# DOWNTOWN BANNER POLES RAPID CITY, SOUTH DAKOTA

SHEET INDEX

SO STRUCTURAL NOTES & SECTIONS

SI POLE LOCATION PLAN - MINITH ST TO SEMBITH ST

22 POLE LOCATION PLAN - SYDOTH ST TO REPORT ST

LAFT

LATE SUBMITTAL





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Rapid City Growth Management Department Apple 2040 W. Moin Company of the Company of the Company of the South Devote 57702

# STRUCTURAL HOTES

# CENTRON MULTER

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ELECTRICAL DRAWINGS. CONSULT THESE DRAWINGS FOR OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

2. ALL DIMENSIONS AND CONDITIONS MUST BE VERSIED IN THE FIELD. ANY DISCREPANCES SHALL BE BROUGHT TO THE ATTENTION OF THE BHONEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

3. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STARE. AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTORS SOLE RESPONSEINTY TO DETERMINE EXECUTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPROMETS DURING EXECUTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORNG, SHETTING, TEMPORARY BARGING, CAND ACCOUNTANTISM CONTINUS, CUTS

4. ADDITIONAL OBSERVATIONS AS A RESULT OF REJECTION OF WORK COMPLETED AND/OR ADDITIONAL OBSERVATIONS DUE TO THE DEFICIENCIES IN WORK OBSERVED WILL BE AT THE EXPENSE OF THE CONTRACTOR.

S. ALL STRUCTURAL SHOP DRAWINGS TO SE REVEWED BY JOB SUPERINTENDENT IN ADDITION TO ALL PERSONNEL DEEMED NECESSARY BY CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER FOR APPROVAL.

5. ALL SHOP DRAWING RESUBMITTALS SHALL INCLIDE A WRITTEN DETAILED LIST OF LOCATIONS AND DESCRIPTIONS OF ALL CHANGES MADE FROM DREVIOUS SUBMITTAL. LIST SHALL BE SPECIFIC AND GORBRAIL NOTES SUCH AS DIMENSIONS CORRECTES ARE NOT ACCEPTABLE.

# DESIGN COOPS:

- 2003 INTERNATIONAL BUILDING CODE.
- SASSTO LITELA STANDARD SPECIELATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES & TRAFFIC SIGNALS.
- ACI 318-02 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY

# DESIGN LOADS:

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED WITH THE FOLLOWING SUPERMIPOSED LOADINGS

BASIC WAN SPEED 80 mph

# EQUINOATIONS:

FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 1.500 pag.

SHALL BE A36 THREADED ROD. PROVIDE HOT DIP GALVANIZE FINISH ON ALL ANCHOR BOLTS PERMANENTLY EXPOSED TO

# CONCRETE TESTINO

1. CONCRETE TESTING SHALL BE PAID FOR BY THE OWNER. TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST—IN—PLACE CONCRETE:

- A) ASTN C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE."
- OF PORTLAND CELENT CONCRETE."

  JOSTIN CES "STANDARD TEST METHOD FOR COMPRESSIVE STRENOTH OF CHARGROLL CONCRETE SPROMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR CHAY CLASS, FOR EMERY 50 CUBC YMADS (OR FRACTION) TREBEOT), FLACED PER DAY ROURIED CHARGE AS TOLLOBER. OUR CHARGE AS TOLLOBER. OUR TREBUT OF THE CONTROL OF TH

PROVIDE ONE ADDITIONAL RESERVE CYUNDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED, IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYUNDER(S) MAY BE DISCARDED.

# PENETRATIONS

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER.

## CONCRETE MAY DESIGN.

1. SHALL BE MIX DESIGNED BY A RECOGNIZED TESTING LABORATORY TO ACHIEVE A STRENCTH AT 28 DAYS AS LISTED SELOW WITH A PLASTIC AND WORKABLE MIX:

4,000 pm -- ALL OTHER CONCRETE

3 CONCRETE SHALL UTILIZE TYPE I/II CEMENT.

4. THE CONCRETE STRENGTHS SHOWN IN THE SECTION ABOVE AND IN THE SPECIFICATIONS ARE MINIMUM COMPRESSIVE STRENGTHS. THE ENGINEER SHALL DETERMINE IF THE CONCRETE IS ACCEPTABLE, OR TO BE REMOVED, OR TO RECEIVE SPECIAL QUINNO IF THE COMPRESSIVE STRENGTHS ARE LESS THAN SPECIFICID.

5 ALL CONCRETE EXPOSED TO WEATHER OR EARTH SHALL BE AIR ENTRAINED TO 5% TO 7%

6 WATER REBUCING AGENTS MAY BE USED IN THE CONCRETE MIX. PLASTICIZERS AND SUPER-PLASTICIZERS MAY BE USED ONLY WHEN WRITTEN PERMISSION OF THE DWANCER IS ONLY.

7 NO SALTS OF ANY KIND MAY BE USED IN CONCRETE BEFORE OBTAINING THE ENGINEER'S WRITTEN PERMISSION FOR THEIR USE.

# CONCRETE AND REINFORCING PLACEMENTS

ALL CONCRETE SHALL SE PLACED IN ACCORDANCE WITH ACI 301 AND ACI 117 EXCEPT AS MODIFIED BELOW:

ACI 117 ITEM 4.3.1.1

ELEVATIONS OF SLABS—ON—GRADE TOP OF SLAB
ELEVATION SHALL BE WITHIN A WE ENVELOPE
BITHER SIDE OF THE THEORETICAL DESIGN
SURFACE.

ACI 117 TIBS 4.5.7 TOLERANCE AS MEASURED BY FACTOR AND TOLERANCE AS MEASURED BY FACTOR AND TOLERANCE AS MEASURED BY THE STRAIGHTED ANYTHING TO THE SLAG AND ALLOHING IT TO REST LIPON TWO HING SPOTS PLACEMENT. THE CAPACITY ANY POWER TERMS TO THE STRAIGHT EDGE AND THE FLOOR SHALL NOT EXCELD W.

2. ALL REINFORCING STEEL TO BE ASTM A615, GRADE 60 (44 AND LARGER), EXCEPT WHERE NOTED OTHERWISE. REINFORCING SHALL NOT BE WELDED.

3. WELDED WIRE FABRIC TO CONFORM TO ASTM A185 AND SHALL BE FREE FROM OIL SCALE AND RISTS "PLACE WIRE IN ACCORDANCE WITH THE THYPICAL PLACING DETAILS OF ACI STANDARDS AND THE SPECIFICATIONS. MANNUM LAPS SHALL BE ONE SPACE PLUS Z"

4. ALL REINFORCING STEEL BARS TO BE DETAILED AND PLACED IN ACCORDANCE WITH THE LATEST ACL MANUALS.

S. LAP ALL RENFORCING SPUCES IN CONCRETE A MINIMUM OF 48 BAR DIAMETERS OR 24 HICKES, WINCHEVER IS GREATER, UNLESS NOTE OTHERWISE ON DRAWNIGS (CLASS & SPUCE).

6. WHERE SHOWN ON THE DRAWINGS, PROVIDE WELD PLATES, WELDMENTS, OR CONDICTE INSERTS FOR PASTENING AND SCORMO, OTHER COMPONENTS. CONCRETE INSERTS SHALL BE PURNISHED BY THE CONTRACTOR REQUIRING THEM AND INSTALLED BY THE CONTRACTOR ASTOR THE CONTRACTOR ASTOR THE CONTRACTOR ASTORD THE CONTRACTOR REQUIRING THEM.

7 REINFORCING STEEL SHALL RECEIVE CONCRETE COVER AS FOLLOWS:

DESCRIPTION MINIMUM COVER
CAST AGAINST AND PERMANENTLY 3" EXPOSED TO EARTH

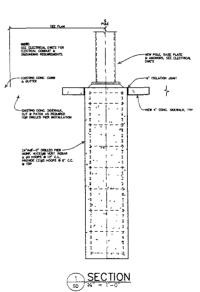
EXPOSED TO EARTH OR WEATHER #6 THROUGH #18 BARS #5 BARS OR SMALLER

NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH THE GROUND, SLABS AND WALLS #11 BARS OR SMALLER #14 AND #18

BEAMS AND COLUMNS

8. COLD WEATHER AND HOT WEATHER PROVISIONS OF ACI 306 AND 305 (CURRENT EDITIONS), RESPECTIVELY, SHALL BE





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