQUIRED CLEARANCES PER "N.E.C." COORDINATE ELECTRICAL PANEL LOCATIONS WITH THE ELECTRICAL CONTRACTOR.
- INSTALL PIPE INSULATION ON ALL DOMESTIC WATER LINES ABOVE FINISH FLOOR (SPEC 22 07 19).
- CONTRACTOR SHALL COORDINATE WITH ALL STATE AND LOCAL BUILDING REGULATION AGENCIES AND UTILITY COMPANY(S) IN THE PROCUREMENT OF AND PAYMENT OF ALL PERMITS, LICENSES, FEES AND CHARGES REQUIRED FOR THE PERFORMANCE OF THE WORK.
- PROVIDE CHROME ESCUTCHEON COVERPLATES AT ALL PIPE PENETRATIONS OF FINISHED FLOOR SURFACES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ROUTE ALL WATER PIPING AROUND SPACES WITH TEMPERATURES BELOW FREEZING (I.E. ATTICS, CHASES, EXTERIOR WALLS, ETC.). IF FREEZING OF ANY WATER PIPING OCCURS IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO REPAIR THE PIPING THROUGH A NON-FREEZING SPACE TO THE FIXTURE/APPLIANCE ORIGINALLY SERVED BY THE FROZEN PIPING.
- ALL CAULKING ON BUILDING PENETRATIONS SHALL BE A 1-COMPONENT NON-SAG URETHANE SEALANT. ANY CONTRACTOR WHO USED SILICONE OR ANY OTHER CAULKING WILL BE REQUIRED TO REMOVE AND REPLACE WITH A SPECIFIED SEALANT (SPEC 07901).
- PLUMBING SUB-CONTRACTOR SHALL INFORM THE ELECTRICAL SUB-CONTRACTOR OF THE VOLTAGE AND POWER REQUIREMENTS OF ALL PLUMBING EQUIPMENT TO BE INSTALLED.
- ALL GAS PIPING INSTALLATIONS SHALL COMPLY WITH "NFPA-54" (LATEST EDITION).
- ALL WATER HEATERS AND HOT WATER STORAGE TANKS SHALL HAVE A DRAIN VALVE INSTALLED AT THE BOTTOM OF THE TANK AS REQUIRED BY CODE.

PIPING LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

WS	WATER SERVICE (BELOW GR.)
---	COLD WATER
---	HOT WATER
G	GAS
---	WASTE BELOW GRADE
---	WASTE ABOVE GRADE
---	VENT
⊕	WATER HAMMER ARRESTER, SEE SCHEDULE
⊙	FLOOR DRAIN, SEE SCHEDULE
C.O.	FINISH FLOOR CLEANOUT, SEE SCHEDULE
C.O.I.	FINISH GRADE CLEANOUT, SEE SCHEDULE

NOTE: SEE THE APPLICABLE PLUMBING CODE FOR MINIMUM WASTE PIPING SLOPE.

PLAN NOTATIONS/ABBREVIATIONS:

⬆	INDICATES DIRECTION OF NORTH
3 E3	DETAIL REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER.
1	PLAN NOTE REFERENCE
100	ROOM NUMBER REFERENCE
⊕	INDICATES CONNECTION TO EXISTING SYSTEM

CRAIG A. SCHNEIDER, AIA
ARCHITECT

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417.862.0558
Fax: 417.862.3265
e-mail: architect@esteryschneider.com

New O'Reilly Auto Parts Store:

E. LINCOLN WAY
MASSILLON, OH

O'Reilly AUTO PARTS
Corporate Office:
233 South Patterson, Springfield, Mo 65802
Phone: (417) 862-3333 Fax: (417) 874-7112

COMM # 2741

DATE: 5-7-10

REVISION DATE:

NOTES:

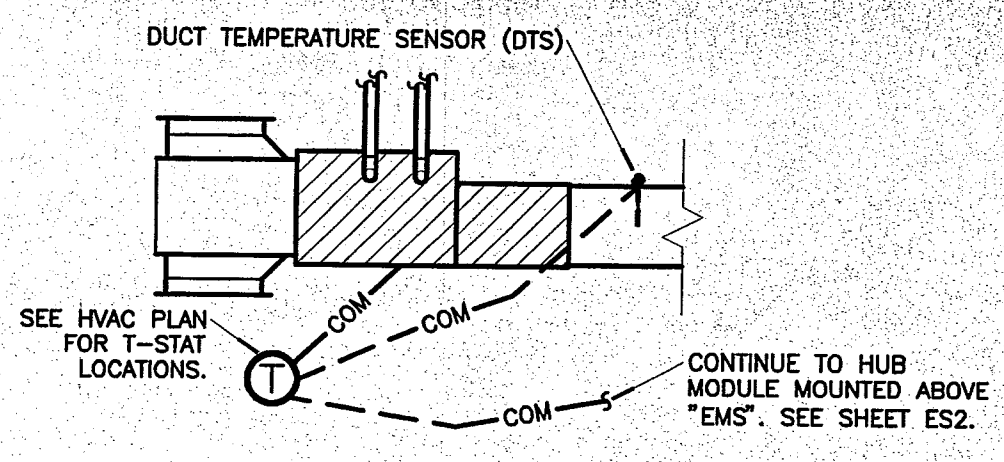
GENERAL HVAC NOTES:

1. DRAWING IS DIAGRAMATIC AND IS NOT TO BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.
2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE CODE(S) NOTED ON THE COVER SHEET.
3. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
4. ALL ROOF AND WALL PENETRATIONS REQUIRED SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL SLEEVES, FLASHING, CURBS, REINFORCING ANGLES, SUPPORTING FRAMES, ETC., WHICH ARE REQUIRED UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.
5. A SUBMITTAL OF ALL MATERIALS AND EQUIPMENT PROPOSED TO BE USED ON THE JOB SHALL BE PREPARED AS SOON AS POSSIBLE AFTER AWARD OF THE CONTRACT. THE SUBMITTAL WILL BE REVIEWED BY THE OWNER FOR EQUAL QUALITY AND PERFORMANCE TO THE ITEMS SPECIFIED. ALL CONTROL DEVICES SHALL BE INCLUDED IN THE SUBMITTAL.
6. THE PROPER PERFORMANCE OF THE CONTROL SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE WORK OF OTHER SUBCONTRACTORS OF THE PROJECT. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
9. DUCT DIMENSIONS ON PLANS ARE TO BE FINISHED INSIDE DIMENSIONS.
10. DUCT MATERIALS SHALL BE AS FOLLOWS:
ROUND SUPPLY AIR DUCT (SPEC 23 30 00)
RECTANGULAR SUPPLY AND RETURN AIR DUCT WORK (SPEC 23 00 00). INSTALL TURNING VANES IN ALL ELBOWS. DO NOT SUBSTITUTE RADIUS ELBOWS.
RUNOUTS TO DIFFUSERS (SPEC 23 30 00). SEE DIFFUSER INSTALLATION DETAIL.
EXHAUST DUCT (SPEC 23 30 00)
TRANSITIONS SHALL CONFORM TO SMACNA STANDARDS.
11. INSULATE HVAC CONDENSATE DRAIN PIPING WITH 0.5" ARMAFLEX.
12. ALL WORK IS TO BE GUARANTEED FOR ONE YEAR UPON OCCUPANCY.
13. NO EQUIPMENT OR FIXTURE SUBSTITUTIONS (THAT ARE NOT CURRENTLY LISTED) WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER WILL BE ALLOWED.
14. UPON COMPLETION BALANCE SYSTEMS TO AIR FLOWS SHOWN. REPORT THE BALANCING MEASUREMENTS ON THE "AS BUILT" DRAWINGS.
15. MOUNT CONDENSATE AND REFRIGERANT LINES AS HIGH AS POSSIBLE.
16. CONTROL WIRING BY HVAC CONTRACTOR, FINAL CONNECTIONS BY HVAC CONTRACTOR.
17. ALL CAULKING ON BUILDING PENETRATIONS SHALL BE A ONE-COMPONENT NON-SAG URETHANE ELASTOMERIC SEALANT. ANY CONTRACTOR WHO USED SILICONE OR ANY OTHER CAULKING WILL BE REQUIRED TO REMOVE AND REPLACE WITH A SPECIFIED SEALANT (SPEC 07 92 00).
18. THE HVAC SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 101-7-2 AND NFPA 90A "STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS".
19. ALL HVAC SYSTEM FLUES & VENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 54 (LATEST EDITION).

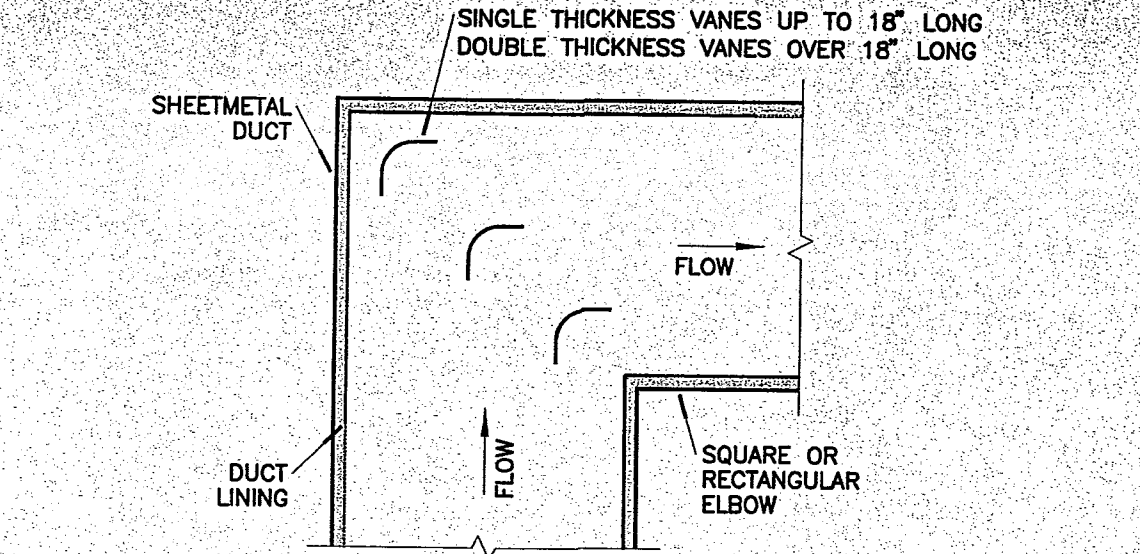
HVAC LEGEND	
(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)	
	SUPPLY DIFFUSER (4-WAY)
	SUPPLY DIFFUSER (1-WAY)
	RETURN AIR GRILLE
	EXHAUST GRILLE
	DUCT
	FLEXIBLE DUCT (MAXIMUM 8'-0" LENGTH) NOTE: LOCATION OF FLEX DUCT SHALL BE ONLY AS INDICATED ON PLAN VIEW DRAWING
	SADDLE TAP FITTING
	CONDENSATE PIPING
	REFRIGERANT PIPING
	AIR FLOW INDICATOR
	THERMOSTAT
	CAT. 5 COMMUNICATION CABLE
	DUCT TEMPERATURE SENSOR
	ZONE TEMPERATURE SENSOR
	TURNING VANES

PLAN NOTATIONS/ABBREVIATIONS:

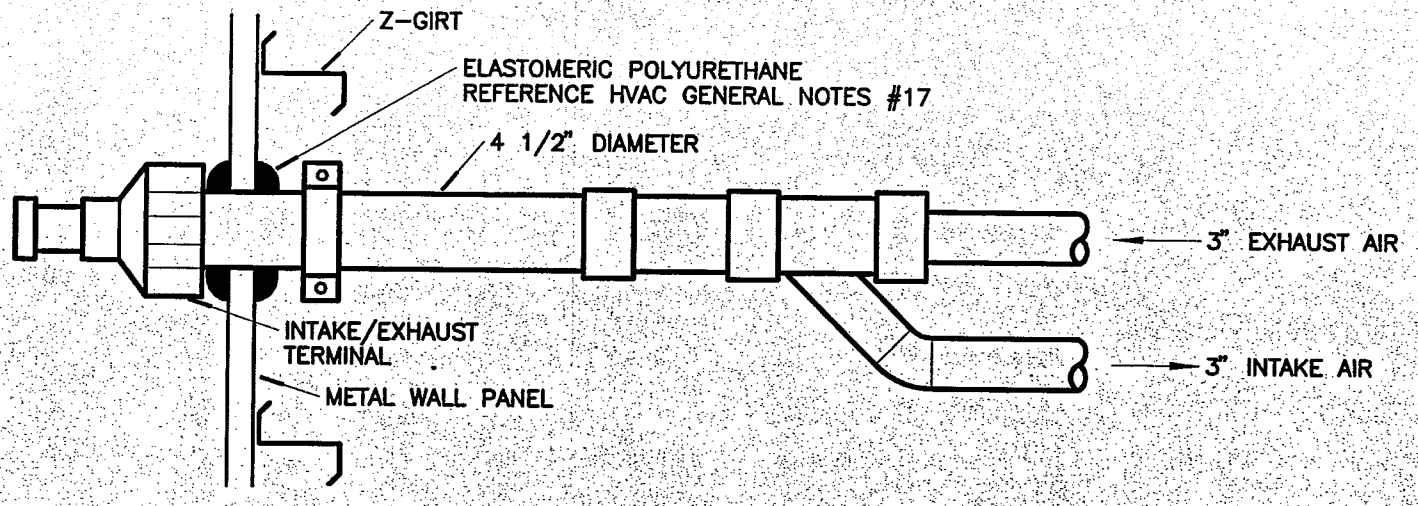
- INDICATES DIRECTION OF NORTH
- DETAIL REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER.
- PLAN NOTE REFERENCE
- ROOM NUMBER REFERENCE
- INDICATES CONNECTION TO EXISTING SYSTEM



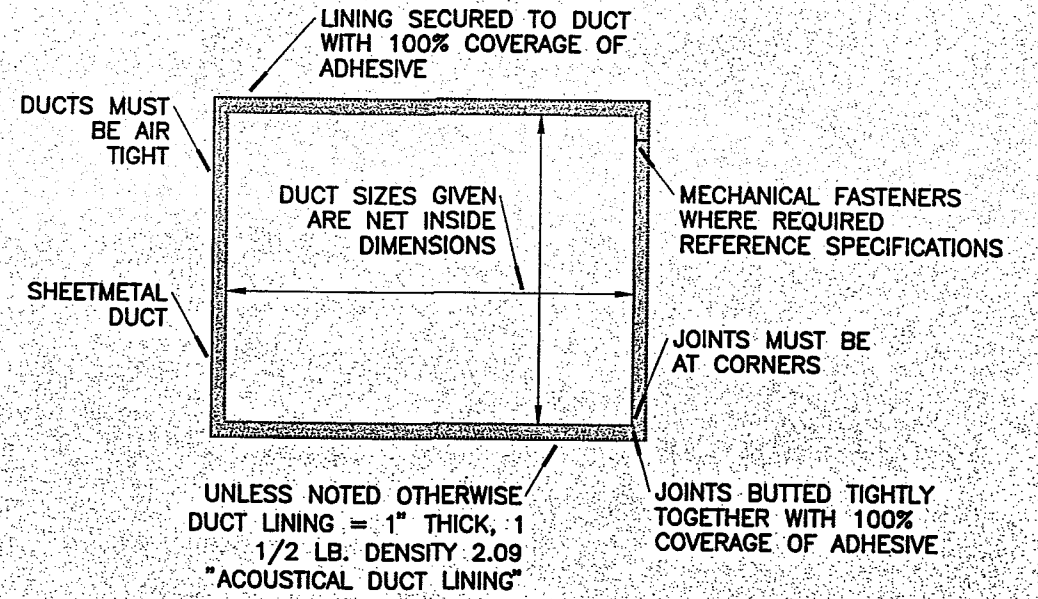
9
M1
TYPICAL FURNACE
EMS WIRING DETAIL
NO SCALE



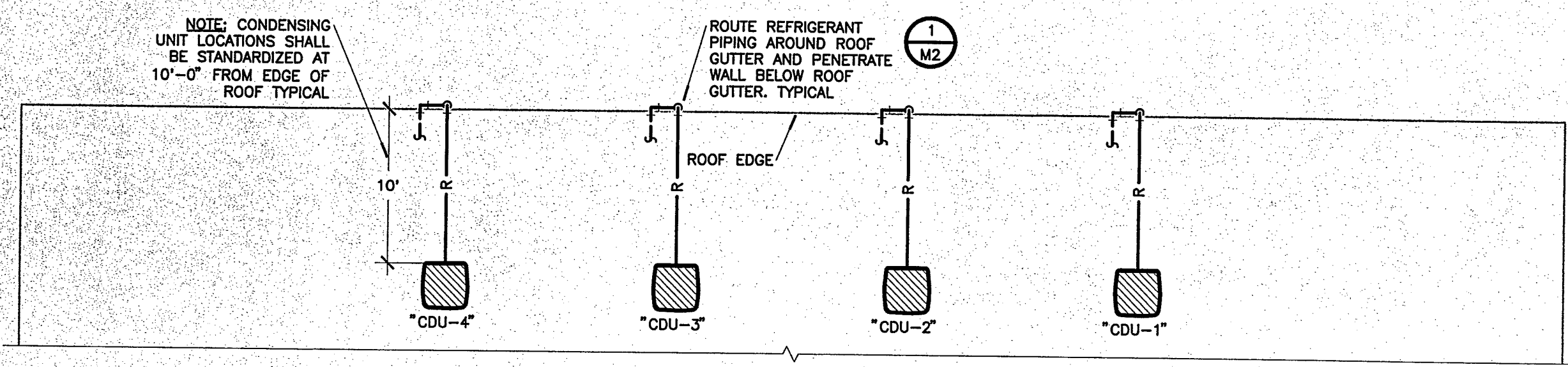
6
M1
TURNING VANES DETAIL
NO SCALE



8
M1
CONCENTRIC
INTAKE/EXHAUST VENT
NO SCALE



5
M1
RECTANGULAR DUCT
LINER INSULATION DETAIL
NO SCALE



NATIONAL ACCOUNT GAS FURNACE & CONDENSING UNIT SCHEDULE

1. ALL CARRIER HVAC UNITS WITH ACCESSORIES ARE OWNER SUPPLIED BY O'REILLY AUTOMOTIVE.
 2. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CARRIER HVAC UNITS.
 3. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE FIRST YEAR LABOR WARRANTY ON ALL OWNER SUPPLIED EQUIPMENT.
 4. MECHANICAL CONTRACTOR IS WORKING ON O'REILLY PROJECTS MUST CALL "CARRIER CORPORATION'S NATIONAL ACCOUNTS" DEPARTMENT FOR CONFIRMATION OF ORDERS AND BILL OF MATERIALS.
 5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING, SHIPPING AND RECEIVING OF ALL CARRIER UNITS FROM CARRIER NATIONAL ACCOUNTS. CONTACT PERSON(S) LISTED TO THE RIGHT.

CARRIER CORPORATION
 NATIONAL ACCOUNTS
 29 INDUSTRIAL PARK DR.
 BINGHAMTON, NY 13904

ACCOUNT MANAGER:
 LESLIE CASTERLINE
 (800) 935-5619 EXT.3490
 leslie.casterline@carrier.uto.com

GENERAL MANAGER:
 STEVE AMENT
 (317) 403-8420
 steven.ament@carrier.uto.com

CUSTOMER SERVICE REPS:
 COLLEEN GUNTER
 (866) 389-4658 EXT. 3479
 colleen.gunter@carrier.uto.com

SARA TILTON
 (866) 389-4658 EXT. 3429
 sara.tilton@carrier.uto.com

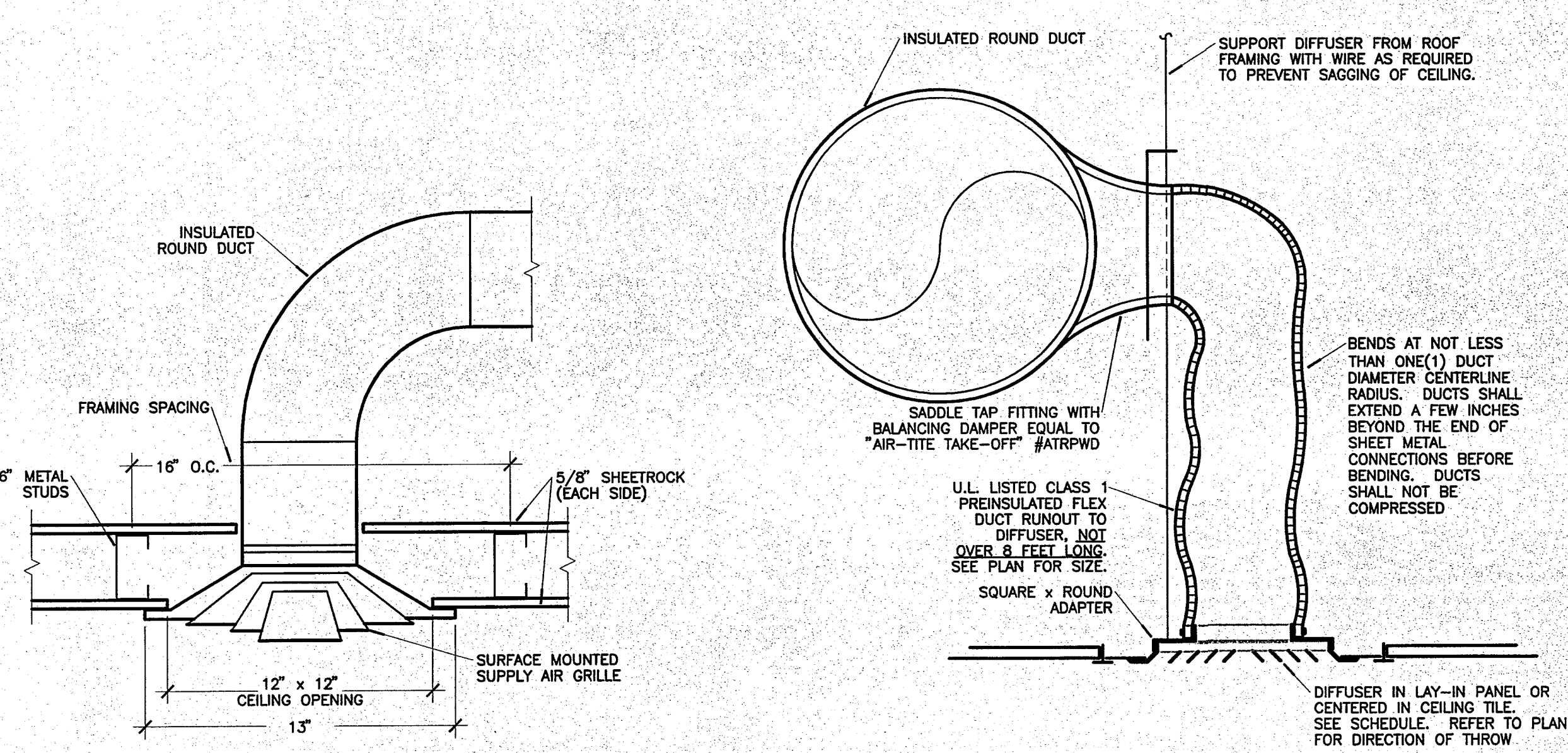
MARK	DESCRIPTION	MFR.	CATALOG NUMBER	HTG.		AFUE	CLG. MBH TOT. SENS.	SEER	SUPPLY FAN			ELECTRICAL			WT. (lbs)	ACCESSORIES	REMARKS	REF. DETAIL	
				IN	OUT				CFM	O.A.	ESP	HP	V/PH	MCA					MOCF
FURN-1	GAS FURNACE	CARRIER	58MB100F-1-20	100	93	92.0	---	---	1950	300	0.6	3/4	115/1	19.3	20	232	TS1, SP, CV TXV, VT, DS, DTS	⚠ ⚠	1/M2
FURN-2	HORIZONTAL CONFIGURATION		CK3BXA060024								5								
FURN-3	EVAPORATION COIL																		
FURN-4	CONDENSING UNIT (5-TON)	CARRIER	24ACA460A003	---	---	---	59	46	14.0	---	---	---	208/230	34.2	50	340	SACR, CH, WSC, EF, RFD, RTI, SS, LAC DS, HG	⚠ ⚠	

ACCESSORIES - FACTORY SUPPLIED AND INSTALLED
 SS - SAFETY SWITCHES - HI & LOW REFRIGERANT. (STANDARD)
 SP - SINGLE POINT POWER CONNECTION
 CH - CRANKCASE HEATER. (STANDARD ACCESSORY) "CARRIER" #KAACH1201AAA
 RFD - REFRIGERANT FILTER DRYER.

ACCESSORIES - FACTORY SUPPLIED AND FIELD INSTALLED
 TS1 - T-STAT. ADMICRO INC. MODEL TST-100M COMMUNICATING THERMOSTAT WITH AUTO-CHANGEOVER, 2-STAGE COOLING, 2-STAGE HEATING. (NO SUBSTITUTIONS)
 SACR - START ASSIST - CAPACITOR DELAY. "CARRIER" #KSA1ST701AAA
 EF - EVAPORATOR FREEZESTAT
 WSC - WINTER START CONTROL. "CARRIER" #KAWSO101AAA
 CV - CONDENSING VENT. "CARRIER" #KCAVT0601AAA
 TVX - THERMOSTATIC EXPANSION VALVE. "CARRIER" #KSAIX0501HSO (PURON R410A) (NOT REQUIRED WITH HEAT PUMPS)

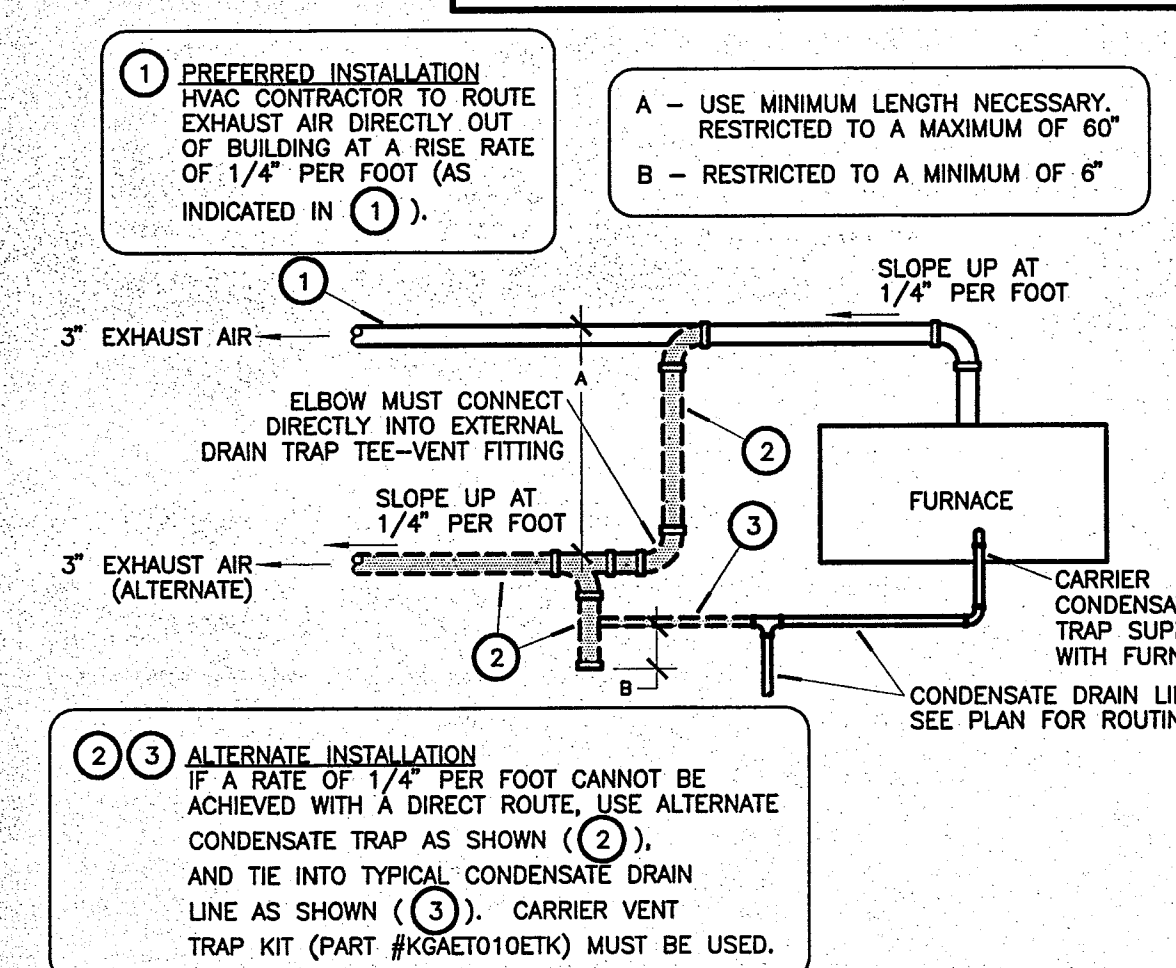
ACCESSORIES - FIELD SUPPLIED AND FIELD INSTALLED
 RTI - REFRIGERANT TUBING, INSULATION & PROPER R410 CHARGE

REMARKS
 △ CAPACITY BASED ON 47°F wb OUTDOOR AIR TEMPERATURE AND 70°F db ENTERING INDOOR COIL
 △ COOLING CAPACITY (TOTAL) BASED ON 80°F eds AND 67°F ewb, 95°F AMBIENT TEMPERATURE
 △ ADJUST TO CFM SHOWN.
 △ NOTE: DURING CONSTRUCTION, CARRIER FACTORY INSTALLS A TEMPORARY AIR FILTER INSIDE EACH FURNACE. THESE TEMPORARY AIR FILTERS SHALL REMAIN IN PLACE DURING CONSTRUCTION ONLY.
 △ NOTE: AT JOB COMPLETION, CONTRACTOR SHALL REMOVE ALL RETURN AIR FILTERS FROM INSIDE ALL FURNACES. CONTRACTOR SHALL INSTALL CLEAN AIR FILTERS BEHIND EACH RETURN AIR GRILLE ONLY. CONTRACTOR SHALL ALSO SUPPLY AN ADDITIONAL CLEAN SET OF FILTERS TO THE OWNER AT JOB COMPLETION. AIR FILTER(S) SHALL NOT BE INSTALLED OR LEFT INSIDE ANY FURNACE.
 △ OUTSIDE AIR, SEE PLAN FOR FURNACES REQUIRING OUTSIDE AIR.



5
M2
SURFACE MOUNTED DIFFUSER
NO SCALE

4
M2
TYPICAL LAY-IN DIFFUSER
NO SCALE



3
M2
FURNACE EXHAUST VENT INSTALLATION
NO SCALE

GRILLES, REGISTERS & DIFFUSER SCHEDULE

MARK	APPLICATION	MANUFACTURER	CATALOG #	FINISH	MOUNTING	ACCESSORIES	REMARKS	REFERENCE DETAIL	MAX NC (DB)	MIN THROW (FT)	MAX THROW (FT)	MAX PRESS DROP
A	SUPPLY	ANEMOSTAT	S1HO	WHITE	DUCT	OB	A	—	30	8	12	0.08
B	SUPPLY	ANEMOSTAT	E-1-D-8Q	WHITE	SURFACE	DT	A,C	5/M2	30	9	13	0.08
C	SUPPLY	ANEMOSTAT	EPL-10	WHITE	DUCT/LAY-IN	—	B	4/M2	30	8	12	0.08
D	RETURN	ANEMOSTAT	3HD-81L	WHITE	LAY-IN/EXPOSED	—	D	2/M2	30	—	—	0.1
E	EXHAUST	ANEMOSTAT	S3HOS	WHITE	CEILING	OB	—	—	30	—	—	0.1
F	RETURN	ANEMOSTAT	S3HD	WHITE	SURFACE	—	—	—	30	—	—	0.1
M	MOTORIZED DAMPER	VENT PRODUCTS	5811	—	DUCT	BELIMO #LF-120 SPRING-RETURN DAMPER MOTOR	—	—	—	—	—	—

ACCESSORIES
 OB - OPPOSED BLADE DAMPER
 DT - DIRECTIONAL TABS

APPROVED ALTERNATE MANUFACTURER'S
 * - TITUS AND BAILEY
 * - PRICE INDUSTRIES
 * - CARNES
 * - TITUS

REMARKS:
 A - 1-WAY
 B - 4-WAY
 C - DIRECTIONAL TABS, ADJUST TO PROVIDE THROW AS INDICATED ON PLANS
 D - PROVIDE 1" FIBERGLASS FILTER FOR GRILLE

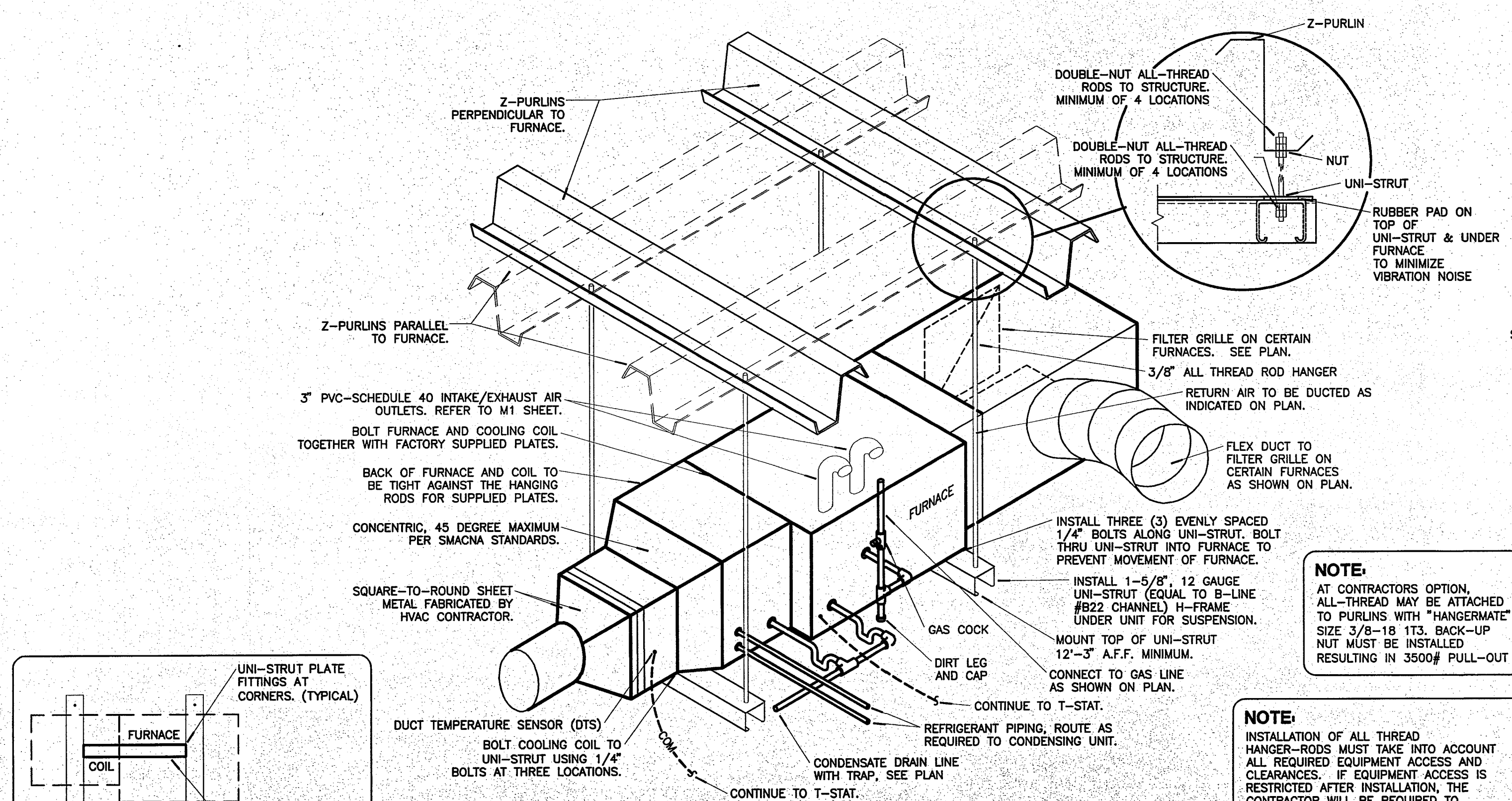
EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	CFM	EST. ESP.	VOLTS/PHASE	MOTOR	ACCESSORIES	REMARKS
EF-1	COOK	GN-340	230	0.125	120/1	132W	BD, DS, WC	A, C

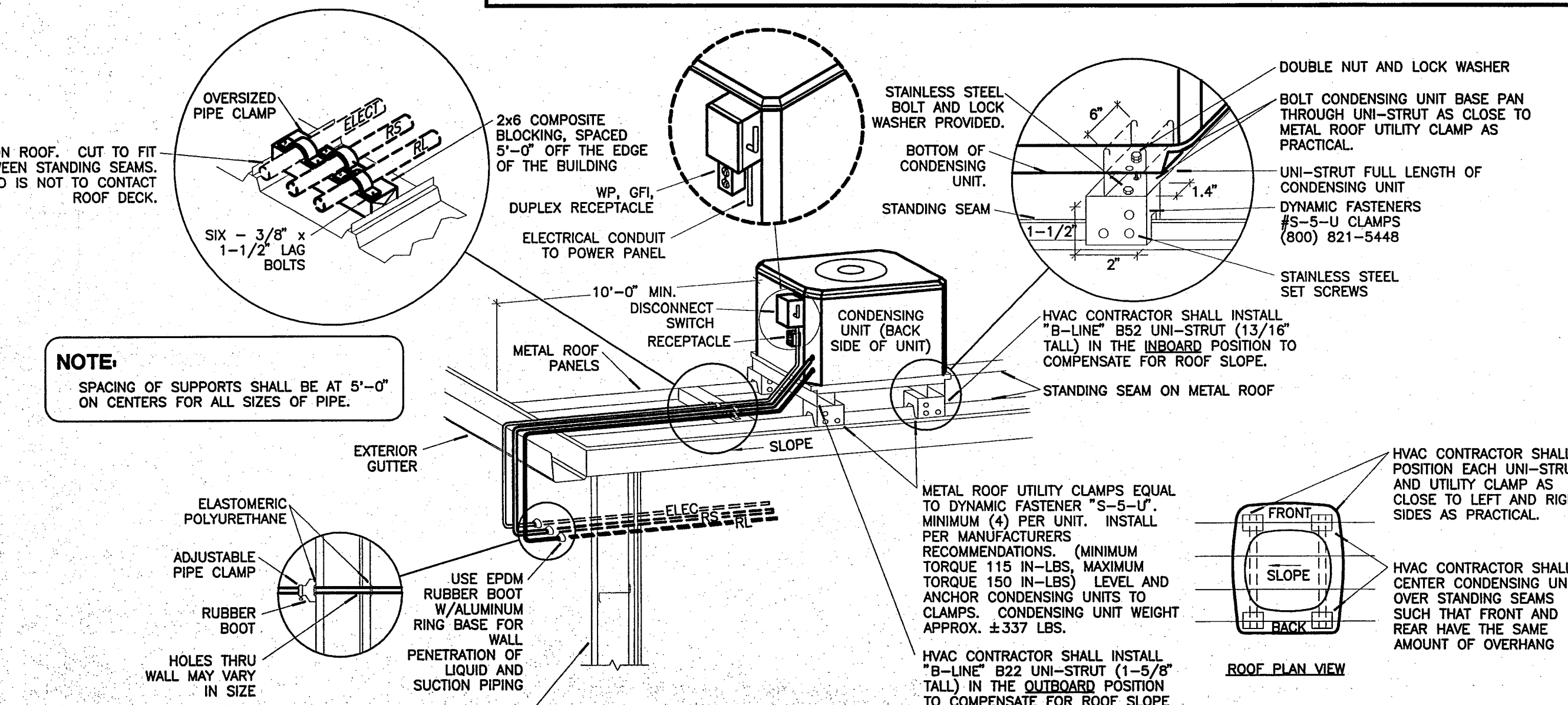
ABBREVIATIONS:
 AL - AUTO LOUVERS
 BD - BACK DRAFT DAMPER
 DS - DISCONNECT MEANS
 FF - FILTER FRAME
 WC - WALL CAP, COOK #WCA-2, ALUMINUM
 TE - TOTALLY ENCLOSED FAN MOTOR
 ES - EXTERNAL SHUTTER

APPROVED ALTERNATE MANUFACTURERS
 * - GREENHECK
 * - CARNES

REMARKS:
 A - ADJUST FOR CFM REQUIRED
 B - WALL FAN PACKAGE-GALVANIZED STEEL, ALUMINUM PROPELLER, 1/2" MESH SCREEN.
 C - EXHAUST FAN SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR TO OPERATE WITH EITHER RESTROOM LIGHT SWITCH



2
M2
HORIZONTAL FURNACE DETAIL
NO SCALE



1
M2
CONDENSING UNIT ON ROOF DETAIL
NO SCALE

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 Fax: 417.562.3265
 e-mail: architect@esterischnider.com

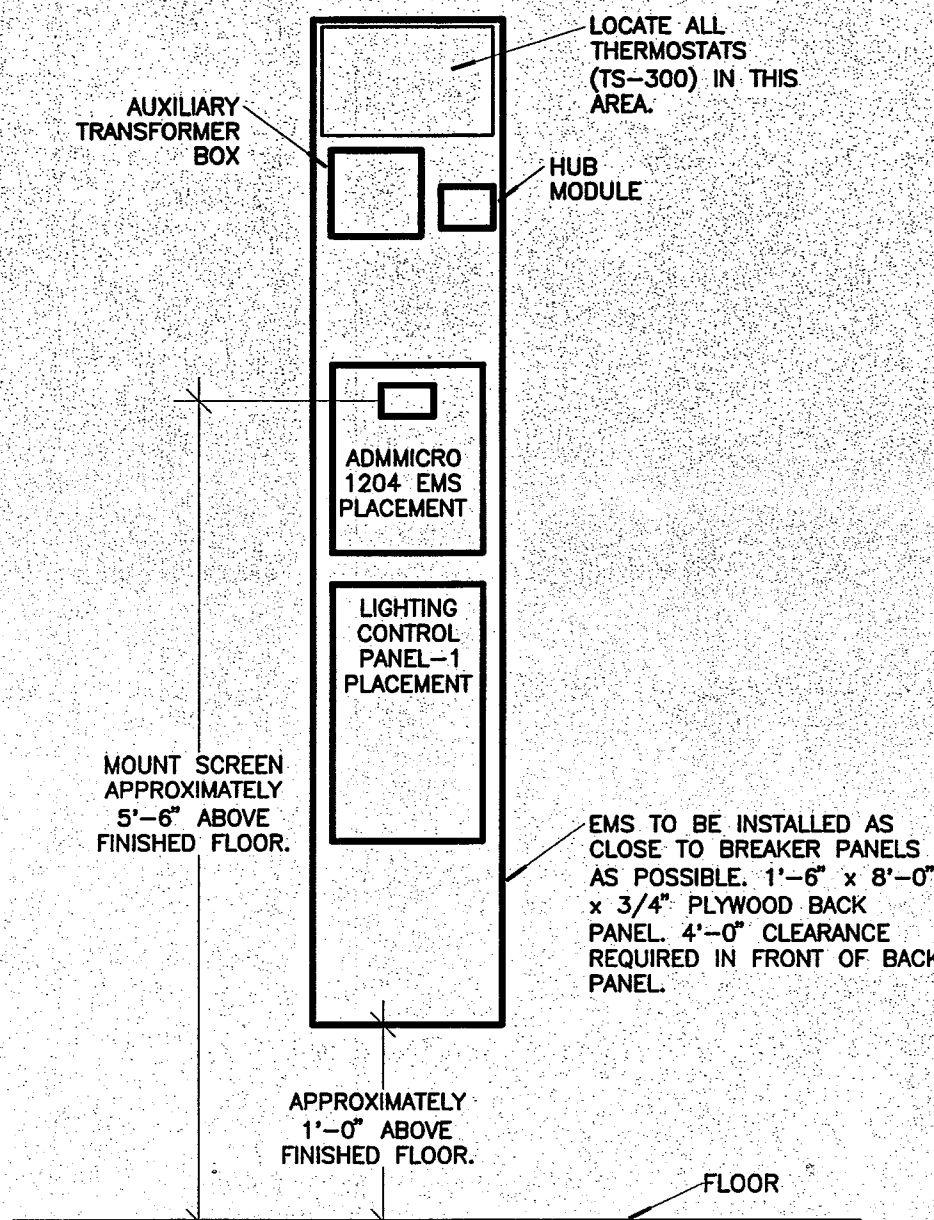
O'Reilly AUTO PARTS
 Corporate Office:
 233 South Patterson, Springfield, Mo 65802
 Phone: (417) 862-3333 FAX: (417) 874-7112

COMM # 2741

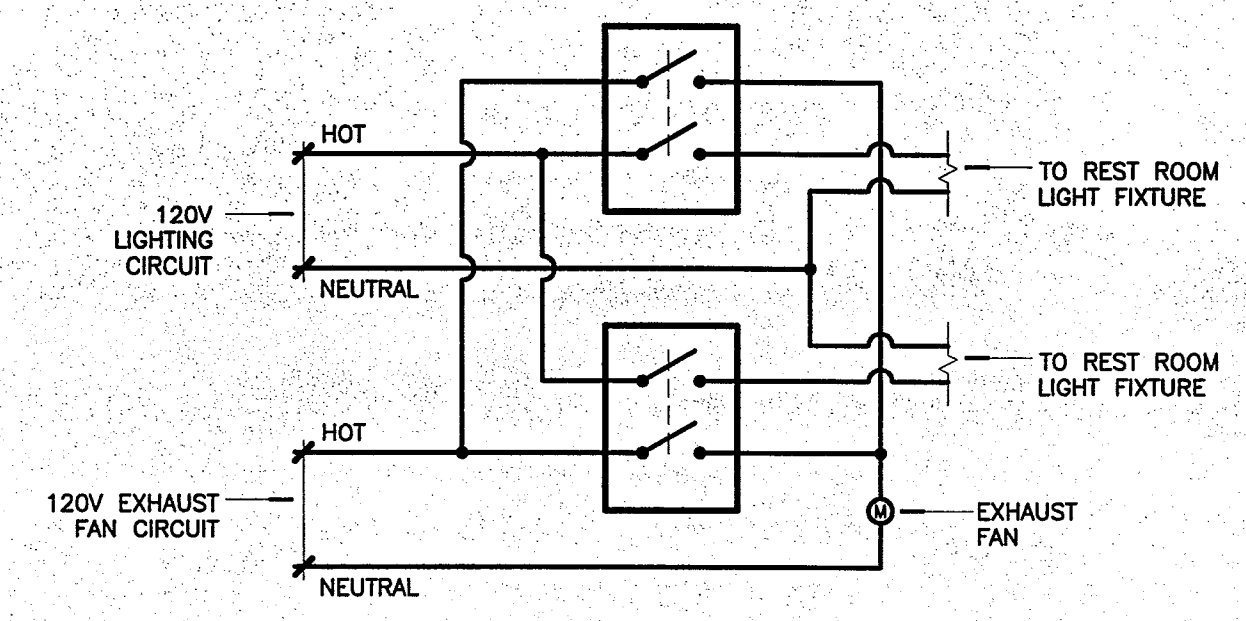
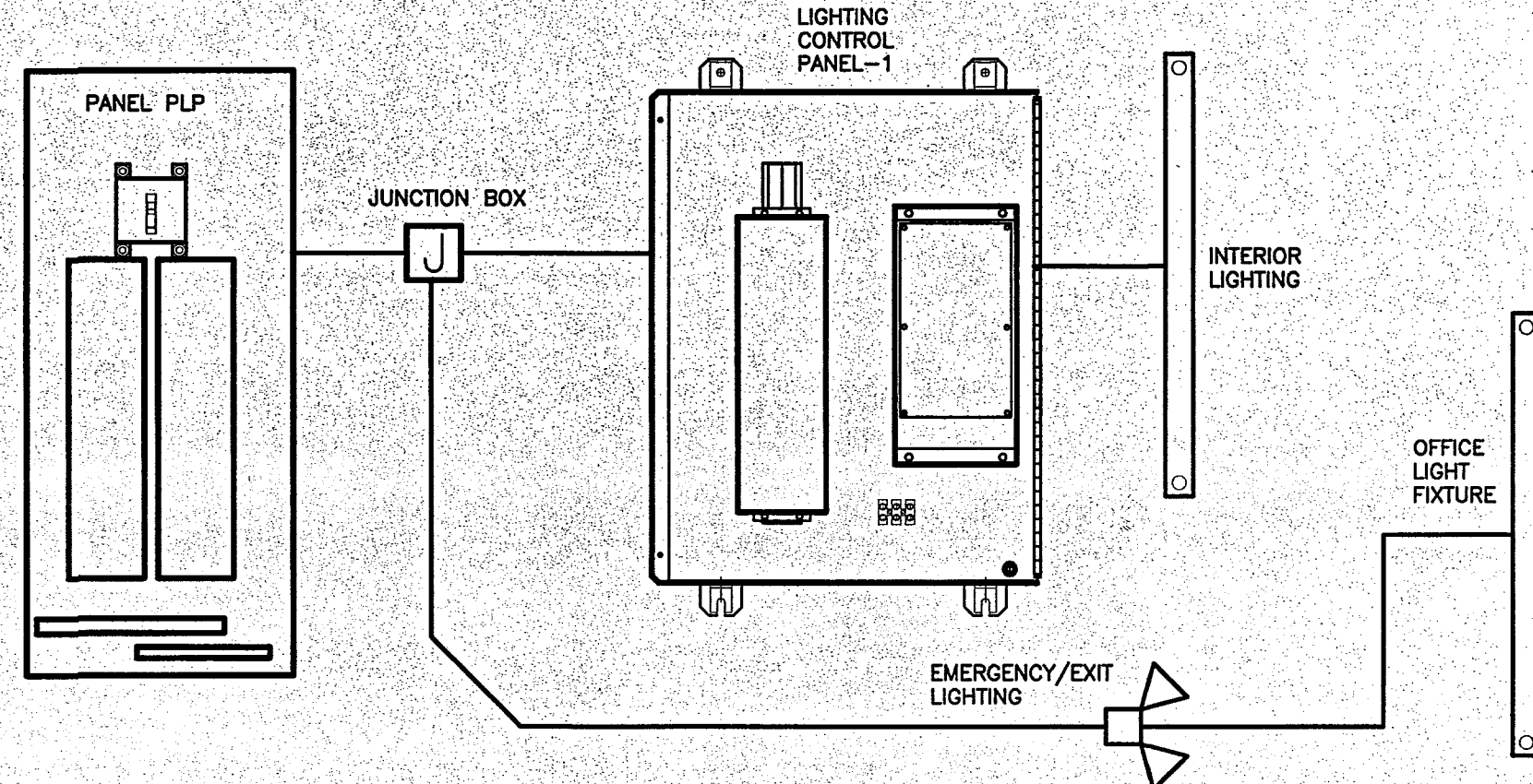
DATE: 5-7-10

REVISION DATE:

M2 of 2



3 E1 EMERGENCY/EXIT LIGHTING CONNECTION DIAGRAM
NO SCALE



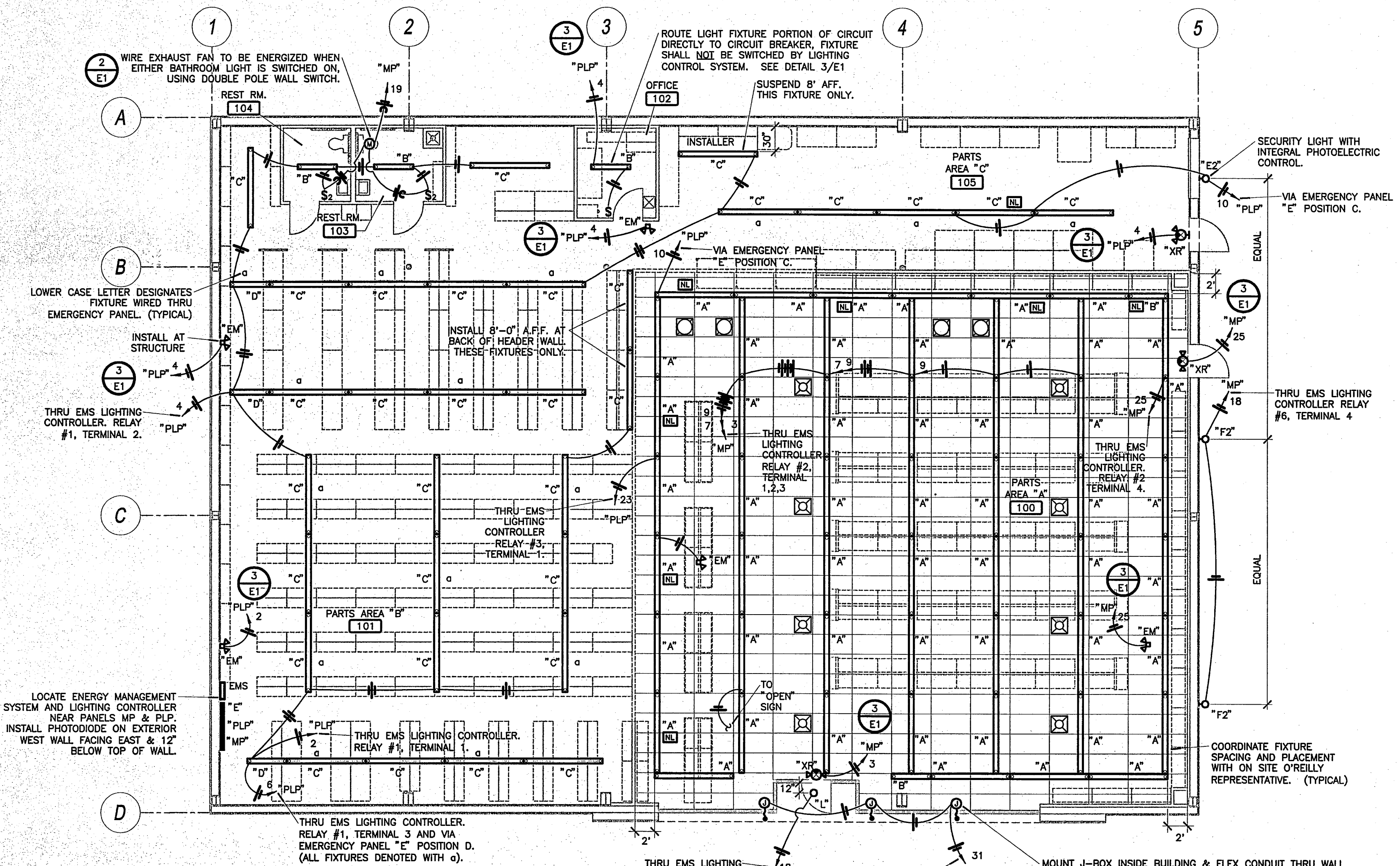
2 E1 RESTROOM EXHAUST FAN WIRING DIAGRAM
NO SCALE

4 E1 E.M.S. EQUIPMENT BOARD
NO SCALE

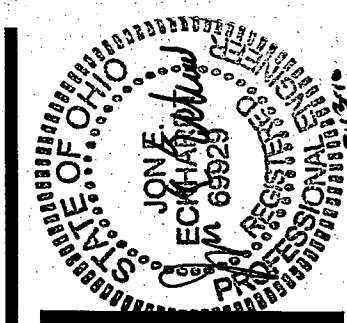
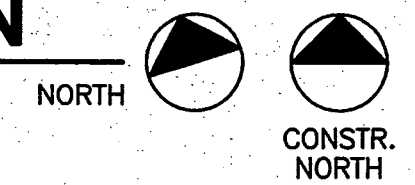
LIGHTING FIXTURE SCHEDULE

ALL ITEMS LISTED ON THE "LIGHT FIXTURE SCHEDULE" WILL BE SUPPLIED BY THE OWNER (O'REILLY). ALL ITEMS SHALL BE DIRECT ORDERED AND/OR RELEASED FROM THE LISTED ELECTRICAL EQUIPMENT DISTRIBUTOR:														GRAYBAR ELECTRIC COMPANY, INC. 11885 LACKLAND ROAD ST. LOUIS, MO 63148				ATTN: SANDI YOUNG - DIRECT LINE: 1 (314) 573-2082 OR SAM CAST - DIRECT LINE: 1 (314) 573-2081 sandi.young@graybar.com or samuel.cast@graybar.com TOLL-FREE = 1-800-289-5254 TOLL FREE FAX = 1-888-280-0128			
MARK	MFG.	CATALOG NUMBER	SUPPLY VOLTAGE	FINISH	MTG.								LAMPS				(General Electric) LAMP CATALOG NUMBER	WATTAGE	DESCRIPTION OF ACCESSORIES	NOTES	
					LAY-IN	RECESSED	SURF. WALL	SURF. CLG.	OTHER	TYPE											
										FLUOR.	INCAND.	OTHER	QUANTITY								
FLUORESCENT LIGHTS.																					
A	WILLIAMS	76-8-432-EBLH4(10PA4F32SC)-AD-BD-UNV, NO SUBSTITUTIONS	120	WHITE				X	X				4	F28T8/XL/SPX35/ECO	96	SHS (2 PER FIXTURE)	T-BAR MOUNTING BRACKET (CEILING GRID ONLY). ADVANCE <10% T.H.D. ELECTRONIC BALLAST, NO SUBSTITUTIONS.				
B	WILLIAMS	76-4-432-EBLH2(10PA2P32SC)-AD-BD-UNV, NO SUBSTITUTIONS	120	WHITE				X	X				2	F28T8/XL/SPX35/ECO	48	SHS (2 PER FIXTURE)	T-BAR MOUNTING BRACKET (CEILING GRID ONLY). ADVANCE <10% T.H.D. ELECTRONIC BALLAST, NO SUBSTITUTIONS.				
C	WILLIAMS	76-8-432-EBLH4(10PA4F32SC)-AD-BD-UNV, NO SUBSTITUTIONS	120	WHITE				X	X				4	F28T8/XL/SPX35/ECO	96	VBV-3 (2 PER FIXTURE)	CHAIN HANGER @ 12' A.F.F. + 3' OF CHAIN, ADVANCE <10% T.H.D. ELECTRONIC BALLAS, NO SUBSTITUTIONS.				
D	WILLIAMS	76-4-432-EBLH2(10PA2P32SC)-AD-BD-UNV, NO SUBSTITUTIONS	120	WHITE				X	X				2	F28T8/XL/SPX35/ECO	48	VBV-3 (2 PER FIXTURE)	CHAIN HANGER @ 12' A.F.F. + 3' OF CHAIN, ADVANCE <10% T.H.D. ELECTRONIC BALLAS, NO SUBSTITUTIONS.				
EXTERIOR LIGHTS W/FULL CUTOFF VISOR																					
E2	HUBBELL	PGM-150P-18-BZ-L-ADV-PBT-1-PVLV, NO SUBSTITUTIONS	120	DARK BRONZE				X			X		1	MXR150/U/MED	185	PHOTOCONTROL FULL CUTOFF VISOR	MOUNT 12'-0" A.F.F. TO CENTERLINE OF FIXTURE. INSTALL 3/8" INSIDE DIAMETER BLACK, 1" LENGTH RUBBER HOSE, ON PHOTOCONTROL (TO SHIELD FROM FLOODLIGHTS)				
F2	HUBBELL	PGM-150P-18-BZ-L-ADV-PVLV, NO SUBSTITUTIONS	120	DARK BRONZE				X			X		1	MXR150/U/MED	185	FULL CUTOFF VISOR	MOUNT 12" AFF TO CENTERLINE OF FIXTURE.				
L	INFINITY	MHRL75-100-ED17C/MED-BH-ADV 120 BALLAST, NO SUBSTITUTIONS	120	CLEAR				X			X		1	M100C/U/MED	115	---	RECESSED CAN WITH LENS				
COMBINATION EXIT/EMERGENCY LIGHTS & EMERGENCY LIGHTS																					
XR	EMERGLITE	LWSBX34R-29 (RED LETTERS)	120	WHITE				X	X				X	1	LED EXIT + (2) 6V, 6W LAMPS	16	UNIVERSAL (WALL/CLG)	BATTERIES SHALL MAINTAIN 100% ILLUMINATION FOR A MINIMUM OF 1.5 HOURS.			
EM	EMERGLITE	EL-2MRS	120	WHITE				X	X				X	2	MR16-SW	5	UNIVERSAL (WALL/CLG.)	BATTERIES SHALL MAINTAIN 100% ILLUMINATION FOR A MINIMUM OF 1.5 HOURS.			
POLE LIGHTS - SHOEBOX - FORWARD THROW (TYPE IV PATTERN)																					
S2	HUBBELL	RCL-A10-H1K-H4-F-Q-DB-L (1000 WATT FORWARD THROW SHOEBOX)	QUAD-TAP	DARK BRONZE					X		X			RE: SU1 FOR QTY. MV1000/U	1000=1150	---	25'-0" POLE MOUNTING - NO SUBSTITUTIONS				
	SECURITY LIGHTING	SSS-25-50-1-DB-LAB A2 OR B2 (90°) (DRILLED FOR 2 LIGHTS)																			
ABBREVIATIONS:																					
MTG - MOUNTING		CABL - CABLE		THD - TOTAL HARMONIC DISTORTION																	
REC - RECESSED		MFG - MANUFACTURER		UNIV - UNIVERSAL																	
SURF - SURFACE		QTY - QUANTITY		CLG - CEILING																	
GRD - GROUND		FLR - FLUORESCENT																			
TRK - TRACK		INC - INCANDESCENT																			
CABL - CABLE		HID - HIGH INTENSITY DISCHARGE																			

ABBREVIATIONS:
 MTG - MOUNTING
 REC - RECESSED
 SURF - SURFACE
 GRD - GROUND
 TRK - TRACK
 CABL - CABLE
 CABL - CABLE
 MFG - MANUFACTURER
 QTY - QUANTITY
 FLR - FLUORESCENT
 INC - INCANDESCENT
 HID - HIGH INTENSITY DISCHARGE
 THD - TOTAL HARMONIC DISTORTION
 UNV - UNIVERSAL
 CLG - CEILING



1 E1 LIGHTING PLAN
SCALE: 1/8"=1'-0"

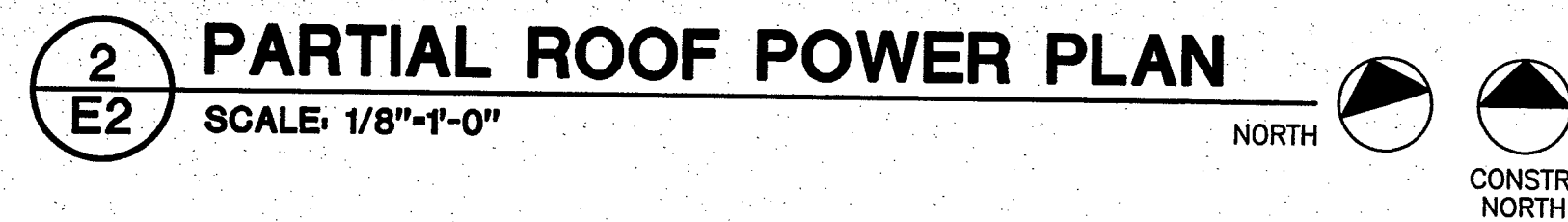


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 Fax: (417) 874-7112

COMM # 2741

DATE: 5-7-10
 REVISION
 DATE:



- 1 1" CONDUIT (FOR ONLY VOICE AND DATA WIRING - BY OWNER)
- 2 ALTERNATOR TESTER, 120V. WIRE TO INDICATED DEVICES.
- 3 2" CONDUIT UNDER SLAB, FOR OWNER INSTALLED PHONE SERVICE TO COUNTER AND OFFICE 102. STUB ONE END AT PHONE EQUIPMENT LOCATION. STUB UP OTHER END AT LOCATION INDICATED.
- 4 3" CONDUIT UNDER SLAB (FOR PRINTER CABLE), FROM UNDER COUNTER TO PRINTER LOCATION. INSTALL A MAXIMUM OF 12" BELOW FINISH FLOOR LEVEL.
- 5 CUT 3" CONDUIT (FOR PRINTER CABLE) FLUSH WITH FLOOR.
- 6 FLOORBOX 4-PLEX ISOLATED GROUND RECEPTACLE. SEE DETAIL 5/E2 AND 1/E3.
- 7 STUB UP CONDUITS 4" AFF. TYPICAL OF ALL COUNTERS. SEE DETAIL 5/E3.
- 8 FLOORBOX 4/PLEX RECEPTACLE SEE DETAIL 5/E2.

BRANCH CIRCUIT & FEEDER SCHEDULE:

- ① 2 - #10 AND 1 - #10 GROUND IN 0.5" CONDUIT.
- ② 2 - #6 AND 1 - #8 GROUND IN 0.75" CONDUIT.
- ③ 2 - #8 AND 1 - #10 GROUND IN 0.75" CONDUIT.
- ④ 2 - #10, 1 - #10 GROUND AND 1 - #10 ISOLATED GROUND IN 0.5" CONDUIT.

**TELEPHONE AND
COMPUTER DATA SYSTEMS:**

1. ALL TELEPHONE AND DATA CONDUITS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. ALL TELEPHONE AND DATA WIRING SHALL BE PROVIDED AND INSTALLED BY OWNER.

ALL SWITCHGEAR WILL BE SUPPLIED BY THE OWNER (O'REILLY).
SWITCHGEAR SHALL BE DIRECT ORDERED AND/OR RELEASED
FROM THE LISTED ELECTRICAL EQUIPMENT DISTRIBUTOR.

GRAYBAR ELECTRIC COMPANY, INC.
11885 LACKLAND ROAD
ST. LOUIS, MO 63146

ATTN: SANDI YOUNG - DIRECT LINE: 1 (314) 573-2082
OR SANDY YOUNG - DIRECT LINE: 1 (314) 573-2081
sandy.young@graybar.com or sandi.young@graybar.com
TOLL-FREE = 1-800-289-5254
TOLL FREE FAX = 1-888-280-0128

'MP' - PANELBOARD SCHEDULE

MAIN: 400A MAIN LUGS ONLY				TYPE: SQUARE D, NQOD				ACCESSORIES:						
VOLTAGE: 120/240V, 1Ø, 3W				LOCATION: SEE PLAN				1. EQUIPMENT GROUND BAR						
MOUNTING SPACES: 42				MOUNTING: SURFACE				2. # HANDLE LOCK-OFF DEVICE						
WIDTH: 20"				SCCR: 10KAIC										
CCT.	CCT. BKR.	WIRE	KVA	LOAD DESCRIPTION	CCT.	CCT. BKR.	WIRE	KVA	LOAD DESCRIPTION	CCT.	CCT. BKR.	WIRE	KVA	LOAD DESCRIPTION
1	20A/1P	#12s	1.70	CRIMPER/CUTOFF SAW	2	50A/2P	#6s	7.0	"CDU-1"					
3	20A/1P	#12s	1.42	LIGHTING	4		"		"					
5	20A/1P	#12s	1.70	LATHE	6	50A/2P	#6s	7.0	"CDU-2"					
7	20A/1P	#12s	1.42	LIGHTING	8		"		"					
9	20A/1P	#12s	1.42	LIGHTING	10	50A/2P	#6s	7.0	"CDU-3"					
11	20A/1P	#12s	0.54	WATER COOLER RECEPT.	12		"		"					
13	20A/1P	#12s	0.72	CDU RECEPTACLES	14	50A/2P	#6s	7.0	"CDU-4"					
15	50A/2P #	#8s	9.5	INST. WATER HEATER	16		"		"					
17		"		"	18	20A/1P	#12s	0.75	BUILDING LIGHTING					
19	15A/1P	#12s	0.25	EXHAUST FAN	20				SPACE					
21	20A/1P	#10s	1.56	STARTER/ALT. TESTER	22				SPACE					
23	20A/1P	#10s	1.56	STARTER/ALT. TESTER	24	30A/2P	#8s	2.30	SITE LIGHTING					
25	20A/1P	#12s	1.37	LIGHTING	26		"		"					
27	125A/2P		21.08	PANEL "PLP"	28	20A/1P	#10s	1.30	SITE SIGN					
29					30	20A/1P	#10s	1.30	SITE SIGN					
31				SPACE	32	20A/1P	#12s	1.80	"FURN-1"					
33				SPACE	34	20A/1P	#12s	1.80	"FURN-2"					
35	15A/2P	#12s	0.10	ADM-1204	36	20A/1P	#12s	1.80	"FURN-3"					
37					38	20A/1P	#12s	1.80	"FURN-4"					
39	15A/1P	#12s	0.70	LIGHTING CONTROL	40				SPACE					
41	15A/1P	#12s	0.60	AUX. TRANSFORMER BOX	42				SPACE					
TOTAL (KVA)			53.1		TOTAL (KVA)			57.2						
TOTAL = 90.10 KVA														

'PLP' - PANELBOARD SCHEDULE

MAIN: 225A MAIN LUGS ONLY				TYPE: SQUARE D, NQOD				ACCESSORIES:			
VOLTAGE: 120/240V, 1ø, 3W				LOCATION: SEE PLAN				1. EQUIPMENT GROUND BAR			
MOUNTING SPACES: 42				MOUNTING: SURFACE				2. ISOLATED GROUND BAR			
WIDTH: 20"				SCCR: 10KAIC				3. *SQ. D' #Q01PA-CCT. 31.			
CCT.	CCT. BKR.	WIRE	KVA	LOAD DESCRIPTION	CCT.	CCT. BKR.	WIRE	KVA	LOAD DESCRIPTION		
1				SPACE	2	20A/1P	#12s	1.20	LIGHTING		
3				SPACE	4	20A/1P	#12s	1.48	LIGHTING		
5				SPACE	6	20A/1P	#12s	1.42	LIGHTING		
7				SPACE	8				SPACE		
9	20A/1P	#12s	0.50	CHECK-IN RECEPT	10	20A/1P	#12s	1.56	LIGHTING		
11	20A/1P	#12s	1.08	ISO. GRD. RECEPTS.	12	20A/1P	#12s	0.36	ISO. GRD. RECEPTS.		
13	20A/1P	#12s	1.44	ISO. GRD. RECEPTS.	14	20A/1P	#12s	1.08	ISO. GRD. RECEPTS.		
15	15A/1P	#12s	0.72	PHONE EQUIP. RECEPT.	16	30A/1P	#10s	3.0	BATTERY BACKUP		
17	20A/1P	#12s	0.36	RECEPTACLES	18	20A/1P	#12s	0.90	RECEPTACLES		
19	20A/1P	#12s	0.36	BREAK AREA RECEPTS.	20	20A/1P	#12s	1.08	RECEPTACLES		
21				SPACE	22	20A/1P	#12s	0.54	BREAK AREA RECEPTS.		
23	20A/1P	#12s	1.48	LIGHTING	24	20A/1P	#12s	0.50	PRINTER RECEPTACLE		
25	20A/1P	#12s	1.00	LAWN SPRINKLER CTRL.	26				SPACE		
27				SPACE	28				SPACE		
29	20A/1P	#12s	0.25	SECURITY SYSTEM	30	20A/1P	#12s	0.25	SECURITY SYSTEM		
31	20A/1P	#12s	0.52	LED BUILDING SIGN	32				SPACE		
33				SPACE	34				SPACE		
35				SPACE	36				SPACE		
37				SPACE	38				SPACE		
39				SPACE	40				SPACE		
41				SPACE	42				SPACE		
TOTAL (KVA)			7.71	TOTAL (KVA)			13.37				
TOTAL = 21.08 KVA											

'E' - TRANSFER SWITCH SCHEDULE

POSITION	CCT. BKR.	LOAD DESCRIPTION
A	15A/1P	COUNTER RECEPTACLES
B	15A/1P	PRINTER
C	20A/1P	SHOWROOM LIGHTING
D	20A/1P	BACK STOCK LIGHTING
E	15A/1P	OFFICE COMPUTER
F	15A/1P	TELEPHONE EQUIPMENT RECEPTACLE

* CONTRACTOR SHALL WIRE LIGHTING CIRCUITS TO 20A BREAKERS. ALL OTHER CIRCUITS SHALL BE WIRED TO 15A BREAKERS.

CROSS-HATCH REPRESENTS CIRCUITS THAT ARE ASSOCIATED WITH EMERGENCY GENERATOR CONTROL.

RELIANCE 31406CRK KIT INCLUDES:
MODEL # 31406C
PC3010
P830
L1420P
DESCRIPTION
TRANSFER SWITCH
10' LONG POWER CORD
OUTDOOR RECEPTACLE
(EXTRA) PLUG

ELECTRIC SERVICE RESPONSIBILITIES

REFER TO SITE UTILITIES PLAN FOR UTILITY COMPANY CONTACT INFO.

ITEM	DESCRIPTION	FURNISHED BY		INSTALLED BY		ITEM	DESCRIPTION	FURNISHED BY		INSTALLED BY	
		UTILITY CO.	CONTRACTOR	UTILITY CO.	CONTRACTOR			UTILITY CO.	CONTRACTOR	UTILITY CO.	CONTRACTOR
1	SERVICE LATERAL		X		X	6	O.H. SERVICE RISER AT BUILDING	N/A	N/A	N/A	N/A
2	SERVICE LATERAL RACEWAY		X		X	7	SERVICE DROP	X		X	
3	METER BASE	X			X	8	SERVICE RISER AT POLE		X		X
4	METER	X			X	9	TRANSFORMER PAD	N/A	N/A	N/A	N/A
5	CT CABINET	N/A	N/A	N/A	N/A	10	PAD MOUNT TRANSFORMER	N/A	N/A	N/A	N/A

NOTES

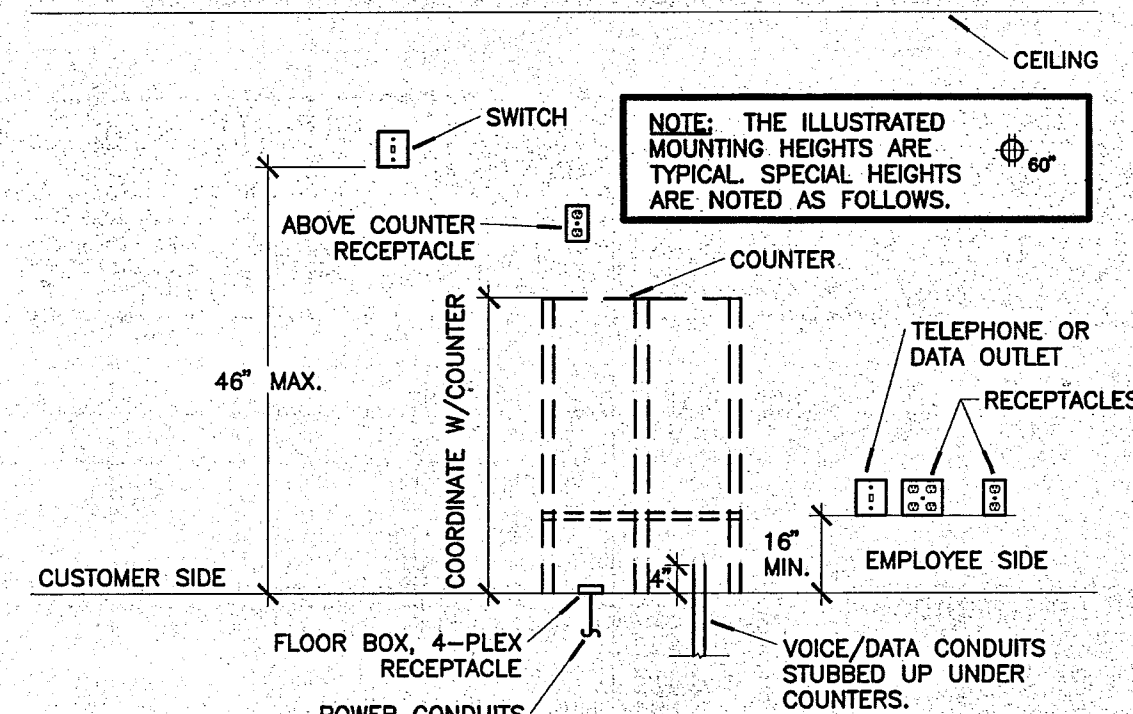
(CODE REFERENCES - 2005 EDITION OF NEC)

- BOND ALL NONCURRENT CARRYING METAL PARTS OF SERVICE EQUIPMENT (INCLUDING METER ENCLOSURE) TO GROUNDING ELECTRODE AS REQUIRED PER NEC 250-92.
- THE GROUNDED NEUTRAL CONDUCTOR SHALL BE BONDED TO EACH SERVICE DISCONNECTING MEANS ENCLOSURE IN ACCORDANCE WITH NEC 250-24c.
- BONDING OF OTHER ENCLOSURES SHALL BE IN ACCORDANCE WITH NEC 250-96.

SERVICE EQUIPMENT GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH:
NEC 250-24 NEC 250-86
NEC 250-50 NEC 250-90

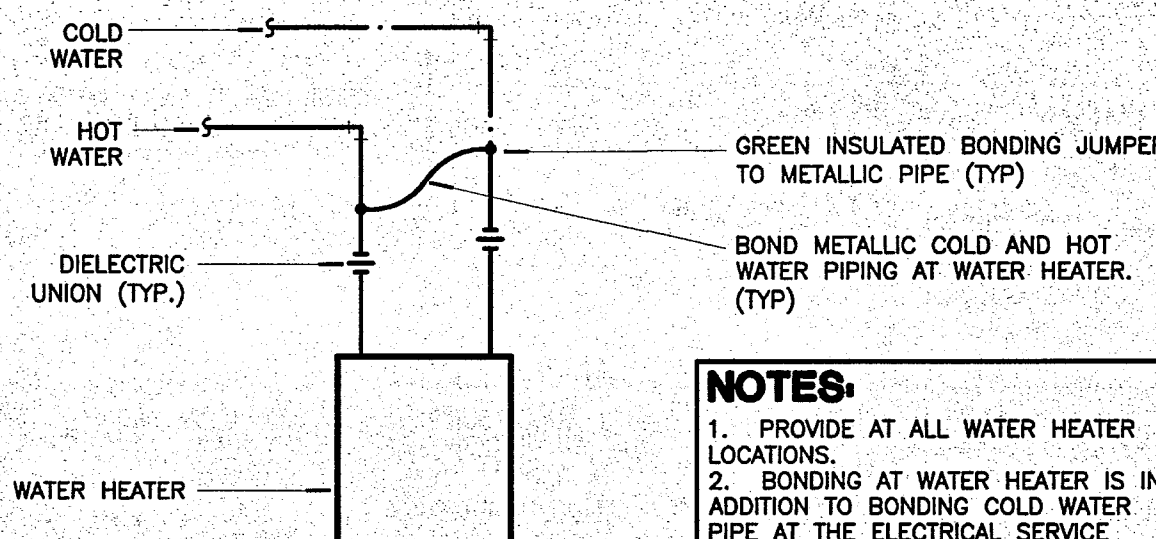
BONDING REQUIREMENTS

6 E3 NO SCALE



TYPICAL OUTLET MOUNTING HEIGHTS

5 E3 NO SCALE

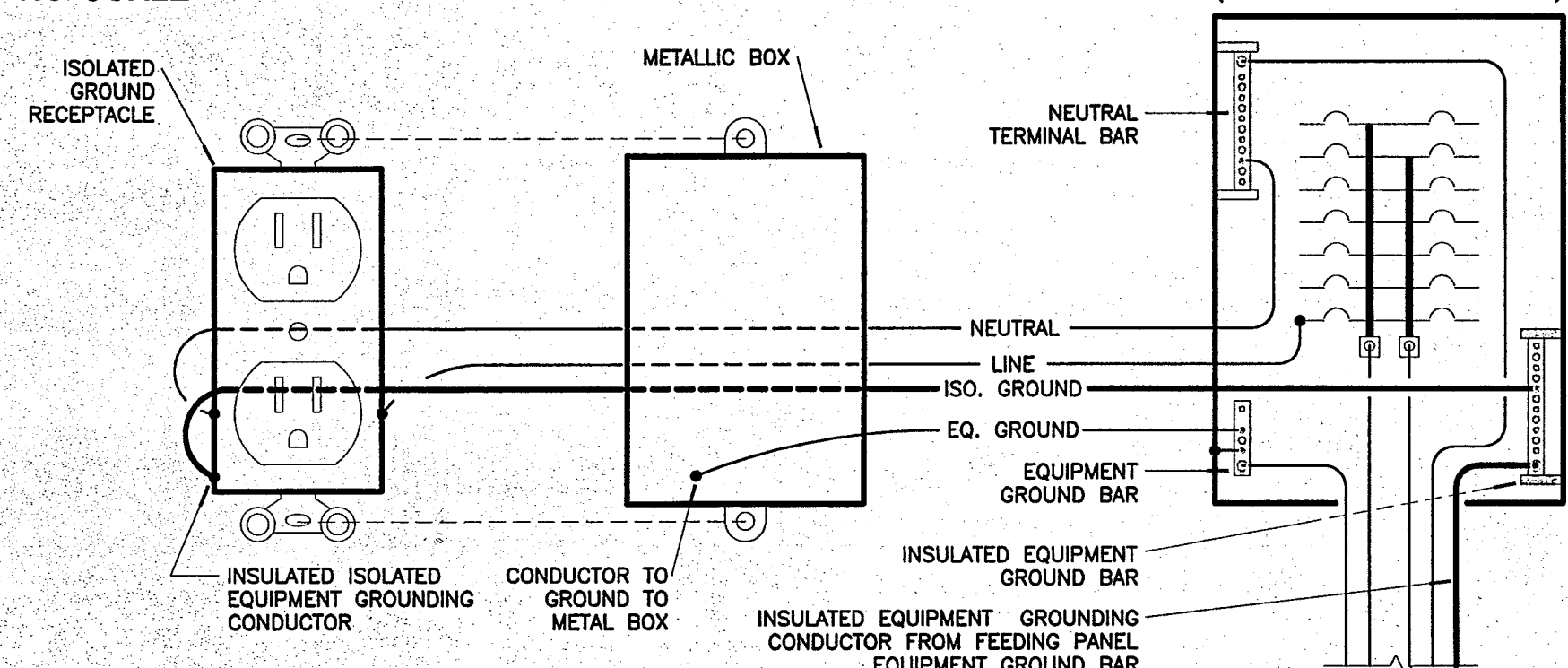


METALLIC WATER PIPE BONDING

4 E3 NO SCALE

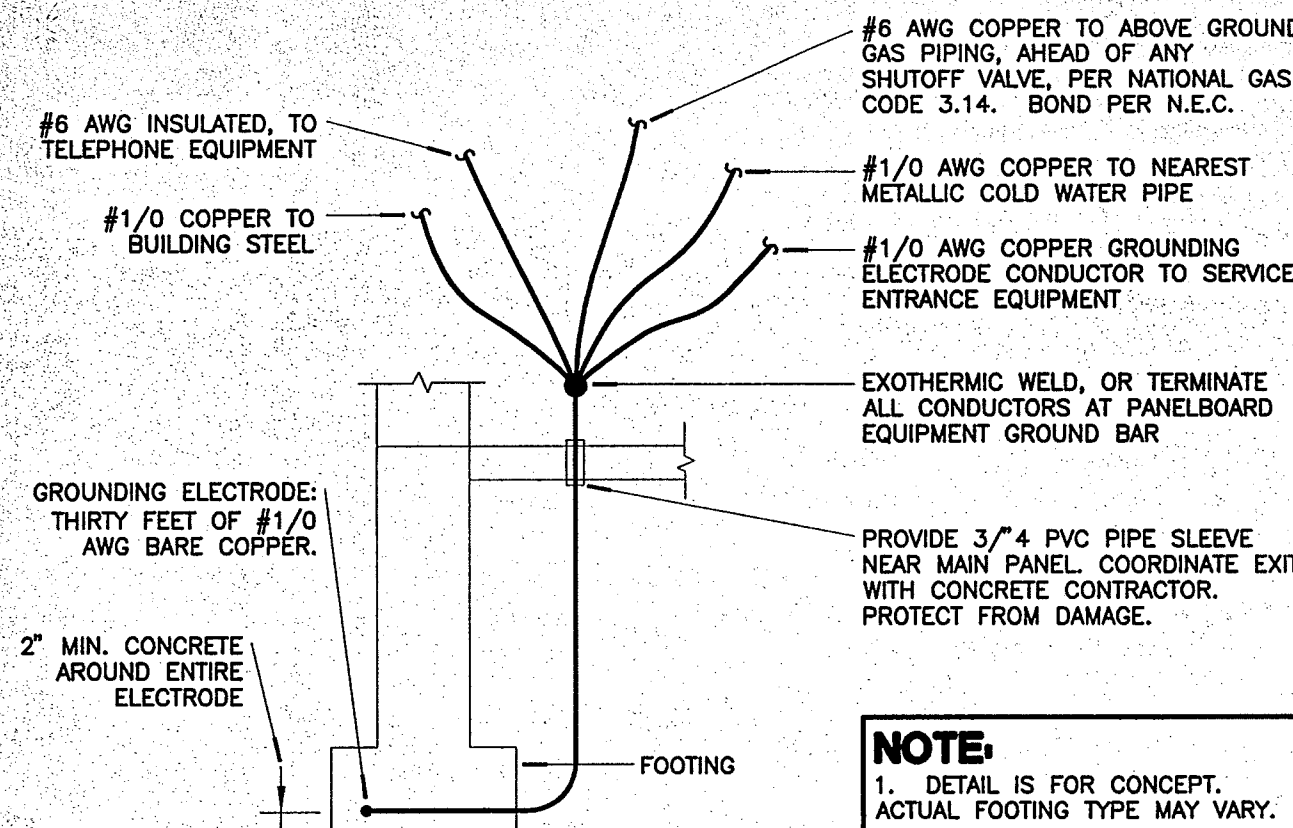
ELECTRIC SERVICE DIAGRAM

2 E3 NO SCALE



TYPICAL ISOLATED GROUND RECEPTACLE

1 E3 NO SCALE



GROUNDING ELECTRODE DETAIL

3 E3 NO SCALE

ELECTRICAL SYMBOL LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
FLUORESCENT LIGHT FIXTURE & TYPE	FLUORESCENT LIGHT FIXTURE & TYPE
LIGHT FIXTURE & TYPE (CEILING OR WALL MOUNTED)	LIGHT FIXTURE & TYPE (CEILING OR WALL MOUNTED)
EXIT LIGHT & TYPE (CEILING OR WALL MOUNTED)	EXIT LIGHT & TYPE (CEILING OR WALL MOUNTED)
EMERGENCY LIGHT & TYPE	EMERGENCY LIGHT & TYPE
NIGHT LIGHT (24 HR LIGHT), WIRED AHEAD OF ANY LOCAL SWITCHES	NIGHT LIGHT (24 HR LIGHT), WIRED AHEAD OF ANY LOCAL SWITCHES
20AMP, SINGLE POLE 120/277V SWITCH	20AMP, SINGLE POLE 120/277V SWITCH
20AMP, THREE-WAY 120/277V SWITCH	20AMP, THREE-WAY 120/277V SWITCH
MOTOR STARTING SW. W/PILOT LIGHT	MOTOR STARTING SW. W/PILOT LIGHT
20AMP, DOUBLE POLE 120/277V SWITCH	20AMP, DOUBLE POLE 120/277V SWITCH
DUPLEX 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE	DUPLEX 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
ISOLATED GROUND 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE	ISOLATED GROUND 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
QUADPLEX 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE	QUADPLEX 20AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
RECESS MOUNTED FLOOR BOX WITH APPROPRIATE RECEPTACLE(S)	RECESS MOUNTED FLOOR BOX WITH APPROPRIATE RECEPTACLE(S)
TELEPHONE OUTLET - 4" SQ BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING	TELEPHONE OUTLET - 4" SQ BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING
DATA OUTLET - 4" SQ BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING	DATA OUTLET - 4" SQ BOX WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING
JUNCTION BOX 4" SQUARE UNLESS NOTED OTHERWISE	JUNCTION BOX 4" SQUARE UNLESS NOTED OTHERWISE
MOTOR - USE INDICATED	MOTOR - USE INDICATED
NEMA L5-30R - SPECIAL RECEPTACLE	NEMA L5-30R - SPECIAL RECEPTACLE
DISCONNECT SWITCH	DISCONNECT SWITCH
PLUG/FUSED SAFETY/TOGGLE SWITCH (125V MAX). FUSE PER MFR'S. INSTRUCTIONS.	PLUG/FUSED SAFETY/TOGGLE SWITCH (125V MAX). FUSE PER MFR'S. INSTRUCTIONS.
4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR WITH QUADPLEX RECEPTACLE (SEE ABOVE RECEPTACLE DESCRIPTION). SEE SURFACE MOUNTED FLOOR BOX FOR INSTALLATION OF BOX.	4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR WITH QUADPLEX RECEPTACLE (SEE ABOVE RECEPTACLE DESCRIPTION). SEE SURFACE MOUNTED FLOOR BOX FOR INSTALLATION OF BOX.
4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR WITH QUADPLEX ISOLATED GROUND RECEPTACLE (SEE ABOVE RECEPTACLE DESCRIPTION). SEE SURFACE MOUNTED FLOOR BOX FOR INSTALLATION OF BOX.	4" SQUARE STEEL BOX MOUNTED FLUSH ON FLOOR WITH QUADPLEX ISOLATED GROUND RECEPTACLE (SEE ABOVE RECEPTACLE DESCRIPTION). SEE SURFACE MOUNTED FLOOR BOX FOR INSTALLATION OF BOX.
ELECTRICAL PANELBOARD (REFER TO PANELBOARD SCHEDULE)	ELECTRICAL PANELBOARD (REFER TO PANELBOARD SCHEDULE)
EXPOSED METAL RACEWAY - WIREMOLD	EXPOSED METAL RACEWAY - WIREMOLD
CONDUIT CONCEALED IN ROOF INSULATION	CONDUIT CONCEALED IN ROOF INSULATION
CONDUIT CONCEALED IN CEILING OR WALL	CONDUIT CONCEALED IN CEILING OR WALL
CONDUIT CONCEALED IN FLOOR SLAB	CONDUIT CONCEALED IN FLOOR SLAB
EXPOSED CONDUIT	EXPOSED CONDUIT
HOME RUN - DIAGONAL LINES INDICATE NUMBER OF WIRES, ARROWS INDICATE NUMBER OF CIRCUITS	HOME RUN - DIAGONAL LINES INDICATE NUMBER OF WIRES, ARROWS INDICATE NUMBER OF CIRCUITS
BRANCH CIRCUIT OR FEEDER - SEE SCHEDULE FOR CONDUCTOR & CONDUIT QUANTITY & SIZE	BRANCH CIRCUIT OR FEEDER - SEE SCHEDULE FOR CONDUCTOR & CONDUIT QUANTITY & SIZE
GROUND WIRE	GROUND WIRE

ELECTRICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
"AC"	THESE LETTERS ADJACENT TO ANY SYMBOL INDICATES DEVICE BOTTOM TO BE MOUNTED 4" ABOVE COUNTERTOP BACKSPLASH
"AF"	ABOVE FLOOR FLOOR BOX FITTING
"AFF"	ABOVE FINISH FLOOR
"CDU"	CONDENSING UNIT
"EF"	ELECTRIC FURNACE
"EFU"	ELECTRIC FURNACE
"EMT"	ELECTRIC METALLIC TUBING
"FURN"	GAS FURNACE
"GF"	GROUND-FAULT INTERRUPTING DEVICE
"IG"	ISOLATED GROUND DEVICE
"IMC"	INTERMEDIATE METALLIC TUBING
"LC"	LIGHTING CONTACTOR
"M"	MOTOR STARTING
"MP"	MOTOR STARTING W/PILOT LIGHT
"NL"	NIGHT LIGHT
"PEC"	PHOTOELECTRIC CONTROL
"RGS"	RIGID GALVANIZED STEEL
"TL"	LOCKING OR TWIST-LOCK TYPE DEVICE
"TS"	TIMESWITCH
"W"	WALL OUTLET
"WP"	WEATHERPROOF ENCLOSURE
"WPI"	WEATHERPROOF BOX, WITH WEATHER PROOF "IN-USE" COVERPLATE
"XP"	EXPLOSION-PROOF ENCLOSURE
60"	DIMENSIONS ADJACENT TO ANY SYMBOL INDICATES MOUNTING HEIGHT TO CENTERLINE OF DEVICE

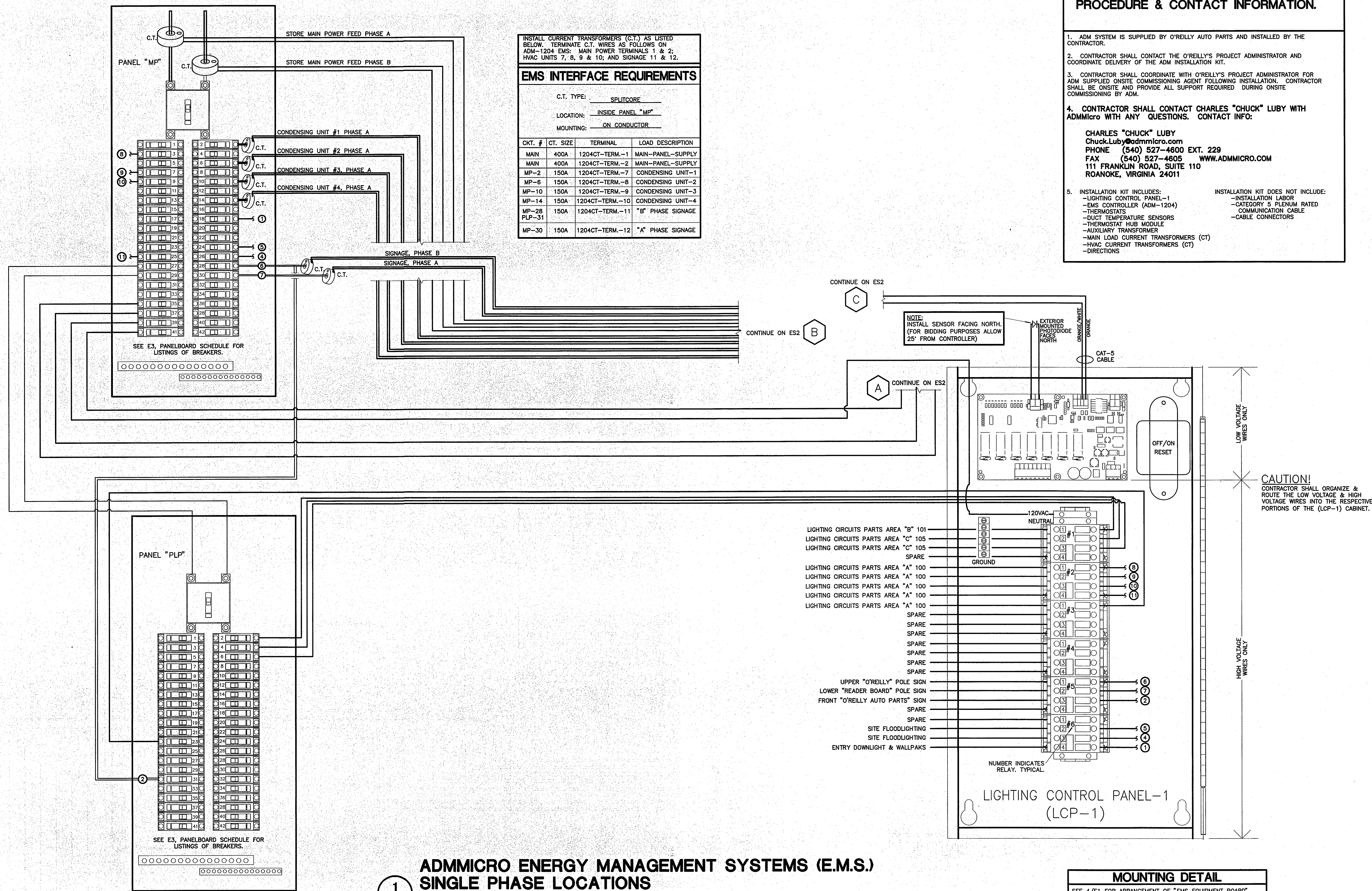
PLAN NOTATIONS

INDICATES DIRECTION OF NORTH	INDICATES DIRECTION OF NORTH
NORTH	NORTH
DETAIL REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER.	DETAIL REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER, LOWER NUMBER INDICATES SHEET NUMBER.
PLAN NOTE REFERENCE	PLAN NOTE REFERENCE
ROOM NUMBER REFERENCE	ROOM NUMBER REFERENCE

NOTES

GENERAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. REFER TO THE ARCHITECTURAL PLANS AND FIELD VERIFY CONDITIONS FOR DIMENSIONS.
- ALL ELECTRICAL WORK SHALL COMPLY WITH NFPA 70-NATIONAL ELECTRICAL CODE (NEC) (LATEST EDITION).
- ALL WIRING SHALL BE IN CONDUIT, EXCEPT THAT MC-CABLE MAY BE SUBSTITUTED ONLY AS FOLLOWS:
A. MC-CABLE (MAXIMUM CABLE LENGTH OF 10'-0") MAY BE INSTALLED ONLY FOR BRANCH CIRCUIT WIRING TO LIGHT FIXTURES IN LAY-IN GRID CEILING.
B. MC-CABLE (MAXIMUM CABLE LENGTHS SHOWN ON DETAIL 2/E2 SHALL BE INSTALLED INSIDE OF THE FRONT CHECKOUT COUNTERS.
- FEEDER CONDUIT SHALL BE IMC OR RGS ABOVE GRADE, AND PVC BELOW GRADE, WITH IMC OR RGS ELLS AND RISERS. INTERIOR BRANCH CIRCUIT CONDUIT SHALL BE ELECTRICAL METALLIC TUBING. EXTERIOR BRANCH CIRCUIT SHALL BE PVC BELOW GRADE, AND IMC OR RIGID GALVANIZED STEEL CONDUIT CONTINUING ABOVE GRADE. (SPEC 26 05 33).
- COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".
- ALL WIRING IN FINISHED SPACES SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
- COORDINATE ALL EQUIPMENT ROUGH-IN CONNECTION REQUIREMENTS.
- ALL OUTLET BOXES SHALL BE METALLIC. REFER TO SPECIFICATION (SECTION 26 05 34).
- ALL CAULKING ON BUILDING PENETRATIONS SHALL BE ELASTOMERIC POLYURETHANE (NO EXCEPTIONS), EQUAL TO "VULKEM" 116. ANY CONTRACTOR WHO USES SILICONE OR ANY OTHER CAULKING WILL BE REQUIRED TO REMOVE AND REPLACE WITH ELASTOMERIC POLYURETHANE.
- RECEPTACLES INSTALLED IN RESTROOMS SHALL BE GFCI TYPE OR SHALL BE PROTECTED BY A GFI DEVICE.
- ALL DEVICES SHALL BE IVORY. REFER TO SPECIFICATION (SECTION 26 27 26) FOR DEVICES.
- USE DEVICE PLATES MANUFACTURED BY THE DEVICE MANUFACTURER. REFER TO SPECIFICATION (SECT 26 27 26).
- FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, STRANDED, 600V THHN/THWN INSULATION. EXCEPTION: WIRE SIZES #10 AWG AND SMALLER SHALL BE SOLID. REFER TO SPECIFICATION (SECTION 26 05 19).
- CONTRACTOR SHALL PROVIDE A TYPED CIRCUIT DIRECTORY FOR ALL PANELS. REFER TO SPECIFICATION (SECTION 26 05 53).
- CONTRACTOR SHALL PROVIDE A ONE(1) YEAR WARRANTY ON ALL WORK PERFORMED.
- CONTRACTOR SHALL PROVIDE NEW WORKING LAMPS IN



1
ES1
NO SCALE

ADMMICRO ENERGY MANAGEMENT SYSTEMS (E.M.S.)
SINGLE PHASE LOCATIONS

SCOPE OF WORK for ADMMicro SYSTEM

CAUTION:
ADM SYSTEM REQUIRES COMMISSIONING PRIOR TO START-UP. SEE NOTES #3 & #4 BELOW FOR COMMISSIONING PROCEDURE & CONTACT INFORMATION.

1. ADM SYSTEM IS SUPPLIED BY O'REILLY AUTO PARTS AND INSTALLED BY THE CONTRACTOR.
2. CONTRACTOR SHALL CONTACT THE O'REILLY'S PROJECT ADMINISTRATOR AND COORDINATE DELIVERY OF THE ADM INSTALLATION KIT.
3. CONTRACTOR SHALL COORDINATE WITH O'REILLY'S PROJECT ADMINISTRATOR FOR ADM SUPPLIED ONSITE COMMISSIONING AGENT FOLLOWING INSTALLATION. CONTRACTOR SHALL BE ONSITE AND PROVIDE ALL SUPPORT REQUIRED DURING ONSITE COMMISSIONING BY ADM.
4. CONTRACTOR SHALL CONTACT CHARLES "CHUCK" LUBY WITH ADMMicro WITH ANY QUESTIONS. CONTACT INFO:

CHARLES "CHUCK" LUBY
Chuck.Luby@admmicro.com
PHONE (540) 527-4800 EXT. 229
FAX (540) 527-4605 WWW.ADMMICRO.COM
111 FRANKLIN ROAD, SUITE 110
ROANOKE, VIRGINIA 24011
5. INSTALLATION KIT INCLUDES:
-LIGHTING CONTROL PANEL-1
-EMS CONTROLLER (ADM-1204)
-THERMOSTATS
-DUCT TEMPERATURE SENSORS
-THERMOSTAT HUB MODULE
-AUXILIARY TRANSFORMER
-MAIN LOAD CURRENT TRANSFORMERS (CT)
-HVAC CURRENT TRANSFORMERS (CT)
-DIRECTIONS

INSTALLATION KIT DOES NOT INCLUDE:
-INSTALLATION LABOR
-CATEGORY 5 PLENUM RATED COMMUNICATION CABLE
-CABLE CONNECTORS

MOUNTING DETAIL
SEE 4/E1 FOR ARRANGEMENT OF "EMS EQUIPMENT BOARD"

FOR INFORMATIONAL USE ONLY

417.862.0558
417.862.3265
architect@ostertyschneider.com

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ARCHITECT

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New O'Reilly Auto Parts Stores

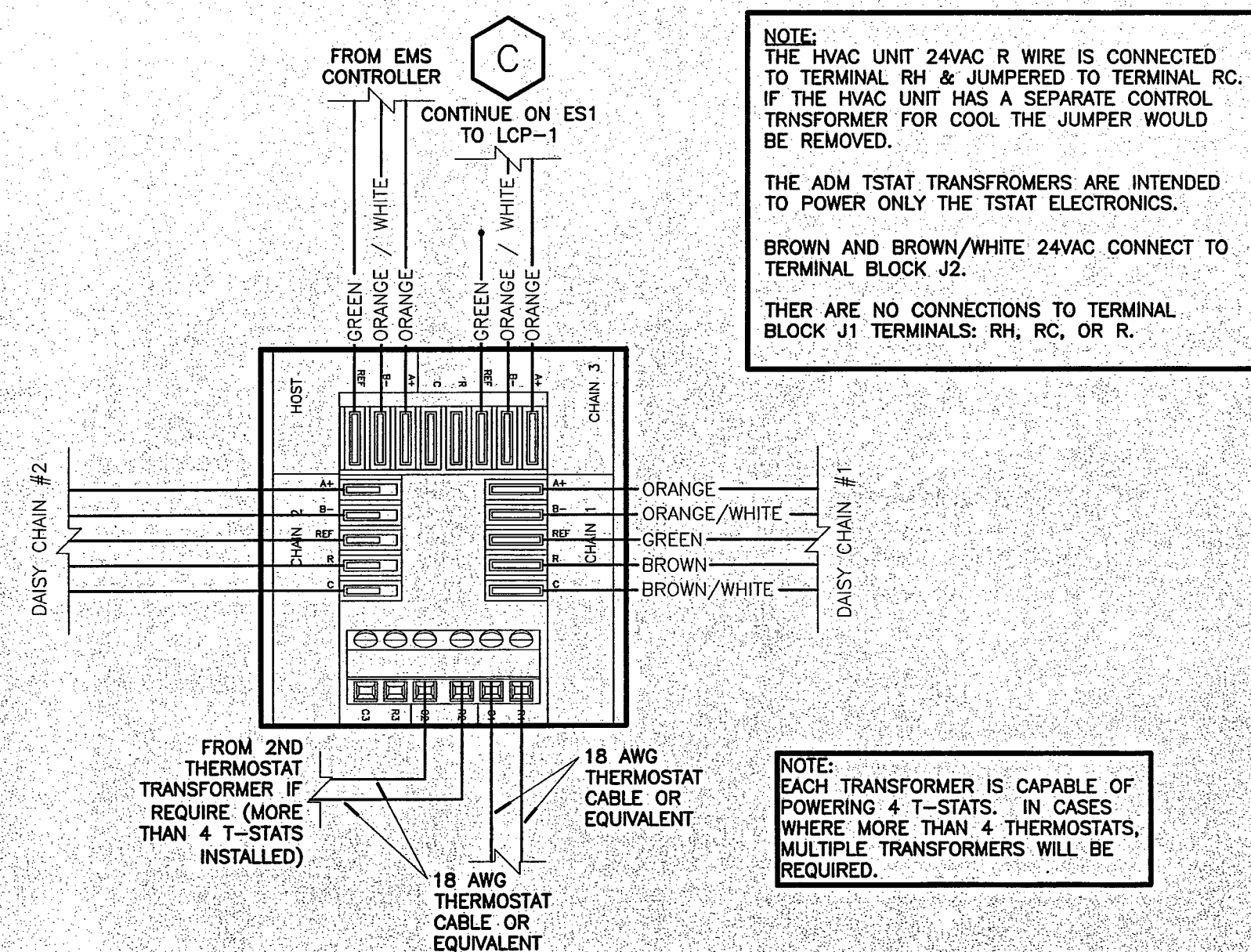
O'Reilly AUTO PARTS

Corporate Offices:
233 South Patterson, Springfield, Mo 65802
Phone: (417) 862-3333 FAX: (417) 874-7112

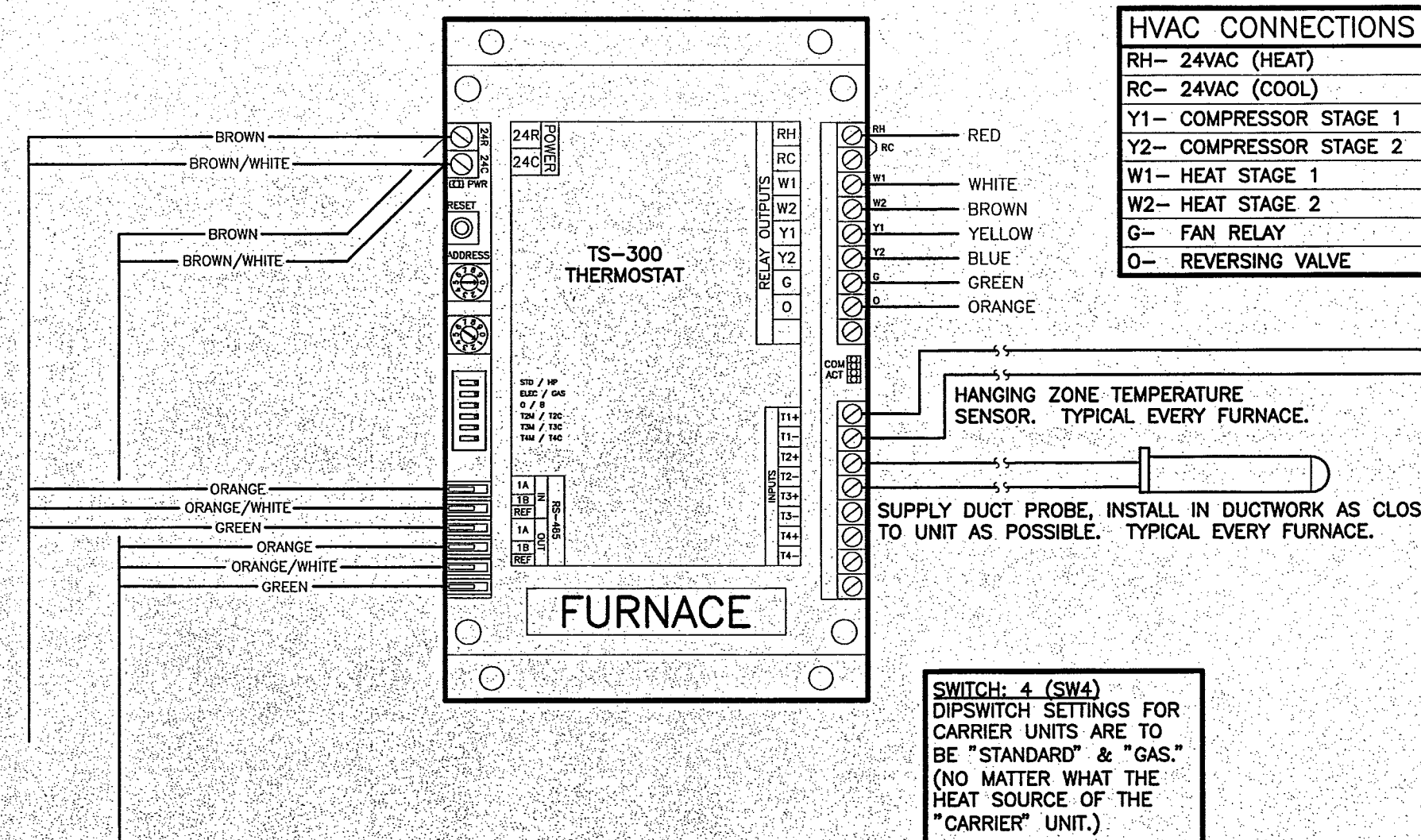
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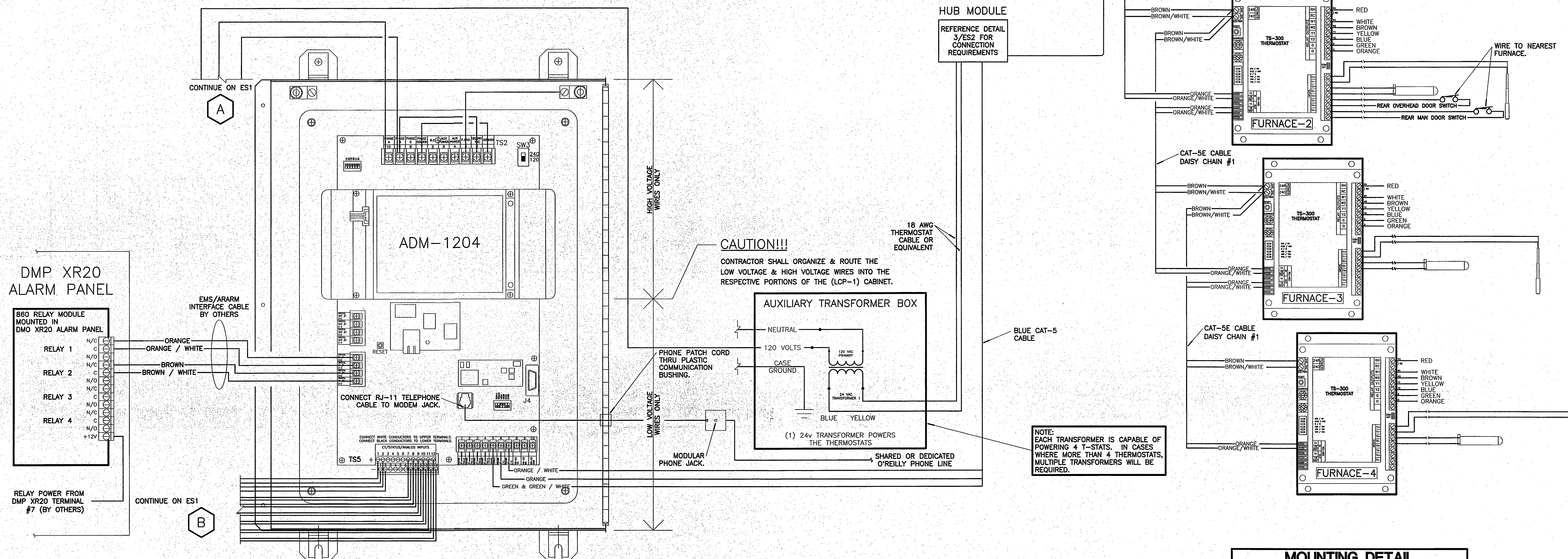
ES1 of 3



3 HUB MODULE DETAIL
ES2 NO SCALE



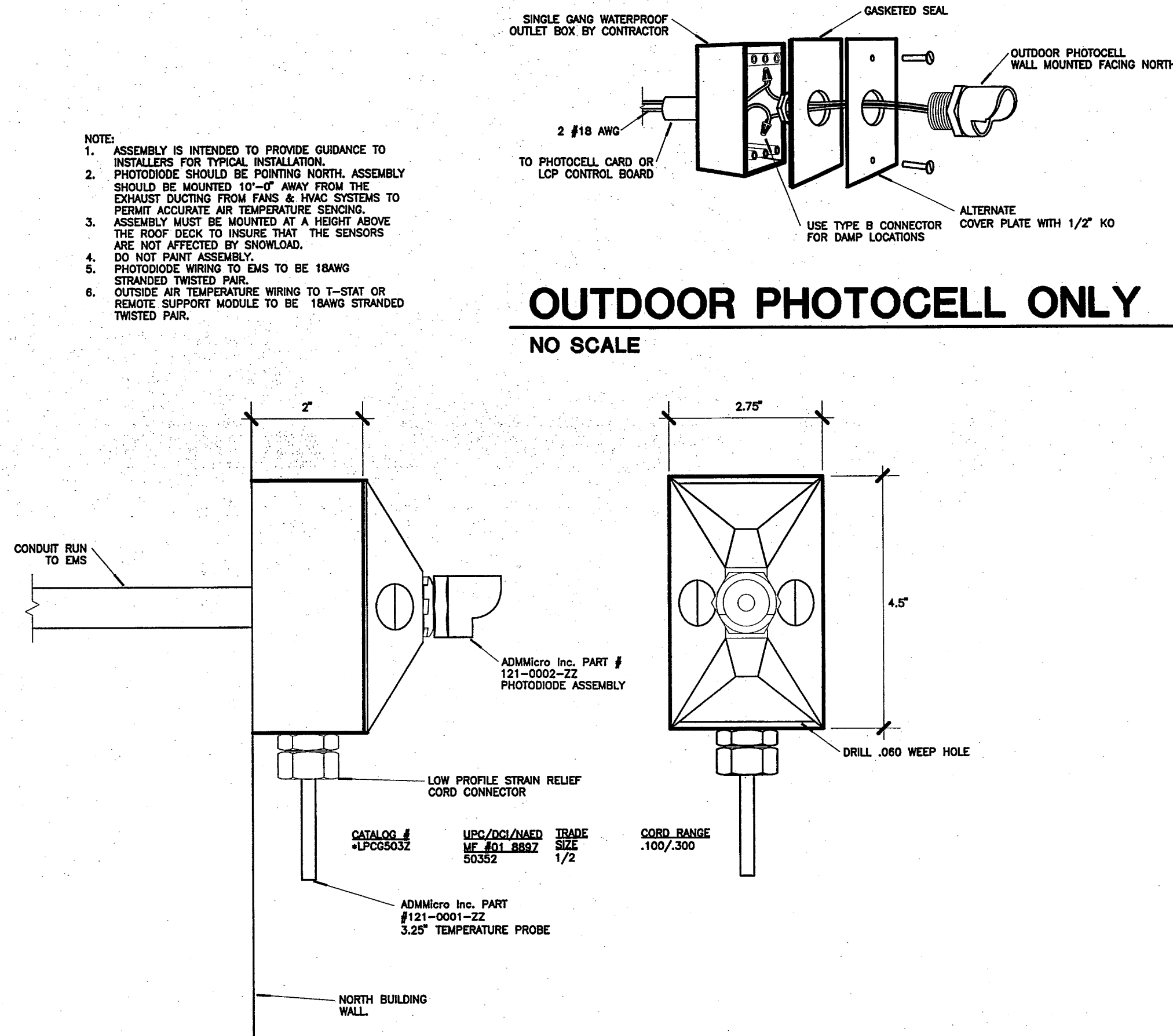
2 THERMOSTAT WIRING DETAIL
ES2 NO SCALE



1 ADMMICRO ENERGY MANAGEMENT SYSTEMS (E.M.S.) SINGLE PHASE LOCATIONS
ES2 NO SCALE

MOUNTING DETAIL
SEE 4/E1 FOR ARRANGEMENT OF "EMS EQUIPMENT BOARD"

ADMMicro Inc. ENERGY MANAGEMENT SYSTEM NOTES:				
<p>ADMMICRO HAS BEEN SELECTED TO BE THE ENERGY MANAGEMENT SYSTEM (EMS) SUPPLIER FOR ALL O'REILLY AUTO PARTS NEW CONSTRUCTION SITES. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE ADMMICRO ENERGY MANAGEMENT SYSTEM IS CORRECTLY INSTALLED IN ALL O'REILLY AUTO PARTS NEW STORE CONSTRUCTION.</p> <p>THE INFORMATION ON THE EMS SUPPLIED IN THESE NOTES AND DRAWINGS WAS CORRECT AND BASED ON THE INFORMATION MADE AVAILABLE AT THE INCEPTION OF THE DESIGN OF THIS PROJECT. SITE SPECIFIC INFORMATION IS NOT AVAILABLE. THE GENERAL INTENT OF THESE NOTES AND DRAWINGS IS TO PROVIDE GUIDANCE TO A CONTRACTOR HAVING OVERALL KNOWLEDGE OF ENERGY MANAGEMENT SYSTEMS.</p> <p>ADMMICRO INC. RESPONSIBILITIES</p> <p>ADMMICRO IS RESPONSIBLE FOR SUPPLYING O'REILLY AUTO PARTS ALL THE REQUIRED COMPONENTS OF THE EMS.</p> <p>ADMMICRO WILL SUPPLY</p> <ul style="list-style-type: none">• ADM 120V ENERGY MANAGEMENT CONTROLLER• ADM LCP (LOAD CONTROL PANEL WITH PHOTODIODE)• T300M COMMUNICATING THERMOSTATS (1 PER HVAC UNIT)• 1 HUB MODULE• 150 AMP CURRENT TRANSFORMERS (1 PER HVAC UNIT)• 150 AMP CURRENT TRANSFORMERS (1 PER 200V CIRCUIT PHASE)• 400 AMP CURRENT TRANSFORMERS• 1 AUXILIARY TRANSFORMER PER 4 THERMOSTATS• DUCT PROBES (1 PER HVAC UNIT, 1 FOR OUTSIDE AIR TEMPERATURE)• HANGING TEMPERATURE SENSOR (1 PER HVAC UNIT)• INSTALLATION CONVENIENCE KIT <p>ADMMICRO WILL NOT SUPPLY</p> <p>LIGHTING CONTRACTORS MOUNTING HARDWARE CONDUIT PULL BOXES HIGH VOLTAGE CABLING LOW VOLTAGE CABLING THERMOSTAT WIRING FROM TSTATS TO HVAC UNITS</p> <p>ADMMICRO WILL PROVIDE TECHNICAL SUPPORT DURING NORMAL BUSINESS HOURS TO ASSIST INSTALLERS WITH TROUBLESHOOTING AND CONFIGURING THE EMS SYSTEM. TECHNICAL SUPPORT IS AVAILABLE BY CALLING (866) 800-8906. THE FOLLOWING CRITERIA MUST BE COMPLIED WITH BEFORE CALLING FOR TECHNICAL SUPPORT.</p>	<p>DO NOT POWER THE SYSTEM UNTIL DIRECTED BY ADMMICRO.</p> <ul style="list-style-type: none">• ALL COMPONENTS MUST BE MOUNTED AND WIRED.• ALL DATA WIRING MUST BE RULLED AND LANCED.• THE LIGHTING CIRCUITS MUST BE ROUTED THROUGH THE LCP.• ALL THE EXTERIOR LIGHTING AND SIGN CONTRACTORS MUST BE WIRED.• THE PHOTODIODE MUST BE INSTALLED AND PROPERLY ORIENTATED FACING NORTH.• THE CURRENT TRANSFORMERS MUST BE INSTALLED WITH THE CT LABEL, FACING THE SOURCE.• THE HVAC SYSTEM MUST BE INSTALLED AND OPERATIONAL.• THE SYSTEM MUST BE CONNECTED TO AN ACTIVE TELEPHONE LINE WITH A DIAL TONE TO ALLOW REMOTE ACCESS AND PROGRAM DOWNLOADS. <p>QUESTIONS CONCERNING EQUIPMENT ORDERS, INSTALLATION ISSUES OR TECHNICAL SUPPORT CAN BE ADDRESSED TO: ADMMICRO SUPPORT CENTER AT (866) 800-8906 OR TO SENIOR PROJECT MANAGER CHARLES LUBY (540) 527-4600 EXTENSION 229 CHUCK.LUBY@ADMMICRO.COM</p> <p>INSTALLATION:</p> <p>THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE INSTALLATION COMPLIES WITH ALL FEDERAL, STATE AND LOCAL BUILDING CODES AND WITH ALL APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE.</p> <p>THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE SYSTEM BETWEEN TRADES AND SUBCONTRACTORS. NORMALLY, BOTH HVAC, TELEPHONE AND ELECTRICAL TRADES WILL BE REQUIRED TO INSTALL THE SYSTEM AND PLACE IT IN OPERATION.</p> <p>THE GENERAL CONTRACTOR MUST CREDIT O'REILLY AUTO PARTS FOR ANY EQUIPMENT THAT HAS BEEN OMITTED FROM THE ORIGINAL SCOPE OF SUPPLY AS A RESULT OF THE EMS INSTALLATION.</p> <p>CABLING:</p> <p>ALL DATA CABLING MUST BE INSTALLED USING CAT 5E DATA COMMUNICATIONS CABLING. WHERE NECESSARY, FLEXIBLE RATED CAT 5E CABLE WILL BE INSTALLED.</p> <p>UNLESS CODE REQUIREMENTS DICTATE THAT THE CLASS 2 CABLE BE ROUTED THROUGH CONDUIT, CONDUIT SLEEVES WILL BE INSTALLED UP INTO THE BAR JOISTS OR ABOVE THE CEILING TILES. EMT CONNECTORS AND BUSHINGS WILL BE INSTALLED TO PROTECT THE CABLING FROM CHAFFING AND ABRASION.</p> <p>CIRCUIT BREAKERS:</p> <p>THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALLATION OF DEDICATED BREAKERS TO SUPPLY POWER TO ALL COMPONENTS OF THE EMS. THESE BREAKERS MAY INCLUDE BUT WILL NOT BE LIMITED TO: SINGLE POLE 20 AMP 120V AUXILIARY TRANSFORMER SINGLE POLE 20 AMP 120V LOAD CONTROL PANEL (LCP)</p>	<p>TWO OR THREE POLE 20 AMP BREAKERS AT LINE VOLTAGE TO PROVIDE POWER TO THE ADM120M EMS. NUMBER OF POLES WILL BE PRECICATED ON STORE MAIN SERVICE. CONTRACTOR MUST PROVIDE 400 TO 120V TRANSFORMER FOR HIGH VOLTAGE INSTALLATIONS) THE BREAKERS MUST BE AS WIRED AS ASSIGNED IN THE ATTACHED SHEETS. LABEL ALL BREAKERS AS "EMS POWER"</p> <p>CURRENT TRANSFORMERS (CT):</p> <p>ALL CURRENT TRANSFORMERS MUST BE INSTALLED AS SHOWN IN THE ATTACHED SHEETS. CT EXTENSION WIRE IS AVAILABLE FROM ADMMICRO AND SHOULD BE ORDERED WHEN PLACING THE EMS SYSTEM ORDER. THE HVAC CT'S MUST BE INSTALLED ON PHASE "A"</p> <p>INTERIOR LIGHTING:</p> <p>AS SHOWN IN THE ATTACHED SHEETS, THERE WILL BE AT LEAST THREE INTERIOR LIGHTING ZONES.</p> <p>SECURITY LIGHTING (NOT CONTROLLED BY THE EMS) SECURITY LIGHTING, EXIST LIGHTING AND EMERGENCY LIGHTING WILL BE ENERGIZED 24 HOURS. THE SECURITY LIGHTING WILL INCLUDE A LIGHT INSTALLED ON THE EXTERIOR OF THE BUILDING ABOVE THE DELIVERY DOOR.</p> <p>EMPLOYEE LIGHTING EMPLOYEE LIGHTING WILL CONSIST OF APPROXIMATELY 90 % OF THE INTERIOR LIGHTING CIRCUITS. THESE CIRCUITS HAVE BEEN DESIGNED TO PROVIDE SUFFICIENT LIGHTING FOR STORE OPENING, CLOSING AND CLEANING OPERATIONS. THESE LIGHTS WILL BE CONTROLLED BY THE EMS THROUGH THE LCP AND WILL BE ENERGIZED IN ACCORDANCE WITH THE STORES OPERATING SCHEDULE. NOTE THAT THE LCP IS SUPPLIED WITH NORMALLY CLOSED CONTACTS. WHEN THE POWER SUPPLYING THE LCP CONTROL BOARD IS INTERRUPTED, THE CONTACTORS CLOSE AND ALL THE INTERIOR, EXTERIOR LIGHTING AND SIGNAGE LOADS ARE ENERGIZED.</p> <p>SALES LIGHTING SALES LIGHTING WILL CONSIST OF THE BALANCE OF THE INTERIOR LIGHTING CIRCUITS. THESE CIRCUITS WILL BE ENERGIZED WHEN THE STORE OPENS TO THE PUBLIC AND WILL BE EXTINGUISHED WHEN THE STORE CLOSES.</p> <p>EXTERIOR LIGHTING:</p> <p>THE PARKING LOT, WALL PACKS AND SODPITT LIGHTING WILL BE CONTROLLED BY THE EMS THROUGH THE LCP. THESE LIGHTS WILL BE OPERATED BASED ON LOCAL SUNRISE AND SUNSET TIMES AND ON THE STORE SCHEDULE.</p> <p>SIGNAGE SYSTEMS:</p> <p>ALL POLE AND BUILDING MOUNTED SIGNAGE SYSTEMS WILL BE CONTROLLED BY THE EMS THROUGH THE LCP. THESE SIGNS WILL BE OPERATED BASED ON AMBIENT LIGHT LEVELS, LOCAL SUNRISE AND SUNSET TIMES AND ON THE STORE SCHEDULE.</p>	<p>PHOTODIODE AND OUTSIDE AIR TEMPERATURE SENSOR INSTALLATION:</p> <p>THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THE PHOTODIODE AND OUTSIDE AIR TEMPERATURE SENSOR. THE PHOTODIODE AND SENSOR ASSEMBLY MUST BE MOUNTED FACING NORTH. SEE SUGGESTED ASSEMBLY DRAWING.</p> <p>HVAC SYSTEMS:</p> <p>THE EMS CONTROLS THE HVAC SYSTEM INSTALLED IN THE STORE THROUGH COMMUNICATING THERMOSTATS. THESE THERMOSTAT SETPOINTS ARE CONTROLLED TO PERMIT A COMFORTABLE WORKING ENVIRONMENT FOR TEAM MEMBERS WHILE MAXIMIZING THE ENERGY SAVINGS AVAILABLE TO THE ENTERPRISE. WHEN THE STORE IS UNOCCUPIED, THE HVAC SETPOINTS ARE RESET TO REDUCE THE ENERGY USAGE. BEFORE TEAM MEMBERS REPORT TO THE SITE, THE THERMOSTATS ARE RESET TO OCCUPIED TEMPERATURES.</p> <p>THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF THERMOSTAT AND COMMUNICATIONS CABLE THAT WILL ALLOW THE EMS TO BOTH COMMUNICATE WITH THE THERMOSTATS AND TO CONTROL THE HVAC SYSTEM. DEPENDING ON THE MODEL AND TYPE HVAC SYSTEM INSTALLED, THE THERMOSTATS WILL BE ADDRESSED AND CONFIGURED TO CONTROL THE HVAC SYSTEM. TO COMMISSION THE SYSTEM THE ADMMICRO SUPPORT TEAM MUST KNOW THE MANUFACTURER AND MODEL NUMBERS OF THE INSTALLED HVAC UNITS.</p> <p>COMMISSIONING:</p> <p>THE GENERAL CONTRACTOR MUST MAKE THE EMS INSTALLER AVAILABLE FOR A MINIMUM OF 2 HOURS TO COMMISSION THE SYSTEM. WHEN READY TO COMMISSION THE STORE THE INSTALLER MUST CALL ADMMICRO SUPPORT CENTER AT (866) 800-8906. THE INSTALLER WILL BE ASKED TO PLACE THE SYSTEM IN VARIOUS MODES OF OPERATION AND OBSERVE THE OPERATION OF THE SYSTEMS WITHIN AND OUTSIDE THE STORE. PRIOR TO THE COMMISSIONING, THE INSTALLATION CONTRACTOR MUST COMPLETE AND FORWARD ALL THE REQUIRED FORMS AS FOLLOWS:</p> <p>LIGHTING CHECKLIST</p> <p>RECORDS ELECTRICAL DATA AND LIGHTING CONTROLS FOR SITE INFORMATION AND FOR ADMMICRO FILES. VERIFIES OPERATION OF THE PHOTODIODE, EXTERIOR AND INTERIOR LIGHTING AND SIGNAGE SYSTEMS.</p> <p>METER CHECKLIST</p> <p>RECORDS METER DATA TO INSURE OPERATION OF THE SUB-METERING AND CURRENT TRANSFORMERS ARE CORRECTLY INSTALLED</p> <p>HVAC CHECKLIST</p> <p>RECORDS CURRENT TEMPERATURE INFORMATION AND PERFORMANCE FOR ADMMICRO AND CUSTOMER FILES. INSURES THAT THE TSTATS ARE PROPERLY WIRED AND CONFIGURED. ALSO VERIFIES THE OPERATION OF THE AMBIENT TEMPERATURE SENSOR.</p>	<p>INSTALLER:</p> <p>INSTALLER MUST PLACE PROVIDED LABELING ON APPROPRIATE EQUIPMENT BEFORE COMPLETION OF INSTALLATION.</p> <p>INSTALLER MUST USE KNOCK/OUT PATCH AT UN-USED KNOCK-OUTS.</p> <p>QUESTIONS CONCERNING EQUIPMENT ORDERS, INSTALLATION ISSUES OR TECHNICAL SUPPORT CAN BE ADDRESSED TO: ADMMICRO SUPPORT CENTER AT (866) 800-8906 OR TO SENIOR PROJECT MANAGER CHARLES LUBY (540) 527-4600 EXTENSION 229 CHUCK.LUBY@ADMMICRO.COM</p>



**WALL MOUNTED
OUTDOOR PHOTOCELL & OUTSIDE AIR TEMPERATURE SENSOR**

NO SCALE